



HM Treasury



Llywodraeth Cymru
Welsh Government

INTERNATIONAL GUIDE TO DEVELOPING THE PROJECT BUSINESS CASE

BETTER BUSINESS CASES:
for better outcomes



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BBC Joint Foreword – DRAFT

A decade ago, the Five Case Model guidance was first published. In that period we have experienced almost unprecedented economic turbulence that continues to set the context within which we work. With fewer resources and increasing challenges, simply put, the pressure on public expenditure is likely to continue for the foreseeable future.

The importance of business case development in this context and, in particular, the Better Business Cases (BBC) programme, is clear. With demands on public services increasing it is imperative that we seek relentlessly to ensure that spend represents value for money and leads to robust benefits and positive outcomes for citizens.

The Better Business Cases programme has taken concrete steps to equip practitioners with the tools and skills to rise to this challenge. Accredited training courses are now globally available on a commercial basis, and since 2013 more than 6,000 have undertaken this training. A growing number are trained outside the UK – in New Zealand, South Africa and India. So we have real, encouraging evidence of the spread of best practice, and of the growing esteem in which the programme is held.

This updated guidance is one of a suite of documents to be released, namely: the international and UK versions of the programme guidance, the international and UK versions of the project guidance, and a management overview. These products are the result of collaborative work between HM Treasury and the Welsh Government, demonstrating the success that collaboration and partnership can bring when we work together to address shared problems and priorities.

It is more important than ever that proposals for investment in public infrastructure are planned well and are subject to effective appraisal and constructive challenge. The establishment of User Groups, or Networking meetings, has begun to bear fruit, and there are now regular public sector meetings taking place in Cardiff, London and the North of England which focus on improving the quality of business case development. This is particularly encouraging. The more we develop these communities of practice, share our experiences, and foster learning, the better our investment choices will be.

More than ever, public spending must contribute to growth, must ensure that we have the right type of facilities in the right places, and must improve public services. The Better Business Cases programme can and will help us to achieve those things.

Editor's Note to the international edition

This international edition of the five case model guidance supports the professional accreditation and training programme which is available worldwide. It is best practice methodology for developing proposals to scope, analyse, plan, procure and manage delivery of policies, programmes, portfolios and projects to achieve best value.

This refreshed edition of the guidance is an updated version of the 2013 edition but now programmes and projects are published as two separate documents. This allows greater clarification of the how the model should be applied in practice for these two different but related activities. The difference between this international edition and the UK guidance is the removal of UK specific external references and authorities where local guidance may be more relevant.

For some years, in addition to the UK and Welsh governments the New Zealand Treasury and the States of Guernsey have used the guidance tailored to meet the needs of their processes and governance. Since 2014 there has been a growth in international interest in both the guidance and the professional accreditation scheme interest in and use of the scheme around the world by governments, international NGOs' and private companies has been growing. The five principles adopted by the G20 in 2018 for the preparation of infrastructure schemes nationally and regionally are in fact the central pillars of the five case model.

Thanks are due to Joe Flanagan, the originator of the Five Case Model and author of the guidance, with whom I have been privileged to work on both the publication and the Better Business Cases accreditation and the accreditation and training programme.

Joseph Lowe,
Editor of the Green Book
HM Treasury 2018

1

Introduction

A project management approach is essential for the delivery of a set of related products and activities, in order to ensure effective management, benefits realisation and value for money.

This guidance has been prepared to assist:

- Senior managers and executives responsible for designing, delivering and approving projects, including Senior Responsible Owners (SROs), project directors, project managers and business case practitioners and reviewers.

It will also be of interest to:

- Members of Senior Management Boards with responsibility for approving business cases and
- Directors of Finance, Planning and Procurement and others with responsibility for operational aspects of the project.

What is a project?

A project is a temporary organisation that is needed to produce a unique and predefined outcome or result at a pre-specified time using predetermined resources.

Managing Successful Projects with PRINCE2 defines a project as “a management environment that is created for the purpose of delivering one or more business products according to a specified business case”.

Most projects have the following characteristics:

- a defined and finite life cycle
- clear and measurable inputs and outputs
- a corresponding set of activities and plans
- a defined amount of resource, and
- an organisational structure for governance and delivery.

How does a project align with the strategic planning process?

A project can be a major undertaking for most organisations, involving significant funding and change for the parties involved.

Figure 1 shows a typical environment for project management



Organisations achieve their vision and mission through business strategies, policies, initiatives and targets that are influenced and shaped by the political, economic, sociological, technological and legal environment in which they operate.

Organisations’ implementation strategies consist of strategic portfolios that scope, define and prioritise the programmes needed to deliver the agreed change, anticipated outcomes and resultant benefits.

These programmes initiate, align and monitor the projects and related activities required to deliver the agreed outputs. These outputs may consist of new products and services, new processes and service capabilities, or changes to business operations. But it is not until the projects deliver and implement the required outputs into business operations to achieve the outcomes that the full benefits of the programme can be realised.

A continual process of alignment is required to ensure that the programme and its projects remain linked to strategic objectives, because even as projects are in the process of implementing changes and improvements to their target business operations, they may need to respond to changes in strategies or accommodate new initiatives or policies.

A case study showing the relationship between strategy, programmes and projects is provided at Annex A.

What is the importance of the Project Business Case using the Five Case Model?

The project business case is important because projects will only deliver their intended outputs and benefits if they are properly scoped, planned and cost justified from the outset.

Preparing a project business case using the five case model provides decision makers and stakeholders with a proven framework for structured “thinking” and assurance that the project:

- Provides strategic fit and is supported by a compelling case for change.**
 This dimension of the five cases focuses on business planning and is the “strategic case” section within the project business case.
- Will maximise public value to society through the selection of the optimal combination of components, products and related activities.**
 This dimension of the five cases focuses on options appraisal and the identification of the preferred option and is the “economic case” section within the project business case.
- Is commercially viable and attractive to the supply side.**
 This dimension of the five cases focuses on the development and procurement of the potential Deal and is the “commercial case” section within the project business case.
- Is affordable and is fundable over time.**
 This dimension of the five cases focuses on the whole life costs of the proposed Deal and is the “financial case” section within the project business case.
- Can be delivered successfully by the organisation and its partners.**
 This dimension of the five cases focuses on the implementation arrangements for the proposal and is the “management case” section within the project business case.

What are the advantages of the Project Business Case?

A well prepared Project Business Case:

- enables the organisation and its key stakeholders to understand, influence and shape the project’s scope and direction early on in the planning process
- assists decision makers to understand the key issues, available evidence base and to avoid committing resources to schemes that should not proceed
- demonstrates to senior management, stakeholders, customers and decision makers the continuing viability of the project, and
- provides the basis for management, monitoring and evaluation during and after implementation.

When should the Project Business Case be developed?

A project business case is recommended best practice and should be prepared following the approval of senior management to the organisational strategy, mandate and brief for the project.

The organisational strategy provides the context for the project and is important because experience shows that a proposal begins most effectively when it is launched as part of a clear organisational strategy.

The project mandate provides the trigger and context at the start of the project. The project brief develops the concept for the scheme and provides an initial assessment of the viability and achievability of the proposal, prior to formally developing the project business case.

The project mandate and brief should be prepared in accordance with a recommended project management methodology and are dependent upon the organisation's top management team having defined and agreed the policies and business strategies for the organisation, including high level strategies for sourcing and service delivery and the prioritisation of new and existing work.

The project business case is a working document which must be developed and revisited over the duration of the scheme.

Developing a Project Business Case applies to all types of projects and requires trained people who have the capabilities and competencies to undertake the tasks involved.

What is Project Assurance?

Project assurance provides independent and impartial confirmation that the project or any one of its activities is on track. It also confirms that the project is applying relevant practices and procedures and that the business rationale for the scheme remains aligned with the organisational strategy.

Experience demonstrates that there is significantly added value in an organisation subjecting its projects to rigorous assurance, since the effort and resources saved by re-focussing or cancelling a project that is no longer needed far outweighs its continued cost.

Organisations should apply their own standards for project assurance. A number of review points are recommended in this guidance following key stages in the development of the project business case

2

An Overview of the Five Case Model

Introduction

This chapter provides an overview of the Five Case Model Methodology for the preparation of business cases.

The Five Case Model is applicable to policies, strategies, programmes and projects and comprises of five key dimensions:

- The Strategic Case
- The Economic Case
- The Commercial Case
- The Financial Case
- The Management Case

The Strategic Case

The purpose of the strategic dimension of the business case is to make the case for change and to demonstrate how it provides strategic fit.

Demonstrating that the scheme provides synergy and holistic fit with other projects and programmes within the strategic portfolio requires an up-to-date organisational business strategy that references all relevant local, regional and national policies and targets.

Making a robust case for change requires a clear understanding of the rationale, drivers and objectives for the spending proposal, which must be made SMART – specific, measurable, achievable, relevant and time constrained – for the purposes of post evaluation.

Key to making a compelling case for intervention is a clear understanding of the existing arrangements (business as usual (BAU)), business needs (related problems and opportunities), potential scope (the required organisational capabilities) and the potential benefits, risks, constraints and dependencies associated with the proposal.

The challenges are:

- to explain how further intervention and spend on key “inputs” will deliver “outputs” that improve the organisation’s capability to deliver better outcomes and benefits to stakeholders and customers, while recognising the associated risks
- to ensure the organisation’s proposals focus on business needs that have been well researched and are supported by service demand and capacity planning
- to ensure schemes are planned and delivered as part of an approved organisational strategy that has a well defined portfolio of related programmes and projects.

Box 1: Contents of the Strategic Case

Strategic Context

Organisational overview
Business strategy and aims
Other relevant strategies

The Case for Change

Spending objectives
Existing arrangements
Business needs – current and future
Potential scope and service requirements
Main benefits and risks
Constraints and dependencies

The Economic Case

The purpose of the economic dimension of the business case is to identify the proposal that delivers best public value to society, including wider social and environmental effects.

Demonstrating public value requires a wide range of realistic options to be appraised (“the long list”), in terms of how well they meet the spending objectives and critical success factors for the scheme; and then a reduced number of possible options (“the short list”) to be examined in further detail.

The “short list” must include business as usual (BAU), a realistic and achievable “do minimum” that meets essential requirements, the preferred way forward (if this is different) and any other options that have been carried forward. These options are subjected to cost benefit analysis (CBA) or cost effectiveness analysis (CEA), where more appropriate, to identify the option that offers best public value to society.

The challenges are:

- to begin by selecting the “right” options for scope, solution, service delivery, implementation and funding, otherwise options will represent sub-optimal value for money from the outset
- to cost justify higher cost options in relation to “business as usual (BAU)” and the “do minimum”.
- to measure and monetise the benefits and risks.

Box 2: Contents of the Economic Case

Critical Success factors

Long listed options
Preferred Way Forward

Short listed options (including “business as usual (BAU)” and “do minimum”)
NPSC/NPSV findings
Benefits appraisal
Risk assessment
Sensitivity analysis
Preferred option

The Commercial Case

The purpose of the commercial dimension of the business case is to demonstrate that the preferred option will result in a viable procurement and a well structured Deal between the public sector and its service providers.

Demonstrating a viable procurement requires an understanding of the market place, knowledge of what is realistically achievable by the supply side and research into the procurement routes that will deliver best value to both parties.

Putting in place a well structured Deal requires a clear understanding of the services, outputs and milestones required to be achieved and of how the potential risks in the design, build, funding and operational (DBFO) phases of the scheme can best be allocated between the public and private sectors and reflected in the charging mechanism and contractual arrangements.

The challenge for the public sector is to be an “intelligent customer” and to anticipate from the outset how best public value can continue to be secured in during the contract phase in the face of inevitable changes to business, organisational and operational requirements.

Box 3: Contents of the Commercial Case

Procurement strategy and route

Service requirements and outputs

Risk allocation

Charging mechanism

Key contractual arrangements

Personnel implications

Accountancy treatment

The Financial Case

The purpose of the financial dimension of the business case is to demonstrate the affordability and funding of the preferred option, including the support of stakeholders and customers, as required.

Demonstrating the affordability and fundability of the preferred option requires a complete understanding of the capital, revenue and whole life costs of the scheme and of how the Deal will impact upon the balance sheet, income and expenditure and pricing arrangements (if any) of the organisation.

The challenge is to identify and resolve any potential funding gaps during the life span of the scheme.

Box 4: Contents of the Financial Case

Capital and revenue requirements

Net effect on prices (if any)

Impact on balance sheet

Impact on income and expenditure account

Overall affordability and funding

Confirmation of stakeholder/customer support (if applicable).

The Management Case

The purpose of the management dimension of the business case is to demonstrate that robust arrangements are in place for the delivery, monitoring and evaluation of the scheme, including feedback into the organisation's strategic planning cycle.

Demonstrating that the preferred option can be successfully delivered requires evidencing that the scheme is being managed in accordance with best practice, subjected to independent assurance and that the necessary arrangements are in place for change and contract management, benefits realisation and risk management.

The challenges are:

- to manage the risks in the design, build, funding and operational phases of the scheme and put in place contingency plans
- to deal with inevitable business and service change in a controlled environment, and
- to ensure that objectives are met, anticipated outcomes delivered and benefits evaluated.

Box 5: Contents of the Management Case

Programme management governance arrangements (roles, responsibilities, plans etc)
Project management governance arrangements
Use of specialist advisers
Change and contract management arrangements
Benefits realisation arrangements (including plans and register)
Risk management arrangements (including plans and register)
Post implementation and evaluation arrangements
Contingency arrangements and plans

3

The Business Case Development Process

Introduction

This chapter provides an overview of the business case development process for large, medium and small spending proposals using the Five Case Model.

The business case for significant spending proposals is developed in three key stages as follows:

Stage 0 – Determining the strategic context for the project

Stage 1 – Scoping the scheme and preparing the Strategic Outline Case (SOC)

Stage 2 – Planning the scheme and preparing the Outline Business Case (OBC)

Stage 3 – Procuring the solution and preparing the Full Business Case (FBC)

Stage 4 – Implementation and monitoring throughout the project

Stage 5 – Evaluation and feedback

The Business Case Development Framework

For large and medium scale public sector spending proposals that require to be procured competitively, in accordance with appropriate procurement legislation, the above stages involve 10 key steps, as described below.

The process is practical, because it is based on many years experience of successful delivery across a wide range of public sector spending proposals.

The process is iterative, because as the business case develops earlier work is revisited to verify its continued applicability.

The process is flexible, because the quality and quantity of supporting analysis can be tailored to the size and complexity of the project under development.

The business case development stages and related steps are as follows:

Fig: the business case development framework

Stage 0 – Determining the strategic context and undertaking the Strategic Assessment
Step 1: determining the strategic context
Programme/project assurance: strategic fit

Stage 1 – Scoping the scheme and preparing the Strategic Outline Case (SOC)
Step 2: making the case for change
Step 3: exploring the preferred way forward
Project assurance: business justification

Stage 2 – Planning the scheme and preparing the Outline Business Case (OBC)
Step 4: determining potential VFM
Step 5: preparing for the potential deal
Step 6: ascertaining affordability and funding requirement
Step 7: planning for successful delivery
Project assurance: delivery strategy

Stage 3 – Procuring the solution and preparing the Full Business Case (FBC)
Step 8: procuring the VFM solution
Step 9: contracting for the deal
Step 10: ensuring successful delivery
Project assurance: investment decision

Stage 4 – Implementation and monitoring
Project assurance: readiness for service

Stage 5 – Evaluation and feedback
Project assurance: operations review and benefits realisation

Stage 0 – Determining the strategic context and undertaking the Strategic Assessment

This is the strategic planning phase of the spending proposal which confirms that the project is strategically aligned.

The purpose of this stage is to assess the strategic context for the project and to demonstrate how it provides synergy and holistic fit with other programmes and projects within the strategic portfolio in support in the organisation’s business strategy.

This stage comprises of the following business case development activity:

Step 1: determining the strategic context

Early indications that the project is still needed and approved in principle are:

- the existence of an up-to-date and approved organisational strategy and supporting portfolio of which the project is a part
- the completion of feasibility and full studies

- the existence of an approved programme business case, where the project is not stand-a-lone and forms part of the programme.

Consideration should be given to the preparation of a programme business case if this has not been prepared for the programme of which the project forms an integral part.

It is recommended that programme/project assurance (0) is undertaken at this stage to confirm the strategic fit of the project

Stage 1 – Scoping the scheme and preparing the Strategic Outline Case (SOC)

This is the scoping phase for the project which results in the production of the Strategic Outline Case (SOC).

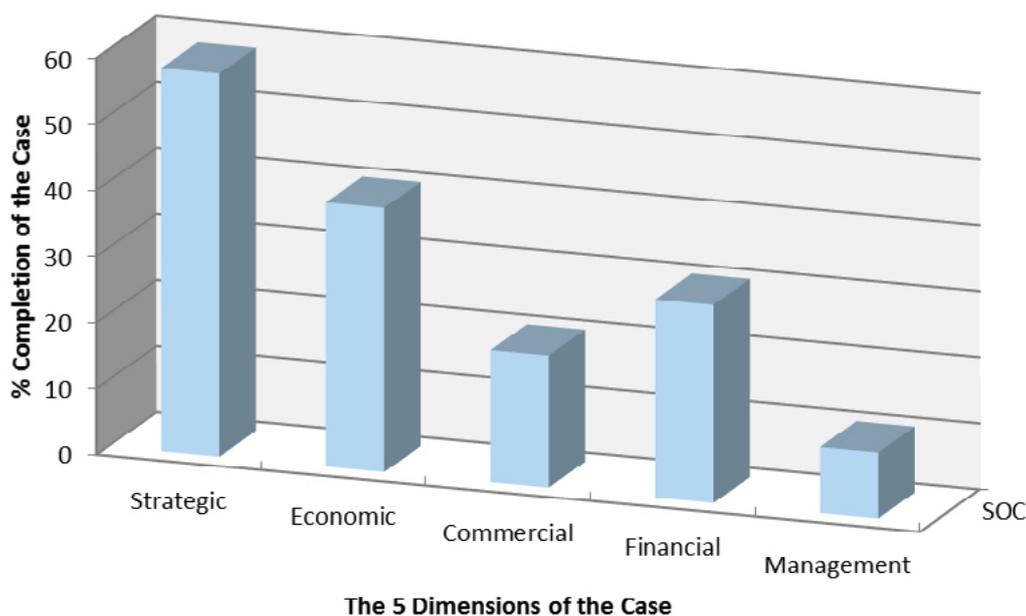
The purpose of this stage is to re-confirm the strategic context for the project, because this may have changed if some time has elapsed since the strategic assessment was undertaken; to make the case for change and to determine “the preferred way forward”.

Identifying the preferred way forward is achieved in two stages: first, by appraising a wide range of possible options (“the long list”) against the spending objectives and critical success factors for the project; and second, by calculating the indicative net present social values of a reduced number of possible options (“the short list”) on the basis of a preliminary analysis of their costs and benefits, including optimism bias for uncertainty.

This stage comprises of the following business case development activities:

- Step 2: making the case for change
- Step 3: exploring the preferred way forward.

At the conclusion of the SOC, senior management and stakeholders will have a good understanding of the robustness of the proposal and the future direction of travel, and the business case across the five dimensions of the Five Case Model will have been completed as illustrated below.



It is recommended that project assurance (1) is undertaken at this stage to confirm the business justification for the project.

Stage 2 – Planning the scheme and preparing the Outline Business Case (OBC)

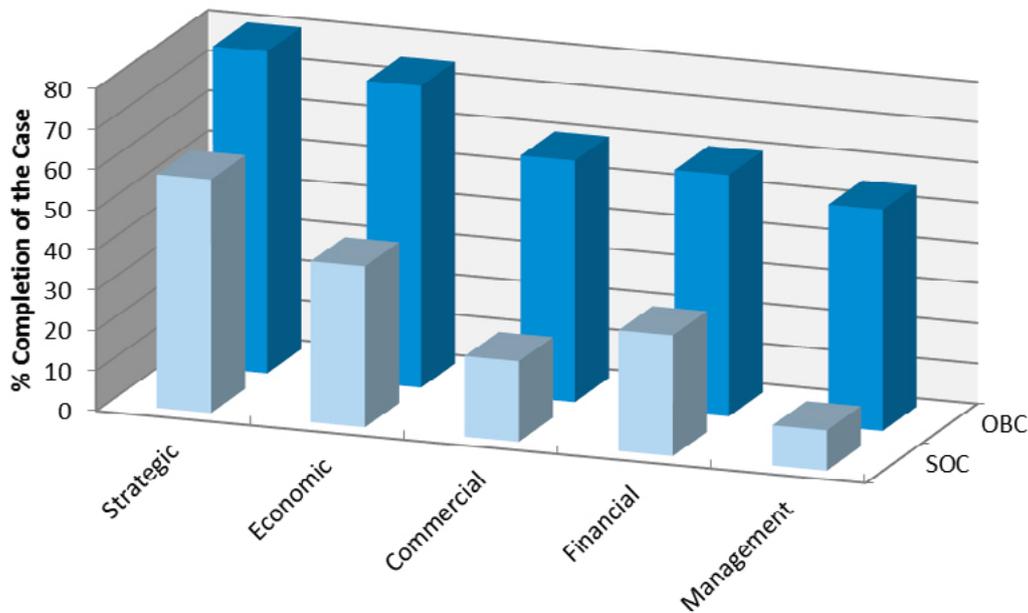
This is the planning phase for the project which results in the production of the Outline Business Case (OBC).

The purpose of this stage is to revisit the options identified in the SOC, to identify the option which optimizes public value (“the preferred option”) following more detailed appraisal; and to set out the possible Deal while confirming affordability and putting in place the management arrangements for the successful delivery of the project.

This stage comprises of the following business case development activities:

- Step 4: determining potential VfM
- Step 5: preparing for the potential deal
- Step 6: ascertaining affordability and funding requirement
- Step 7: planning for successful delivery

At conclusion of the OBC, senior management should be in position to consent to the procurement phase of the project and the business case across the five dimensions of the Five Case Model will have been completed as illustrated below.



The 5 Dimensions of the Case

It is recommended that project assurance (2) is undertaken at this stage to confirm the delivery strategy for the project.

Stage 3 – Procuring the solution and preparing the Full Business Case (FBC)

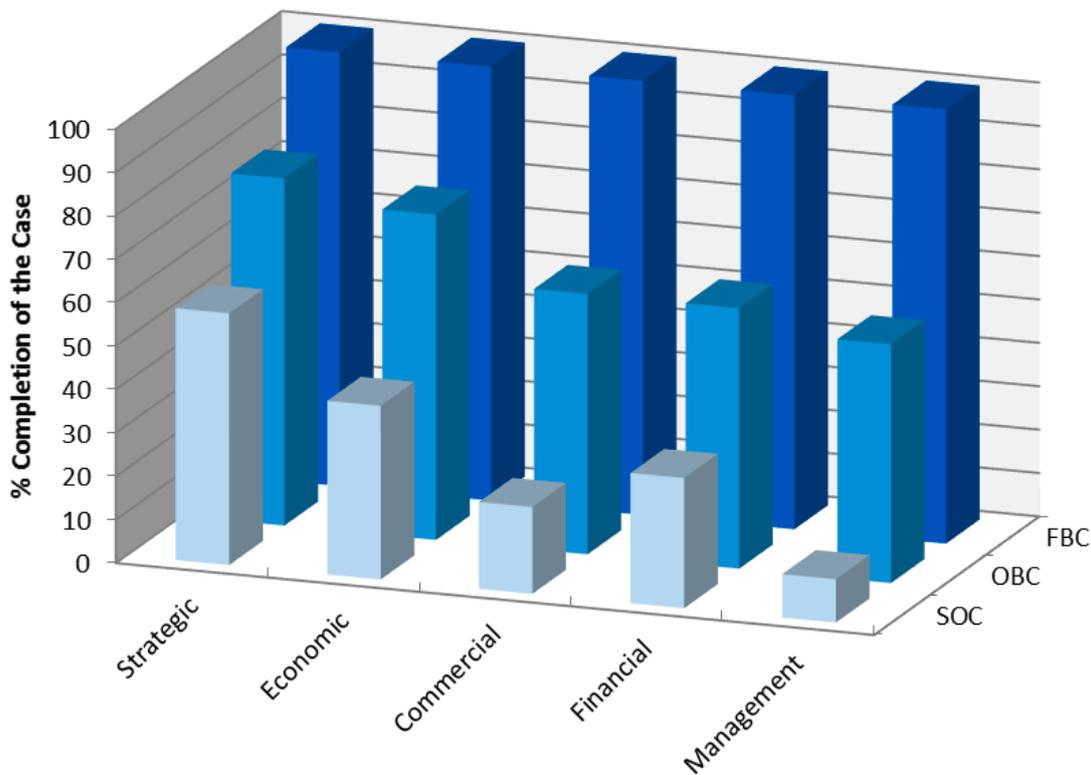
This is the procurement phase for the project which results in the Full Business Case (FBC), following negotiations with potential service providers prior to the formal signing of the contract(s).

The purpose of the FBC is to record the findings of the procurement phase and to identify the option which offers the “most economically advantageous offer” (MEAT) and best public value. In addition, the FBC records the contractual arrangements, confirms affordability and puts in place the agreed management arrangements for the delivery, monitoring and post evaluation of the project.

This stage comprises of the following business case development activities:

- Step 8: procuring the VfM solution
- Step 9: contracting for the deal
- Step 10: planning for successful delivery

At conclusion of the FBC, the development of the business case across the five dimensions of the Five Case Model will have been completed as illustrated below.



The 5 Dimensions of the Case

It is recommended that project assurance (3) is undertaken at this stage to confirm the investment decision for the project.

The stages for the development of the business case have now been completed. The business case continues to play an important role as follows.

Stage 4 – Implementation and monitoring

The business case should be used as a reference point for logging any material changes that are required by the procuring authority or the service supplier in respect of services and products.

The management tools developed in support of the project business case should be used to deliver and monitor progress and provide the basis for regular reports to the Project Board. This includes use of the project implementation plan and benefit and risk registers.

It is recommended that project assurance (4) is undertaken at this stage to confirm readiness for service for the scheme.

Stage 5 – Evaluation and feedback

The business case and its supporting products should be used for post evaluation. This includes the project implementation review (PIR) for assessing how well the project was delivered and lessons learnt, and the post evaluation review (PER) for evaluating the extent to which the anticipated benefits were delivered.

It is recommended that project assurance (5) is undertaken at this stage to evaluate the operational delivery of the project and benefits realisation.

Smaller Schemes and the Business Justification Case (BJC)

The Business Case Justification (BJC) is a “lighter”, single stage business case that is available for the support of smaller, less expensive spending proposals that are not novel or contentious and for which “firm” prices are available from a pre-competed arrangement, including framework contracts.

Responsibility for producing the business case

The responsibility for developing the project and producing the business case must be retained by the organisation.

External consultants provide invaluable assistance where the requisite skills and resources are unavailable in-house, particularly with the facilitation of supporting workshops.

Business Case template

Templates are available for the development of the business case using the three stage process (SOC, OBC and FBC) and the single stage process (BJC).

In conclusion, the business case development process is a “thinking” exercise which results in a well scoped and planned project supported by a document that provides “the repository for the evidence base” in support of good decision making.

Preparing a business case must never be approached as a “writing” exercise and a hurdle to jump for approval purposes and its use should be considered regardless of the need for external approval.

4

Determining the Strategic Context and undertaking the Strategic Assessment

Introduction

The purpose of the strategic assessment is to determine the strategic context for the project and how the project aligns with other projects and programmes within the organisation's business strategy.

A project begins most effectively when it is launched in the context of a clear business strategy, which explains:

- Where we are now?
- Where we want to be?
- How we will get there?
- How performance will be measured?

All organisational strategies must be reviewed on a regular basis and in advance of a new programme or project in order to verify continued fit and synergy with the organisation's overarching policies and other programmes and projects within the strategic portfolio

Step 1 **Determining the strategic context**

Action 1 Ascertain strategic fit

Undertake a strategic assessment to confirm how the project:

- supports national, regional, local or organisational policies, initiatives and targets
- fits within the organisation's business strategy and plans for the achievement of these goals, and
- aligns with other projects and programmes in the organisation's strategic portfolio.

Completing a strategic assessment provides the Organisation and its key stakeholders with an early opportunity to influence the direction, scope and content of the project and requires:

- a clear understanding of the critical path for the delivery of the programmes and projects within the strategic portfolio: anticipated outcomes, outputs, milestones, timescales, benefits and risks
- validating that the programmes and projects within the strategic portfolio are well structured, organised and funded; and that the required governance, standards, resources, competencies and capabilities are in place for successful delivery
- a detailed understanding of the business needs and service opportunities that the project is seeking to address.

Related activities

Consideration should be given to the following activities at this stage:

- Undertaking a review of organisational policies and strategies and further research prior to the commencement of the project, if this is required.
- The completion of a mandate and brief for the project, using a recognised project management methodology.
- A workshop for undertaking the strategic assessment, consisting of the project team, key stakeholders, members of the senior management team and other personnel with the required business, technical and user input.

Consideration should be given to holding this workshop in conjunction with Workshop 1 – the Case for Change.

- The completion of a scoping document for the potential coverage and technical content of the project business case – which can then be shared with the approving authority, in order to make the most appropriate use of the guidance and assist early approval of the programme.

The business case development process is scalable and the guidance should be used proportionately.

- Undertaking programme assurance to confirm the “strategic fit” of the project.

Annex C provides a template for the Programme and Project Scoping Document together with guidance on how the business case process may be tailored and streamlined in certain circumstances.

Checklist for step 1

There should now be a clear understanding of the strategic context for the project and how it fits with other projects and programmes within the strategic portfolio to achieve organisational goals.

Senior management and key stakeholders should now have a high degree of confidence that the project is required, deliverable and deserving of a supporting business case.

5

Scoping the proposal and preparing the Strategic Outline Case (SOC)

Introduction

Scoping the proposal and preparing the Strategic Outline Case (SOC) is the first stage in developing the project business case for a significant scheme using the Five Case Model.

The purpose of the Strategic Outline Case (SOC) is to establish the case for change and to provide a preferred way forward for senior management's approval prior to going onto the more detailed planning stage.

Completing the strategic case section of the SOC requires the following:

Step 2	Making the case for change
Action 2	Agree the strategic context
Action 3	Determine the spending objectives, existing arrangements and business needs
Action 4	Determine the potential scope for the project
Action 5	Determine project benefits, risks, constraints and dependencies

A facilitated workshop is recommended for the completion of Step 2.

Action 2: agree strategic context

Agree the strategic context for the project by providing an overview of the sponsoring organisation and explaining how the project is strategically placed to contribute to the delivery of organisational goals.

Draw on the findings of the strategic assessment for completion of this section of the business case.

Organisation Overview

Provide a brief overview of the organisation.

This summary introduces the organisation to the reader of the business case and can assist post evaluation of the project at a later stage, because public sector organisations are often re-organised and renamed before their projects deliver all of their outcomes.

The key areas to focus upon include:

- The purpose of the organisation, including its vision and mission statements, strategic goals, business aims and key stakeholders
- The range of services presently being provided, including key customers, service levels, current demand and annual turnover

- The organisational structure, including staffing and governance arrangements
- The organisation's existing financial position, including funding streams and levels of spend.

This information may be gleaned from existing documents, including annual reports. These should be briefly summarised or attached to the Project Business Case.

Alignment to existing policies and strategies

Explain how the project supports the existing policies and strategies of the organisation and will assist in achieving the business goals, strategic aims and business plans of the organisation.

This section should explain:

- all relevant international, national, regional, sector and local policies, initiatives and targets, as required, and focus on those which are most relevant to the project.
- how the organisation's policies, strategies and work projects support these policies, as required
- the relationship between the proposed project and other programmes and projects within the organisation's strategic portfolio, including relevant milestones and timescales on the critical path for delivery

Any linkages and interdependencies with another organisation's projects and projects should be explained, especially where the proposed project is intended to contribute to shared outcomes across multiple organisations.

This information may be gleaned from existing documents, including organisational strategies and business plans. These should be briefly summarised or attached to the Project Business Case.

Action 3: determine spending objectives, existing arrangements and business needs

A robust case for change requires a clear understanding of:

- What the organisation is seeking to achieve (the investment or spending objectives)
- What is currently happening (existing arrangements)
- What is required to close the gap between where we are now (existing arrangements) and where we need to be in the future (business needs).

Analysing a proposal in this way helps to establish a compelling case for change based on business needs, rather than the contention it is "a good thing to do".

Determining spending objectives

Specify spending objectives for the project that focus on the rationale and drivers for further intervention and the key outcomes and benefits we are seeking to achieve in support of the organisation's business strategy.

Setting robust spending or investment objectives is essential in terms of making a coherent case for change. They describe clearly what the organisation is seeking to achieve in terms of targeted

outcomes and provide the basis for post evaluation. So the key question to answer is “why are we undertaking this project?”

The project’s spending objectives should be:

- Aligned with the underlying policies, strategies and business plans of the organisation and be bound by the strategic context for the project
- SMART – specific, measurable, achievable, relevant, and time-constrained – to facilitate options appraisal and post evaluation
- customer focused and distinguishable from the means of provision, so focus is on what needs to be achieved rather than the potential solution
- not be so narrowly defined as to preclude important options, nor so broadly defined as to cause unrealistic options to be considered at the options appraisal stage
- focussed on the vital outcomes, since a single or large number of investments objectives can undermine the clarity and focus of the project.

The setting of clear, concise and meaningful SMART spending objectives is an iterative process and will depend upon the nature and focus of the project.

The project’s spending objectives will typically address one or more of the following five generic drivers for intervention and spend. These are:

- To improve the quality of public services in terms of the delivery of agreed outcomes (**effectiveness**). For example, by meeting new policy changes and operational targets.
- To improve the delivery of public services in terms of outputs (**efficiency**). For example, by improving the throughput of services whilst reducing unit costs.
- To reduce the cost of public services in terms of the required inputs (**economy**). For example, through “invest to save” schemes and spend on innovative technologies.
- To meet statutory, regulatory or organisational requirements and accepted best practice (**compliance**). For example, new health and safety legislation or building standards.
- To re-procure services in order to avert service failure (**replacement**). For example, at the end of a service contract or when an enabling asset is no longer fit for purpose.

Procuring assets and infrastructure is rarely a spending objective in itself, because it is what the organisation is seeking to achieve through the use of these resources in terms of identifiable and measurable social, economic and environmental outcomes that constitutes social value and value for money for the related spend.

Determining existing arrangements

Set out the existing arrangements for the service explaining:

- how services are currently organised and provided to customers on behalf of stakeholders
- the associated throughput and turnover and existing cost
- current asset availability, utilisation and condition

Providing a clear picture of the organisation’s current service model and existing arrangements provides an evidential base against which to challenge current perceptions of what are the difficulties and the baseline from which to measure future improvements.

Any critique of the difficulties associated with existing arrangements should be provided in conjunction with “business needs” in order to avoid blurring the clarity of the evidential base.

Identifying business needs

Specify the organisation’s business needs in terms of the improvements and changes that are required for the project to fulfil its agreed spending objectives.

This requires a clear understanding of the problems and difficulties associated with existing arrangements and a clear understanding of the opportunities for bridging any existing or future gaps in business operations and service provision.

Specifying the business needs and drivers for the project helps to identify the potential scope for the project, and to ensure that it is predicated on operational needs rather than potential benefits. This analysis should take service demand and capacity planning into consideration and include:

- confirmation of the continued need for existing business operations with supporting evidence
- projections of the nature and level of demand for future services, including customer demographics and alternative sources of supply

A useful technique for framing this section of the project business case is to complete the following template for each of the project’s spending objectives:

Fig:

Spending objective	Outcome we are seeking to achieve
Existing arrangements	Current situation
Business needs	The opportunities and problems associated with the current situation – the service gap

Action 4: Determine potential business scope and key service requirements

Identify the potential scope of the project in terms of the operational capabilities and service changes required to satisfy the identified business needs.

Consider the range of business functions, areas and operations to be affected and the key services required to improve organisational capability on a continuum of need, where:

- the “core” coverage and services required represent the “essential” changes without which the project will not be judged a success.
- the “desirable” coverage and services required represent the “additional” changes which the project can potentially justify on a cost/benefit and thus value for money basis.
- the “optional” coverage and services required represent the “possible” changes which the project can potentially justify on a marginal low cost and affordability basis.

This will assist in avoiding “scope creep” during the options appraisal stage of the project.

A table for the use of workshops and capturing this information is provided below.

Table:

Range	Core	Desirable	Optional
Potential scope			
Key service requirements			

Action 5: Determine benefits, risks, constraints and dependencies

Identify the benefits, risks, constraints and dependencies in relation to the agreed scope and key service requirements for the project.

This assists with the early appraisal of the options for delivery of the project and the preparation of supporting economic appraisals.

Identifying the main benefits

Specify the main benefits of the project to be delivered by:

- Benefit category – type
- Beneficiary – to whom it will be of value
- Benefit class – how the benefit will be measured

The approach to benefits identification and measurement should be prudent, proportionate and appropriate.

At this stage in the development of the project business case focus on the 20% of the benefits which are likely to provide 80% of the project’s benefit value.

Benefit category and beneficiary

The categorisation of benefits can be undertaken in different ways and depends upon the nature and focus of the project.

Consider the spending objectives for the project and linking targeted outcomes from the project to the beneficiaries; because understanding to whom the benefits will be of value is the key to identifying benefits and not confusing them with outcomes.

Benefits in the appraisal of social value

These are:

- Direct public sector benefits (to originating organisation):
 - cash releasing benefits (CRB)
 - monetisable non cash releasing benefits (non CRB)
 - quantifiable but not readily monetisable benefits (QB)
 - qualitative but not readily quantifiable benefits (Qual)
- Indirect public sector benefits (to other public sector organisation):
 - cash releasing benefits (CR)
 - monetisable non cash releasing benefits (non CRB)
 - quantifiable but not readily monetisable benefit (QB)
 - qualitative but not readily quantifiable benefits (Qual)
- Wider benefits to UK society (e.g. households, individuals, businesses)
 - monetisable, including cash benefits
 - quantifiable but not readily monetisable benefits
 - qualitative but not readily quantifiable benefits

Examples of the different classes of benefits are:

Benefit Classification	Example
Cash releasing (CRB)	Reductions in operating cost Increases in revenue stream
Non-cash releasing (non CRB)	Re-deployment of existing resources, including staff and infrastructure onto other business Improved efficiency
Quantifiable (QB)	Improved social outcomes Improved retention of trained staff Customer satisfaction
Qualitative (Qual)	Widening the cultural appreciation of school children

Capture your supporting analysis and assumptions in the preliminary benefits register for the project (to be made more detailed later).

In principle, all benefits are measurable and monetisable. The issue is the extent to which it is practical and proportionate to do so given the evidence base and associated costs. This should be agreed between the project and the approving authority prior to preparing the project business case. The scoping document should be used for this purpose.

Identify the main risks

Specify the main risks associated with the achievement of the project’s outcomes and the proposed counter measures for mitigation and management.

Risk is the possibility of a “negative” event occurring, adversely impacting on the project. At this stage in the development of the project business case focus on the 20% of the risks which are likely to provide 80% of the project’s risk values.

Identifying, mitigating and managing the key risks is crucial to successful delivery, since the key risks are likely to be that the project will not deliver its intended outcomes and benefits within the anticipated timescales and spend.

Consider the following key categories of risk in relation to the scope of the project:

Risk categories	Description
Business risks	These risks remain with the organisation (100%), cannot be transferred by the organisation and include political and reputational risks.
Service risks	These risks associated fall within the design, build, financing and operational phases of the project and may be shared with the others from outside of the organisation.
External risks	These non systematic risks affect all society and are not connected directly with the proposal. They are inherently unpredictable and random in nature. They include technological disruption, legislation, general inflation and catastrophic risks.

The extent to which it is necessary and prudent to provide indicative values for these risks depends on the nature of the project and should be agreed between the project and the approving authority prior to the commencement of the business case. The scoping document should be used for this purpose.

Adopt a prudent and evidence based approach and capture supporting analysis and assumptions in a preliminary risk register for the project (to be made more detailed later).

Identify the constraints

Specify any constraints that have been placed on the project.

Constraints are the external conditions and agreed parameters within which the project must be delivered, over which the project has little or no control.

These can include policy decisions, ethical and legal considerations, rules and regulations, and timescales within which the project must be delivered. Affordability constraints may include agreed limits on capital and revenue spend.

Constraints on the project need to be managed from the outset, since they will constrain the options that can be considered for project delivery.

Identifying the dependencies

Specify any dependencies outside the scope of the project upon which the ultimate success of the project is dependent.

These should include:

- Inter-dependencies between other programmes and projects.

These are the dependencies that are external to the project but are still within the perimeters of the organisation’s project and project management environment, and most likely linked to the scope of another project or project within the strategic portfolio.

- External dependencies outside the project environment.

These are the dependencies that extend beyond the boundaries of all the projects into other parts of the organisation or even other organisations. These dependencies are outside the control of the project management environment; potentially in business operations, partnering organisations and include external dynamics, such as legislation, strategic decisions and approvals.

A useful technique for completing the strategic case section of the project business case is to build upon the earlier recommended template for each spending objective (step 2, action 3) as follows:

Spending objective	Outcome we are seeking to achieve
Existing arrangement	Current situation
Business need	Opportunities and problems associated with the current situation
Potential scope and services	What we need to put in place to address our needs
Potential benefits	The anticipated benefits as a result
Potential risks	The risks that might arise
Potential constraints	The limitations we face
Potential dependencies	The things that must be in place and/or managed elsewhere

Workshop 1 – Case for Change

At least one workshop is recommended for the completion of this section of the Project Business Case, so that the key stakeholders are engaged earlier on, can challenge and assist to shape the direction of the project. This may comprise more than one actual workshop depending on need.

The purpose, objectives, key participants and outputs of this workshop are as follows:

Workshop 1	Determining the Case for Change
Objectives	<ul style="list-style-type: none"> <input type="checkbox"/> to identify and agree spending objectives, existing arrangements, business needs, and potential scope for the project <input type="checkbox"/> to identify the key service requirements for the project, related benefits and risks, constraints and inter-dependencies
Key participants	<ul style="list-style-type: none"> <input type="checkbox"/> Senior Management Board Members <input type="checkbox"/> Project Director <input type="checkbox"/> Project Manager and team members <input type="checkbox"/> External stakeholders and commissioners <input type="checkbox"/> Customer and/or user representatives <input type="checkbox"/> Technical adviser(s) <input type="checkbox"/> Financial adviser(s) <input type="checkbox"/> Facilitator
Outputs	<ul style="list-style-type: none"> <input type="checkbox"/> SMART spending objectives <input type="checkbox"/> Business needs and potential scope for the project <input type="checkbox"/> Key benefits and risks, constraints and dependencies

Checklist for step 2

There should now be a clear understanding of the project':

spending objectives

existing arrangements and related business needs

potential scope and service requirements

potential benefits, risks, constraints and dependencies

Output from step 2

The strategic case section of the Strategic Outline Case (SOC) has been completed and must be kept under review.

Step 3: Exploring the preferred way forward

Introduction

The purpose of the economic case is to identify and appraise the options for the delivery of the project and to recommend the option that is most likely to offer best value for money to society, including wider social and environmental effects as well as economic value.

This is achieved in two steps: first, by identifying and appraising a wide range of realistic and possible options ("the long list" – step 3); and second, by identifying and appraising a reduced number of possible options in further detail ("the short list" – step 4 refers).

It should be noted that the "preferred way forward" for the project emerges from the appraisal of the long list (step 3) and the "preferred option" for the project from the appraisal of the short list (step 4).

Completing the first stage of the economic case requires the following:

Step 3	Exploring the preferred way forward
Action 6	Agree critical success factors (CSFs)
Action 7	Determine long list options and SWOT analysis
Action 8	Recommend a preferred way forward

A facilitated workshop is recommended for the completion of Step 3.

Action 6: agree critical success factors for the project

Identify and agree the critical success factors (CSF's) for the project.

These are the attributes essential for successful delivery of the project, against which the initial assessment of the options for the delivery of the project will be appraised, alongside the spending objectives.

The critical success factors for the project must be crucial, not merely desirable, and not set at a level which could exclude important options at an early stage of identification and appraisal.

Table: a starting point for identifying and agreeing the critical success factors based on the Five Case Model

Key Critical Success Factors	Broad Description
Strategic fit and business needs	How well the option: <input type="checkbox"/> meets the agreed spending objectives, related business needs and service requirements, and <input type="checkbox"/> provides holistic fit and synergy with other strategies, programmes and projects
Potential value for money	How well the option: <input type="checkbox"/> optimises public value (social, economic and environmental), in terms of the potential costs, benefits and risks.
Supplier capacity and capability	How well the option: <input type="checkbox"/> matches the ability of potential suppliers to deliver the required services, and <input type="checkbox"/> is likely to be attractive to the supply side
Potential affordability	How well the option: <input type="checkbox"/> can be funded from available sources of finance <input type="checkbox"/> aligns with sourcing constraints.
Potential achievability	How well the option: <input type="checkbox"/> is likely to be delivered given the organisation’s ability to respond to the changes required, and <input type="checkbox"/> matches the level of available skills required for successful delivery.

Action 7: determine the long list options and undertake SWOT analysis

Identify a wide range of possible options for achieving the project’s business needs, potential scope and service requirements, and undertake an assessment of how well each option meets the spending objectives and critical success factors agreed for the project.

Provide a full description of each option, together with an assessment of its strengths, weaknesses, opportunities and threats (SWOT analysis) and a conclusion in terms of how well it meets the spending objectives and critical success factors agreed for the project.

Identifying options

A wide range of realistic and possible options for the delivery of the project must be identified. This is known as the “long list”.

The long list must include an option that provides the baseline for measuring improvement and value for money. This option is known as “business as usual (BAU)”. It must also include a realistic “do minimum” based on the core functionality and essential requirements for the project.

These options should be generated through facilitated workshops comprising of senior managers and stakeholders (business input), customers (user input) and specialists (technical input) amongst other interested parties, as required – see workshop 2.

Options may be ruled out for ethical, legal, financial or political reasons. In such cases, it is important to ensure that these constraints have not been imposed artificially.

When identifying options for the project consider:

- researching existing reports and consulting widely with practitioners and experts to gather the set of data and information relevant to the objectives and scope of the problem
- analysing the data to understand significant dependencies, priorities, incentives and other drivers
- identifying from the research, best practice solutions, including international examples, if appropriate
- the full range of issues likely to affect the spending objectives
- the full range of policy instruments or projects that may be used to meet the project's objectives. This may span different sorts or scales of intervention; regulatory (or deregulatory) solutions may be compared with self-regulatory, spending or tax options
- radical options. These may not become part of the formal appraisal but can be helpful to test the parameters of feasible solutions. Well-run brainstorming sessions can help to generate such ideas.
- undertaking a feasibility study
- use of the Options Framework

The Options framework

The options framework provides a structured approach to identifying and filtering a broad range of options for delivering policies, strategies, programmes and projects (Flanagan JC 2006 refers).

This tool and technique has been used on a wide range of public sector schemes and proven useful in getting senior management, stakeholders and customers signed up to an agreed preferred way forward early on in the scoping and planning stage in the development of schemes.

The framework considers the creation of options as a series of choices to be made in sequence. "Why" provides the rationale for intervention and the potential scope for change. Once the potential scope for the scheme has been agreed, the next stage is to identify and appraise the choices to be made in relation to the what, where, how, who, when and funding.

The options framework identifies and filters these choices for the operational scope, service solutions, service delivery vehicles, implementation timeframes and funding mechanism for the project.

Key dimensions	Description
Scope	The “what”, in terms of the potential coverage of the project. Potential scopes are driven by business needs, service requirements and the scale of organisational change required to improve service capabilities. Examples include coverage in terms of: business functions, levels of service, geography, population, user base and other parts of the business.
Service solution	The “how” in terms of delivering the “preferred” scope for the project. Potential service solutions are driven by available technologies, recognised best practice and what the market place can deliver. These solutions provide the potential “ products ” (inputs and outputs) and as such the <u>enabling work streams and key activities</u> required.
Service delivery	The “who” in terms of delivering the “preferred” scope and service solution for the project. Potential options for service delivery are driven by available resources, competencies and capabilities – both internal and external to the organisation. Examples include: in-house provision, outsourcing, alliances and strategic partners.
Service implementation	The “when” in terms of delivering the “preferred” scope, solution and service delivery arrangements for the project. Potential implementation options are driven by deadlines, milestones, dependencies (between outputs), economies of scale, benefit realisation and risk management. The optimal option provides the <u>critical path for delivery of the agreed products and activities</u> and the basis for the project plan. Options for implementation include: piloting, modular delivery, big bang and phasing (tranches).
Funding	The “funding” required for delivering the “preferred” scope, solution, service delivery and implementation path for the project. Potential funding options are driven by the availability and opportunity cost of public funding, value for money and the characteristics of the project. Potential funding options include the public or private capital, the generation of alternative revenue streams, operating and financial leases, and mixed market arrangements.

Using the Options framework to identify the long list

The options framework should be used as follows:

1. **Convene at least one workshop** comprising of senior managers (business), customers and stakeholders (users) and experts in relevant fields (technical) to be facilitated by an experienced and trained practitioner.
2. **Confirm the spending objectives and potential scope for the project**, as set out in the strategic case section.
3. **Agree the critical success factors** for the project.
4. **Identify potential “scopes”** for the coverage of the project, ranging from business as usual (BAU), through to the “do minimum” and “do maximum” and intermediate options.

These options focus on the scale of potential change required. To avoid “scope creep”, they must not exceed the potential scope for the project as defined within the strategic case section: if they do, the “case for change” requires revisiting and updating.

The “do minimum” scope must be a realistic option that meets the “core” scope and essential business needs of the project. The “do maximum” is predicated on meeting the full scope of the project and all needs. The intermediate options focus on key differences in relation to the desirable and optional scopes for the project.

Be pragmatic: scoping options discounted for delivery in the short to medium terms may be retained in the strategic portfolio for delivery in the longer term.

- i. Subject each option to SWOT analysis – noting advantages and disadvantages and how well it meets the agreed spending objectives and CSF's.
- ii. Discount unrealistic options. Carry forward (C/F) possible options, including the business as usual (BAU) and “do minimum” scopes.
- iii. Identify the preferred way forward (PWF) – the “scope” which is considered most likely to optimise public value.

Project “scopes” that are more ambitious than the “do minimum” must be justified on their potential for optimising benefits in relation to costs.

Consider numbering the options and colour coding the results.

A short case study has been prepared to illustrate the use of the options framework for filtering choices – please note that this is not exhaustive.

Case study: for a highways project in a developing country where the spending objective is to improve the road infrastructure in order to stimulate economic development and growth.

The workshop identified options for the potential scope and coverage of the project by the number of major cities which could benefit and appraised them as follows:

Project	Business as usual (BAU)	Do Minimum	Intermediate Option	Intermediate Option	Do Maximum
1. Service scope – as outlined in strategic case	1.0 All Cities.	1.1 Linking Cities A and B.	1.2. Linking Cities A, B and C.	1.3 Linking Cities A, B, C and D	1.4 Linking All Cities, A, B, C, D and E
	Carried forward	Carried forward	Preferred Way Forward	Carried forward	Discounted

- 5. **Identify potential “solutions”** for delivering the project’s preferred way forward for potential scope, ranging from business as usual (BAU) through to the “do minimum” and “do maximum” and intermediate options.

These options focus on the products, inputs and outputs, which make up the final deliverable.

- 6. The “do minimum” solution must be a realistic option that meets the “core” requirements and essential business needs of the project. The “do maximum” solution must not exceed the agreed scope for the project as agreed within the strategic case section (which must be revisited if it does). Limit intermediate options to those that have key differences in relation to their desirable and optional outputs and activities.

Be innovative and think in terms of what other organisations have achieved, what is likely to work, and what is available in the market place.

- i. Subject each option to SWOT analysis – noting advantages and disadvantages and how well it meets the agreed spending objectives and CSF's.
- ii. Discount unrealistic options. Carry forward (C/F) possible options, including business as usual (BAU) and “do minimum” scopes.
- iii. Identify the preferred way forward (PWF) – the “solution” which is considered most likely to optimise public value.

Project “solutions” that are more ambitious than the “do minimum” must be justified on their potential for delivering additional value.

Case study: the workshop identified options for improving the road network between three major cities (the preferred scope) and appraised them as follows:

Project	Business as usual (BAU)	Do Minimum	Intermediate Option	Intermediate Option	Do Maximum
2. Service Solution – in relation to the preferred scope	2.0 Current services: for road maintenance etc	2.1 Core: Refurbish existing highways	2.2 Core & Desirable: Combination of refurbish & new highways	2.3 Core & Desirable: Completely new highways	2.4 Core, Desirable and Optional: New highway & facilities
	Carried forward	Carried forward	Preferred Way Forward	Carried forward	Discount

7. **Identify potential options for “service delivery”** of the project’s preferred way forward in relation to potential scope and service solution.

These options focus on the delivery of the outputs, activities and potential projects required.

In this instance, the “do minimum”, intermediate, and “do maximum” choices relate to the varying levels and degrees of “ambition” for service delivery, so a “do maximum” is not necessarily required.

Be innovative and challenge whether the organisation is currently sourcing and delivering the services it provides in the most efficient and cost effective way.

- i. Subject each option for service delivery to SWOT analysis – noting advantages and disadvantages and how well it meets the agreed spending objectives and CSFs.
- ii. Discount unrealistic options. Carry forward (C/F) possible options, including business as usual (BAU) and “do minimum” solutions.
- iii. Identify the preferred way forward (PWF) – the method of “service delivery” which is likely to provide the optimal outcome in terms of project and operational delivery.

Project solutions that are more ambitious than the “do minimum” must be justified on their potential for delivering additional value.

Case study: the workshop identified service delivery options for refurbishing, maintaining and building new roads between three major cities and appraised them as follows:

Project	Business as usual (BAU)	Do Minimum	Intermediate Option	Intermediate Option	Do Maximum
3. Service Delivery – in relation to preferred scope and solution	3.0 Current arrangements	3.1 Local Contractor.	3.2 National Contractor.	3.3 International Contractor	
	Carried forward	Discount	Carried forward	Preferred Way Forward	

8. **Identify potential options for “implementation”** of the project’s preferred scope, service solution and method of service delivery.

These options focus on the sizing, sequencing and phasing of the potential products required.

In this instance, the “do minimum”, intermediate, and “do maximum” choices relate to the varying levels and degrees of “ambition” for implementation, so a “do maximum” does not necessarily apply.

- Create work streams that provide synergies, holistic fit and sufficient critical mass for delivering economies of scale and **size** accordingly.
- Focus on the critical path for the modular delivery of the required products and **sequence** accordingly.
- Design the project to optimise benefits delivery whilst managing the risks and **phase** accordingly.
- i. Subject each implementation option for the sizing, sequencing and phasing of the potential project to SWOT analysis – noting advantages and disadvantages and how well it meets the agreed spending objectives and CSF’s.
- ii. Discount unrealistic options for implementation. Carry forward (C/F) possible options, including business as usual (BAU) and “do minimum” option.
- iii. Identify the preferred way forward (PWF) – the approach to the sizing, sequencing and phasing of potential projects that is most likely to deliver successful outputs and outcomes.

Case study: the workshop identified options for the implementing improvements to the road network between three major cities using an international contractor and appraised them as follows:

Project	Business as usual (BAU)	Do Minimum	Intermediate Option	Intermediate Option	Do Maximum
4.Implementation – in relation to preferred scope, solution and method of service delivery		4.1 Phased over 3 years	4.2 Phased over 2 years	4.3 Big bang over 1 year	
		Carried forward	Preferred Way Forward	Discount	

Identify possible “funding options” for resourcing of the project’s preferred scope, solution, method of service delivery and implementation.

These options should consider innovative sourcing of finance and funding streams for the project, in addition to traditional sources of capital and revenue.

In this instance, the “do minimum”, intermediate, and “do maximum” choices relate to the varying levels and degrees of “ambition” for funding the service.

- i. Subject each funding option for the delivery of the project to SWOT analysis – noting advantages and disadvantages and how well it meets the agreed spending objectives and CSF’s.
- ii. Discount unrealistic options for funding. Carry forward (C/F) possible options.

- iii. Identify the preferred way forward (PWF) – the funding option which is most likely meet the requirements of the project, to optimise value for money and be affordable.

Case study: the workshop identified a mix of options for a service improvement project where potential projects and activities could be funded in their design, build and operational phases through a number of sources.

Project	Business as usual (BAU)	Do Minimum	Intermediate Option	Intermediate Option	Do Maximum
5. Funding – in relation to preferred scope, solution, method of service delivery and implementation		5.1. Public funding	5.2 Mixed public & private funding	5.3 Private finance – annual service charge	5.4 Private finance – toll on new roads
		Discount	Preferred Way Forward	Discount	Discount

The options framework is a useful tool, because in this simplified case study for a service improvement project over twenty main options have been considered – for scope, solution, service delivery, implementation and funding – and indirectly over a thousand possible combinations of different options.

Use of the options framework also provides senior management with a single page summary of the options that have been considered.

Figure: Summary of the long list using the Options framework.

Project	Business as usual (BAU)	Do Minimum	Intermediate Option	Intermediate Option	Do Maximum
1. Service scope – as outlined in strategic case	1.0 All Cities.	1.1 Linking Cities A and B.	1.2. Linking Cities A, B and C.	1.3 Linking Cities A, B, C and D	1.4 Linking All Cities, A, B, C, D and E
	Carried forward	Carried forward	Preferred Way Forward	Carried forward	Discounted
2. Service Solution – in relation to the preferred scope	2.0 Current services:	2.1 Core:	2.2 Core & Desirable:	2.3 Core & Desirable:	2.4 Core, Desirable and Optional:
	for road maintenance etc	Refurbish existing highways	Combination of refurbish & new highways	Completely new highways	New highway & facilities
3. Service Delivery – in relation to preferred scope and solution	3.0 Current arrangements	3.1 Local Contractor.	3.2 National Contractor.	3.3 International Contractor	
	Carried forward	Discount	Carried forward	Preferred Way Forward	
4. Implementation – in relation to preferred scope, solution and method of service delivery		4.1 Phased over 3 years	4.2 Phased over 2 years	4.3 Big bang over 1 year	
		Carried forward	Preferred Way Forward	Discount	
5. Funding – in relation to preferred scope, solution, method of service delivery and implementation		5.1. Public funding	5.2 Mixed public & private funding	5.3 Private finance – annual service charge	5.4 Private finance – toll on new roads
		Discount	Preferred Way Forward	Discount	Discount

Drafting the long list

Consider using the following headings for recording the relevant details and facts in relation to the appraisal of the long listed options in the Project Business Case

Heading	Rationale
Description	Full details of the option under consideration with reference to a category of choice within the options framework.
Main advantages	Strengths and opportunities in terms of the critical success factors
Main disadvantages	Weaknesses and threats in terms of the critical success factors.
Conclusions	Overall assessment of how well the option meets the project spending objectives and critical success factors and whether it is the preferred way forward, should be carried forward or discounted in respect of the short list.

Action 8: recommend a preferred way forward

Identify the preferred way forward for the project – scope, solution, service delivery, implementation and funding – together with the short listed against which the preferred way forward will be appraised.

Note: the preferred way forward is NOT the preferred option at this stage. The preferred option is identified from the appraisal of the short listed options.

Short listed options

The Project Business Case should identify a minimum of four shortlisted options for further appraisal. These should include:

- business as usual (BAU) – the benchmark for value for money
- the ‘do minimum’ option – a realistic way forward that also acts as a further benchmark for value for money, in terms of cost justifying further intervention.
- the “recommended” preferred way forward at this stage.
- one or more other possible options based on realistic “more ambitious” and “less ambitious” choices that were not discounted at the long list stage.

Care must be taken to avoid “rigging” and “retro-fitting” options that have been pre-determined. The project should seek guidance from its reviewers if it finds itself in this position.

Using the options framework to filter the shortlist

The options framework can be used to filter the options considered at the long list stage to generate the potential short list for the project, as illustrated below.

Case Study: the options workshop for the service improvement project generated the following short list of options on the basis of the summary of the long list using the options framework for further consideration and appraisal.

Options	Business as usual (BAU)	“Do Minimum”	Preferred Way forward (PWF)	Less ambitious PWF	More ambitious PWF
Project scope	1.0	1.1	1.2	1.2	1.3
Project solution	2.0	2.1	2.2	2.2	2.3
Service Delivery	3.0	3.0	3.3	3.2	3.3
Project implementation	N/A	4.1	4.2	4.1	4.2
Project funding	N/A	5.2	5.2	5.2	5.2

Drafting the shortlist

The short listed options should be described and a further assessment of their strengths, weaknesses, opportunities and threats undertaken, as required.

The format used for drafting the long list can be used for this purpose – see action 7.

A summary of the short listed options can usefully be provided and colour coded as follows:

Fig: – Summary assessment of options

Reference to:	Option ...	Option...	Other Options...	Option
Description of option:	Business as usual (BAU)	Do Minimum	Intermediate	Maximum
Spending objectives				
1.	X	?	✓	✓
2.	X	?	✓	✓
3.	X	?	✓	✓
4.	?	?	✓	✓
5.	X	?	✓	✓
Critical success factors				
Business need	X	?	✓	✓
Strategic fit	X	X	✓	✓
Benefits optimisation	X	?	✓	?
Potential achievability	✓	?	?	?
Supply-side capacity and capability	✓	?	✓	?
Potential affordability	X	?	?	X
Summary	Discounted	Possible	Preferred	Discounted

Indicative costs

Indicative costs and benefits for each of the above short-listed options should be provided to test the affordability of the project before more detailed appraisal takes place.

The costs should include some allowance for 'optimism bias' and the "cost of risk" and together with the benefits be discounted to provide indicative net present social values for the short-listed options.

Optimism bias

Within both the public and private sectors, there is a demonstrated and systematic tendency for project appraisers to be optimistic. This is a worldwide phenomenon, whereby appraisers tend to overstate benefits, and understate timings and costs, both capital and operational.

To redress this tendency, appraisers are now required to make explicit adjustments for this bias. These will take the form of increasing estimates of the costs and decreasing and delaying the receipt of estimated benefits. Sensitivity analysis should be used to test assumptions about operating costs and expected benefits.

Adjusting for optimism provides a better estimate earlier on of key project parameters. Enforcing these adjustments for optimism bias is designed to complement, rather than replace, existing good practice in terms of calculating project specific risk. It is also designed to encourage more accurate costing. Accordingly adjustments for optimism bias may be reduced as more reliable estimates of relevant costs are built up and project specific risk work is undertaken.

Adjustments should be empirically based – for example, using data from past projects or similar projects elsewhere, and adjusted for the unique characteristics of the project. Where sufficient data is not available within the organisation, generic optimism values are available (see below). and should be used in the absence of more specific evidence. Departmental guidance may also be available and should be referred to at this stage.

Guidance for generic projects

The definitions of project types are as follows:

- **standard building projects** – these involve the construction of buildings which do not require special design considerations (i.e. most accommodation projects – for example, offices, living accommodation, general hospitals, prisons, and airport terminal buildings)
- **non-standard building projects** – these involve the construction of buildings requiring special design considerations due to space constraints, complicated site characteristics, specialist innovative buildings or unusual output specifications (i.e. specialist/innovative buildings – for example, specialist hospitals, innovative prisons, high technology facilities and other unique buildings or refurbishment projects)
- **standard civil engineering projects** – these involve the construction of facilities, in addition to buildings not requiring special design considerations – for example, most new roads and some utility projects.
- **non-standard civil engineering projects** – these involve the construction of facilities, in addition to buildings requiring special design considerations due to space constraints or unusual output specifications – for example, innovative rail, road, utility projects, or upgrade and extension projects.
- **equipment and development projects** – these are concerned with the provision of equipment and/or development of software and systems (i.e. manufactured equipment, information and communication technology development projects or leading edge projects).
- **outsourcing projects** – these are concerned with the provision of hard and soft facilities management services – for example, information and communication technology services, facilities management and maintenance projects.

Applying adjustments for optimism bias

The table below provides adjustment percentages for these generic project categories that should be used in the absence of more robust evidence. It has been prepared from the results of a study by Mott MacDonald into the size and causes of cost and time over-runs in past projects.

Project Type	Optimism Bias (%)			
	Works Duration		Capital Expenditure	
	Upper	Lower	Upper	Lower
Standard buildings	4	1	24	2
Non-standard buildings	39	2	51	4
Standard civil engineering	20	1	44	3
Non-standard civil engineering	25	3	66	6
Equipment/development	54	10	200	10
Outsourcing	n/a	n/a	41*	0*

* optimism bias for outsourcing projects is measured for operating expenditure.

Recommended steps

Apply the steps set out below to derive the appropriate adjustment factor to use for their projects:

□ 1 – decide which project type to use

Careful consideration needs to be given to the characteristics of a project within the project portfolio when determining its project type. A project is considered 'non-standard', if it is innovative; has mostly unique characteristics; and Construction involves a high degree of complexity and/or difficulty.

A project or project which includes several project types (for example, an element of standard building, non-standard building, standard civil engineering, outsourcing and equipment/development) should be considered as a 'project' with five 'projects' for assessment purposes

□ 2 – always start with the upper limit

Use the appropriate upper bound value for optimism bias (see above table), as the starting value for calculating the level of optimism bias

□ 3 – consider whether the optimism bias factor can be reduced

Reduce the upper bound level for optimism bias according to the extent to which the contributory factors have been managed.

The extent to which these contributory factors are mitigated can be reflected in a mitigation factor. The mitigation factor has a value between 0.0 and 1.0. Where 0.0 means that contributory factors are not mitigated at all, 1.0 means all contributory factors in a particular area are fully mitigated and values between 0.0 and 1.0 represent partial mitigation.

Optimism bias should be reduced in proportion to the amount that each factor has been mitigated. Ideally, the optimism bias for a project should be reduced to its lower bound before contract award. This assumes that the cost of mitigation is less than the cost of managing any residual risks

□ 4 – apply the optimism bias factor

The present value of the capital costs should be multiplied by the optimism bias factor. The result should then be added to the total Net present social cost (or NPSC) to provide the base case. The base case, as defined in the Green Book, is the best estimate of how much a proposal will cost in economic terms, allowing for risk and optimism

□ 5 – review the optimism bias adjustment

Clear and tangible evidence of the mitigation of contributory factors must be observed, and should be verified independently, before reductions in optimism bias are made. Procedures for this include the Gateway Review process.

Following this guidance will provide an optimism bias adjustment that can be used to provide a better estimate of the base case.

Workshop 2 – Identifying and assessing the options

At least one workshop is recommended for the completion of this section of the Project Business Case, so as to ensure that the key stakeholders are engaged earlier on, can challenge and assist to shape the direction of the project.

The purpose, objectives, key participants and outputs of this workshop stage are as follows:

Workshop 2	Identifying and assessing the Options
Objectives	<ul style="list-style-type: none"> <input type="checkbox"/> To identify the Critical Success Factors <input type="checkbox"/> To identify and appraise the long listed options <input type="checkbox"/> To identify and provide initial appraisal of the shortlisted options <input type="checkbox"/> To identify the potential costs, benefits and risks associated with the short-listed options
Key participants	<ul style="list-style-type: none"> <input type="checkbox"/> External stakeholders or commissioners <input type="checkbox"/> Director of Finance <input type="checkbox"/> Commercial Director <input type="checkbox"/> Economic adviser <input type="checkbox"/> Customer and/or user representatives <input type="checkbox"/> Project manager <input type="checkbox"/> Facilitator
Outputs	<ul style="list-style-type: none"> <input type="checkbox"/> Appraisal of the Long list <input type="checkbox"/> Short-listed options with preliminary assessment <input type="checkbox"/> Information and data for appraisal of the short listed option

Multi Criteria Decision Analysis (MCDA)

A form of multi criteria decision analysis, making use of a professionally trained facilitator, using swing weighting to guide a team of expert representatives and stakeholders, can be useful for considering certain options at the long list stage. This kind of objective, consultative weighting and scoring should only be undertaken by experts and will require several long meetings, if undertaken to the required standards.

Referencing the Commercial, Financial and Management Cases

Complete the SOC by providing an overview of the commercial, financial and management arrangements for the successful delivery of the project.

This should include:

Commercial case:

- an assessment of the ability of the market place to provide the required goods and services
- the attractiveness of any future Deal to potential service providers, including some analysis of risk apportionment and supporting charging mechanisms
- reference to the commercial strategy of the organisation for maximising public value through economies of scale and collaborative procurements

Financial case:

- a statement of the organisation's financial situation
- resources available for the project, including assessment of the resource holder's ability to provide support
- any capital and revenue constraints
- statements of support, in principle, from the stakeholders

Management case:

- who is involved in the project, both inside and outside of the organisation, including users, commissioners and other key stakeholders
- achievability of the project, taking into account the organisation's readiness and resources
- how the project is to be managed
- nature of work needed to develop management proposals

Checklist for step 3

There should now be a clear understanding of the project's:

- critical success factors (CSFs)
- a wide range of possible options (the long list) that has been subjected to SWOT analysis
- a preferred way forward for the delivery of the scheme
- a recommended shortlist of 3 to 4 options, including business as usual (BAU) and "do minimum" options, with indicative present costs
- an overview the financial, commercial and management cases for the scheme

Outcome of stage 1 and the preparation of the SOC

The SOC has now been completed for the approval of senior management and the approving authority.

Management considerations include:

- undertaking project assurance to confirm the business justification for the project
- approving the SOC and agreeing to the next stage: the development of the OBC
- modifying the scope of the project and including further options
- undertaking a pilot exercise to test key assumptions
- postponing or abandoning the project, because it is considered either too high risk, too expensive or too ambitious

6

Planning the scheme and preparing the Outline Business Case (OBC)

Introduction

The purpose of the Outline Business Case (OBC) is to:

- identify the investment option which optimises value for money (VFM)
- prepare the scheme for procurement
- put in place the necessary funding and management arrangements for the successful delivery of the scheme.

Step 4: determining potential Value for Money (VFM)

This next step in the development of the economic case appraises the social, environmental and economic costs, benefits and risks for the short listed options and identifies the preferred option: the option most likely to offer the best social value for delivery of the project.

Whilst bringing together a variety of information on costs, benefits and risks to aid decision making, option appraisal should not be seen as unequivocally providing the 'right' answer. The goal is 'optimal': we are seeking to identify the option which best balances the expected costs in relation to the benefits and risks.

The main actions in this step are:

Step 4	Determining potential VFM
Action 9	Revisit the SOC and confirm the short list
Action 10	Prepare the economic appraisals for short-list options
Action 11	Undertake benefits appraisal
Action 12	Undertake risk appraisal
Action 13	Select preferred option and undertake sensitivity analysis

At least one facilitated workshop is recommended for the completion of Step 4.

Action 9 – revisit the SOC and determine the short list

Revisit and review:

- the case for change as set out in the strategic case section of the SOC
- the options appraised in the economic case section of the SOC

Revisiting the strategic case

The case for change must be reviewed, because:

- management approval of the SOC may have been conditional on some changes and adjustments to the project
- the early opportunity for the organisation and its key stakeholders to consider the project may have influenced its direction
- some time may have elapsed between SOC approval and commencement of the OBC
- elements of the project may have changed

Confirm the case for change and record any material changes in the opening section to the strategic case in the OBC.

Reviewing the economic case

Revisit and refine the efficacy of the preferred way forward and other options in the short list, because more detailed information of the associated inputs, outputs and activities will be required for preparing the economic appraisals.

Review and test the recommended short list against the following 'long list to short list' criteria:

- Do any of the options fail to deliver the spending objectives and CSFs for the project?
- Do any of the options appear unlikely to deliver sufficient benefits, bearing in mind that the intention is to deliver a positive net present social value (NPSV)?
- Are any options clearly impractical or unfeasible – for example, the technology or land are unavailable?
- Is any option clearly inferior to another, because it has greater costs and lower benefits?
- Do any of the options violate any of the constraints – for example, are any clearly unaffordable?
- Are any of the options sufficiently similar to allow a single representative option to be selected for detailed analysis?
- Are any of the options clearly too risky?

This action will help to avoid wasted effort while preparing the economic appraisals in support of short listed options. It should be undertaken in a structured way with the results recorded

Action 10 – prepare the economic appraisals for short-listed options

Calculate the discounted costs and benefits for the short listed options and record the discounted values and Benefit Cost Ratios (BCRs) for each option.

Use national guidance on investment appraisal where this is available and required.

Estimating the costs and benefits for the economic appraisals

This section provides guidance on:

- the principles of economic appraisal
- the key differences between economic and financial dimensions
- relevant costs to include in the economic appraisals
- estimating benefits for the economic appraisals
- adjusting estimates of costs and benefits.

The principles of appraisal

The principles of appraisal for the treatment of costs and benefits are that:

- the relevant costs and benefits to society of all the (short-listed) options should be valued and the net benefit and costs calculated. 'Relevant' in this instance means all those costs and benefits that can be affected by the decision at hand
- costs and benefits should cover the useful lifetime of the assets; or the contractual period for the purchase of the service outputs and outcomes
- the costs and benefits should be based on resource costs and reflect the best alternative uses (the 'opportunity cost') that the goods, assets and services could be put to
- the wider social and environmental costs – for which there is no market price – should also be taken into account
- the sources and assumptions underlying each cost and benefit line in the economic appraisals must be explained in full within an accompanying appendix
- the costs and benefits must be base year. The base year is defined as "year 0" and must be at real relative prices the same for all options.

Economic and financial appraisals

Practitioners sometimes confuse the appraisals of the economic case with those of the financial case. An explanation of the key differences is provided below.

Economic appraisals focus on public value from the perspective of society and take into account all social, economic, environmental costs and all effects on public welfare. Financial appraisals focus on affordability from the perspective of the public purse, often expressed in terms of public funding the project.

The key differences can be summarised as follows:

Economic Appraisals	Financial Appraisals
Focus: <input type="checkbox"/> Net Present – social value for money	Focus: <input type="checkbox"/> Funding and affordability – cash flow and stock
Coverage: Society as a whole	Coverage: <input type="checkbox"/> Relevant public organisation(s) budget
Relevant standards: <input type="checkbox"/> National guidance <input type="checkbox"/> Agreed discount rate applied	Relevant standards: <input type="checkbox"/> Public sector accounting rules and standing orders
Analysis: <input type="checkbox"/> real (base year) prices <input type="checkbox"/> use of opportunity costs <input type="checkbox"/> includes quantifiable welfare costs and benefits to society <input type="checkbox"/> includes environmental costs <input type="checkbox"/> excludes 'transfer' payments <input type="checkbox"/> excludes general inflation <input type="checkbox"/> excludes sunk costs <input type="checkbox"/> excludes depreciation, impairment and capital charges.	Analysis: <input type="checkbox"/> current (nominal) prices <input type="checkbox"/> benefits – cash releasing only <input type="checkbox"/> includes capital and revenue costs <input type="checkbox"/> includes transfer payments <input type="checkbox"/> includes inflation

Relevant costs for the economic appraisals

The costs should be appraised from the standpoint of society, which includes two main categories:

- Public Sector costs – those falling to the spending organisation (Direct Costs) and those falling to other parts of the public sector (Indirect Costs).
- Wider Social costs – those other indirect costs falling to other sectors, including the private sector.

The following provides an overview of the costs which should be included in the economic appraisals. All are expressed in terms of real resource costs excluding transfer payments and any similar tax effects:

- Capital costs.** These include the opportunity cost of existing assets such as buildings and land and can broadly be broken down into: land and property; construction and refurbishment costs; professional fees; equipment (furniture, fittings, lighting and wiring); technology and maintenance costs.

Assets may require replacement, refurbishment or upgrading over the lifetime of the appraisal period. These 'life-cycle' costs should also be included as part of the whole life costs. The assumed maintenance policy on which costs are based must be explicitly and transparently set out and applied appropriately to all options.

- Revenue costs.** These are the operational, running, management and overhead costs that it should not be assumed will remain unchanged over time.

The assessment of revenue costs must:

- distinguish and explain clearly the differences between alternative maintenance options;
- include all the running costs, eg. utility bills;

- explain the underlying assumptions, eg. in service performance, efficiency savings and real cost trends.
- **Fixed, variable, semi-variable and step costs.** These costs must be separately identified within the economic appraisals and their relationships explained:
 - fixed costs are constant over time; eg. the overhead costs of fixed capital assets;
 - variable costs vary according to the volume of activity, eg. training costs and network usage;
 - semi-variable costs include both fixed and variable components, eg. a combination of fixed maintenance contract costs and variable call-out charges; and,
 - step costs for a pre-determined level of activity that eventually rise by a given amount – for example, the need for a new call centre after a certain volume of calls.
- **Opportunity costs.** These must be explored in full. In relation to land, buildings and manpower, they should be assessed against the most valuable alternative use rather than current use. Full time equivalents (FTE) costs should be used to estimate the costs of employees' time to the employer and must include all employment costs in addition to basic pay – for example, pensions and allowances etc.
- **Sunk costs.** These are amounts that have already been spent and cannot be recovered. They should be noted in the case and excluded from the economic appraisals.
- **Full economic costs.** The full costs (direct, indirect and attributable) of each option, rather than its net cost in relation to a baseline must be shown. This means 'bottom up' costing, which provides a better understanding of the cost differences between options and is more transparent.
- **Attributable costs.** These include the opportunity cost of staff time spent in relation to the implementation of the proposal. These costs are likely to be significant in relation to business change and business re-engineering projects.
- **Organisational development.** These costs can form a significant proportion of the overall costs and should not be underestimated, because if insufficient resources are allocated to developing staff and changing working practices, the full benefits of the project will not be achieved.
- **Avoided costs.** These should be included as a cost in the 'business as usual (BAU)' option and not as a benefit in the other options.
- **Inflation.** Some cash flows may be significantly out of line with general inflation. In such cases, the differential should be reflected in the economic appraisals.
- **Contingent liabilities.** Commitments to future expenditure if certain events occur should be included in the economic appraisals. For example, the cancellation costs for which a public sector body may be liable if it prematurely cancels a contract. Note that although redundancy costs are transfer payments, they can occasionally fall into this category. In such cases, the advice of an economist should be sought on measuring the wider social and economic consequences of these payments.

Estimating benefits for the economic appraisals

The purpose of valuing benefits is to ascertain whether an option's benefits are worth its costs, and to allow alternative options to be compared in terms of their net social value.

Every effort should be made to value the benefits of different options, building on the project benefits identified earlier.

The approach to benefits measurement should be prudent, proportionate, and appropriate. Prudent, in terms of avoiding claiming for benefits that cannot be measured or assessed in any realistic way, because there is no real evidence base; proportionate, in terms of the resources required to cost justify the project; and appropriate, in terms of the anticipated scope and spend of the project.

The benefits for the project must be appraised from the standpoint of society as follows:

- Direct public sector benefits (to originating organisation):
 - cash releasing benefits (CRB)
 - monetisable non cash releasing benefits (non CRB)
 - quantifiable but not readily monetisable benefits (QB)
 - qualitative but not readily quantifiable benefits (Qual)
- Indirect public sector benefits (to other public sector organisation):
 - cash releasing benefits (CR)
 - monetisable non cash releasing benefits (non CRB)
 - quantifiable but not readily monetisable benefit (QB)
 - qualitative but not readily quantifiable benefits (Qual)
- Wider benefits to UK society (e.g. households, individuals, businesses)
 - monetisable, including cash benefits
 - quantifiable but not readily monetisable benefits
 - qualitative but not readily quantifiable benefits
 - All the benefits – cash releasing and non-cash releasing – should be accounted for in the economic appraisals to derive the net present social value (NPSV) for the project.

Any costs associated with benefits delivery should be taken into account. A cost is a predictable negative effect of the proposal and is the measurable reduction resulting from an outcome perceived as negative by one or more stakeholders, which detracts from one or more organisational objectives.

The cost of mitigating significant risks should be identified to ascertain whether it is a price worth paying.

Real or estimated market prices

Market prices, real or estimated, are the prime reference for the valuation of benefits. Where valuing at market prices is not possible, value based on forms of preference are the way in which public welfare values are calculated and include:

- stated preference which has two forms: willingness to pay and willingness to accept (i.e. estimation of a price by means of carefully constructed questionnaires and interviews to indicate how much people are prepared to pay for a thing or how much they would pay to avoid it; for example, improved access to services or to avoid undesirable outcomes), and
- revealed preference approach (i.e. inferring a price from consumer behaviour).

Adjustments required to the values of costs and benefits

While developing the proposal, all adjustments should be shown separately and clearly stated in supporting tables of data, and the rationale for their inclusion clearly set out.

Relative price changes

The costs and benefits presented in the economic appraisals must be expressed in 'real relative prices', as opposed to current prices. The term "real" means that although the effects of general inflation are removed; however, the term relative allows some prices that are expected to change relative to general inflation to be adjusted to allow these relative changes.

Where particular prices are expected to increase at significantly higher or lower rates than general inflation, the relative price change should be calculated and factored into the economic appraisals.

Other relevant values

These include Winners, Loser and Distributional Analysis and Regional and other Sub National issues.

Winners, Loser and Distributional Analysis

All interventions may produce winners and losers and on some occasions may have significantly unequal effects on welfare and income distribution. There is, therefore, a need at both the long list and short list stages of options analysis to consider whether significant gains or losses to any groups within society appear likely.

Where a change in income distribution or some other retributive effect is the intention of a policy, programme or project, then some form of objective analysis is clearly required to quantify these effects. Similarly, if a proposal involves, as a side effect, significant redistribution of welfare, then decision support analysis needs to show this.

The need to abide by ethical and legal standards and frameworks, such as legislation on equalities, also requires consideration of distributional effects where they are significant, and this is transparently supported by this approach.

Regional and other sub-national issues

Proposals targeted at producing localised effects within society, whether at a regional, city, town village or rural level, cannot be best assessed by a framework that identifies only total national benefit. This is because local sub national policies are likely to contain a considerable element of resource and benefit and redirection to a specific location, as well as some overall "additionality" in national welfare.

A separate analysis of these local proposals should be carried out alongside the national analysis and the results set out separately alongside the national net present social value (NPSV) in order for the local benefit of the proposal to be estimated and an appropriate option selection to be made.

Presenting the economic appraisals

Following the identification and measurement of the costs and benefits for each option, calculate the net present social value (NPSV) for each option, using the agreed discount rate.

This section is concerned with compiling the economic appraisals for the short listed options, including the 'business as usual (BAU)' and the 'do minimum' options in their most basic format.

Guidance is given on the following:

- discounting in the public sector
- calculating the NPSV
- calculating the Benefit Cost Ratio (BCR)
- the treatment of privately financed schemes, if applicable

Discounting in the public sector – the Social Discount Rate and Time Preference.

There is a universal human tendency to discount the future by giving more weight to current values and events than to the future, which also applies to preference for current over future welfare.

The social discount rate is an annual percentage reduction that is applied to values in each year going forward that progressively reduces future values.

By recognising this human tendency to discount future values it is possible to compare alternative options for projects, projects and policies with different lengths of life and different profiles over time by, in effect, putting them onto a common basis of present values thus allowing their whole life costs and benefits to be added and compared. This is known as their present value. Over time the discount rate is reduced to allow for increasing uncertainty in its estimation.

The use of Private Finance

The option of Public Private Partnerships (PPP) or any form of private finance for sourcing the project should be considered strategically and as part of the long list appraised using the Options Framework filter.

This is because private finance provides service delivery as well as funding opportunities:

- Potential options for service delivery may include: strategic partnerships, alliances, and outsourcing arrangements.
- Potential options for funding may include: free standing projects, joint ventures, operating leases and services. All are fundamentally different approaches for the delivery of services and infrastructure in partnership with the private sector.

When the use of private finance is carried forward as an option into the short list of options for the project, at least one of the other short listed options must be based on a comparable provision by the public sector. This enables the partnership option to be appraised fairly against a public sector comparator (PSC), as it is known, which should include the cost of the risks retained by the public sector during the design, build, funding and operational (DBFO) phases of the project. Similarly, if different partnership options are being taken forward, alternative public sector comparators must be provided.

The following criteria provide a useful starting point for assessing a service's suitability for the use of private funding against a number of favourable characteristics.

Spending criteria	High	Medium	Low
1. Output/service-delivery driven			
2. Substantial operating content within the project			
3. Significant scope for additional/alternative uses of the asset			
4. Scope for innovation in design			
5. Surplus assets intrinsic to transaction			
6. Long contract term available			
7. Committed public sector management			
8. Political sensitivities are manageable			
9. Risks primarily commercial in nature			
10. Substantial deal			
11. Complete or stand alone operations to allow maximum synergies			

Action 11 – undertake benefits appraisal

Undertake an appraisal of the quantifiable and qualitative benefits and explain why these are important enough to affect the decision for the ranking of the options.

The main aim is to identify benefits that are quantifiable and can be expressed in monetary equivalent terms and to avoid defining benefits that cannot be measured, assessed or evaluated in any realistic way because there is no established evidence base.

Every reasonable attempt should be made to quantify benefits, even if they cannot be expressed in monetary equivalent terms. For example, the benefit of an intervention that increases people's propensity to exercise might be quantifiable but not readily expressible in monetary terms. Where quantification is particularly challenging, because the evidence base is spurious or the research costs would be disproportionate to the expenditure, it may be acceptable to express a benefit in qualitative terms; but even then it should be possible to provide evidence on the likely order of magnitude of the benefit.

When a qualitative or non monetised benefit is considered too important to be ignored in the decision, a separate calculation and judgement needs to be made about whether its cost is "a price worth paying" in terms of its additional value. This calculation provides the basis upon which alternative options without these benefits can be generated and appraised.

In all cases, the appraisal of benefits that cannot be expressed in monetary equivalent terms should be grounded in a review of the best available evidence. The evaluation of similar interventions previously undertaken usually provides a particularly important source of evidence.

The quantifiable (non monetised) and qualitative benefits must be recorded in the Benefits Register with their sources and assumptions.

Action 12 – undertake risk appraisal

Identify and quantify the risks associated with the options contained in the economic appraisals for the project’s short listed options.

The project’s service risks should be estimated and quantified in monetary terms, as equivalent likelihood values – that is the cost of mitigation multiplied by the likelihood of occurrence.

Early on in the process an initial allowance was made for optimism bias. At this stage in the process, service risks in the design, build and operational phases of the project must be identified and their costs estimated and built into the project.

Joseph’s powerpoint slide showing how the level of optimism bias decreases over time as risk is valued.

Reducing optimism bias

Project and project appraisers should review all the contributory factors that lead to a cost and time over-run, as identified by the research. The main strategies for reducing the bias are:

- full identification of stakeholder requirements (including consultation)
- accurate costing
- risk mitigation and management.

The lower bound values (see fig) represent the optimism bias level to aim for in projects with effective risk management by the time of contract award.

Case study

The capital costs of a non-standard civil engineering project within a major change programme are estimated to be \$50m NPSC. No detailed risk analysis work has taken place at this stage, although significant costing work has been undertaken.

The project team reports to the project board and applies an optimism bias adjustment of 66% showing that, for the scope of the work required, the total cost may increase by \$33m to \$83m in total. This is based on consultants' evidence and experience from comparable civil engineering projects at a similar stage in the appraisal process.

As this potential cost is unaffordable, the chief executive requests reductions in the overall scope of the project, and more detailed work. As the project progresses, more accurate costs and quantified risks are identified. The adjustment for optimism bias is able to be reduced until there remains only a general contingency of 6% for unspecified risks.

Without applying optimism bias adjustments, a false expectation would have been created that a larger project could be delivered at a lower cost.

Operating costs and benefits

The application of optimism bias should also be considered for operating costs and benefits. If there is no evidence to support adjustments to operating costs or benefits, appraisers should use sensitivity analysis to check switching values (see below – action 13). This should help to answer key questions such as:

- By how much can we allow benefits to fall short of expectations, if the proposal is to remain worthwhile? How likely is this?
- By how much can operating costs increase, if the proposal is to remain worthwhile? How likely is this to happen?
- What will be the impact on benefits if operating costs are constrained?

Risk identification and measurement

There is always likely to be some difference between what is expected and what eventually happens, because of biases unwittingly inherent in the appraisal, and the risks and uncertainties that materialise during the design, build, and operational phases of the project. As a result, risk management strategies should be adopted for the appraisal and implementation of large policies, projects or projects and the principles applied to smaller proposals. This is because things can always go better than expected ('upside risk') as well as worse ('downside risk').

A risk register should be developed from the beginning of the project (see management case), updated and reviewed regular basis and used as the source for:

- identifying the main business and service risks (in the strategic case section)
- quantifying and appraising the business and service risks (in the economic case section)
- apportioning and transferring service risks (in the commercial case section)
- mitigating and managing risks over the entire life cycle of the scheme.

Risk identification

There are a number of techniques which may be used to identify the risks associated with projects and projects. Three commonly used methods are:

- Structured review meetings – these involve the project and project teams and encourage participation and ownership of the risks by key personnel
- Risk audit interviews – these are conducted by experienced managers and/or advisers, with all those involved in the project or project with responsibility for risk, and
- Risk workshops – these include all members of the project and project teams and encourage imaginative ideas for the mitigation and management of risk.

General types of risk

Risks fall into three main categories: business, service and external risks.

Business related risks remain with the public sector and can never be transferred. Service related risks occur in the design, build, funding and operational phases of a project and may be shared between the public and private sectors. External, non-systematic and catastrophe risks affect all society and are unpredictable and random in nature.

The generic types of risk that are likely to be encountered within these categories are set out in broad terms below:

Generic Risks	Description
Business risk	The risk that the organisation cannot meet its business imperatives.
Reputational risk	The risk that there will be an undermining of customer's/media's perception of the organisation's ability to fulfil its business requirements – for example, adverse publicity concerning an operational problem.
Service risk	The risk that the service is not fit for purpose.
Design risk	The risk that design cannot deliver the services to the required quality standards.
Planning risk	The risk that the implementation of a project fails to adhere to the terms of the planning permission or that detailed planning cannot be obtained; or, if obtained, can only be implemented at costs greater than in the original budget.
Build risk	The risk that the construction of physical assets is not completed on time, to budget and to specification.
Project intelligence risk	The risk that the quality of initial intelligence (for example, preliminary site investigation) will impact on the likelihood of unforeseen problems occurring.
Decant risk	The risk arising in accommodation projects relating to the need to decant staff/clients from one site to another.
Environmental risk	The risk that the nature of the project has a major impact on its adjacent area and there is a strong likelihood of objection from the general public.
Procurement risk	The risk that can arise from the contractual arrangements between two parties – for example, the capabilities of the contractor/ when a dispute occurs.
Operational risk	The risk that operating costs vary from budget and that performance standards slip or that a service cannot be provided.

Generic Risks	Description
Availability and performance risk	The risk that the quantum of service provided is less than that required under the contract.
Demand risk	The risk that the demand for a service does not match the levels planned, projected or assumed. As the demand for a service may be partially controllable by the public body concerned, the risk to the public sector may be less than perceived by the private sector.
Volume risk	The risk that actual usage of the service varies from the levels forecast.
Occupancy risk	The risk that a property will remain untenanted – a form of demand risk.
Maintenance risk	The risk that the costs of keeping the assets in good condition vary from budget.
Technology risk	The risk that changes in technology result in services being provided using sub-optimal technical solutions.
Funding risk	The risk that the availability of funding leads to delays and reductions in scope as a result of reduced monies.
Residual value risk	The risk relating to the uncertainty of the values of physical assets at the end of the contract period.
External systematic and catastrophe risks	The risks that affect all society, and are not connected directly to the project or project. These risks are accounted for in the discount rate and include, for example policy and technological disruption risks
Policy risk	The risk of changes in policy direction leading to unforeseen change.
Technological disruption risk	The risk of new techniques emerging that completely transform the way things are done, such as the appearance of affordable internet downloading and data sharing.

Risk quantification

It is good practice to quantify the cost of risk through a 'risk cost' which is added to the costs of the options to provide the full expected value of the options. As the appraisal proceeds, more specific risks will be identified, thus reducing the more general optimism bias.

An 'expected value' provides a single value for the expected impact of all risks. It is calculated by multiplying the likelihood of the risk occurring (probability) by the cost of mitigation and summing the results for all risks and outcomes.

Single point probability analysis

At its basic, a risk analysis could consist of an estimate of the cost of each risk occurring, multiplied by a single probability of that risk occurring in a particular year – see the example below.

Case study: single point analysis	
Annual cost of service	\$2 million
Estimated mitigation for cost over-run	\$200,000
Estimated probability of risk occurring	10%
Estimated value of risk = £200k x 10%	\$20,000

Multi-point probability analysis

There is a range of possible outcomes for any risk. An output probability distribution provides a complete picture of the possible outcomes and recognises that some of these outcomes are more likely to occur than others. An ‘expected outcome’ is the average of all possible outcomes, taking into account their different probabilities. An example is given below:

Case study: expected costs of a construction project using multi point analysis

It is estimated that a particular facility will cost \$50m to build. The expected costs associated with construction cost uncertainties have been calculated as follows:

Possible cost (£m)	Difference from estimated cost (£m)	Estimated probability of the event occurring	Risk value (£m)
45	-5	0.1	-0.5
50	0	0.6	0
55	+5	0.1	+0.5
60	+10	0.1	+1.0
65	+15	0.1	+1.5

The most likely outcome is that of no extra cost, as this outcome has the highest probability (60%). However, the expected outcome – the sum of each possible outcome multiplied by its probability – is an additional cost of \$2.5 million. This needs to be calculated in NPSV terms, taking into account the time period over which the risk occurs.

Decision trees

Decision trees can be useful ways of thinking about alternatives for the outcomes and so can and illustrate thinking about risk. They can be used to develop and show the key features of alternative scenarios where key variables external to the proposal under consideration are likely. In situations where there is a potential for learning over time to make better informed decisions, then delay can also have a positive value.

To help quantify such cases, decision trees have been developed into “real options analysis”. They are graphical representations useful in assessing situations where the probabilities of particular events occurring depend on previous events, and can be used to calculate expected outcomes in more complex situations. For example, the likelihood of a particular volume of traffic using a road in the future might depend on movements in the oil price. Different scenarios can be analysed in this way.

Monte Carlo

There are a variety of packages available that take the analysis of risk a step further, using probability distributions.

Monte Carlo analysis is a simulation technique that presents both the range as well as the expected value of the collective impact of various risks. It is useful when there are many variables with significant independent uncertainties. However, expert advice is required to ensure it is applied properly, especially when risks are not independent of each other. Sufficient data is also needed on the key input variables and outputs to support a stable numerical model with well estimated distribution functions.

Action 13 – select preferred option and undertake sensitivity analysis

As a minimum, undertake sensitivity analysis on the preferred option, thereby testing its robustness in relation to switching values and different scenarios for costs and the delivery of benefits. Where alternative options are significantly different in some key respects and realistically need to be considered, then they too should undergo sensitivity analysis, as described below

Identifying the preferred option

Selecting the preferred option should be reasonably straightforward in the decision making process if the required analyses has been rigorously undertaken.

The business case should present the information succinctly and clearly for each option to support clear decision making. The following format provides a summary of the costs and benefits by key category and class. While not all of the costs and benefits will apply to every proposal, it should be considered as a starting point for the presentation of cost benefit information.

Option	Undiscounted	Discounted
Costs in the Appraisal of Public Value		
1. Total Direct Public Costs (to Originating Organisation)	
1.1 Capital	
1.2 Revenue	
2. Total Indirect Public Costs (to Wider Public Sector)	
2.1 Capital	
2.2 Revenue	
3. Wider Social Costs	
3.1 Capital	
3.2 Revenue	
4. Total risk costs	
4.1 Optimism bias	
4.2 Estimated or Measured risk	
5. Total of costs (1,2,3,4 above)
Benefits in Appraisal of Public Value		
6. Total Direct Public Sector Benefits	
6.1 Cash releasing benefits (CRB)	
6.2 Non-cash releasing benefits (NCRB)	
7. Total Indirect Public Sector benefits	
7.1 Cash releasing benefits (CRB)	
7.2 Non-cash releasing benefits (NCRB)	
8. Total Wider Social Benefits	
8.1 Cash releasing benefits (CRB)	
8.2 Non-cash releasing benefits (NCRB)	
9. Total value of benefits (6,7,8 above)
Net Public Value (9-5 above)	
Benefit Cost Ratio (BCR) (9÷5 above)	

The values of costs, benefits and risks are not always comparable, because some benefits and risks are non-quantifiable.

When an option has higher benefits, the decision needs to be made whether these benefits justify a higher net present social cost (NPSC). If the additional benefits are insufficient to justify the additional costs and risks, a lower cost and risk option should be selected.

Often the choice will remain between high cost/high benefit options and low cost/low benefit options. In these circumstances, a decision is required on the extent the higher benefits are worth paying for. Risk can also play a part in that a high cost/high benefit option may be considered too risky to undertake, and an intermediate option might show a more optimal balance of risk.

The final choice of the preferred option lies with senior management and their stakeholders, drawing on professional advice.

Sensitivity analysis

An expected value is a useful starting point for undertaking the impact of risk between different options. But however well risks are identified and analysed, the future is inherently uncertain; so it is also essential to consider how future uncertainties can affect the options.

Sensitivity analysis is fundamental to appraisal. It is used to test the vulnerability of options to unavoidable future uncertainties and to test the robustness of the ranking of the options. It involves testing the ranking of the options by changing some of the key assumptions. However, spurious accuracy should be avoided and it is essential to consider how the conclusions may alter, given the likely range of values that key variables may take.

Sensitivity analysis may not change the preferred option. However, if small changes in the assumptions alter the ranking, it is an indication that the investment process should proceed cautiously, because it has non-robust elements in it. This means that a more detailed analysis and testing of the costs, benefits and risks of some of the options should be considered.

Sensitivity analysis should be undertaken in two stages:

- switching values
- scenario analysis based on the best and worst possible outcomes

Switching values

This technique highlights the point at which the choice of the preferred option would switch to another option due to any uncertain costs and/ or benefits.

The calculation of switching values is carried out by showing other options in relation to the preferred option using percentages (the preferred option is zero). This indicates by how much a variable would have to fall (if it is a benefit) or rise (if it is a cost) to make it not worth undertaking the preferred option. In other words how much variables would have to change for the preferred option to be 'dislodged'. This should be considered a crucial input to the decision as to whether a proposal should proceed. It therefore needs to be a prominent part of the appraisal.

Scenario analysis

Alternative scenarios are a useful in considering how options may be affected by future uncertainty and provide a valuable way of assessing risk, especially where there is a known risk of significant variations in external conditions.

Scenarios should be chosen to draw attention to the major technical, economic and political uncertainties on which the success of the proposal depends.

Careful consideration should be given before running the scenario analysis to the choice of circumstances, as sensitivity analysis does not simply involve changing costs, benefits and risks by an arbitrary 10 or 20%; but rather by the values that represent the most likely increases (or decreases) in cost etc. for documented reasons.

Scenario analysis may take the form of asking simple 'what if' questions for small and medium size investments and extend to creating detailed models of 'future states of the world' for major projects and projects. The expected NPSV is then calculated for each scenario.

If the results for the scenario analysis are similar to the switching values, further work is required on the options to determine their robustness. Where appropriate, the sensitivity analysis of the appraisal findings should include the following:

Category	Assumptions and Estimates
Costs and benefits	Capital costs
	Lifecycle costs
	Costs of core services
	Costs of non-core services
	Benefits valued in monetary terms
Non monetary benefits	Quantifiable and Qualitative
Timing	Delays in the project

More specifically, examples of variables that are likely to be both inherently uncertain and fundamental to an appraisal are:

- the growth of real wages
- forecast revenues
- demand
- prices
- risk values.

A prior understanding of how costs fall into fixed, step, variable and semi-variable categories can help in understanding the sensitivity of the total costs of proposals.

Final selection of the preferred option

The preferred option should be a balanced judgement based on the net present social value (NPSV), the benefit cost ratio (BCR) and the level of risk involved.

Alternatively, the preferred option may be that with the lowest net present social cost (NPSC).

Other factors may also affect the selection of the preferred option; in particular, any unvalued costs, risks and non-monetised benefits. In these circumstances it is essential to involve stakeholders in the decision making process about whether any additional cost is a price worth paying.

The results for each short-listed option should be shown as follows:

Evaluation results	Option 1 Business As Usual (BAU)	Option 2 Do Minimum	Option 3	Option 4 etc.
Net present social values				
Qualitative benefits appraisal				
Qualitative risk appraisal				
Overall ranking				

Internal rate of return and pay back period

Public trading organisations that are self financing may need to take account of other measures, such as the internal rate of return (IROR) and the payback period in their financial case calculations and in the choices made in their strategic and commercial cases. These measures are not recommended for use in calculating social value in the economic case.

Workshop 3 – Assessing the Short listed Options

At least one workshop is recommended for the completion of this section of the Project Business Case, so that the key stakeholders are engaged earlier on, can challenge and assist to shape the direction of the project.

The purpose, objectives, key participants and outputs of this workshop are as follows:

Workshop 3	Assessing the Short listed Options
Objectives	<ul style="list-style-type: none"> <input type="checkbox"/> To validate the findings of the cost benefit analysis (CBA)/ cost effectiveness analysis (CEA) to the short listed options <input type="checkbox"/> To appraise the qualitative benefits and risks. <input type="checkbox"/> To identify the preferred option for the project that offers best public value.
Key participants	<ul style="list-style-type: none"> <input type="checkbox"/> External stakeholders or commissioners <input type="checkbox"/> Director of Finance <input type="checkbox"/> Commercial Director <input type="checkbox"/> Economic adviser <input type="checkbox"/> Customer and/or user representatives <input type="checkbox"/> Project manager <input type="checkbox"/> Facilitator
Outputs	<ul style="list-style-type: none"> <input type="checkbox"/> Identification of the preferred option for the delivery of the project.

Checklist for step 4

There should now be a clear understanding of the preferred option, which is evidenced from:

- the economic appraisals (NPSVs) for the short-listed options – risk adjusted and applying optimism bias (£)
- an assessment of both the non-monetised (qualitative) benefits and risks
- an assessment of the uncertainties (sensitivity analysis)

Output from steps 4

The economic case section of the outline business case is now complete and must be kept under review.

Step 5: Preparing for the potential Deal.

Introduction

The purpose of the commercial case is to set out the procurement arrangements for the project's key outputs and activities.

These arrangements need to be considered from the outset, in order to secure long term public value during the operational phase of the project.

Completing the commercial case requires undertaking the following actions for the preferred option identified in the economic case.

Step 5	Preparing for the potential deal
Action 14	Determine procurement strategy
Action 15	Determine service streams and required outputs
Action 16	Outline potential risk apportionment
Action 17	Outline potential payment mechanisms
Action 18	Ascertain contractual issues and accountancy treatment

At least one facilitated workshop is recommended at this stage.

Action 14: Determine procurement strategy

Determine the procurement strategy and possible procurement routes for the project's key outputs and activities.

This requires considering how the required services, supplies or works can best be procured in accordance with established rules and regulations and the commercial strategy of the organisation.

Key considerations are:

- the choice of procurement method and the degree to which early consultation with the supply side is required, and
- the extent to which the organisation should be acting as a single procurement entity or procuring more collaboratively with other public bodies in order to secure economies of scale and improved public value.

Procurement rules

Public sector organisations must act in compliance with the appropriate procurement legislation.

Collaborative procurements

These strategic arrangements – at national, departmental, sector and local level – offer significant flexibility and potential VfM, through economies of scale; and considerable reductions in procurement costs, through pre-competition.

Collaborative procurements range from 'pre-competed' arrangements and prices at national level to departmental and more local arrangements involving 'call-off contracts' and management frameworks for specified services, supplies and works.

Ensure the procurement strategy is appended to the Project Business Case.

Action 15: determine service streams and required outputs

Identify the project's service streams and required outputs and the scope and content of the potential Deal to be made with public and private sector service providers.

Consider the following approaches:

- Framing the project's requirements in terms of outputs to be produced, so as to enhance innovation.
- Specifying the quality attributes of the services and outputs required, together with the performance measures against which they will be assessed.
- Scoping the potential deal so as to permit potential service providers to suggest innovative ways of meeting the project's requirements.

Services and required outputs

Summarise the project's required services and outputs and the potential implementation timescales required.

Consideration should be given to capturing the following details for the project:

- the business areas affected by the procurement
- the business environment and related activities
- the business objectives relevant to the procurement
- the scope of the procurement
- the required service streams
- the required outputs, including: phases, performance measures and quality attributes
- the stakeholders and customers for the outputs
- the options for variation in the existing and future scope for services
- the potential developments and further phases that may be required.

Procurement plan and proposed implementation timescales

The project plan for the procurement of its key outputs and activities should be outlined and/or attached to the Project Business Case.

Action 16: outline potential risk apportionment

Identify how the service risks in the design, build, funding and operational (DBFO) phases of project may be apportioned between the public and private sectors.

The main aim is to ensure that specific risks should be allocated to the party best able to manage it, subject to the risk premium. The intention is to optimise the allocation and sharing of risk rather than to maximise the number of risks to be transferred to potential service providers for delivery of the project.

Guiding principles

The following principles should be taken into account:

- the public sector should consider transferring risk to the private sector when the service provider is better able to influence the outcome than the procuring authority.
- the degree to which risks may be transferred depends on the specific proposal under consideration.
- the successful negotiation of risk transfer requires a clear understanding by the procuring authority of the risks presented by a proposal; the broad impact that these risks may have on the service provider's incentives and financing costs (cost drivers); and the degree to which risk transfer offers value for money – hence the need to identify and cost individual risks
- the private sector should be encouraged to take the risks it can manage them more effectively than the public sector; particularly where it has clear ownership, responsibility and control.
- the transfer of risks can generate incentives for the private sector to provide more timely, cost effective and innovative solutions.

Complete the following risk allocation for the project as required. Illustrate the amount of risk to be shared by percentage point (%), if possible.

Risk Category	Potential allocation		
	Public	Private	Shared
1. Design risk			✓
2. Construction and development risk			✓
3. Transition and implementation risk			✓
4. Availability and performance risk			✓
5. Operating risk	✓		
6. Variability of revenue risks	✓		
7. Termination risks	✓		
8. Technology and obsolescence risks			✓
9. Control risks	✓		
10. Residual value risks	✓		
11. Financing risks	✓		
12. Legislative risks	✓		
13. Other project risks	✓		

Action 17: outline potential payment mechanisms

Identify how the project intends to make payment for its key services and outputs over the expected life span of the contract(s).

Consider how best to ‘incentivise’ the service provider(s) to provide value for money over the life span of the project and its operational phase. This will assist the organisation to deal with the inevitable need for “change” to services and operations in the future and to embed risk transfer and allocation within the charging mechanism for the project.

The charging mechanism is the formula against which payment for the contracted services will be made. The underlying aim of the payment mechanism and pricing structure is to reflect the optimum balance between risk and return in the contract. As a general principle, the approach should be to relate the payment to the delivery of service outputs and the performance of the service provider.

Properly constructed payment mechanisms incentivise the service provider to deliver services in accordance with the business imperatives of the public sector in the following key phases of the service:

- the pre-delivery phase – up to the acceptable delivery of the service and commencement of the payment stream
- the operational phase – following acceptable delivery of the service up to the close of the primary contractual period
- the extension phase – post primary contract period.

The pre-delivery phase

Two charging mechanisms are important in the pre-delivery design and build phases – fixed price/costs and payment on the delivery of agreed outputs.

Fixed price/costs

The service provider must be given an incentive to deliver services to time, specification and cost. This element involves a fixed price for the delivery of ‘agreed outputs’ within a fixed timetable, with appropriate remedies in place for delays and cost over-runs.

Payment on the delivery of agreed outputs

This element links payment to the delivery of key service outputs and does not commence until the contracted services come on stream, as agreed.

These payments may be staggered against the delivery of key outputs within the overall implementation plan for the complete service. However, the guiding principle is that a revenue stream to the service provider should only commence when an off-setting benefit stream is realised on the part of the public sector.

Ultimately, a service that fails to perform could result in termination of all the payment streams and, in extreme circumstances, pass the rights to the underpinning assets for the service to the public sector.

The operational phase

A number of mechanisms are relevant here – each is discussed below. Any payment mechanism should be based on the principle of payment being made only when requirements/standards are met.

Availability payment

This element links a proportion of the payment stream to the availability of the service. For example, the contract could stipulate that the service must be available for a minimum of 95% of the time between contracted hours.

In such instances, the procuring authority will need to negotiate service level agreements (SLAs), which outline the availability criteria. In some cases, it may be appropriate to treat availability as a threshold which releases a payment stream based on a combination of other factors – for example, performance or throughput of service.

Failure on the part of the service provider to meet the agreed availability criteria should lead to reduced payments and, ultimately, to cessation of the service.

Performance payment

This element links a proportion of the payment mechanism to the performance of the service. Linking payments to specified performance targets helps to ensure that the service provider continues to deliver the agreed outputs throughout the life span of the service.

Transaction/volume payment

This element links a proportion of the payment mechanism to the achievement of business benefit – for example, the number of transactions or volume of business provided.

Linking payment to the productivity or usage of the service in this way gives the service provider the incentive to optimise the level of productivity and to invest further in the underlying infrastructure, if increased levels of productivity are required.

Incentive payment

This element of the payment mechanism is linked to potential improvements in the overall performance of the public sector's business processes; and encourages the service provider to deliver new ways of working and additional benefits that can be shared by both parties.

Cost of change

This element of the payment mechanism seeks to minimise the cost of change by encouraging the service provider to build flexible and adaptable solutions in the first instance.

The cost of change represents a major risk to the public sector and should be mitigated through the contractual obligation to benchmark and market test the contracted services at regular intervals.

If it is not possible to agree exact prices for anticipated changes at some future time, the process for agreeing the cost of change should be established at the outset.

Third party revenues

This element of the payment mechanism gives the service provider the incentive to develop and exploit alternative revenue streams and new business, wherever possible without prejudice to the standing of the public sector.

The price for core services will be reduced and overall value for money (VFM) improved, if the scope for these potential revenue streams has been recognised and agreed, in principle, at the outset.

The extension phase

Technological obsolescence

During the operational phase, the service provider is delivering the service for an agreed revenue stream and will naturally invest in alternative ways of working and new technologies if this allows overall costs to reduce and profit margins to improve.

Two contractual devices can be employed to encourage the service provider to consistently upgrade the core technology. First, various upgrades can be included in the initial price to ensure that the infrastructure underpinning the service is kept up-to-date; and second, a proportion of the service provider's initial recoverable investment could be deferred – with agreement – until the end of the contractual period.

Contract currencies

Contract currencies are the variable measures that make the payment mechanism meaningful and effective in the service contract – for example, the number of complaints received; the proportion of users of the service requiring assistance, time taken to answer phone, number of abandoned calls, etc.

The aim should be to choose contract currencies which demonstrate productivity and performance. In other words, comparative measures which provide service providers with the incentive to improve – a reduced payment for under performance and enhanced payments for performing in excess of the minimum requirement specified in the contract.

Action 18: ascertain contractual issues and accountancy treatment

Outline the contractual arrangements for the project, including the use of a particular contract, the key contractual issues for the deal and its accountancy treatment and personnel implications (if any).

Use of contract

State the form of contract to be used.

- In the case of a standard contract, state the title of the model contract to be used.
- In the case of a bespoke contract, state why this is more advantageous than using a standard contract.

Key contractual issues

Contract management arrangements and key contractual issues should be considered and recorded in the OBC.

The main areas of the contract to be categorised are as follows:

- the duration of the contract(s) and any break clauses
- the service provider's and procuring authority's respective roles and responsibilities in relation to the proposed deal
- the payment/charging mechanism, including prices, tariffs, incentive payments etc
- change control (for new requirements and updated services)
- the organisation's remedies in the event of failure on the part of the service provider to deliver the contracted services – on time, to specification and price.
- the treatment of intellectual property rights
- compliance with appropriate regulations etc
- the operational and contract administration elements of the terms and conditions of service

- arrangements for the resolution of disputes and disagreements between the parties
- the agreed allocation of risk
- any options at the end of the contract.

Accountancy treatment

Provide details of the intended accountancy treatment for the potential deal by stating on whose balance sheet – public or private sector, or both – the assets underpinning the service will be accounted for; and the relevant accountancy standard(s).

A letter supporting the balance sheet conclusion should be provided by the Finance Director or by an external auditor.

Personnel implications

Identify any personnel implications for the project.

Public sector organisations are obliged to involve their staff and their representatives in a process of continuous dialogue during significant projects involving considerable internal change. This also represents best practice in terms of human resources policies.

Workshop 4 – Developing the Deals

At least one workshop is recommended for the completion of this section of the OBC, so that the key stakeholders are engaged earlier on, can challenge and assist to shape the direction of the project.

The purpose, objectives, key participants and outputs of this workshop are as follows:

Workshop 4	Developing the Commercial Strategy and Deals for the project
Objectives	<ul style="list-style-type: none"> <input type="checkbox"/> To develop the service specification for the project <input type="checkbox"/> To apportion the service risks and explore the underpinning payment mechanisms <input type="checkbox"/> To develop the contractual arrangements
Key participants	<ul style="list-style-type: none"> <input type="checkbox"/> External stakeholders or commissioners <input type="checkbox"/> Director of Finance <input type="checkbox"/> Commercial Director <input type="checkbox"/> Economic adviser <input type="checkbox"/> Customer and/or user representatives <input type="checkbox"/> Project manager <input type="checkbox"/> Facilitator
Outputs	<ul style="list-style-type: none"> <input type="checkbox"/> Procurement and commercial strategies for the project <input type="checkbox"/> Preliminary risk allocation matrix (RAM) for the project <input type="checkbox"/> Potential deal for the project

Checklist for step 5

There should now be a clear understanding of the Project's:

- commercial and procurement strategies and the routes to market in accordance with the appropriate procurement legislation
- potential deals and required services
- implementation timescales for potential projects
- supporting charging/payment mechanisms
- the contract(s) to be used and the key contractual issues.

Output from step 5

The commercial case section of the Outline Business Case is now complete and must be kept under review.

Step 6: Ascertaining affordability and funding requirement

Introduction

The purpose of the financial case is to ascertain the affordability and funding requirements of the preferred option and to demonstrate that the recommended project is affordable.

This involves determining the funding and affordability of the proposed project on the organisation's income and expenditure account, balance sheet and prices for its services (if applicable).

Completing the financial case requires undertaking the following action.

Step 6 Ascertaining affordability and funding requirement

Action 19 Prepare financial model and the financial appraisals.

Focus of the financial appraisals

The focuses of the financial and economic appraisals are different. The economic appraisals focus on the value for money of the overall project. The financial appraisals focus on the affordability and fundability of the project.

The costs and benefits appraised in the financial case reflect an accountancy based perspective. Consequently, both resource and non-resource costs and benefits are factored into the analysis; so, for example, whereas transfer payments and depreciation are excluded from the economic appraisals, these costs are included in the financial appraisals, because they have a direct bearing on the affordability of the project.

The key differences can be summarised as follows:

Economic Appraisals	Financial Appraisals
Focus: <input type="checkbox"/> Net Present – public value for money	Focus: <input type="checkbox"/> Funding and affordability – cash flow and stock
Coverage: <input type="checkbox"/> Society as a whole	Coverage: <input type="checkbox"/> Relevant public organisation(s) budget
Relevant standards: <input type="checkbox"/> National guidance <input type="checkbox"/> Agreed discount rate applied	Relevant standards: <input type="checkbox"/> Public sector accounting rules and standing orders
Analysis: <input type="checkbox"/> real (base year) prices <input type="checkbox"/> use of opportunity costs <input type="checkbox"/> includes quantifiable welfare costs and benefits to society <input type="checkbox"/> includes environmental costs <input type="checkbox"/> excludes transfer payments <input type="checkbox"/> excludes general inflation <input type="checkbox"/> excludes sunk costs <input type="checkbox"/> excludes depreciation, impairment and capital charges.	Analysis: <input type="checkbox"/> current (nominal) prices <input type="checkbox"/> benefits – cash releasing only <input type="checkbox"/> includes capital and revenue costs <input type="checkbox"/> includes transfer payments <input type="checkbox"/> includes inflation

The following financial statements are required for the project's spend:

- a budget statement** – which should be based on resource accounting and budgeting (RAB) principles and show the resource costs over the life span of the project. For strategic initiatives, the budget will often comprise the forecast RAB financial statements of the whole organisation over a number of years
- a cash flow statement** – which should show the cash which will be spent on the lead option, if it goes ahead. The existing spend (if any) and the additional spend should be shown separately
- a funding statement** – which should show which internal departments, partners and external organisations will provide the resources required. Where external funding is required, a written statement of support from the project's stakeholders or commissioners is needed.

The above should include the contingencies necessary to ensure that there is sufficient financial cover for risks and uncertainties.

Financial modelling

For large, significant and complex projects, a financial model of the proposed expenditure needs to be constructed.

The model will provide an informed best guess of the likely impact and outcomes of the proposed project in its early stage of development. However, the reliability and robustness of the model will increase as it is kept under continuous review and updated to reflect the latest information.

Building the model may require specialist advice from accountants and financial advisers from outside of the organisation. In these circumstances, the organisation's Director of Finance and the Project's Senior Responsible Owner must play a lead role in vetting and maintaining the integrity of the model, since responsibility for its use as a decision making tool ultimately falls to the organisation.

The minimum requirements for most projects are as follows:

Minimum requirements for a financial model

- recording a description of the model and the associated methodology
- agreeing and recording the underlying assumptions (for example, interest rates, inflation, taxation, capital charges, depreciation etc.)
- detailing the proposed funding structure
- preparing the inputs schedules (financial costs, cash-releasing benefits and risk contingencies)
- preparing the projected 'profit and loss'
- preparing balance sheet projections
- undertaking cash flow projections
- preparing funding schedules
- calculating project returns for the different elements of financing
- preparing supporting schedules – i.e. for loans, fixed assets, taxation, and payments

Capital and revenue requirements

Following on from the modelling exercise, a statement showing the capital and revenue requirements for the recommended project should be prepared.

This should set out:

- the capital and revenue consequences of the preferred option for the project over the life span of the service and/or contract period
- how this compares with the original capital ceiling for the scheme (if any)
- any shortfall in capital and revenue requirements (the 'funding gap').

This statement should also indicate the capital sum being requested and, ideally, that the organisation has sufficient income to meet the ongoing costs of the project. The minimum requirement is as follows:

Summary of financial appraisal

	Year 0	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6 etc	Total
Preferred option:								
Capital								
Revenue								
Total								
Funded by:								
Existing								
Additional								
Total								

Net effect on prices

It may also be necessary to assess the impact of the proposed deal on any contract prices that the organisation charges for its services. Costs should be covered by income, year by year, and the organisation must be confident that existing customers will continue to contract for services, or that new purchasers will secure additional contracts.

The impact on prices of capital charges must also be considered, if applicable. Capital charges are significant when considering the affordability of a development and they must be included in year by year financial projections, together with running costs and contract income from any purchasers.

The benefits that the proposed deal will deliver and the prices that the organisation will charge as a result will have an impact on competitiveness. Organisations should, therefore, compare and benchmark the prices and quality levels of similar services offered by other providers.

The effect on prices should be analysed in sufficient detail for purchasers to ascertain how the scheme will impact them. This means considering the impact on:

- the organisation's prices as a whole
- the prices for individual services
- the prices of specific contracts.

Public sector investments are difficult to justify if they lead to an increase in prices for the organisation's services.

Impact on the income and expenditure account

The impact of the project on the organisation's income and expenditure should be assessed. Both the current position and the likely outcome should be recorded in the OBC by a qualified accountant who understands the project and the organisation's business and supported by the Organisation's Director of Finance.

Impact on the balance sheet

The impact of the project on the organisation's balance sheet must be assessed. Both the current position and the likely outcome should be fully recorded in the OBC by a qualified accountant who understands the project and the organisation's business.

Where significant assets are an integral part of the investment, their accounting treatment will need to be examined (see commercial case). This will require an independent opinion from the organisation's auditors.

Stakeholder(s)/ commissioner(s) support

Affordability issues are one of the main reasons for delay at the point at which OBCs are submitted for approval. The key principle here is that the source of funding, and the amount over time, must be confirmed and the project shown to be affordable throughout its life.

An OBC will only be successful and approved if consultation has been held between the organisation seeking spend for service improvement and its stakeholders/ commissioners/ purchasers, and other interested parties.

Agreement, in principle, must be obtained for the project from the purchasers for the scheme. This should be in written form and included in the annex to the OBC.

The following provides an overview of the issues that should be addressed:

A commissioner's letter should:

- demonstrate that the main commissioner and other commissioners have been involved in developing the project throughout the key stages
- confirm acceptance of the strategic aims and spending objectives of the project, including its functional content, size and services
- confirm that the financial costs of the scheme can be contained within the agreed and available budget and a willingness and ability to pay for the services at the specified price level
- state the margins of leeway beyond which support must be re-validated
- demonstrate that suitable contingency arrangements are in place to work with the provider to address any current or unforeseen affordability pressures
- be provided by the appropriate individual(s) within the organisation – usually the chief executive officer

Assessing affordability

Assessing affordability requires sound judgment of the organisation's business and requires that:

1. the balance sheet has been correctly organised and properly accounts for current assets, current liabilities, long-term liabilities and capital
2. the balance sheet of the organisation is in a healthy state
3. the organisation is solvent
4. the organisation is not over-trading
5. the cash flow of the organisation is sound
6. the necessary allowance has been made for risks.

There are a number of techniques available to public sector for assessing affordability. Those in common use within the private sector include:

The balance sheet – items 1 and 2

This involves an assessment of working capital, which is defined as follows:

$$\text{Working capital} = \text{current assets} - \text{current liabilities}$$

An organisation should never run short of working capital or over-capitalise. This is a common reason for business failure. A ratio of current assets to current liabilities of 2:1 is generally agreed to be the minimum working capital ratio. The ratio is calculated as follows:

$$\text{Working capital (ratio)} = \frac{\text{current assets}}{\text{current liabilities}}$$

Solvency – item 3

This means that the organisation can meet any debt obligation in the near future without jeopardising the liquidity of the business.

Over-trading – item 4

This links in with over-capitalisation, where the organisation is running short of working capital as a result of having acquired too many assets, leaving itself short of cash for operational expenses.

In this situation attention must be paid to the organisation's cash flow; but it is first necessary to consider the return on capital employed and the return on capital invested.

The return on capital employed enables us to compare the receipts (or profits) earned with the capital employed to earn them, and may be calculated as follows:

$$\text{Return on capital employed} = \text{net receipts (or profits)} - \text{capital employed.}$$

The return on capital invested calculates what the return was overall on the capital used and takes into account the lost opportunity or 'opportunity cost' of the capital employed. As such it is calculated as follows:

$$\text{Return on capital invested} = \text{net profit} - \text{opportunity cost} - \text{capital invested}$$

Cash flow – item 5

Assessing cash flow should take into account:

- the pattern of business activities and trading generally
- budgeting for cash flow – a forecast which looks ahead and envisages the likely income and expenditure
- an assessment of the cash balance at the end of a particular period.

Risks – item 6

There are a number of risks which could affect the affordability of the project. The OBC should summarise the results of the risk contingencies and sensitivity analysis which underpin the financial case.

The risks and uncertainties will vary from project to project, but some key questions to consider are:

- Would the project be affordable if capital costs were to be x% higher than expected?
- What if the expected savings were to fall by y%?
- What circumstances might cause saving targets to be breached?
- What if income to the organisation were to be reduced by z% or more?
- Is there a robust strategy in place to guard against these outcomes?

Pay-back period

Finally, there is the pay-back period, which measures the rate at which the financial benefits from the investment 'pays back' the initial investment costs. In general, projects with a short pay-back period are preferable to those with long pay back periods.

Closing affordability gaps

Affordability problems are most likely to occur in the early years of the project – in the construction and development phase – when benefits are unlikely to be sufficient to offset the costs of the investment.

However, during the operational phase benefits can be expected to build up gradually, until they reach the point where the net impact on operating costs and prices to purchasers is negative.

There are a number of remedies if the affordability analysis reveals the preferred option for the project is unaffordable. These include the following:

- phasing the implementation of the project's outputs differently
- adopting a different design solution for some of the project's outputs
- altering the scope of the preferred option – for example, its functional content and/or the quantity and quality of the services offered
- finding additional sources of funding – for example, disposal of surplus assets (if available), further revenue support from the commissioners of the organisation's services
- considering different ways of financing the project – for example, private finance, operating and financial leases

- negotiating more competitive or flexible prices from the service provider(s)
- finding other ways of reducing the costs and/or increasing cash releasing savings
- permitting service provider(s) to create additional revenue streams and new business and sharing in the resultant revenue streams.

Checklist for step 6

There should now be a clear understanding of:

- the capital and revenue implications of the project
- the impact on the income and expenditure account and the organisation's charges for services (if applicable)
- the impact on the budget, other sources of available funding and any shortfalls
- the impact of the project on the organisation's balance sheet.

There should also be written evidence of commissioner and stakeholder support (if required).

Output from step 6

The financial case section of the Outline Business Case is now complete and must be kept under review.

Step 7: Planning for successful delivery

Introduction

The purpose of the management case is to put in place the arrangements for the successful delivery of the project.

Completing the management case requires undertaking the following actions:

Step 7	Planning for successful delivery
Action 20	Plan project management – strategy, framework and plans
Action 21	Plan change and contract management – strategy, framework and plans
Action 22	Plan benefits realisation – strategy, framework and plans
Action 23	Plan risk management – strategy, framework and plans
Action 24	Plan project assurance and post project evaluation – strategy, framework and plans

Action 20: Plan project management – strategy, framework and plans

Put in place the strategy, framework and plans for successful project delivery using a proven methodology for guiding investments through a controlled, well managed and visible set of activities to achieve the desired results and benefits.

There must be evidence that these arrangements are in place.

Programme and Project Methodology (PPM) strategy

The implementation strategy of most organisations for the successful delivery of schemes is to embrace the principles of programme and project management and to adopt a methodology for both which is based on proven standards and quality management.

Apply any national standards.

Project framework

Summarise the following aspects and capture key points in a diagram

- structure
- reporting arrangements
- governance arrangements
- key roles and responsibilities
- appointed personnel and any vacancies

Project Plan

The project plan is used to control and track the progress and delivery of the project and resulting outcomes. It describes how, when and by whom a specific project, milestone or set of targets will be achieved. It is the detailed analysis of how identified project targets, milestones, deliverables and products will be delivered to timescales, costs and quality.

The most up-to-date version of the project plan should be summarised and attached to the OBC.

This project plan should typically include:

- the deliverables or products to be produced
- the activities required to deliver them
- the activities required to validate the quality of the deliverables
- the resources and time needed for all activities and any need for people with specific capabilities and competencies
- the dependencies between activities and associated constraints
- when activities will occur
- the points at which progress will be monitored, controlled and reviewed, including delivery and approval of the business case and undertaking Gateway Reviews/Health Checks etc.OBC

Use of special advisers

The use of specialist advisers is encouraged where the necessary capabilities and competencies are in short supply for large, significant, complex and novel projects.

The requirement for special advisers usually falls into four key categories in the project plan: financial, legal, technical and project/project management. The OBC should indicate how and when this advice will be used along with expected costs.

Special advisers should be used where an independent and impartial role is required to achieve the best results. This includes facilitating workshops.

Care must be taken to ensure that ownership of the Business Case and responsibility for its development is retained by the Project Board.

Action 21: plan change management – strategy, framework and outline plans

Put in place the strategy, framework and plans required for managing change.

Projects are about delivering change. This can range from service improvement, business process re-engineering (BPR) to a transformation in what and the way in which services are delivered.

Even where change is not seen as the primary driver for investment, as in the case of a replacement project, every effort should be taken to seize the opportunities for improving the efficiency of the service and public value.

Change needs to be managed and embraced by individuals within the organisation, hence the need for a change management strategy (linked to benefits realisation); a change management framework (to manage anticipated and unexpected change) and a plan (to explain what will be delivered, by whom and when in terms of underlying activities).

Change management strategy

The main purpose of the change management strategy is to assess the potential impact of the proposed change on the culture, systems, processes and people working within the organisation.

There are various management strategies for implementing change. The choice of strategy will depend upon the degree and pace of change required. The degree of service change can range from increased automation, re-configuration to the complete transformation of a business function. The pace of change can range from 'big bang' to phased or incremental introduction depending on the strategic driver and the ability of the organisation to cope with service change.

The organisation's choice of change management strategy should be set out in full, together with its underpinning communication and development (training) strategies.

Change management framework

The responsibility for the delivery of service change belongs to the Project Board and must remain under its control.

In the case of major societal change, the project may form only one part of a longer-term strategy involving other projects and programmes, both current and future, within the strategic portfolio. The associated and anticipated governance and reporting arrangements should be clearly explained in these circumstances.

Change management plans

The change management plan should be set out the communication and developmental deliverables (for example, training products) required for the implementation phase. These plans should indicate how relevant personnel within the organisation, including human resources and staff representatives have been involved and contributed to date.

Action 22: plan benefits realisation – strategy, framework and outline plans

Put in place the management arrangements required to ensure that the project delivers its anticipated benefit

Benefits realisation strategy

The benefits realisation strategy should set out arrangements for the identification of potential benefits, their planning, modelling and tracking. It should also include a framework that assigns responsibilities for the actual realisation of those benefits throughout the key phases of the project.

Benefits realisation framework

The responsibility for benefits realisation lies with senior management, who must ensure that delivery arrangements are outlined within the OBC.

Benefits register

All projects must capture benefits within a benefits register. This register should also indicate how those benefits are to be realised.

The benefits register should be updated and reviewed continuously throughout the course of the project and capture the following information for each benefit:

Benefits Register	
Benefits number	(unique within the register)
Benefit category & class	
Description	(including enabling project or activity)
Service feature	(what aspect of the project will give rise to the benefit – to facilitate monitoring)
Potential costs	(incurred during delivery)
Activities required	(to secure benefit)
Responsible officer	
Performance measure	(key performance indicator)
Target improvement	(expected level of change)
Full-year value	
Timescale	

All the benefits identified in the strategic case and economic case sections of the OBC must be accounted for within the benefits register. This includes the appraisal for the preferred option.

Action 23: plan risk management – strategy, framework and outline plans

Put in place arrangements for managing and mitigating risks during the key phases of the project.

Risk management is a structured approach to identifying, assessing and controlling risks that emerge during the course of the project lifecycle. Its purpose is to support better decision making through understanding the risks inherent in a proposal and their likely impact.

Effective risk management supports the achievement of wider aims, such as:

- effective change management
- the efficient use of resources
- better project and project management
- minimising waste and fraud
- innovation.

Risk management strategy

Strategies for the proactive and effective management of risk involve:

- identifying possible risk in advance and putting mechanisms in place to minimise the likelihood of them materialising with adverse effects
- having processes in place to monitor risks, and access to reliable, up-to-date information about risks
- the right balance of control to mitigate against the adverse consequences of the risks, if they should materialise
- decision making processes supported by a framework for risk analysis and evaluation.

Risk management strategies for individual projects should be adopted in a way that is appropriate to their scale.

Risk mitigation

Recognised methods for the mitigation of risk throughout the life span of the project include:

- early consultation – experience suggests that costs tend to increase as more requirements are identified (scope creep). Early consultation will help to identify what the requirements are and how they might be addressed (Scope creep is a risk which needs careful management.)
- avoidance of irreversible decisions – where lead options involve irreversibility, a full assessment of the costs should include the possibility of delay, and allowing more time for investigating alternative ways to achieve the objectives
- pilot studies – acquiring more information about risks affecting a project through pilot studies allows steps to be taken to mitigate either the adverse consequences of bad outcomes, or to increase the benefits of good outcomes
- design flexibility -where future demand and relative price are uncertain, it may be worth choosing a flexible design adaptable to future changes, rather than a design suited to only one particular outcome. Breaking a project into stages, with successive review points at which the project could be stopped or changed can also increase flexibility.
- precautionary action – where this can be taken to mitigate a perceived risk. The precautionary principle states that because some outcomes are so bad, even though they may be very unlikely, action is justified. In cases where such risks have been identified, they should be drawn to the attention of senior management and expert advice sought.
- procurement and contractual intervention. Risk can be contractually transferred to other parties and maintained through good contractual relationships, both informal and formal.
- making less use of leading edge technology. If complex technology is involved, alternative, simpler methods should be considered, especially if these reduce risk considerably whilst providing many of the same benefits
- develop different options. Following the risk analysis, the appraiser may want to re-instate options, or to develop alternative ones that are either less inherently risky or deal with the risks more efficiently
- abandon the proposal. Finally, the proposal may be so risky that whatever mitigation is considered, it has to be abandoned.

By reducing risks in these ways, the expected costs of a proposal are lowered or the expected benefits increased. As can be seen, benefit and risk are simply two sides of the same coin and successful delivery depends on the effective identification, management and mitigation of risk.

Risk management framework

Public sector organisations should foster a pragmatic approach to risk management at all levels. This involves:

- establishing a risk management framework, within which risks are identified, mitigated and managed
- senior management support, ownership and leadership of risk management policies
- clear communication of organisational risk management policies to all staff
- embedding risk management fully into business processes and ensuring it is applied consistently.

These actions should help establish an organisational culture that supports well thought out risk taking and innovation.

The arrangements for the management of risk should be outlined, together with the respective roles and responsibilities and reporting lines of the posts concerned. These should be made clear in relation to the overall project management arrangements.

Risk register

All projects must capture risks within a risk register. This register should indicate how those risks are to be mitigated and managed.

The risk register should be updated and reviewed continuously throughout the course of the project and capture the following information for each risk:

Risk Register	
Risk number	(unique within the Register)
Risk type	
Author	(who raised it)
Date identified	
Date last updated	
Description	(of risk)
Likelihood	
Interdependencies	(between risks)
Expected impact/value	
Bearer of risk	
Countermeasures	
Risk status	(action status)

All the risks identified in the strategic case and economic case sections of the OBC must be accounted for within the risk register. This includes the appraisal for the preferred option.

Additional information on risk management may be obtained from the National Audit Office (NAO), HM Treasury and the Cabinet Office.

Action 24: plan project assurance and post project evaluation – strategy, framework and plans

Put in place the necessary arrangements for project assurance and post evaluation.

Project Assurance

Project assurance provides independent and impartial assessment that the project's spending objectives can be delivered successfully and improves the prospects of achieving intended outcomes and benefits.

Specify the project assurance arrangements for the scheme, which may include: quality assurance; technical assurance; security assurance.

Any national standards should be applied.

Review points are recommended in the guidance for the consideration of the project team.

Post project evaluation strategy

The purpose of post project evaluation (PPE) is twofold:

- to improve project delivery through lessons learnt during the project delivery phase. This is often referred to as the "project implementation review" (PIR)
- to appraise whether the project has delivered its anticipated outcomes and benefits. This is often referred to as the "post evaluation review" (PER).

This section of the OBC should set out the organisation's strategy for both aspects of post project evaluation (PPE) and explain whether the project implementation review (PIR) and post evaluation review (PER) are to be undertaken jointly or separately.

Post Project Evaluation framework

This section should outline management arrangements for ensuring that post project evaluation (PPE) takes place.

Post Project Evaluation plans

This section should set out the expected timing(s) for post project evaluation (PPE). These arrangements should be included in the project plan with named individuals responsible for their delivery.

Workshop 5 – Successful Delivery Arrangements

At least one workshop is recommended for the completion of the management case section of the OBC, so that the key stakeholders are engaged early on, can challenge and assist to shape the direction of the project.

The purpose, objectives, key participants and outputs of this workshop are as follows:

Workshop 5	Putting in place arrangements for successful delivery
Objectives	<input type="checkbox"/> To develop strategies, frameworks and plans for: <ul style="list-style-type: none"> <input type="radio"/> project management <input type="radio"/> change and contact management <input type="radio"/> benefits realisation and risk management <input type="radio"/> project assurance and evaluation <input type="checkbox"/> To agree the project delivery plan.
Key participants	<input type="checkbox"/> External stakeholders or commissioners <input type="checkbox"/> Director of Finance <input type="checkbox"/> Commercial Director <input type="checkbox"/> Economic adviser <input type="checkbox"/> Customer and/or user representatives <input type="checkbox"/> Project manager <input type="checkbox"/> Facilitator
Outputs	<input type="checkbox"/> Management and delivery arrangements <input type="checkbox"/> Project assurance arrangements <input type="checkbox"/> Post project evaluation arrangements

Checklist for step 7

There should now be clear understanding of the:

- project management and governance arrangements
- project plan
- change management arrangements
- benefits realisation arrangements, including an attached benefits register
- risk management arrangements, including an attached risk register
- project assurance arrangements
- post project evaluation arrangements.

Output from step 7

The management case section of the Outline Business Case is now complete and must be kept under review.

Outcome of stage 2 and the preparation of the OBC

The OBC has now been completed for the approval of senior management and the approving authority.

Management considerations include:

- undertaking project assurance to confirm the delivery strategy for the project
- approving the OBC and agreeing to the next stage: the development of the FBC, prior to procurement
- modifying the scope of the project and including further options
- undertaking a full study to test further key assumptions
- postponing or abandoning the project, because it is considered either too expensive, too ambitious or too high risk.

7

Procuring the proposal and preparing the Full Business Case (FBC)

Introduction

The purpose of the FBC is to:

- identify the market place opportunity which offers optimum VFM
- set out the commercial and contractual arrangements for the negotiated Deal
- confirm the Deal is still affordable
- put in place the detailed management arrangements for the successful delivery, monitoring and evaluation of the scheme.

Much of the work involved in producing the FBC focuses upon revisiting and updating the conclusions of the OBC and documenting the outcomes of the procurement.

Step 8: procuring the VFM solution

This step involves revisiting and updating the strategic case and economic case dimensions of the business case to confirm the current situation in terms of the case for change and the continued efficacy of the preferred option following the procurement exercise.

The main actions are set out below:

Step 8	Procuring the VFM solution
Action 25	Revisit the case for change
Action 26	Revisit the OBC options
Action 27	Detail procurement process and evaluation of best and final offers (BAFOs)

Action 25: revisit the case for change

Revisit the case for change, because the rationale for the project may have altered since the OBC was approved, due to evolving business needs and changing service requirements.

Updating the strategic case

Confirm that the case for change remains as set out in the OBC. Additional business needs and requirements that have arisen since the submission and approval of the OBC will require the case for change to be revisited and updated.

Ensure the spending objectives have been made SMART for the purpose of post evaluation and updated to reflect the latest information regarding the rationale, drivers, anticipated outcomes and benefits for the project.

Attach further confirmation of the organisation's commissioners and other key stakeholders, if applicable.

Action 26: revisit the OBC options

Confirm that the options identified in the OBC economic case are still valid and their rankings remain the same.

The purpose of this action is evidence that the preferred option remains the same as that identified at the OBC stage. Any new options must be clearly identified and any adjustments to existing options explained.

Revisiting the OBC options

Confirm that the conclusions of the OBC appraisal still remain valid at FBC stage.

The analysis from the OBC stage must be updated in the FBC because new information affecting the ranking of the options may have become available since the approval of the OBC.

For example:

- the relative rankings may have changed as a result of supplier side offerings, prices and other costs
- the expected benefits of the OBC preferred option may be lower, or the anticipated benefits of another option higher, which may change the previous ranking of the options
- the level of uncertainty in a high risk option may have reduced making it more attractive
- operational changes may have led to significant changes in the preferred option.

If any of the key assumptions have altered, the FBC must demonstrate that the recommended option continues to offer better public value than the other available options, including the "do minimum" (if applicable).

Revisiting the procurement method

Confirm that the project has been procured by the most appropriate method.

At the OBC stage different methods of funding and procurement were examined. If the OBC recommended that some form of private finance was deliverable and potentially offered better value for money (VFM) than conventional funding, a privately financed option may have been pursued. At the FBC stage, any private finance offer must be appraised against the public sector comparator (PSC) and "do minimum" options outlined in the OBC to confirm value for money (VFM).

The principles of appraisal are the same as those used to identify the preferred option at OBC stage.

The Public Sector Comparator (PSC)

Refine the PSC before undertaking any further appraisal to reflect knowledge gained from the procurement. This is to enable 'a like for like' comparison of the cost of providing services in-house with the service providers' solutions on an outsourced or privately financed basis.

Revisions to the PSC should avoid mimicking any design, engineering or operational attributes offered by service providers during the procurement phase and focus on ensuring that scope of the required outputs required remains consistent so as to enable meaningful comparisons to be made.

It should not be necessary to adjust the 'do minimum' option at this stage.

Risk adjustment

Revisit the 'cost of risk' retained by the public sector, as calculated within the PSC outlined at the OBC stage.

This is a minimum requirement that should also be undertaken for the risk values of the business as usual (BAU) and 'do minimum' options, depending on which was carried forward as the benchmark for VFM in the short-listed options appraisal.

The main service risks in the design, build, funding and operational phases of the project should be fully identified and quantified at the FBC stage. The residual use of optimism bias to measure continued uncertainties should be minimal and generally no more than 2% for a standard capital scheme (step 4, action 13 refers).

Action 27: detail the procurement process and the evaluation of best and final offers (BAFOs)

Update the economic case to provide a summary of the procurement process and how the "best and final offers" (BAFOs) were evaluated and the preferred bidder selected.

The purpose of this action is to evidence that the recommended service provider offers the "most economically advantageous offer", in relation to other service providers, and that the option offering best public value.

The procurement process

Confirm the procurement strategy, route and evaluation criteria were followed as set out in the OBC and explain any changes.

List the service providers:

- who expressed interest at the pre-qualification and the reasons for any rejections
- who were taken forward into the "long list" and "short list" (Best and Final Offer (BAFO)) stages of the procurement and the reasons for any rejections

Record the preferred service provider(s) together with the reasons for their selection.

A copy of the procurement report may be attached to the FBC for this purpose.

FBC economic appraisals

Prepare economic appraisals for each of the "short listed" service providers at the Best and Final Offer (BAFO) stage of the procurement, in accordance with the guidance provided for economic appraisals at the OBC stage of the business case.

The economic appraisals must account for the full cost of the scheme, including any “attributable” costs falling to the organisation and other parts of the public and private sectors over the contractual and expected life span of the service. This is required because different service providers offer different levels of service provision, leading to different levels of cost, including risk, and benefit falling to the public sector.

The recommended option should then be appraised against the business as usual (BAU), “do minimum” and PSC and other in-house options, as required, taking into account any adjustments made as a result of earlier action 26 (revisit the OBC options), the further assessment of non-financial benefits and risks and sensitivity analysis.

The option offering best public value should be the choice recommended for the approval, subject to affordability.

Post FBC approval prior to contract signature

The FBC must be re-submitted for approval if the costs, benefits or contract terms vary significantly post FBC approval.

The relevant thresholds should be stipulated by the approving authority.

Checklist for step 8

There should now be a clear understanding of:

- any changes to the strategic context and the case for change
- the procurement process and service providers’ offerings
- how the selection of the preferred service provider was made on the basis of an updated PSC (if applicable) and the investment appraisals, including the benchmark for VFM.

Output of step 8

The strategic and economic cases have now been revisited, updated and completed in respect of the FBC.

Step 9: contracting for the deal

Introduction

This step involves revisiting and updating the commercial case dimension of the business case to reflect the negotiated Deal and its financial consequences over the life span of the contract and service.

The main actions are set out below:

Step 9	Contracting for the deal
Action 28	Set out the negotiated deal and contractual arrangements
Action 29	Set out the financial implications of the deal

Action 28: set out the negotiated deal and contractual arrangements

Document the Deal that has been negotiated by the public sector organisation and its choice of service provider.

The standard headings for the commercial case should be used to explain:

- the service streams and outputs which are being contracted
- the implementation timescales which have been agreed for their delivery
- the allocation of risk negotiated between the public sector and preferred service provider
- the underpinning method of payment for these services and outputs, including the premiums for risk transfer
- the type of contract used and the key contractual issues – a copy of the proposed contract should be attached to the FBC.
- the accountancy treatment of the negotiated deal, with confirmation from the organisation's external auditors, as required.
- a detailed explanation of any personnel implications.

Action 29: set out the financial implications of the deal

Confirm the affordability of the negotiated Deal.

The standard headings for the financial case should be used to explain:

- how the charges for the preferred service provider's offer have been modelled, including the resultant benefits
- the capital and revenue implications of the resultant deal, including any financial costs falling to the organisation
- the net effect on the organisation's charges (prices) – if any

- the impact on the organisation's income and expenditure account and balance sheet – duly confirmed by the external auditor
- the overall affordability and funding arrangements for the deal, including (written) confirmation from the organisation's commissioners and other key stakeholders and any contingency arrangements for over spends.

Checklist for step 9

There should now be a clear understanding of the financial implications of the proposed deal, both in terms of the organisation's contractual obligations and associated spend in support of the required services.

Output of step 9

The commercial and financial cases have now been revisited, updated and completed in respect of the FBC.

Step 10: ensuring successful delivery

Introduction

This step requires revisiting and updating the management dimension of the business case to record the detailed management arrangements that have been put in place to ensure the successful delivery and evaluation of the project.

The main actions are as follows:

Step 10	Ensuring successful delivery
Action 30	Finalise project management arrangements and plans
Action 31	Finalise change management arrangements and plans
Action 32	Finalise benefits realisation arrangements and plans
Action 33	Finalise risk management arrangements and plans
Action 34	Finalise contract management arrangements and plans
Action 35	Finalise post project evaluation arrangements and plans

Action 30: finalise project management arrangements and plans

Revisit the project management arrangements and plans that were outlined in the OBC and explain what has been agreed and finalised for the successful delivery of the project in accordance with best practice.

The project management strategy should be revisited and updated, as required.

The existing framework (project structure, reporting lines, roles and responsibilities) should be shown, together with named individuals, any vacancies and plans for any future changes.

The latest version of the project plan should be attached to the FBC. This must reflect the implementation timescales agreed with the service provider for the delivery of the negotiated services and be signed off by the stakeholders and customers (end users) for the services.

Action 31: finalise change management arrangements and plans

Revisit the change management arrangements and plans that were outlined in the OBC and explain what has been agreed and finalised for the successful delivery of the project in accordance with best practice.

The change management strategy should be revisited and updated, as required.

The existing framework (project structure, reporting lines, roles and responsibilities) should be shown, together with named individuals, any vacancies and any plans for future changes.

The latest version of the change management plan should be attached to the FBC. This must reflect the specific training and developmental needs of key groups of personnel and any required communication arrangements. It should be signed off by the stakeholders for the services and indicate customer (end-user) involvement.

Action 32: finalise benefits realisation arrangements and plans

Revisit the benefits realisation arrangements and plans that were outlined in the OBC and explain what has been agreed and finalised for the successful delivery of the project in accordance with best practice.

The strategy for the realisation of benefits during the key phases of the project should be revisited and re-affirmed within the FBC.

The existing framework (project structure, reporting lines, roles and responsibilities) should be shown, together with named individuals, any vacancies and any plans for future changes.

The benefits register

The organisation's plan for the ongoing management and delivery of benefits should be captured within the benefits register, which must be completed in full and attached to the FBC. It should cover all the benefits – financial, non-financial and qualitative – identified during the implementation and operational phases of the project.

The 'owner' of the benefits register should be named and their reporting line(s) identified to senior management, who are ultimately responsible for their delivery. It should also be confirmed that the benefits register will be reviewed regularly and form part of the standing agenda for future meetings of the project board.

Action 33: finalise risk management arrangements and plans

Revisit the risk management arrangements and plans that were outlined in the OBC and explain what has been agreed and finalised for the successful delivery of the project in accordance with best practice.

The strategy for the management of risks during the key phases of the project should be revisited and re-affirmed within the FBC.

The existing framework (project structure, reporting lines, roles and responsibilities) should be shown, together with named individuals, any vacancies and any plans for future changes.

The risk register

The organisation's plan for the ongoing mitigation and management of risk should be encapsulated within the risk register, which must be completed in full and attached to the FBC. The register should cover all the business and service risks identified during the design, build, implementation, operational and re-procurement phase (if applicable) of the project.

The 'owner' of the risk register should be named and their reporting line(s) to senior management identified. It should also be confirmed that the risk register will be reviewed regularly and form part of the standing agenda for future meetings of the Project Board.

Contingency plan

The organisation should provide details of its contingency plan(s) in the event of the non-delivery of the contracted services to the required level of performance and availability at some unspecified future point in time.

Action 34: finalise contract management arrangements and plans

Record the contract management and plans that have been agreed and finalised for the successful management of the service in accordance with best practice. This should include both the formal and informal arrangements that have been put in place for the strategic and operational management of the contract.

Contract change

The more mundane contract management arrangements will have been covered in the contract and indicated in the commercial case (see contractual arrangements). These largely take care of the day-to-day management of the service – performance; availability; minor changes; the escalation procedure for difficulties etc.

However, over the life span of the service contract it is likely that there will be some significant changes given that it is in the nature of a successful organisation to anticipate and adapt to meet changing circumstances.

In accordance with the ‘partnering’ principle, the organisation should consider its strategy for managing future contractual change. Best practice suggests regular face-to-face meetings between senior managers from both the customer and supplier organisations and dealing with change in the context of a ‘shared vision’. This helps to manage expectations on both sides and to reduce eventual cost.

The organisation should consider who will adopt this role over the life span of the contract and plan accordingly. Any arrangements should be noted in the FBC.

Action 35: finalise post project evaluation arrangements and plans

Revisit the post project evaluation arrangements and plans that were outlined in the OBC and explain what has been agreed and finalised for the successful delivery of the project in accordance with best practice.

Checklist for step 10

There should now be a clear understanding of:

- how the project will be managed
- how change within the organisation will be implemented
- how the benefits will be realised
- how the business and service risks will be mitigated and managed
- how major contract change will be handled over the longer term
- how the project will be reviewed periodically
- the contingency plans in the event of service failure.

Output of step 10

The management case has now been revisited, updated and completed in respect of the FBC.

Outcome from Stage 3 and preparation of the FBC

Consideration should be given to undertaking project assurance to confirm the investment decision.

All parties should now be content for the project to proceed to contract signature, providing the above work has been completed satisfactorily and the resultant scheme is affordable.

The FBC must be re-submitted for approval if the costs, benefits or contract terms vary significantly post FBC approval. The approving authority should stipulate the relevant thresholds as a condition of approval.

8

Reviewing the Business Case: SOC, OBC and FBC

Introduction

This chapter provides some basic criteria for the review of the business case at its key stages of development: SOC, OBC and FBC.

The Strategic Outline Case

The key purpose of the SOC is to:

- establish the strategic context for the spending proposal
- evidence the case for change
- establish the preferred way forward

Key Review Criteria	Main evidence Required
Strategic case 1. Is the proposed scheme an integral part of the organisation's business strategy?	<input type="checkbox"/> Extracts from business and other relevant strategies <input type="checkbox"/> Reference to relevant government and organisational policies
2. Is the proposed scheme sufficiently large and stand alone to form a project or could it be more sensibly be undertaken as part of another programme or project?	<input type="checkbox"/> Relevant extracts from business and other strategies <input type="checkbox"/> Reference to scoping documentation <input type="checkbox"/> Relevant extracts from strategy board minutes
3. Are the spending objectives and underpinning business needs defined clearly and supported by the key stakeholders and customers?	<input type="checkbox"/> SMART spending objectives <input type="checkbox"/> Evidence of stakeholder and customer involvement and support
4. Is the scope for potential change to current services and business processes clearly defined?	<input type="checkbox"/> Clear statement of business outcomes and service outputs <input type="checkbox"/> Statement of any security and confidentiality issues
5. Have the main benefits been clearly defined by key stakeholders and customers, alongside arrangements for their realisation?	<input type="checkbox"/> Outline of benefits realisation plan <input type="checkbox"/> Direct and indirect to the organisation and wider public sector <input type="checkbox"/> Cash and non-cash-releasing <input type="checkbox"/> Ranking of benefits by key stakeholder
6. Have the main risks been identified, alongside arrangements for their management and control?	<input type="checkbox"/> Outline of risk management strategy Business risks <input type="checkbox"/> Service risks <input type="checkbox"/> Likely probabilities and impact (high, medium or low)
7. Have the key organisational constraints and business dependencies been identified?	<input type="checkbox"/> Evidence of critical path <input type="checkbox"/> Related programmes and projects <input type="checkbox"/> Assessment of internal and external constraints

Key Review Criteria	Main evidence Required
<p>Economic case</p> <p>8. Have the CSFs for options appraisal been identified?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Prioritised CSFs (high, medium or low) <input type="checkbox"/> Relevant performance measures
<p>9. Has a sufficiently wide range of options been identified and assessed within the long list?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Use of a feasibility study <input type="checkbox"/> 10 to 12 main options – full description <input type="checkbox"/> Use of the options framework filter for <ul style="list-style-type: none"> <input type="radio"/> potential scopes <input type="radio"/> potential solutions <input type="radio"/> methods of service delivery <input type="radio"/> implementation <input type="radio"/> funding sources.
<p>10. Has a preferred way forward been identified following robust analysis of the available options?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> SWOT analysis of options against: <ul style="list-style-type: none"> <input type="radio"/> spending objectives <input type="radio"/> critical success factors <input type="radio"/> benefits criteria <input type="radio"/> evidence of likely support from key stakeholders
<p>11. Has a short list with indicative net present social values been prepared for further examination and appraisal?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Minimum of three to four options, including: <ul style="list-style-type: none"> <input type="radio"/> Business as usual (BAU) <input type="radio"/> Preferred way forward <input type="radio"/> Do Minimum (if different) <input type="radio"/> Public Sector Comparator (if required)
<p>Commercial case</p> <p>12. Has a high-level assessment of the potential deal and its likely acceptability to the supply side been undertaken?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Description of potential deal <input type="checkbox"/> Market soundings <input type="checkbox"/> Existing service providers
<p>Financial case</p> <p>13. Has a high-level assessment of affordability and source(s) of required funding been undertaken?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Indicative costs <input type="checkbox"/> Likely sources or organisational funding
<p>Management case</p> <p>14. Has a high-level assessment of the achievability and deliverability of the project been undertaken?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Indicative time-scales <input type="checkbox"/> Use of special advisers <input type="checkbox"/> Feasibility study <input type="checkbox"/> Peer review
<p>15. Are all the necessary arrangements in place for the successful completion of the next phase?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Outline Programme and Project Board and reporting arrangements <input type="checkbox"/> Project manager and team <input type="checkbox"/> Project plan and agree deliverables <input type="checkbox"/> Budget allocation and resources

The Outline Business Case

The key purpose of the OBC is to:

- revisit the SOC assumptions and main findings
- establish the preferred option
- put in place the arrangements for the procurement of the scheme

Key review criteria	Main evidence required
Strategic Case 1. Are the SOC spending objectives and planning assumptions still valid?	<input type="checkbox"/> Are they set at an appropriate level and SMART: <ul style="list-style-type: none"> <input type="radio"/> specific <input type="radio"/> measurable <input type="radio"/> achievable <input type="radio"/> relevant <input type="radio"/> timely <input type="checkbox"/> Still supported by stakeholders and customers
2. Do the services to be procured in the SOC still provide best fit in relation to organisational needs?	<input type="checkbox"/> Organisational context <input type="checkbox"/> Existing and future changes in needs <input type="checkbox"/> Expected changes in volumes and mix of services <input type="checkbox"/> Other existing, planned or possible services <input type="checkbox"/> Security and confidentiality issues
3. Have any outstanding differences at SOC stage between stakeholders and customers been satisfactorily resolved?	<input type="checkbox"/> Continued stakeholder commitment and involvement <input type="checkbox"/> Communication strategy
4. Has the assessment of likely benefits, risks, constraints and dependencies in the SOC been revisited and examined in further detail?	<input type="checkbox"/> Updated benefits criteria – benefits study <input type="checkbox"/> Updated risk assessment – risk study <input type="checkbox"/> Ongoing assessment – business strategies and plans
Economic case 5. Were the long-listed options in the SOC revisited and subjected to further scrutiny?	<input type="checkbox"/> <input type="checkbox"/> New options <input type="checkbox"/> CSFs revisited <input type="checkbox"/> Options ranked, weighted and scored
6. Were the short-listed options in the SOC revisited and subjected to robust analysis?	<input type="checkbox"/> Economic appraisals for shortlisted options, including: <ul style="list-style-type: none"> <input type="radio"/> do nothing or do minimum <input type="radio"/> PSC <input type="radio"/> PFI (PPP) solution(s) <input type="checkbox"/> Use of appropriate tools: <ul style="list-style-type: none"> <input type="radio"/> Cost Benefit Analysis (CBA) <input type="radio"/> sensitivity analysis <input type="radio"/> risk quantification
7. Has the PSC been constructed and assessed in accordance with HM Treasury guidance?	<input type="checkbox"/> Realistic solution capable of implementation <input type="checkbox"/> Risks identified, apportioned and measured for all project stages: <ul style="list-style-type: none"> <input type="radio"/> design <input type="radio"/> build <input type="radio"/> finance <input type="radio"/> operate <input type="checkbox"/> PFI (PPP) costs, where available

Key review criteria	Main evidence required
8. Does the preferred option provide best public value?	<input type="checkbox"/> Rigorous use of investment appraisal tools and techniques <input type="checkbox"/> All assumptions recorded <input type="checkbox"/> Achievable benefits streams <input type="checkbox"/> Stakeholders and customers support
Commercial Case 9. Has the procurement strategy for the successful delivery of the required services been considered and prepared in sufficient detail?	<input type="checkbox"/> Consideration of procurement options including: <ul style="list-style-type: none"> <input type="radio"/> procurement routes <input type="radio"/> use of preferred bidder <input type="radio"/> evaluation criteria <input type="radio"/> negotiation strategy <input type="radio"/> procurement plan and timetable
10. Is there sufficient scope for a potential deal, which meets organisational needs while offering best VFM?	<input type="checkbox"/> Potential for innovation within the provision of services and solutions <input type="checkbox"/> Potential for risk transfer in Design, Build, Finance, Operate stages <input type="checkbox"/> Potential for new business and alternative revenue streams <input type="checkbox"/> Likely contract length
11. Has the potential deal been considered in sufficient detail? The how rather than what .	<input type="checkbox"/> Preparation of Outline Based Specification (OBS) <input type="checkbox"/> core, desirable and optional services <input type="checkbox"/> delivery time-scales (phased improvements etc.) <input type="checkbox"/> potential payment mechanisms <input type="checkbox"/> ownership of residual assets <input type="checkbox"/> service levels and performance measures
12. Is there a clear understanding of the business change agenda?	<input type="checkbox"/> Change management plans <input type="checkbox"/> Proposed mechanisms and milestones <input type="checkbox"/> Assessment of personnel implications
13. Is the potential deal still likely to be acceptable and bankable within the private sector?	<input type="checkbox"/> Market research and surveys <input type="checkbox"/> Use of standard contractual terms and conditions <input type="checkbox"/> Benchmarks – similar projects
Financial case 14. Is the solution still likely to be affordable?	<input type="checkbox"/> Financial appraisals for preferred option, including full assessment of: <ul style="list-style-type: none"> <input type="radio"/> capital and current requirements <input type="radio"/> net effective on prices <input type="radio"/> balance sheet impact <input type="radio"/> income and expenditure account <input type="radio"/> stakeholder and customers agreement

Key review criteria	Main evidence required
<p>Management case</p> <p>15. Are all the necessary arrangements in place for the successful completion of the next phase?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Programme Methodology <input type="checkbox"/> Project methodology <ul style="list-style-type: none"> <input type="radio"/> project board and structure <input type="radio"/> project manager and team <input type="radio"/> project plan <input type="radio"/> project resources and budget <input type="radio"/> reporting mechanisms <input type="checkbox"/> Use of external advisers <ul style="list-style-type: none"> <input type="radio"/> legal <input type="radio"/> financial <input type="radio"/> other <input type="checkbox"/> Outline arrangements for: <ul style="list-style-type: none"> <input type="radio"/> benefits study and realisation plan <input type="radio"/> risk management strategy and plan <input type="radio"/> change management strategy and plan <input type="radio"/> contract management <input type="checkbox"/> Arrangements for evaluation: <ul style="list-style-type: none"> <input type="radio"/> Project assurance & peer reviews <input type="radio"/> project implementation reviews <input type="radio"/> post-evaluation reviews <input type="checkbox"/> Contingency plans

The Full Business Case

The key purpose of the FBC is to:

- revisit the assumptions and main finding of the OBC
- evidence that the most economically advantageous tender (MEAT) for the project
- establish that the management arrangements for successful delivery are in place.

Key review criteria	Main evidence required
Strategic Case 1. Does the recommended deal still provide synergy and best fit with other parts of the organisation's business strategy?	<input type="checkbox"/> Notification of any changes during negotiations <input type="checkbox"/> Ongoing evaluation of business strategies and plans
Strategic fit 2. Does the recommended deal still satisfy OBC investment objectives and business needs?	<input type="checkbox"/> SMART spending objectives (revisited) <input type="checkbox"/> Notification of any changes during negotiations <input type="checkbox"/> Written confirmation of agreement on part of stakeholders and customers
3. Does the recommended deal still provide all of the required services – both current and future?	<input type="checkbox"/> Clear statement of service requirements and outputs <input type="checkbox"/> Change control arrangements <input type="checkbox"/> Notification of any changes during negotiations <ul style="list-style-type: none"> <input type="radio"/> additional services <input type="radio"/> agreement of stakeholders and users <input type="radio"/> business justification and CBA
Economic case 4. Was a wide range of bids received from service providers in response to OJEC?	<input type="checkbox"/> Assessment of earlier assumptions <input type="checkbox"/> Use of evaluation criteria <ul style="list-style-type: none"> <input type="radio"/> long list of suppliers <input type="radio"/> short list of suppliers <input type="checkbox"/> Description of each bid received at best and final offer (BAFO) <input type="checkbox"/> Method of treatment for varying bids <input type="checkbox"/> Basis for selection of preferred bidder (if applicable)
5. Was the most economically advantageous offer selected?	<input type="checkbox"/> Preparation and assessment of economic appraisals for: <ul style="list-style-type: none"> <input type="radio"/> do nothing/do minimum <input type="radio"/> revised PSC <input type="radio"/> best and final offers and/or <input type="radio"/> preferred bidder (if selected) <input type="checkbox"/> Use of appropriate tools: <ul style="list-style-type: none"> <input type="radio"/> sensitivity analysis <input type="radio"/> risk quantification <input type="radio"/> evaluation of qualitative benefits <input type="radio"/> Use of CBA.
Commercial Case 6. Was the procurement undertaken in accordance with the appropriate procurement legislation?	<input type="checkbox"/> Overview of procurement process <ul style="list-style-type: none"> <input type="radio"/> Deviations from procurement strategy <input type="radio"/> Use of legal and procurement advice (internal and external advisers)

Key review criteria	Main evidence required
7. Can the selected service provider deliver the required deliverables and services?	<input type="checkbox"/> Outline of the agreed deal <ul style="list-style-type: none"> <input type="radio"/> services – current and future <input type="radio"/> delivery time-scales <input type="radio"/> design <input type="radio"/> build <input type="radio"/> operate <input type="radio"/> payment mechanisms <input type="radio"/> performance and availability <input type="radio"/> volume and usage <input type="radio"/> incentives <input type="radio"/> future change <input type="radio"/> new business and alternative revenue streams <input type="radio"/> ownership of residual assets <input type="radio"/> service levels and performance measures <input type="checkbox"/> Business, technical and cultural fit – track record
8. Have negotiations resulted in a robust and legally enforceable contract?	<input type="checkbox"/> Use of specialist adviser(s) <input type="checkbox"/> Use of standard terms and conditions <input type="checkbox"/> Key contractual terms agreed
9. How will business and service change be delivered and implemented successfully over the lifespan of the contract period?	<input type="checkbox"/> Assessment of known and expected change <input type="checkbox"/> Formula for handling unexpected change <ul style="list-style-type: none"> <input type="radio"/> benchmarking <input type="radio"/> market testing arrangements
Financial case 10. Is the proposed investment still affordable?	<input type="checkbox"/> Financial appraisals for recommended deal, including full assessment of: <ul style="list-style-type: none"> <input type="radio"/> capital and current requirements <input type="radio"/> net effect on prices <input type="radio"/> impact on the balance sheet <input type="radio"/> income and expenditure account <input type="checkbox"/> Stakeholder and customers agreement <input type="checkbox"/> Confirmation of finance directorate
Management case 11. Have the business and cultural implications of the intended service been fully understood and taken into account?	<input type="checkbox"/> Agreed programmes for: <ul style="list-style-type: none"> <input type="radio"/> change management <input type="radio"/> business process re-engineering <input type="checkbox"/> Staff-side representation <input type="checkbox"/> Personnel implications
12. Are all the arrangements in place for the successful implementation and delivery of the required services?	<input type="checkbox"/> Contract management strategy, including disputes resolution procedures <input type="checkbox"/> Skilled contract management team <input type="checkbox"/> Agreed schedules for service streams and outputs
13. How will the benefits be delivered and associated business and service risks managed throughout the lifespan of the service?	<input type="checkbox"/> Detailed benefits realisation plan <input type="checkbox"/> Robust risk management strategy <input type="checkbox"/> Monitoring and reporting arrangements- registers and regular audits
14. Are all the necessary arrangements in place for post-project evaluation?	<input type="checkbox"/> Agreed arrangements for evaluation: <ul style="list-style-type: none"> <input type="radio"/> peer reviews <input type="radio"/> OGC gateway reviews (if required) <input type="radio"/> project implementation reviews <input type="radio"/> post-evaluation reviews

Key review criteria	Main evidence required
15. Are contingency plans in place should the recommended deal fail at any stage?	<input type="checkbox"/> Contingency plans <input type="checkbox"/> Arrangements for regular review

Annex A: Case Study showing the relationship between strategy, project and projects

	Organisational Strategy	Programme	Project
Purpose and focus	To deliver the vision, mission and long term objectives of the organisation, typically involving transformational service change. National Strategy for Improving Pre 16 year old Educational Attainment	To deliver medium term objectives for change, typically involving improved quality and efficiency of service. Improving School Buildings Programme	To deliver short-term objectives, typically involving improved economy of service & enabling infrastructure Regional School Improvement Project A
Scope and content	Strategic portfolio comprising the required programmes on the critical path for delivery of required benefits . Improving Schools Building Programme Review of Pre 16 Curriculum Programme School Teachers Training Programme	Programme portfolio comprising the required projects and activities on the critical path for delivery of anticipated outcomes . Regional School Improvement Project A Regional School Improvement Project B Regional School Improvement Project C	Project comprising the products and activities required for delivery of the agreed output . Work streams: School building refurbishment New equipment Upgrading & Replacement IT
Product	Organisational Strategy and business plans	Programme Business Case (PBC)	SOC, OBC and FBC for large projects BJC for smaller schemes
Monitoring, evaluation and feedback	10 year strategy Review at least annually and update as required	7 year programme Evaluate on completion of each tranche and feedback into strategy development.	2 year project Evaluate on completion of project and feedback to project

Annex B: Overview of how to develop the Project Business Case

A typical process for developing the Project Business Case could be as follows:

1. Ensure the mandate and brief for the project have been completed.
2. Undertake the Strategic Assessment.
3. Draft the Scoping Document for the Project Business Case and arrange a meeting with the business case reviewer/ approver to agree the content, governance, reporting, assurance and approval arrangements.
4. Commence the Strategic Outline Case (SOC).
 - Prepare the strategic case section following completion of Workshop 1 (Determining the Case for Change).
 - Prepare the economic case section following Workshop 2 (Appraising the Long list)
 - Provide an overview of the commercial, financial and management case sections.
5. Undertake project assurance 1 (focus: business justification)
6. Submit the Strategic Outline Case (SOC) for approval
7. Commence the Outline Business Case (OBC)
 - Revisit the case for change
 - Revisit the economic case section following Workshop 3 (Appraising the Short list)
 - Prepare the Commercial Case following Workshop 4 (Developing the Deals)
 - Prepare the financial case section with the Finance Directorate
 - Prepare the Management Case following Workshop 5 (Successful Delivery Arrangements).
8. Undertake project assurance 2 (focus: delivery strategy)
9. Submit the Outline Business Case (OBC) for approval.
10. Following procurement, prepare the Full Business Case (FBC)
 - Revisit OBC assumptions for the five cases
 - Update the economic appraisals to reflect best and final offers (BAFOs)
 - Select the most economically advantageous tender (MEAT)
11. Undertake project assurance 3 (focus: investment decision)
12. Submit the Full Business Case (FBC) for approval.

13. Monitor project delivery and undertake a project assurance 4 (readiness for service) prior to going live.
14. Use the Full Business Case (FBC) to support post evaluation and benefit realisation.
15. Undertake project assurance 5 (focus: operations review and benefits realisation) – actions 14 and 15 may be combined.
16. Feedback findings into the strategic planning cycle.

The above process and level of effort will vary depending on the nature of the organisation, the decision being sought and the expectations agreed in the Scoping Document.

Annex C: Project Scoping Document

This document should be completed by the Project/Project Manager and the Approving Authority prior to preparing the business case.

Organisation/ Department	
Proposal Title	
Sponsor/Senior Responsible Owner	

Date	Version	Revision History	Document Reviewer

The business case process is scalable and should be used proportionately. The purpose of this document is to agree the nature, type and content of the business case required.

Nature of the proposed spend	
Anticipated spend £	
Anticipated procurement route	
Agreed type of Business Case:	Programme Business Case (PBC) Project Business Case (SOC/OBC/FBC) BJC

The anticipated coverage of the Business Case should be agreed between the Project/Project (Business Case Authors) and Approving Authority in order to calibrate the analysis required and assist the business case review and approvals process.

	Potential considerations
Strategic Case	<input type="checkbox"/> Mandate and brief for the project <input type="checkbox"/> Requirement for feasibility study <input type="checkbox"/> Priority within the strategic portfolio <input type="checkbox"/> Critical path for project delivery. <input type="checkbox"/> Relationship to the programme and other projects (if applicable). <input type="checkbox"/> Potential constraints and dependencies <input type="checkbox"/> Workshop 1 attendees
Economic Case	<input type="checkbox"/> CBA or CEA <input type="checkbox"/> Use of optimism bias and risk measurement <input type="checkbox"/> Risk identification and appraisal <input type="checkbox"/> Benefits identification and appraisal <input type="checkbox"/> Workshops 2 and 3 attendees
Commercial Case	<input type="checkbox"/> Commercial strategy for organisation <input type="checkbox"/> Commercial and procurement strategies for the project <input type="checkbox"/> Potential procurement route <input type="checkbox"/> Workshop 4 attendees

	Potential considerations
Financial Case	<input type="checkbox"/> Requirement for initial funding of the scheme <input type="checkbox"/> Available budget for the scheme <input type="checkbox"/> Likely balance sheet treatment
Management Case	<input type="checkbox"/> Business case development plan <input type="checkbox"/> Risk profile assessment (RPA) score <input type="checkbox"/> Project methodology <input type="checkbox"/> Project assurance requirements <input type="checkbox"/> Workshop 5 attendees
Business Case Development Plan	

Guidance, advice and support is available from the Better Business Case Team, Strategic Planning, Finance and Performance Directorate. Please indicate the nature of the support required:

Required Development	Please provide names and timescales.
Senior Management Briefing	For SRO's, Board Directors and Project/Project Boards
Foundation Course (Awareness)	For intelligent customers
Practitioner 1 Course (Skills)	For business case producers
Practitioner 2 Course (Skills)	For business case producers
Reviewers Course (Skills)	For business case reviewers
Consultancy Support	See Guidance for recommended Workshops

Completed by:
Programme/Project Representative:

Approving Authority's Representative

Date:

Date agreed for next Review: (if required)

Notes for the completion of the Business Case Scoping Document:

1. Type of Business Case Required:

This will be dependent upon the nature, anticipated spend, procurement route and the quality of the analysis already undertaken.

- a. A Project Business Case (PBC) should be prepared in support of related items of spend comprising of multiple schemes, both large and small.
- b. The iterative production of the Business Case (Strategic Outline Case (SOC), Outline Business Case (OBC) and Full Business Case (FBC) should be considered for larger, complex schemes requiring a competitive procurement.
- c. Consideration may be given to combining the SOC and OBC where the case for change has already been made and agreed as part of a Programme Business Case (PBC).
- d. Consideration may be given to combining the OBC and FBC where the intended procurement route has been pre-competed and firm prices are available in support of the spending proposal.
- e. A Business Justification Case (BJC) may be considered for smaller items of spend, which are NOT novel or contentious; within the organisational limit agreed for the use of single business cases (BJC); and can be procured from an existing pre-competed arrangement.
- f. An over-arching Programme Business Case (PBC) should be prepared in support of expenditure being approved through a series of project business cases.

2. Anticipated coverage of the Business Case

The table below provides an overview of some of the key considerations:

High	High Risk Small Scale Well defined Project Consideration of combined SOC/OBC or OBC/FBC (for pre-competed procurements) CBA/CEA for Economic Appraisals, inc. optimism bias Project assurance	High Risk Large Scale Well defined Project (PBC) Three stage project business case (SOC, OBC, FBC) CBA/CEA for Economic Appraisals, inc. optimism bias Project assurance – maximum	
Gate RPA			
Low	Low/Medium Risk Small Scale Defined Project Consideration of BJC for pre-competed procurements Proportionate CBA/CEA for Economic Appraisals Project assurance – proportionate	Low/Medium Risk Large Scale Well defined Project (PBC) Three stage project business case (SOC, OBC, FBC) CBA/CEA for Economic Appraisals, inc. optimism bias Project assurance	
	Small	£ million	Large
	Scale (Whole life costs)		

Annex D: Overview of steps and actions for the preparation of Project Business Cases

Stages	Development Process	Deliverables
Stage 0 –	Determining the strategic context	
Step 1 / Action 1	Ascertain strategic fit	Strategic context
<i>Output</i>	<i>Programme Business Case (PBC)</i>	
<i>Outcome</i>	<i>Strategic fit</i>	
<i>Review point</i>	<i>Programme assurance – strategic fit</i>	
Stage 1 – scoping	Preparing the Strategic Outline Case (SOC)	Strategic case
Step 2	Making the case for change	
Action 2	Agree strategic context	
Action 3	Determine spending objectives, existing arrangements and business needs	
Action 4	Determine potential business scope and service requirements	
Action 5	Determine benefits, risks, constraints and dependencies	
Step 3	Exploring the preferred way forward	Economic case – part 1
Action 6	Agree critical success factors (CSFs)	
Action 7	Determine long list options and SWOT analysis	
Action 8	Recommended preferred way forward	Outline commercial, financial and management cases
<i>Output</i>	<i>Strategic Outline Case (SOC)</i>	
<i>Outcome</i>	<i>Robust case for change</i>	
<i>Review point</i>	<i>Project assurance – business justification (1)</i>	
Phase 2 – Planning	Preparing the Outline Business Case (OBC)	
Step 4	Determining value for money (VFM)	Economic case – part 2
Action 9	Revisit SOC and determine short-list including reference project (outline PSC)	
Action 10	Prepare the economic appraisals for short-listed options	
Action 11	Undertake benefits appraisal	
Action 12	Undertake risk assessment/appraisal	
Action 13	Select preferred option and undertake sensitivity analysis	

Stages	Development Process	Deliverables
Step 5	Preparing for the potential deal	Commercial case
Action 14	Determine procurement strategy	
Action 15	Determine service streams and required outputs	
Action 16	Outline potential risk apportionment	
Action 17	Outline potential payment mechanisms	
Action 18	Ascertain contractual issues and accountancy treatment	
Step 6	Ascertaining affordability and funding requirement	Financial case
Action 19	Prepare financial model and financial appraisals.	
Step 7	Planning for successful delivery	Management case
Action 20	Plan project management – strategy, framework and outline plans	
Action 21	Plan change management – strategy, framework and outline plans	
Action 22	Plan benefits realisation – strategy, framework and outline plans	
Action 23	Plan risk management – strategy, framework and outline plans	
Action 24	Plan post project evaluation – strategy, framework and outline plans	
<i>Output</i>	<i>Outline Business Case</i>	
<i>Outcome</i>	<i>Planned procurement for VFM solution</i>	
<i>Review point</i>	<i>Project assurance – delivery strategy (2)</i>	
Phase 3 – procurement	Preparing the Full Business Case (FBC)	
Step 8	Procuring the VFM solution	Economic case
Action 25	Revisit the case for change	
Action 26	Revisit the OBC options, including the PSC	
Action 27	Detail procurement process and evaluation of best and final offers (BAFOs) (in £s)	
Step 9	Contracting for the deal	Commercial case
Action 28	Set out the negotiated deal and contractual arrangements	
Action 29	Set out the financial implications of the deal	Financial case
Step 10	Ensuring successful delivery	Management case
Action 30	Finalise project management arrangements and plans	
Action 31	Finalise change management arrangements and plans	
Action 32	Finalise benefits realisation arrangements and plans	
Action 33	Finalise risk management arrangements and plans	
Action 34	Finalise contract management arrangements and plans	
Action 35	Finalise post project evaluation arrangements and plans	
<i>Output</i>	<i>Full Business Case</i>	
<i>Outcome</i>	<i>Recommended service provider and solution</i>	
<i>Review point</i>	<i>Project assurance – investment decision (3)</i>	

Glossary

Additionality	An impact arising from an intervention, which is additional if it would not have occurred in the absence of the intervention.
Affordability	An assessment of whether the proposals can be paid for in terms of cash flows and resource costs – see financial case
Appraisal	The process of defining objectives, examining options and weighing up the costs, benefits, risks and uncertainties of those options before a decision is made.
Assessments	Either an appraisal or an evaluation (or both).
Base case	The best estimate of how much a proposal option will cost in economic terms, including an allowance for risk and optimism.
Business as usual (BAU) option	The cost of the Business as usual (BAU) provides a benchmark for comparing proposal options for intervention.
Business case	A management tool for scoping, planning and evaluating a proposal and repository for the evidence base.
Business Justification Case (BJC)	A single stage business case, using the five case model, for the delivery of relatively low level spend for which firm prices are available.
Capital expenditure	Expenditure on durable assets such as land, buildings and equipment.
Contingency	An allowance of cash or resources provided to cover the cost of risks that may materialise.
Cost benefit analysis (CBA)	Analysis which quantifies in monetary terms as many of the costs of a proposal as feasible (financials), including items for which the market does not provide a satisfactory measure of economic value (non-financials).
Cost effectiveness analysis (CEA)	Analysis that compares the cost of alternative ways of producing the same or similar outputs.
Discounting	A method used to convert future costs or benefits to present values using a discount rate.
Discounted cash flow (DCF)	A technique for appraising investments. It reflects the principle that the value to an investor of a sum of money depends on when it is received.
Discount rate	The annual percentage rate at which the present value of a £, or other unit of account, is assumed to fall away through time.
Do minimum option	An option where the public sector takes the minimum amount of action necessary.

Economy	A measure of the extent to which the cost associated with a project, project or policy is reduced.
Effectiveness	A measure of the extent to which a project, project or policy achieves its desired outcomes/outputs.
Efficiency	A measure of the extent to which a project, project or policy's associated throughputs are increased.
Evaluation	Evaluation is the systematic assessment of an intervention, its design, implementation and resulting outcomes both during implementation and most importantly afterwards.
Expected value	The weighted average of all possible values of a variable, where the weights are the probabilities (in %s).
Five case model	A systematic framework for the development and presentation of the business case, comprising of the strategic, economic, commercial, financial and management dimensions of the Case.
Full Business Case (FBC)	The completed business case and third stage in the development of a business case for a significant project, which identifies the most economically advantageous offer following procurement, confirms affordability and puts in place the detailed arrangements for successful delivery.
Market value	The price at which a commodity can be brought or sold, determined by the interaction of buyers and sellers in a market.
Monte Carlo analysis	A technique that allows assessment of the consequences of simultaneous uncertainty about key inputs, taking account of correlation between these inputs.
Net present social cost (NPSC)	The discounted value of a stream of future costs.
Net present social value (NPSV)	The discounted value of a stream of future costs and benefits. The NPSV provides the present values of the sum of a future costs and benefits.
Opportunity cost	The value of the most valuable alternative uses of an asset or the cost of something in terms of an opportunity forgone.
Optimism bias	The demonstrated systematic tendency for appraisers to be over-optimistic about costs, benefits and time taken to complete a proposal.
Option appraisal	The process of defining objectives, examining options and weighing up the costs, benefits, risks and uncertainties of those options before a decision is made.
Options framework filter	A systematic framework for the generation of a wide range of possible options (the "long list") and the filtering of a few possible options for CBA/CEA (the "short list") and identification of the preferred option (Flanagan JC (2006))

Outline Business Case (OBC)	The “intermediate” business case and second stage in the development of a business case for a significant project, which identifies the option offering best public value for spend, confirms the Deal and affordability, and puts in place the arrangements for successful delivery.
PF2	Private Finance Initiative
PPP	Public Private Partnerships
Public Sector Comparator (PSC)	The best viable alternative option for direct public provision comparable to a PPP (PFI) option. Sometimes referred to as the Reference Project or Outline PSC.
Qualitative benefits	Benefits that are not readily measurable or monetisable.
Required rate of return	A target average rate of return for a public sector trading body, usually expressed as a return on the current cost value of total capital employed.
Risk	The likelihood (measured by its probability) that a particular event will occur.
Sensitivity analysis	Analysis of the effects on an appraisal of varying the projected values of important variables.
Spending objectives	The “targeted” outcomes for the scheme, which reflect the rationale for the intervention and must be made SMART for the purposes of evaluation. Often referred to as the investment objectives for the scheme.
Strategic Outline Case (SOC)	The “early” business case and first stage in the development of a business case for a significant project, which makes the case for change and appraises the available options.
Strategy	The strategic context for the project which demonstrates how the project aligns with other projects within the strategic portfolio to deliver the mission and vision of the organisation in the longer term.
Switching values	The point at which the choice of the preferred option would switch to another option due to any uncertain costs and/ or benefits.
Transfer payment	A payment for which no goods or services are received in return.
Uncertainty	A scenario within which probabilities have not been identified for a range of possible outcomes.

Author:

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