



How to work with the Defence and Security Accelerator

Mike Madden – Open Call Lead, DASA





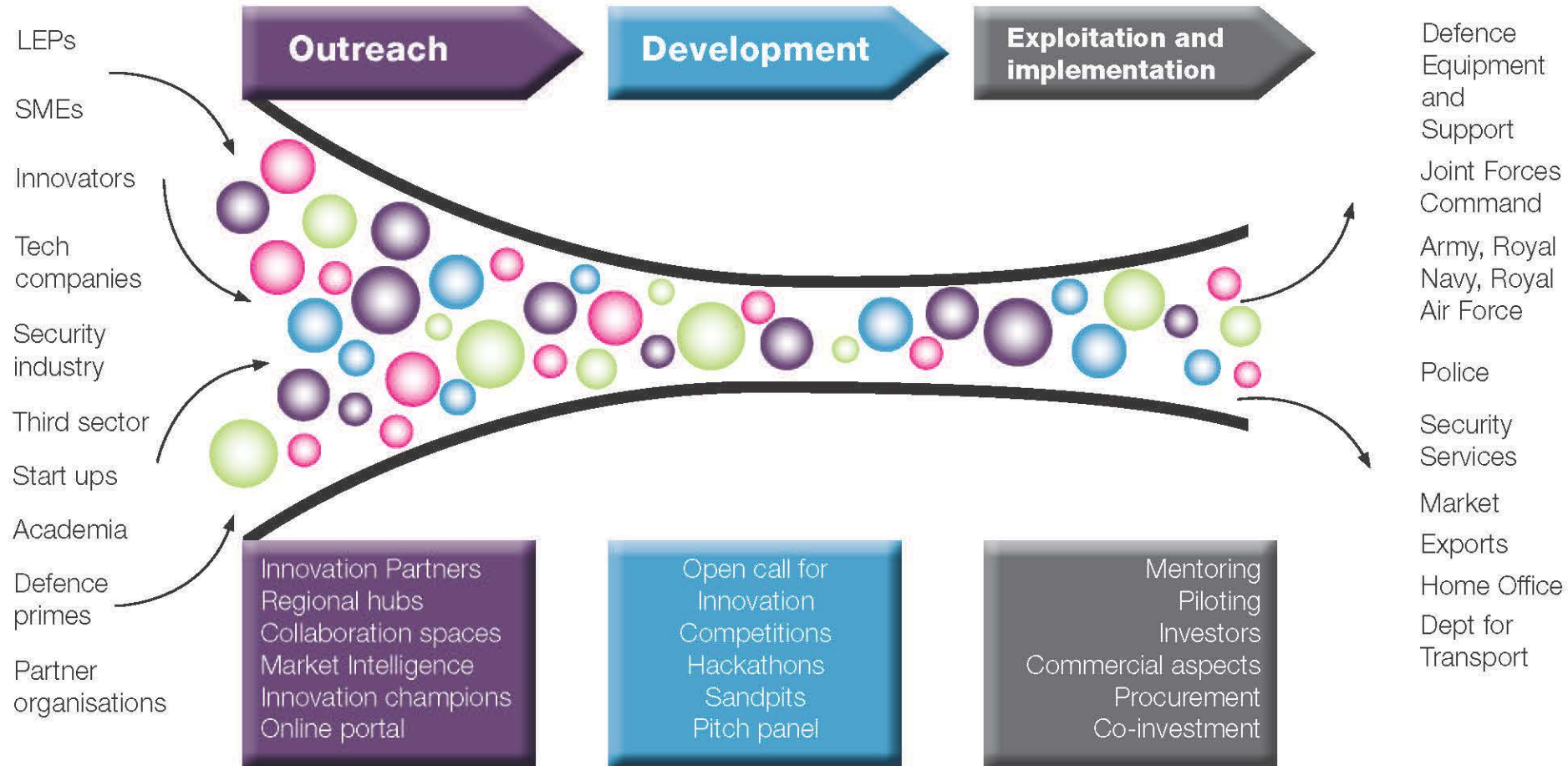
Outline

- context
- open and themed competitions
- setting up an account
- how to submit a proposal
- how we assess your proposals
- using our outreach team

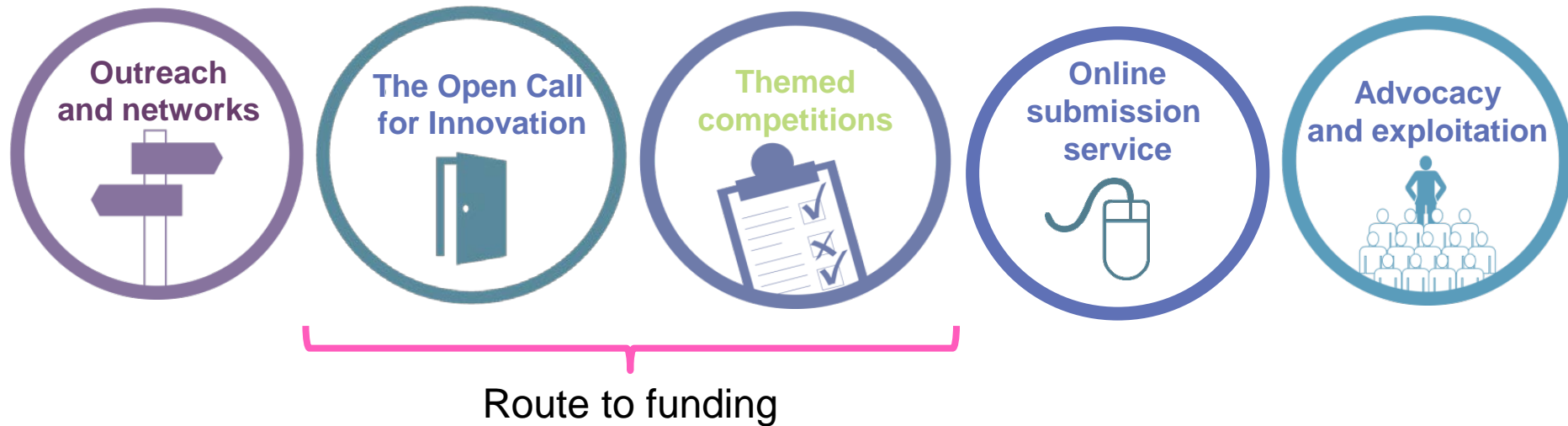
A blue-tinted photograph of a soldier in camouflage and a police officer in dark uniform walking through a modern building corridor. The soldier is in the foreground, holding a rifle, and the police officer is slightly behind him. In the background, other people are visible walking through the corridor.

We find and fund exploitable innovations
which support the **defence and security** of the
UK faster and more effectively, and seek to
generate **economic value for the UK.**

Accelerator operating model



Core services



What we are looking for

Well formed and costed proposals, with clear benefits, deliverables, and relevance to customers and government stakeholders.

Themed competitions



The future of aviation
security



Revolutionise the human
machine relationship



Autonomy in hazardous
scene assessment



Many drones make
light work



Beyond battery
power



Autonomous
last mile resupply



Improving crowd
resilience



Finding explosives in
electrical items



Themed competitions

- often include a number of **defined challenges**
- often multi-phased, with opportunities for a follow-on funding
- **customer sponsored** (technology pull)
- time and cost **bounded**
- the **competition document** is key

<https://www.gov.uk/government/collections/defence-and-security-accelerator-funding-competitions>



[Home](#)

Collection

Defence and Security Accelerator funding competitions

Details of our current, future and past funding competitions.

<https://www.gov.uk/guidance/defence-and-security-accelerator-how-your-proposal-is-assessed>

Published 8 December 2016

Last updated 24 January 2018 — [see all updates](#)

From: [Defence and Security Accelerator](#) and [Ministry of Defence](#)





Open Call for Innovation

- open to **any ideas** from any suppliers
- not time bounded
- not sponsored (technology push)



What the Open Call looks like

The Open Call is evolving

Split into 2 categories:

- emerging innovations
- rapid impact innovations

Defence **and** Security



Emerging innovations

- development of **novel and disruptive** technologies of potential value to defence and/or security
- **wide span of ideas**, focusing on technologies currently at around **Technology Readiness Level (TRL) 2** and aiming to develop them to **TRL 3 or 4**
- duration of between 3 and 12 months
- cost of between £30,000 and £90,000 (defence) or up to £150,000 (security)



Rapid impact innovations

- proposals must have realistic prospect of **achieving impact** within 3 years
- cost up to a total of £250,000 (defence) or £150,000 (security)
- pitch panel (defence)

Setting up an account

Submit your proposal to the Accelerator

The Defence and Security Accelerator funds proposals for proof-of-concept research. If you already have a product, you should speak to the [Defence Suppliers' Service](#).

New users should click the 'Start now' button below. It'll allow you to set up an account with us. You can then begin putting together your proposal for funding (or [if you've already registered sign in here](#)).

You'll be able to save your proposal and finish it later if you need to.

You can submit proposals for both our themed competitions and the enduring competition here and they'll be assessed before we decide if we'll fund or not.

You mustn't submit any classified information to the Accelerator. [Find out more about government security classifications](#).

Start now >



Or [sign in](#) if you already have an account.

Guidance

[Submitting your proposal](#)

[How your proposal is assessed](#)

[How we protect your IP \(intellectual property\)](#)

[Terms and conditions](#)

Defence and Security Accelerator: how to submit a proposal

From:	Defence and Security Accelerator and Defence Science and Technology Laboratory
Part of:	Defence and Security Accelerator: submit your research proposal, Armed forces and Ministry of Defence reform, Scientific research and development, and Government funding programmes
Published:	8 December 2016
Last updated:	23 November 2017, see all updates

Guidance on how to submit a research proposal to the Defence and Security Accelerator.

Contents

- [Get started](#)
- [Dashboard](#)
- [Submit a new proposal](#)
- [How long should a proposal be?](#)
- [After you submit a proposal](#)

The only way to submit a research proposal to the Defence and Security Accelerator is online.

<https://www.gov.uk/guidance/defence-and-security-accelerator-how-to-submit-a-proposal>



How we assess your proposals

- pre-sift
- assessors are chosen from across elements of defence
- multi-disciplinary assessment is key (users, sponsors, S&T, project and commercial staff, procurement)
- assessment time is limited

Defence and Security Accelerator: how your proposal is assessed

From: Defence Science and Technology Laboratory and Defence and Security Accelerator
Part of: Defence and Security Accelerator: submit your research proposal and Armed forces and Ministry of Defence reform
Published: 8 December 2016

After you submit a proposal to the Defence and Security Accelerator, it'll be assessed by subject matter experts. This guidance explains how.

Contents

- 1. Impact on defence and security
- 2. Likelihood of exploitation
- 3. Advancing important science and technology
- 4. Innovation and scientific quality
- 5. Technical challenge

The only way to submit a research proposal to the Defence and Security Accelerator is online.

<https://www.gov.uk/guidance/defence-and-security-accelerator-how-your-proposal-is-assessed>



Assessment criteria

- A. Impact** on defence and security
- B. Likelihood of **exploitation**
- C. Advancing** important **science and technology**
- D. Innovation and scientific **quality**
- E. Technical challenge**

Innovation Partner network

11 Innovation Partners for regional cover:

- South West
- South East, South London
- Central Southern – South Midlands
- London
- West Midlands, Wales
- East Midlands
- North Home Counties, East Anglia
- North West
- Scotland
- Northern Ireland





In summary

- register an account on our submission service
- prepare a proposal using the guidance in the Submission Service and on our website

<https://www.gov.uk/government/organisations/defence-and-security-accelerator>

- engage with our Innovation Partners, for advice and access to front line users
- contact us on accelerator@dstl.gov.uk



How to create a great proposal

Mike Madden– Lead Open Call for Innovation



BETA This is a new service – your [feedback](#) will help us to improve it.



Defence and Security
Accelerator

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[How your proposal is assessed](#)

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[Terms and conditions](#)



Defence and Security Accelerator

Part of [Defence Science and Technology Laboratory](#)

[Accelerator events](#)

[Submit a proposal](#)

[Accelerator funding competitions](#)

[Accelerator Enduring Challenge](#)

[Terms and conditions and contract guidance](#)



30 January 2017 — News story

Accelerator Innovation Network Event

The Defence and Security Accelerator is holding an event in London on 23 February 2017 to provide information on the first Innovation Fund challenge



Setting up an account

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[Terms and conditions](#)



My Name

My Company

[Bidder dashboard](#)

[Update your profile](#)

[Log out](#)

Bidder dashboard

Before you start, make sure you are able to address the following:

1. Is your project at the right stage for our funding?
2. Is your work plan complete?
3. Have you directly addressed the specific needs in our competition document?
4. Have you got a fairly detailed breakdown of expected costs?
5. Are you aware of what information may be held or released by the Accelerator?

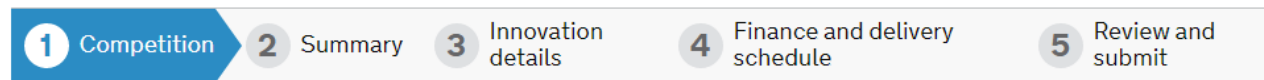
Guidance

[Submitting your proposal](#)

[How your proposal is assessed](#)

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[Terms and conditions](#)



Competition

We run a number of [themed competitions](#) calling for proposals responding to specific military, defence and security challenges. These run for a limited time only.

We also run the [Open Call for Innovation](#) proposals addressing challenges of constant interest to defence. This competition's always open and it's assessed on a regular basis.

By clicking the Open Call link below, you will start to create a proposal for Open Call **Emerging Innovations**.

If your proposal is intended for Open Call **Rapid Impact Innovations** please email accelerator@dstl.gov.uk and ask for a link to that competition.

Competition type

Open Call for Innovation

Themed competition

Save

Save and continue

[Save and go to dashboard](#)

Competition type

Open Call for Innovation

Themed competition

Competition name

You've chosen to enter a themed competition. Tell us which one you're entering:

Regenerative medicine at the front line (Closing: 11/04/2018)

Defence People Innovation Challenge TRACK 1 - prototype development and pilot (Closing: 16/05/2018)

Defence People Challenge TRACK 2 - fast track to pilot (Closing: 16/05/2018)

Save

Save and continue

[Save and go to dashboard](#)

Phase 1

Phase 2

Start now >

Your draft proposals

Untitled submission

CLOSE



Open Call for Innovation: Rapid Impact Innovation- Cycle 2

Due date

Sections completed

21/05/2018

1/5

61 days left

Continue proposal

[Abandon draft](#)

1. Competition details



Submission to competition

Step 1 of 5

- 1** Competition
- 2 Summary
- 3 Innovation details
- 4 Finance and delivery schedule
- 5 Review and submit

Competition

Submission to competition

Step 2 of 5

1 Competition

2 Summary

3 Innovation details

4 Finance and delivery schedule

5 Review and submit

Summary

Submission to competition

Step 3 of 5

1 Competition

2 Summary

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4 Finance and delivery schedule

5 Review and submit

Innovation details

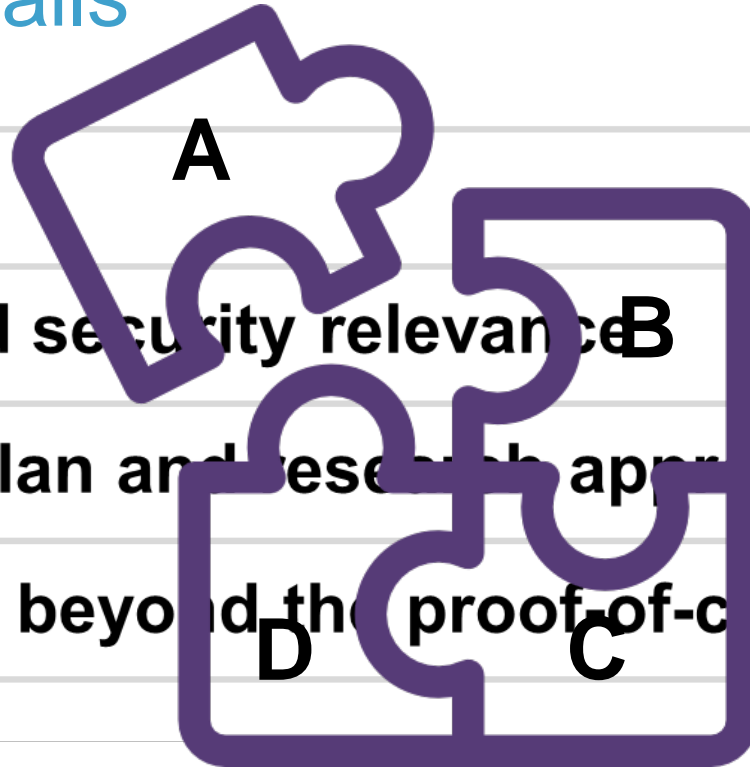
Innovation details

A. The idea

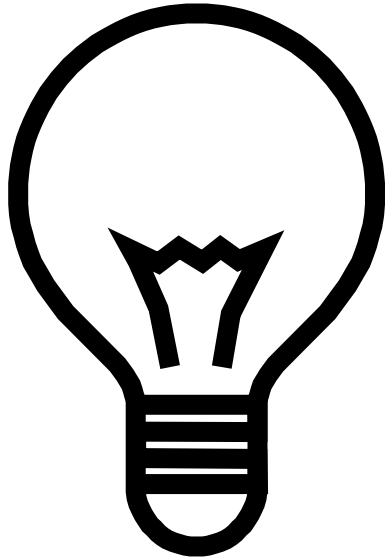
B. Defence and security relevance

C. Your work plan and research approach

D. Exploitation beyond the proof-of-concept stage



Idea



A. The idea



Describe your idea in detail. Tell us how it works and what it does. Take care to explain in what ways it's innovative.

► [What do I need to include?](#)

Idea detail

B **I** **U**

This idea is based on the principle of radar. As you know radar is an object-detection system that uses radio waves to determine the range, angle, or velocity of objects. It can be used to detect aircraft, ships, spacecraft, guided missiles, motor vehicles, weather formations, and terrain. A radar transmits radio waves or microwaves that reflect from any object in their path. A receive radar, which is typically the same system as the transmit radar, receives and processes these reflected waves to determine properties of the object(s).

Radar was secretly developed by several nations in the period before and during World War II. The term RADAR was

[Disable rich-text](#)

Media uploads are limited to JPGs and PNGs. Please ensure your files are named in the way you refer to them in the text box.

A. The idea




Describe your idea in detail. Tell us how it works and what it does. Take care to explain in what ways it's innovative.

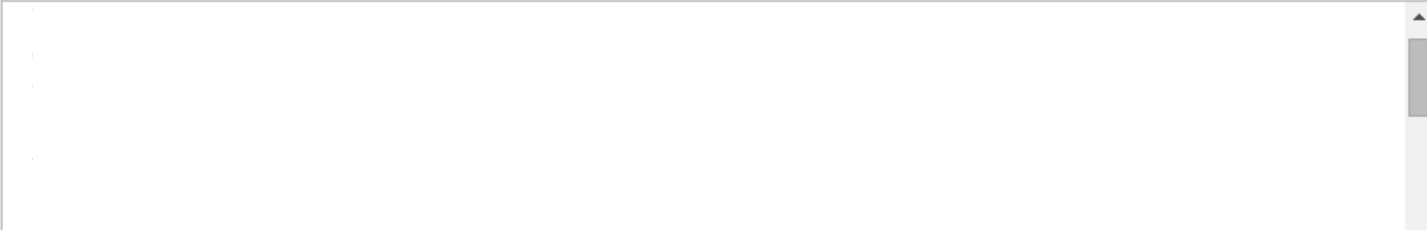
▼ [What do I need to include?](#)

Please tell us (and where possible provide quantitative evidence and estimates):

- how your idea is genuinely innovative. Please reference current leading science and provide evidence of innovation
- exactly what it is and what it does
- how it works and the underlying scientific principles it references
- how it might work with existing systems and equipment
- whether it uses open architectures
- if it will need bespoke or off-the-shelf components
- how mature your innovation is. [We use technology readiness levels \(TRLs\)](#) to measure maturity. The Accelerator funds innovation up to the proof-of-concept stage ([TRL 4](#)).
- what the size, weight and power requirements might be

Idea detail

B **☰** *I* **:=**  U



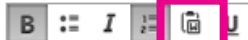
A. The idea



Describe your idea in detail. Tell us how it works and what it does. Take care to explain in what ways it's innovative.

► [What do I need to include?](#)

Idea detail



This idea is based on the principle of **radar**. As you know radar is an *object-detection system* that uses radio waves to determine the range, angle, or velocity of objects. It can be used to detect:

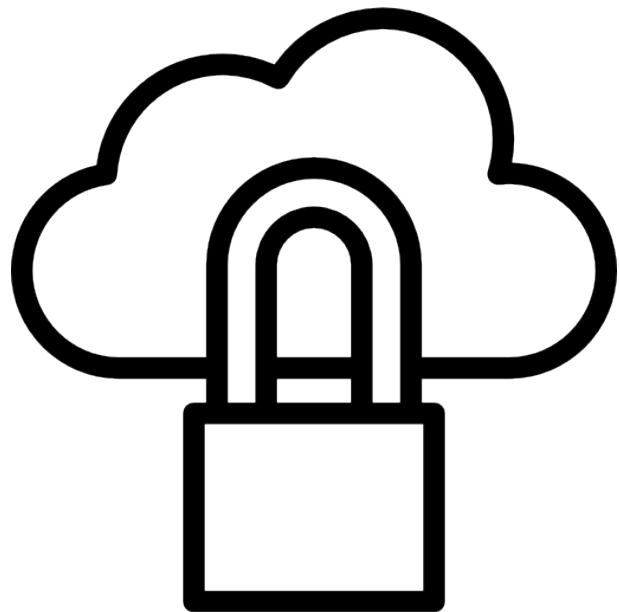
1. **aircraft**
2. **ships**
3. **spacecraft**
4. **guided missiles**

[Disable rich-text](#)

Media uploads are limited to JPGs and PNGs. Please ensure your files are named in the way you refer to them in the text box.

Drag and drop files here

Relevance




B. Defence and security relevance

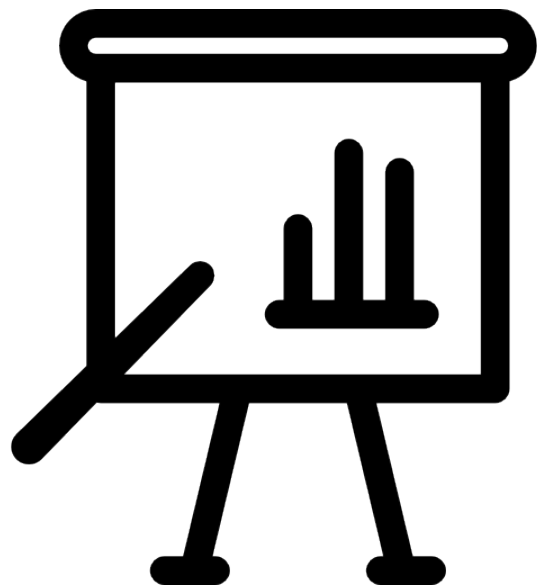
Please outline how you believe your idea will be of use in defence and security.

▶ [What do I need to include?](#)

Defence and security relevance detail

B *I* U :≡ ≡≡ ≡≡ ≡≡ ← → x² x₂  *I*_x Ω

Work plan



C. Your work plan and research approach

In this section we're looking for detailed information about what work will happen in the project. You should fully describe all the deliverables. We'd like to know how you plan to measure success and how you'll test your work. Please describe the project and the work you'll do in the project.

▶ [What do I need to include?](#)

Please tell us (and where possible provide quantitative evidence and estimates):

- what work you'll do in the project
- how you'll test your work and measure whether or not your research has succeeded (e.g. what technologies)
- what the deliverables will be, and whether each will be as **full rights or full and limited rights**
- information about your relevant skills and experience, and those of any subcontractors
- if you (or your subcontractors) hold any special licenses required to do the work (e.g. patents)
- if you own (or have access to) all the intellectual property you require

Work plan

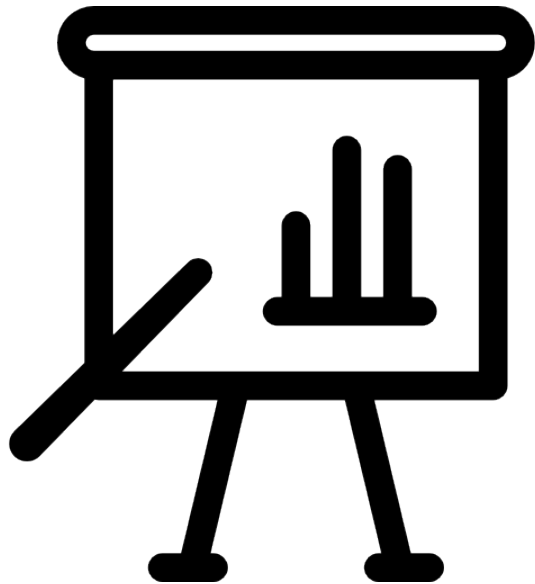
C. Your work plan and research approach

In this section we're looking for detailed information about what work will happen in the project. You should fully describe all the deliverables. We'd like to know how you plan to measure success and how you'll evaluate the project.

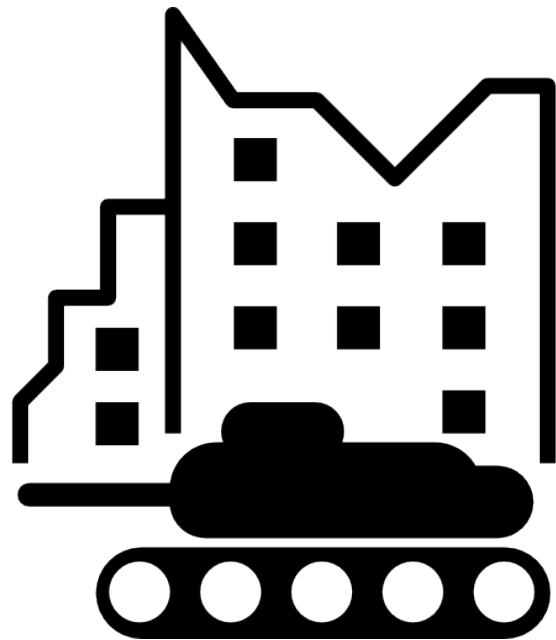
▶ [What do I need to include?](#)

Please tell us (and where possible provide quantitative evidence and estimates):

- what work you'll do in the project
- how you'll test your work and measure whether or not your research has succeeded (e.g. what technologies)
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- if you own (or have access to) all the intellectual property you require



Exploitation



D. Exploitation beyond the proof-of-concept stage

How will you progress your work at the end of the project?

▼ [What do I need to include?](#)

Please tell us:

- how you'll get your project from a successful proof-of-concept stage to the next stage commercially (eg a prototype tested in a relevant environment)
- who else you might need to collaborate with
- an estimate of how long it would take and how much it would cost to bring your innovation to market
- if you think your innovation might have uses outside of defence and security
- any risks to the project or the technology that could prevent you from being able to exploit it

Exploitation detail

Submission to competition

Step 4 of 5

- 1 Competition
- 2 Summary
- 3 Innovation details
- 4 Finance and delivery schedule**
- 5 Review and submit

Finance and delivery schedule

Submission to competition

Step 5 of 5

- 1 Competition
- 2 Summary
- 3 Innovation details
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- 5 Review and submit

Review and submit

Your draft proposals

▶ Fantastic Infra-Red Sensor Idea

Enduring competition - February 2016

Due date

Sections completed

26/01/2016

3/5

21 days left

Continue proposal

[Abandon draft](#)

▶ Fantastic Optical Imaging Idea

Competition yet to be selected

Due date

Sections completed

N/A

4/5

Continue proposal

[Abandon draft](#)

Your completed proposals

▶ Fantastic radar Idea

ACC100024

Test competition 2

Submitted

Status

Next update

05/01/2016

SUBMITTED

14/12/2016

Assessment

Decision

Feedback

IP Deletion

Proposal status

SUBMITTED

IN ASSESSMENT

FUND

NO FUND

Watermarking

▼ **Review proposal submission**

▶ Competition **Mike Madden** ✓

▼ Summary ✓

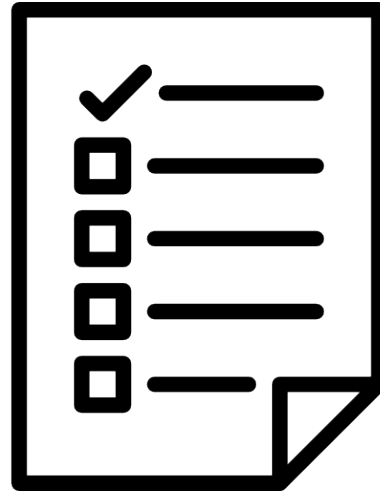
Proposal title
Fantastic Infra-Red Sensor Idea

Proposal abstract
Brief ddescription here

Technology area
Human behavioural sciences **Mike Madden**

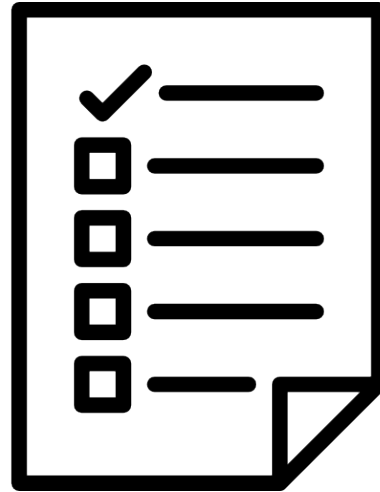
Sub-technology area
Human resources research

Assessment



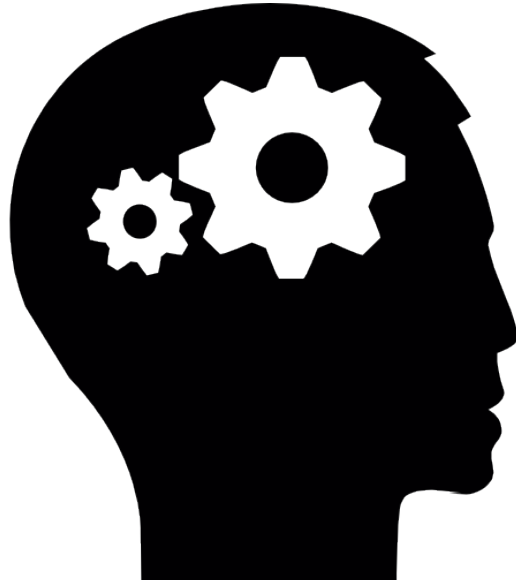
B. Likelihood of exploitation security

Assessment



E. Acceleration and digital innovation

Final reminders



Contact us:



Defence and Security
Accelerator



accelerator@dstl.gov.uk



01980 950000 option 3



Defence and Security Accelerator



@DASAccelerator



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