

# **Annex B: ICT Strategy metrics**

May 2012

Raw data available at: data.gov.uk/dataset/ictmetrics

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## **About This Document**

The SIP set out a number of metrics for measurement of progress on each of the nineteen delivery workstreams. Measurement in this way is a first for the UK Government and will provide the basis for future benchmarking. Metrics data will be utilised to develop a better understanding of the government ICT landscape; support the drive toward better and more efficient ICT; and provide a transparent way of demonstrating progress. The full metrics set provided by central government departments is available on data.gov.uk.

The metrics data collection exercise has highlighted in particular that as a result of legacy contracts, a number of departments are dependent on suppliers to provide the data required, often only at significant additional cost. Work is being taken forward on a cross-government basis, to change the service management model so that in future government will own its own data. Government will then be able to report as needed.

Given that this is the first ICT metrics data collection exercise, it is unsurprising that there are variances in data as a result of the way in which departments collect and hold data; whether departments have access to data via their contracts with Systems Integrators; and how departments have interpreted definitions. Cabinet Office is working with departments to identify variances and therefore improve the definitions and source data for future data collection. The data presented in these annexes is accurate as of May 22nd 2012.

Government plans to extend the scope of metrics and repeat the exercise of collecting metrics data in October 2012 and thereafter on a six-monthly basis. Where averages are noted, these are arithmetic means.

## **Table of Abbreviations**

### **Department Names:**

AGO CO

CPS

BIS

DCLG

DCMS

DFE

DECC

DfiD

DfT

DoH

Defra

DWP

FCO

HMRC

HMT

HO

MOD MoJ

Attorney General's Office	NIO	Northern Ireland Office	API	Application Progra
Cabinet Office	Scotland Office	Scotland Office	ASK	Asset Services Ki
Crown Prosecution Service	TSOL	Treasury Solicitor's Department	CAS	Common Areas o
Department for Business, Innovation a	and Skills Wales Office	Wales Office	CIO	Chief Information
Department for Communities and Loca	al Government		CO <sub>2</sub>	Carbon Dioxide
Department for Culture, Media and Sp	port		СТО	Chief Technology
Department for Education			DII	Defence Informati
Department for Energy & Climate Cha	ange		EPEAT	Electronic Produc
Department for International Developm	nent		ERG	Cabinet Office Eff
Department for Transport			FTE	Full-time Equivale
Department of Health			GBS	Government Buyi
Department of the Environment, Food	& Rural Affairs		GDS	Government Digit
Department of Work & Pensions			ICT	Information and C
Foreign & Commonwealth Office			PFI	Private Finance Ir
HM Revenue & Customs			PSN	Public Services N
HM Treasury			PUE	Power Usage Effe
Home Office			SRO	Senior Responsib
Ministry of Defence (for Defence Inform	mation Infrastructure only)			
Ministry of Justice				

### Abbreviations:

Programming Interface
es Knowledgebase
eas of Spend
ation Officer
ide
ology Officer
rmation Infrastructure
roduct Environmental Assessment Too
ce Efficiency Reform Group
uivalent
Buying Standards
Digital Service
and Communications Technology
nce Initiative
ces Network
e Effectiveness
onsible Owner

Objective 1: Reducing waste and project failure, and stimulating economic growth

### Re-Use

- Total number of assets contributed by organisations
- Total number of instances of reuse
- Total number of shared services and solutions
- Number of licences defined as 'held' in the asset and services register
- Total number of reusable assets contributed
- Number of licences defined as 'used' in the asset and services register

### **Open Source**

- Total number of ICT Software Procurements (tenders and requests)
- Total number of ICT Software Procurements with no branded products and
- Total number of deployments of Open Source solutions

## Procurement

 Total spend under management on ICT common goods and services £ 704 million Savings on ICT common goods and services £ 166 million • Number of ICT contracts with a lifetime value greater than £100m March 2012 • Time to deliver ICT procurements Number of active ICT procurements **ICT Capability**  Number of staff in the Technology in Business Fast Stream\* % of retained headcount filled by ICT contractors<sup>5</sup> 11 % Number of CIOs recruited from within the public sector January 2013 • Number of people in the IT Academy • Number of cross-government temporary assignments per annum at each of the SCS and below SCS

## Agile project delivery

<ul> <li>Number of departments who have used the online Agile facility</li> </ul>	April 2012
<ul> <li>Number of projects using "agile" techniques, by department</li> </ul>	35
<ul> <li>Total number of instances where the virtual centre of excellence has been utilised</li> </ul>	April 2012

Grey text indicates a metric not yet due for publication.

March and April 2012 dates are used to indicate the date when data will start to be collected.

Data to be confirmed, following sign-off of end of year report.

## ICT Strategy Metrics - at a glance

1,517,822

227 559

18,451,189

668

12,099,083

October 2012

April 2012

April 2012

17

64

56

11

**Objective 2: Creating a common ICT infrastructure** 

## Public Services Network (PSN)

- Total number of PSN compliant telecoms contracts in relation to total number of telecoms contracts
- Total number of public sector organisations using PSN

## G-Cloud

- Cost per FTE per commodity service
- % of central government departments' new ICT spend on public cloud computing
- Number of accredited products on the Government Apps Store
- Number of products departments have adopted from Government Apps Store

## End User Device Strategy

- Average cost of device per FTE<sup>®</sup>
- Average number of devices per FTE<sup><sup>©</sup></sup>
- Number of customers (legal entities) adopting services in line with the EUD strategy
- Number of end users serviced through principles in the EUD strategy
- Average time in seconds taken to complete successful boot-up of devices

## Data Centres

- Number of data centres and associated hosting services
- Average cost per server
- · Percentage of servers virtualised
- Average utilisation of servers

## **Open Standards for Data**

- Number of approved open standards for data published
- For each approved standard, the % of departments that have adopted/have an implementation approach for the adoption of the standard

\* As well as the 56 central government department staff in the Technology in Business Fast Stream the ICT Capability Delivery Area reports an additional individual from Export Credits Guarantee Department, a non-nisterial department not yet reported in other metrics and measures

## ♦ Data provided by 17 out of 23 departments.

• Average and range data based on the 18 departments that provided costs of device per FTE. Average and range data based on the 19 departments that provided number of devices per FTE.

- Average and range data based on the 18 departments that provided boot-up times.
- See pages 12 and 17 for definition.

#### 40.60%

## 34

August 2012 August 2012

0 March 2012

## £ 1,206

1.28 October 2012 October 2012

## 182 seconds

84 £ 1,622 17 % 24.75%

June 2012

June 2012

ter en alogy mentres al a granes
Objective 3: Using ICT to enable and deliver change
Online Channels for Government Consultation

ICT Strategy Metrics - at a glance

_	Num	hor	of ac	vorn	mont	0000	sultatio	nc
•	INUIT	DEL	טו ענ	venn	IIIEIIL	COUS	Juilaliu	113

• Number of government consultations utilising a digital channel

### **Social Media**

- Take up by departments of the guidance on accessing the internet and social media
- Number of verified official government social media accounts

### Application Programming Interfaces (APIs)

• Number of published APIs

#### **Digital By Default**

- % take up of digital channel
- % of transactions successfully completed
- Reported user satisfaction
- Cost per successful transaction per channel
- % take up of digital channel
- % of transactions successfully completed
- Reported user satisfaction
- Cost per successful transaction per channel

## **Open Technical Standards**

<ul> <li>Number of open technical standards, per reference architecture area, approved and published</li> </ul>	March 2012	
<ul> <li>For each approved standard, the % of departments that have adopted/have an implementation approach for the adoption of the standard</li> </ul>	March 2012	
Information Strategy	10	
<ul> <li>Number of departments with a departmental information strategy</li> <li>% of departments aligned to the approved set of information strategy principles</li> </ul>	16 9 %	
Reference Architecture		
<ul> <li>% of procurements that are aligned with agreed standards in the Reference</li> </ul>	March 2012	
• Number of open technical standards, per reference architecture area, approved and	March 2012	
Green ICT		
<ul> <li>Average adoption of appropriate green standards in procurement and current delivery of data centres **</li> </ul>	54.55 %	
<ul> <li>Cost of energy caused by government use of data centres ***</li> </ul>	£ 17,512,698	
<ul> <li>Volume of Carbon Dioxide caused by government use of data centres ****</li> </ul>	101,453 t CO2	
<ul> <li>Average power usage effectiveness (PUE) of each Data Centre used by government</li> <li>*****</li> </ul>	1.87	
Risk Management Regime		
• % of software for which software security patches are available on a regular basis	October 2012	
<ul> <li>% of software that is out of mainline security support, but still in use.</li> <li>% of systems that apply available critical security patches to all of their supported</li> </ul>	October 2012	
software; to more than 90% of machines (clients, servers, mobile devices) within 7, 30 & 90 days	October 2012	
<ul> <li>Reductions in the cost and programme development time that are enabled by the adoption of this regime &amp; the associated changes to the process of system</li> </ul>	October 2012	
Grey text indicates a metric not yet due for publication		
······································		

March and April 2012 dates are used to indicate the date when data will start to be collected.

\*\* Data for this metric provided by 10 departments reporting on whether they have adopted appropriate green standards e.g. GBS, EPEAT, EUCOC, Ecma

\*\*\* Data for this metric provided by 8 departments (see page 11 for a definition of cost of energy consumed)

\*\*\*\* Data for this metric provided by 8 departments (see page 10 for a definition of volume of CO2 generated)

\*\*\*\*\* Data for this metric provided by 9 departments (see page 15 for a definition of PUE)

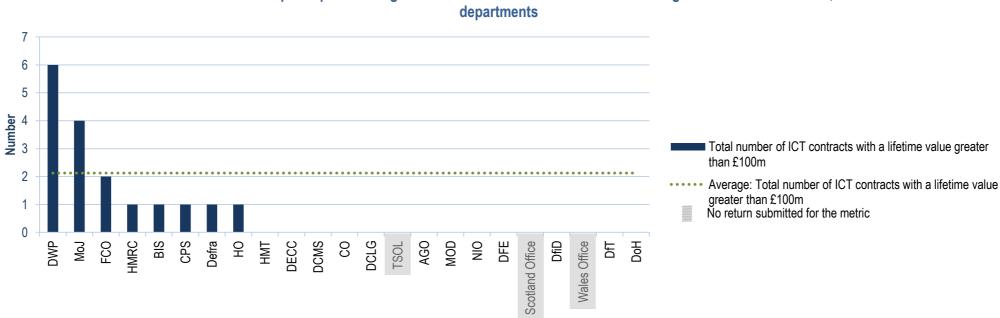
GDS are reviewing the suitability of individual metrics.

GDS are reviewing the suitability of individual metrics.

## 32

GDS are reviewing the suitability of individual metrics.

## Procurement



## Number of ICT contracts put in place during current administration with a lifetime value greater than £ 100 million, for all

### Zero returns and nil returns excluded

Maximum Number	6.0
Average Number	2.1
Minimum Number	1.0
Range	5.0

### Notes:

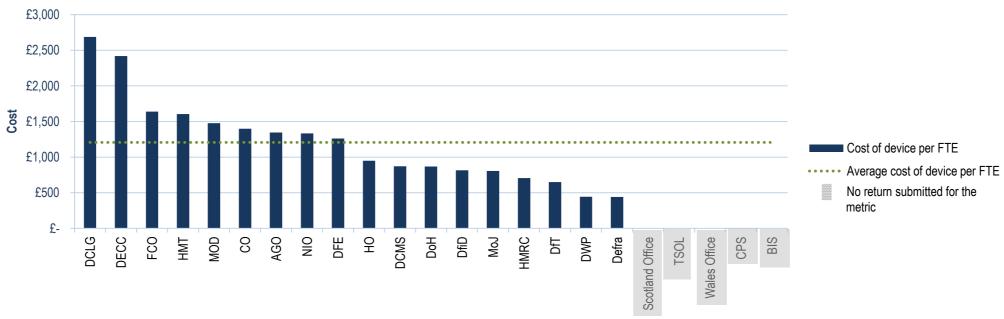
• Pan-government, there are 17 ICT contracts with a lifetime value greater than £100 million. This equates to 27 % of all active ICT procurements.

• Pan-government there are 64 active ICT procurements.

• One department reports no active procurements, and one reported that data was not available due to the terms of a legacy contract with a supplier, or data is not cost effective for a supplier to provide.

### **Definitions:**

• This is a measure of live ICT contracts put in place during this administration where the total value over the duration of the contract is greater than £100 million.



## **End User Device**

Cost of device per FTE, for all departments

	Zero returns and nil returns excluded <sup>a</sup>
Maximum Cost of Device	£2,688
Average Cost of Device	£1,206
Minimum cost of Device	£441
Range of Device Costs	£2,247

## Notes:

• One department reported that it does not hold this data, and one reported that data was not available due to the terms of a legacy contract with a supplier, or data is not cost effective for a supplier to provide.

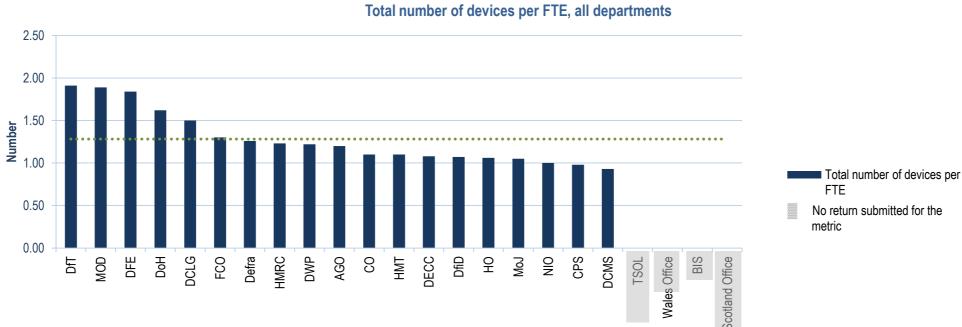
• This data is annualised from the fourth quarter Quarterly Data Summary return from departments which was matched to the full desktop definition provided by ICT Common Areas of Spend.

### **Definitions:**

- The average cost per Full-time Equivalent (FTE) of end user devices / desktops within the organisation.
- The detail for what is included within device / desktop definition can be found within the 'Common Area of Spend ICT' document found here, http://www.cabinetoffice.gov.uk/resource-library/common-areas-spend-data-definitions .
- Full-time employees are counted as 1 full-time equivalent. Part-time employees' hours have been converted into those worked by full-time employees.

Average and range data based on the 18 departments that provided costs of device per FTE.

## **End User Device**



	Zero returns and nil returns excluded $\cong$
Maximum Number of Devices	1.91
Average Number of Devices	1.28
Minimum Number of Devices	0.93
Range of Device Numbers	0.98

## Notes:

• Pan-government there are 602,744 FTEs.

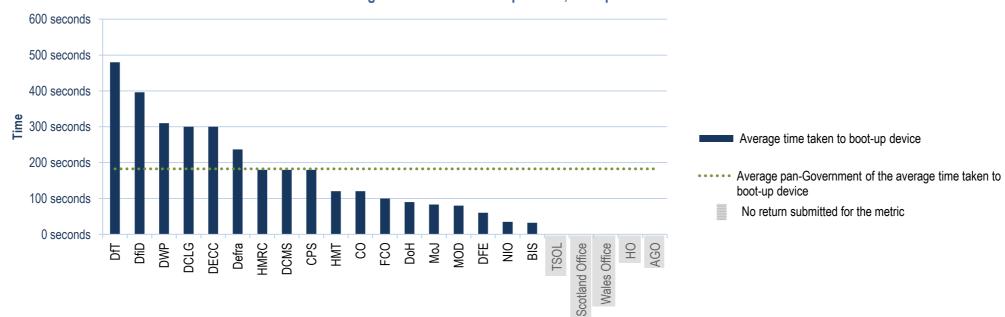
• One department reported that it does not hold this data, and one reported that data was not available due to the terms of a legacy contract with a supplier, or data is not cost effective for a supplier to provide.

### **Definitions:**

- The average cost per FTE of end user devices/desktops within the organisation.
- The device/desktop includes: log-on services but not single sign-on into applications. Application package environment. 2nd, 3rd line support but not the help desk and associated support infrastructure including desktop directory.
- Full-time employees are counted as 1 full-time equivalent. Part-time employees' hours have been converted into those worked by full-time employees.

C Average and range data based on the 19 departments that submitted data for this metric.

## **End User Device**



Average time taken to boot-up device, all departments \*

	Zero returns and nil returns excluded *
Maximum Boot-up Time	480 seconds
Average Boot-up Time	182 seconds
Minimum Boot-up Time	32 seconds
Range of Boot-up Times	448 seconds

## Notes:

- Departments have reported a wide range of boot-up times.
- The median boot-up time is 150 seconds.\*
- One department reported that it does not hold this data.

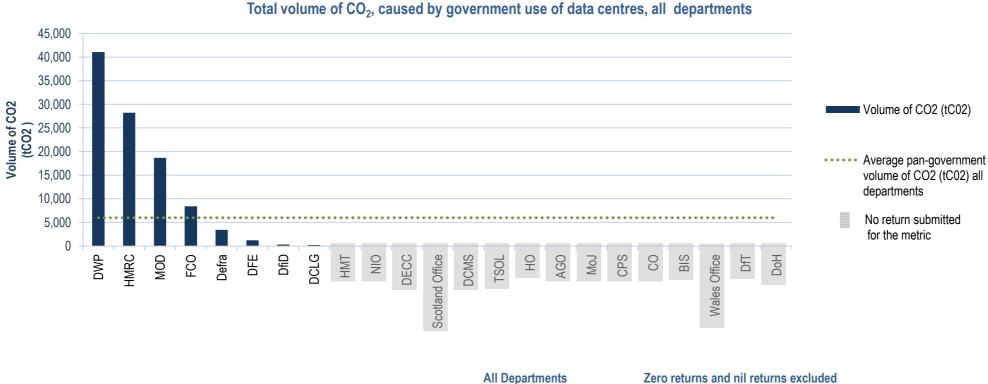
### **Definitions:**

- Boot-up time is measured in seconds and is the mean time for 95% of the organisation.
- Boot-up time is measured from when a user switches on their device until they can access an application.

### \* DfT boot-up time includes opening MS Outlook.

• Average and range data based on the 18 departments that submitted data for this metric.

**Green ICT** 



	All Departments	Zero returns and nil returns excluded
Maximum Volume	41,074 t CO2	41,074 t CO2
Average Volume	5,968 t CO2	12,682 t CO2
Minimum Volume		191 t CO2
Range of Volumes		40,883 t CO2

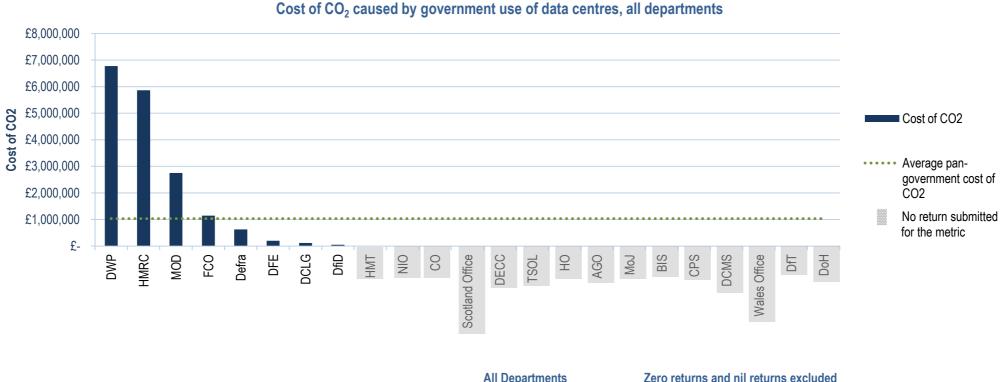
## Notes:

- 8 out of 23 departments ( 35 % ) have provided data for this metric.
- One department reported that data was not available due to the terms of a legacy contract with a supplier, or data is not cost effective for a supplier to provide.
- One department could not respond as a key supplier would not provide the additional information needed.
- One department could not respond as it was unable to disassociate its data from a shared service.

## **Definitions:**

- Refer to the guidance and best practice contained in the HMG Green ICT Maturity Model Assessment, Roadmap, and Workbook. http://www.cabinetoffice.gov.uk/resource-library/uk-government-ict-strategy-resources
- Volume of CO<sub>2</sub> generated per annum from operating the organisation's in house and out-sourced data centres, where a data centre is defined as a room or rooms with servers and other ICT kit that requires dedicated cooling and power supply.

**Green ICT** 



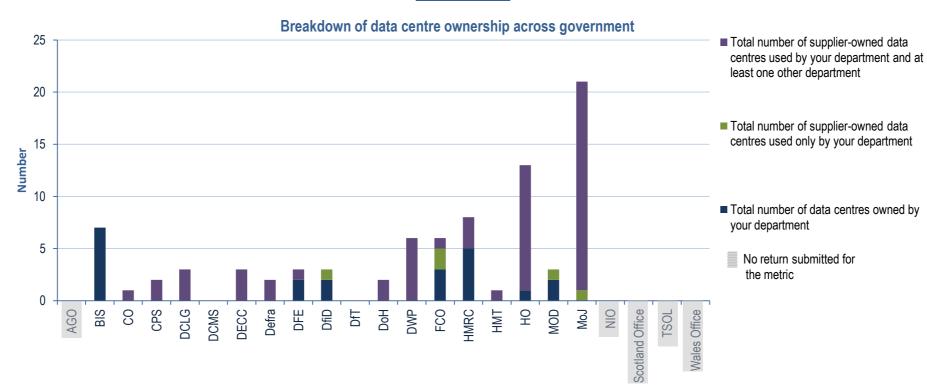
	All Departments	Zero returns and nil returns excluded	
Maximum Cost	£6,774,458.00	£6,774,458.00	
Average Cost	£1,030,158.71	£2,189,087.25	
Minimum Cost		£44,380.00	
Range of Costs		£6,730,078.00	

## Notes:

- 8 out of 23 departments ( 35 % ) have provided data for this metric.
- One reported that data was not available due to the terms of a legacy contract with a supplier, or data is not cost effective for a supplier to provide.
- One department could not respond as a key supplier would not provide the additional information needed.

### **Definitions:**

- Cost is the cost of CO<sub>2</sub> caused by government use of data centres.
- Refer to the guidance and best practice contained in the HMG Green ICT Maturity Model Assessment, Roadmap, and Workbook. http://www.cabinetoffice.gov.uk/resource-library/uk-government-ict-strategy-resources
- The annual cost of energy consumed in operating the organisation's data centres both those on-site and those out-sourced, where a data centre is defined as a room or rooms with servers and other IT kit that requires dedicated cooling and power supply.



Data centres owned by a supplier and used		All Departments	Zero Returns and Nil Returns E
only by reporting department: 	Maximum Number	2.00	2.00
	Average Number	0.25	1.25
	Minimum Number		1.00
	Range	///////////////////////////////////////	1.00
Data centres owned by reporting departments and at least one other department:		All Departments	Zero Returns and Nil Returns E
	Maximum Number	20.00	20.00
	Average Number	2.71	4.38
	Minimum Number		1.00
	Range		19.00
Data centres owned by reporting department:		All Departments	Zero returns and nil returns ex
	Maximum Number	7.00	7.00
	Average Number	1.10	3.14
	Minimum Number		1.00
	Range		6.00

### Notes:

- Pan-government there are 84 data centres and associated hosting services.
- The average pan-governent cost of a data centres is £ 1,622.
- Pan-government percentage server virtualisation is 17 %.
- The average pan-government server utilisation is 24.75 %.

**Definitions:** 

• Data centre - A large physically-separate dedicated building, (or segregated area within a shared building),

housing more than 50 standard racks of business critical IT servers, intended for use under normal operating conditions (i.e. not under disaster conditions). See page 17 for additional guidance.

Excluded Excluded excluded

Total number of ICT contractors, all departments 350 300 250 **Jon 200 Numper** 150 Total number of ICT Contractors ····· Average pan-government number 100 of ICT Contractors No return submitted for the 50 . . . . . . . . . . . . . metric 0 오 DWP FCO DFE HMT DoH MOD LoM HMRC 8 BIS DfiD DCLG OIN DECC AGO Ę DCMS Defra CPS Scotland Office Wales Office TSOL All Departments Zero returns and nil returns excluded 299 299 Maximum Number 42 70 **Average Number** 1 **Minimum Number** 

## **ICT Capability**

### Notes:

• 11 % of the pan-government ICT professional headcount are ICT contractors. Data provided by 17 out of 23 departments...

Range

• Pan-government there are 56 staff in the Technology in Business Fast Stream. With 9 out of 23 departments reporting staff in the Technology in Business Fast Stream. \*

### **Definitions:**

• A Contractor is someone filling a public sector employee post or a post that could be filled by a public sector employee but headcount is not available. ICT contractor includes all those contractors assigned to ICT roles including Project Managers, and also those who are part of a contract e.g. with an ICT supplier. This includes contractors in ICT enabled projects and services which are not the responsibility of the organisation's Chief Information Officer.

• MOD ICT Contractors data is an estimated FTE calculation derived from total ICT contracts spend for ICT technical/external support for period April 2011 to 31 December 2011.

\* As well as the 56 central government department staff in the Technology in Business Fast Stream the ICT Capability Delivery Area reports an additional one from Export Credits Guarantee Department, a non-ministerial department not yet reported in other metrics and measures.

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## **Performance on Additional Metrics**

## Information Strategy

- 16 departments have a departmental information strategy in their business plan for 2011 / 2012, and 12 also have additional supporting documents.
- CPS has provided Cabinet Office with this URL link to their information strategy, http://www.cps.gov.uk/publications/reports/index.html

## **Definitions:**

- The purpose of this metric is to provide a first measure regarding the number of departments who do have some form of Information Strategy to serve as a basis for this.
- It also acts as a baseline to measure progress towards the further metric "Percentage of departments aligned to the approved set of information strategy principles", measurement of which will commence in March 2012.

## PSN

- 40.6 % of telecoms contracts, by volume are PSN compliant.
- 2.8 % of telecoms contracts, by spend value, are PSN compliant.

## **Definitions:**

 PSN compliance is defined as the process to ensure adherence to the rules, conditions and obligations identified in the PSN Codes. More detail on PSN can be found here, http://www.cabinetoffice.gov.uk/content/public-services-network .

## **ASK ICT**

- The total number of re-usable assets contributed to the ASK ICT database is 668.
- The total number of assets contributed by organisations to the ASK ICT database is 1,517,822.
- The total number of instances of re-use is 227.
- The total number of shared services and solutions is 559.
- The total number of ICT licences defined as 'held' in the asset and services register is 18,451,189.
- The total number of ICT licences defined as 'used' in the asset and services register is 12,099,083.

## **Definitions:**

- A re-usable asset is an ICT asset that is currently being used by a government body, and one that has been indicated as 're-usable' by the government body. 'Total' is the sum total of the assets records that indicate a 'reusable asset'. 'Contributed' means that it is registered within ASK ICT.
- 'Total number of assets contributed' is the sum total of asset records within ASK ICT.
- 'Shared services' was defined within the ASK ICT as: "Those business processes and functions, enabled by ICT, which are common across organisations, and that are sourced once (either internally or externally) and used in several government organisations.

 'Solutions' was defined within ASK ICT as: "A service that can be rebuilt through reusing the products, architecture design, project plans, test plans, etc of an existing service. "A solution is not a single Commercial off the Shelf product, but rather the integration of a number of products to deliver a complete service.

"A solution will be expected to include all of the templates and inputs of a pattern however, they are likely to be specific to the exemplar solution. For example the high level architecture may not be generalised for multiple technology types".

- An ICT Licence is a legal instrument used to determine the use of a copy of a software product.
- An ICT Product refers to an item of ICT technology that a manufacturer sells and a customer uses in order to fulfil a function that is required. If the product is physical then a physical copy will be used by the customer. If it is virtual (e.g. a piece of software) then the copy will be virtual (although may come on physical media, e.g. a DVD). There is also a situation where one copy of the software is held and multiple users are able to use it, through the purchase of 'licences'.
- 'Held' refers to licences that the government body is entitled to use and for which provision has been made to pay for.
- Used' refers to a subset of those licences that a government body is entitled to use, that are actually being used and paid for.

## GDS

- GDS are reviewing the suitability of initial metrics
- Work has begun to build a standard web metrics capability for government which will reflect the commitments made in the Budget.
- Once this has been signed off then we will have a set of aligned metrics which we will report on.
- GDS are currently developing the API approach document for circulation early May. 32 APIs have been confirmed.

## **Green ICT**

- 5 out of 18 departments (28 %) use Government Buying Standards to place contracts.
- The average pan-government Power Usage Effectiveness (PUE) for data centres used by government departments is 1.87.
- 10 out of 23 (43 %) government departments have provided PUE data.

## **Definitions:**

- At initial procurement or next refresh point for purchase/lease Government Buying Standards (GBS), http://sd.defra.gov.uk/advice/public/buying/, will be applied where available. Where not available international standards for greener electronics shall be applied, with use of accreditation schemes such as (e.g. EPEAT, or Ecma) to confirm compliance.
- Power Usage Effectiveness (PUE) is a measure of how efficiently a computer data centre uses its power; specifically, how much of the power is actually used by the computing equipment (in contrast to cooling and other overhead). PUE is the ratio of total amount of power used by a computer data centre facility i.e. power provided to the IT equipment plus power provided for cooling, to the power delivered to computing equipment. PUE = Total Facility Power ÷ IT Equipment Power

PUE was developed by a consortium called The Green Grid. An ideal PUE is 1.0. Anything that isn't considered a computing device in a data centre (i.e. lighting, cooling, etc.) falls into the category of facility power usage.

 Refer to the guidance and best practice contained in HMG Green ICT Maturity Model Assessment, Roadmap, and Workbook. http://www.cabinetoffice.gov.uk/resource-library/uk-government-ict-strategy-resources

## <u>Agile</u>

- 13 out of 23 ( 57 % ) government departments use agile techniques.
- Pan-government there are 23 member of Virtual Centres of Excellence for Agile across 10 departments.

## **Definitions:**

• Agile: A variant of iterative life cycle development where deliverables are submitted in stages. One difference between agile and iterative development is that the delivery time in agile is in weeks rather than months.

## Data Sources and Methodology

- All data in this document has been collected by Cabinet Office as part of the ICT Strategy Metrics process with three exceptions which are listed below.
- Metrics and definitions established by senior responsible owners for individual delivery areas and agreed by the CIO Delivery Board.
- On request information was supplied directly to the Cabinet Office by departments. Cabinet Office collated this information and passed it to the relevant delivery area leaders of Senior Responsible Owner (SRO). The SRO will have challenged departments on data quality, and changed where appropriate.

#### EUD

• This data is annualised from the fourth guarter Quarterly Data Summary return from departments which was matched to the full desktop definition provided by ICT Common Areas of Spend.

### PSN

April 2012 internal update from PSN.

### ASK

• Data taken from ASK ICT Metrics internal update April 2012.

### Additional Guidance for Data Centre Metric

### Definition of Data Centre:

 Data centre – A large physically-separate dedicated building, (or segregated area within a shared building), housing more than 50 standard racks of business critical IT servers, intended for use under normal operating conditions (i.e not under disaster conditions).

## Guidance

• This metric is primarily concerned with the major data centre facilities employed by departments. Rooms containing IT and communications equipment associated with an office space (e.g. network cabinets and telecommunications rooms) should not be included.

Where suppliers provide the IT infrastructure to host your live business applications (i.e. a hosting service) then the supplier's facilities should be included regardless of the procurement route.

To ensure that supplier data centres are not counted multiple times across government, please enlist your suppliers help in counting those data centres dedicated to providing service solely for your department separately to those data centres dedicated to providing service to both your department and another government department / public sector body.