Department
for Environment
Food & Rural Affairs

Data Services Platform 3 (DSP3)

Market engagement event

Digital, Data and Technology Services (DDTS)

Agenda

Item	Speaker	Time
Registration		12:45 – 13:00
Introduction	Darpan Kaur – Project Manager	13:00 – 13:10
Defra and DSP overview	Chris Jarvis – Service Owner	13:10 – 13:50
Commercial approach	Neil Widdop – Category Manager	13:50 – 14:30
Break		14:30 – 14:45
Q&A and close	Darpan Kaur – Project Manager	14:45 – 16:00

Introduction

Darpan Kaur

Project Manager

Today's objectives

Objectives

- Provide an overview of the current service.

- Set out Defra's ambition for future development of services.

- Explain Defra's current thinking.

- Gain creative market insight to inform our approach.

Housekeeping

- This session will be recorded and shared with attendees.

- These slides and the attendee list for this event will be shared with attendees.

- Attendees should mute their microphone unless they are asked to unmute by Defra.

- Attendees should turn off their camera to preserve bandwidth.

- Please advise in the chat window if quality is degraded at any point.

- In the Q&A session, those wishing to ask a question should raise their hand in Teams.

- Q&A will be recorded in writing and published after the event.

Department
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Food & Rural Affairs

Defra and DSP overview

Chris Jarvis

Service Owner

Who is Defra?

- We are responsible for improving and protecting the environment. We aim to grow a green economy and sustain thriving rural communities. We also support our world-leading food, farming and fishing industries.

- Our broad remit means we play a major role in people's day-to-day life, from the food we eat, and the air we breathe, to the water we drink.

- We are here to make our air purer, our water cleaner, our land greener and our food more sustainable.

- Our mission is to restore and enhance the environment for the next generation, leaving it in a better state than we found it.

Defra priorities

- Improve the environment through cleaner air and water, minimised waste, and thriving plant and terrestrial and marine wildlife.

- Reduce greenhouse gas emissions and increase carbon storage in the agricultural, waste, peat and tree planting sectors to help deliver net zero.

- Reduce the likelihood and impact of flooding and coastal erosion on people, businesses, communities and the environment.

- Increase the sustainability, productivity and resilience of the agriculture, fishing, food and drink sectors, enhance biosecurity at the border and raise animal welfare standards.

Defra Group main bodies

Department for Environment Food & Rural Affairs

Animal & Plant Health Agency

Environment Agency

Veterinary Medicines Directorate

Royal Botanic Gardens Kew

Forestry England

Rural Payments Agency

Marine Management Organisation

JNCC Joint Nature Conservation Committee

Centre for Environment Fisheries & Aquaculture Science

NATURAL ENGLAND

Who does what?

Air
Defra*
Environment Agency*

Trees
Forestry Commission*

Plants
Kew Gardens
APHA*

Wild habitats
Natural England*
JNCC

Communities
Environment Agency*
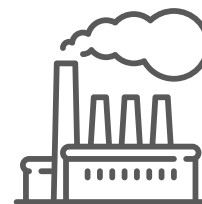
Regulated industry
Environment Agency*
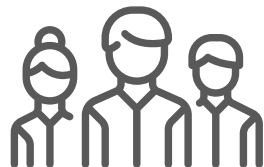
People
Natural England*

Farms
RPA*
Natural England*

Food
Defra*
RPA*
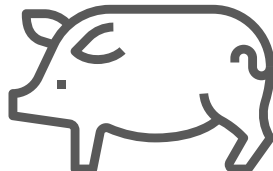
Animals
APHA*
VMD

Sea
MMO*
Natural England*
CEFAS

Rivers
Environment Agency*

* indicates Defra bodies who publish data via DSP

Who is Environment Agency?

- An executive non-departmental public body sponsored by Defra. The contract management of the DSP is undertaken by the Environment Agency and on behalf of Defra.

- We work to create better places for people and wildlife, and support sustainable development.

- Within England we're responsible for:
    - regulating major industry and waste,
    - treatment of contaminated land,
    - water quality and resources,
    - fisheries,
    - inland river, estuary and harbour navigations,
    - conservation and ecology.

- We are also responsible for managing the risk of flooding from main rivers, reservoirs, estuaries and the sea.

Environment Agency priorities

- Work with businesses and other organisations to manage the use of resources.

- Increase the resilience of people, property and businesses to the risks of flooding and coastal erosion.

- Protect and improving water, land and biodiversity.

- Improve the way we work as a regulator to protect people and the environment and support sustainable growth.

Project culture

- The DSP project have adopted the following principles in our engagement internally as well as externally. It is fundamental to the procurement of this contract that suppliers understand the core values on which we base our professional engagement.

- We act in accordance with our values:

| Integrity | Transparency | Respect | Sustainability focused | Equality | Collaborative |
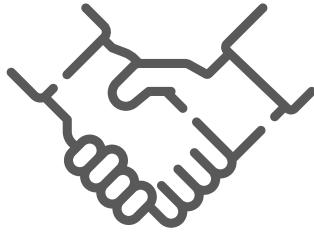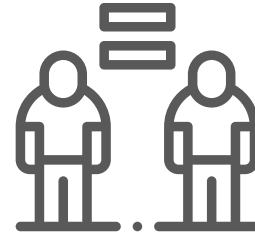
What is the DSP?

- The DSP (environment.data.gov.uk) makes environmental data, from across Defra Group, available to a wide range of users.

What are the core services?

Spatial data and non-spatial data services
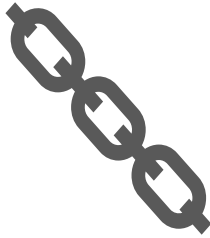
Linked data services

Metadata catalogue

Digital services and applications
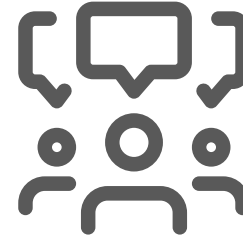
User forum
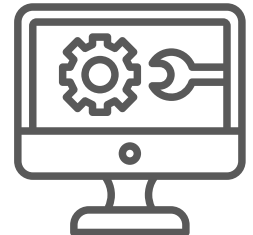
IT service management

DSP volumetrics

09/10 | 11/12 | 13/14 | 15/16 | 17/18 | 19/20 | 21/22 | 23+

DSP1 | DSP2 | DSP3

5 flood datasets to partners

000's of datasets; 14 million WMS/ WFS calls

Over 1 billion API/WMS/ WFS calls in 2020

DSP volumetrics

Bar chart titled "DSP volumetrics" showing Number of calls (x-axis from 0 to 1.8bn) by year (2016–2020). Two series: WMS hits (white/outlined bars) and Linked data and API use (green filled bars).
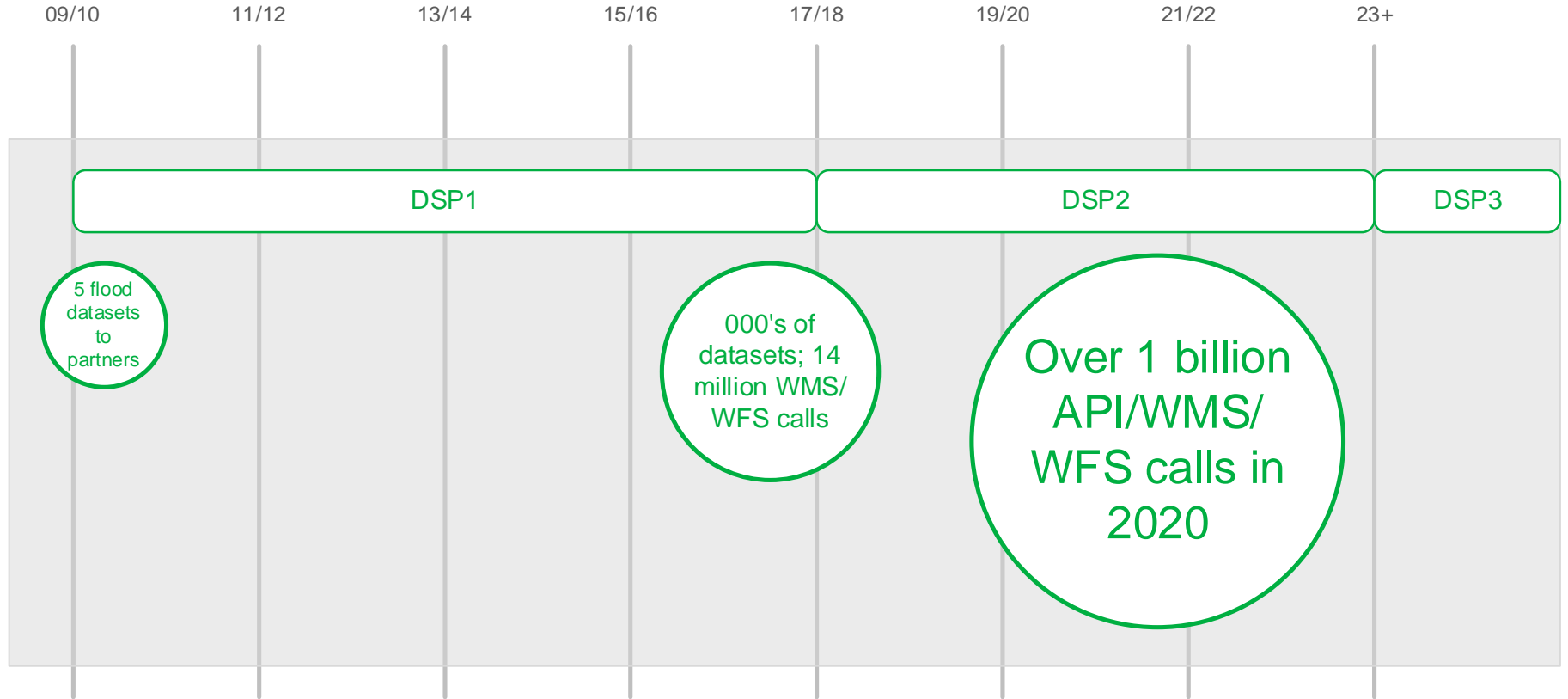
Number of calls
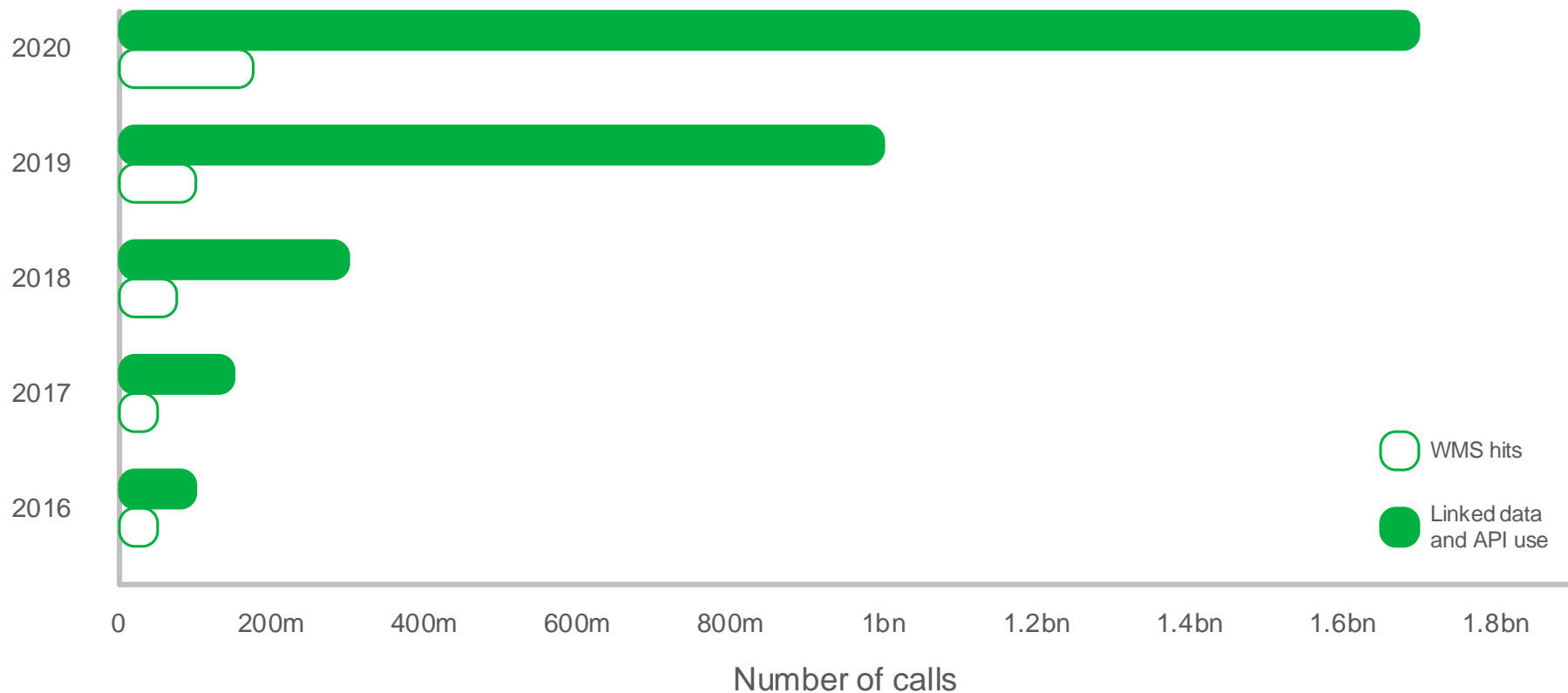
Key messages

- The DSP influences environmental actions and informs decisions. The better the service, the more it is used, the better the environmental outcomes for all.

- External applications and business services are built on DSP data; there is a huge reputational impact to Defra for any system failure.

- This is not a traditional IT system; the DSP is addressing data management problems. It is a set of complimentary services, rather than a single solution or set of software modules.
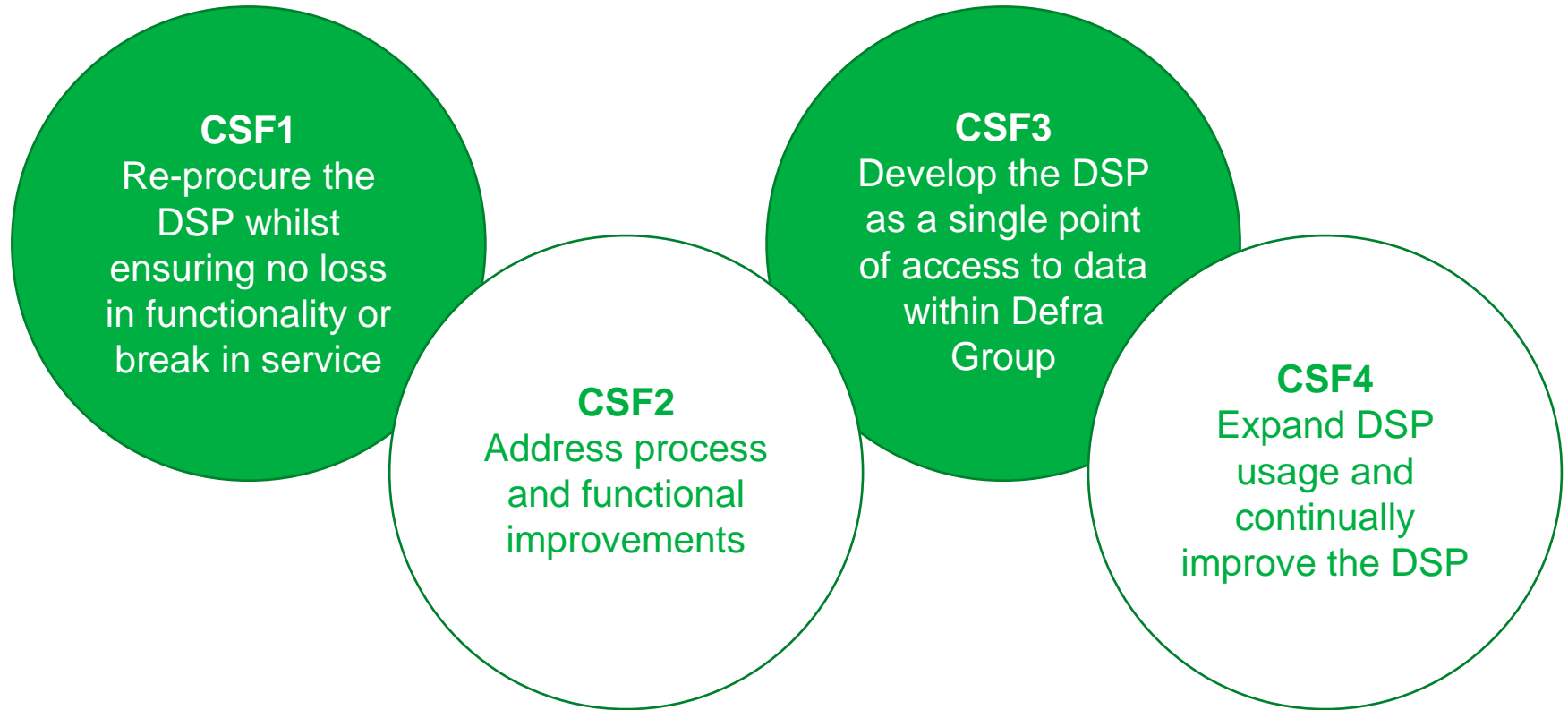
- Usage of APIs and linked data services is increasing.

- Linked data gives us the ability to bring together disparate data, increase secondary use of data to meet environmental challenges, whilst enabling collaboration and integration of third party data sets.

- Spatial data services will be delivered into a complex landscape within Defra group; there is opportunity to rationalise solutions.

DSP3 core objectives

CSF1
Re-procure the DSP whilst ensuring no loss in functionality or break in service

CSF2
Address process and functional improvements

CSF3
Develop the DSP as a single point of access to data within Defra Group
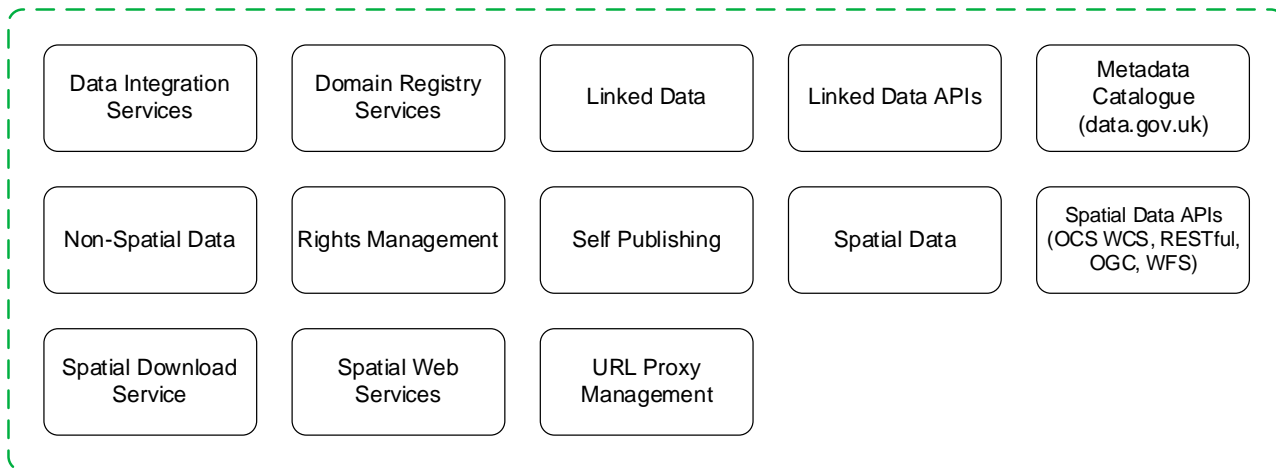
CSF4
Expand DSP usage and continually improve the DSP

Commercial approach

Neil Widdop

Category Manager

What are the core DSP3 capabilities?

Data Management Services

Data Integration Services	Domain Registry Services	Linked Data	Linked Data APIs	Metadata Catalogue (data.gov.uk)
Non-Spatial Data	Rights Management	Self Publishing	Spatial Data	Spatial Data APIs (OCS WCS, RESTful, OGC, WFS)
Spatial Download Service	Spatial Web Services	URL Proxy Management		

Digital Services

environment .data.gov.uk

Community Forum
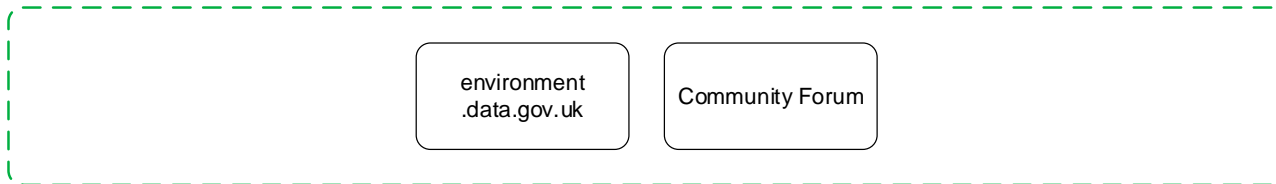
What are the core DSP3 capabilities?

Applications

APIs & Data Acquisition	Asset Data Requirements Library	Asset Information	Bathing Water Explorer	Bathing Water Signage
Bathing Water Widgets	Catchment Data Explorer	Drinking Water	Ecology & Fish Data Explorer	Flood Plan Explorer
Flood Warning Widgets	Hydrology	Public Registers Online	Rainfall Demonstrator	Rural Payments Agency Land Parcels
Shoreline Management Plans	Spatial Data Visualisation	Tide Gauge Readings	Waste Carriers, Brokers & Dealers Widget	Water Quality Data Archive

What are the core DSP3 capabilities?

Service Management

Business Continuity & Disaster Recovery	Cyber Security Management	Data Governance	Deployment Management	Infrastructure & Platform Management (hosting)
ITIL v4 Service Management Practices	Knowledge Management	Performance Reporting	Product Delivery	Social Value
Software Development	Technical Standards Compliance (e.g. PECR, WCAG)	User-Centred Services		

Packaging approach

Whilst Defra will use the market engagement and procurement process to refine our packaging approach, there is a requirement to procure all capabilities as a single contract because:

- further disaggregation would increase the service and technical integration risks;

- any potential savings achieved would be offset through increased contract management and technical oversight;

- responsibility is best sat where the capability lies; and

- a larger single contract is likely to be better value for money overall for Defra.

Key packaging considerations for Defra
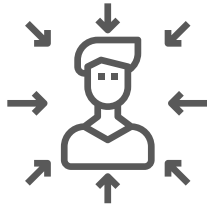
User needs

Value for money

Evidence based
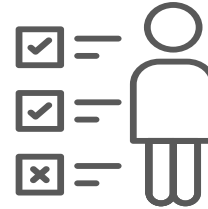
Internal/external delivery capability

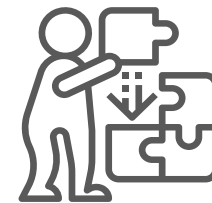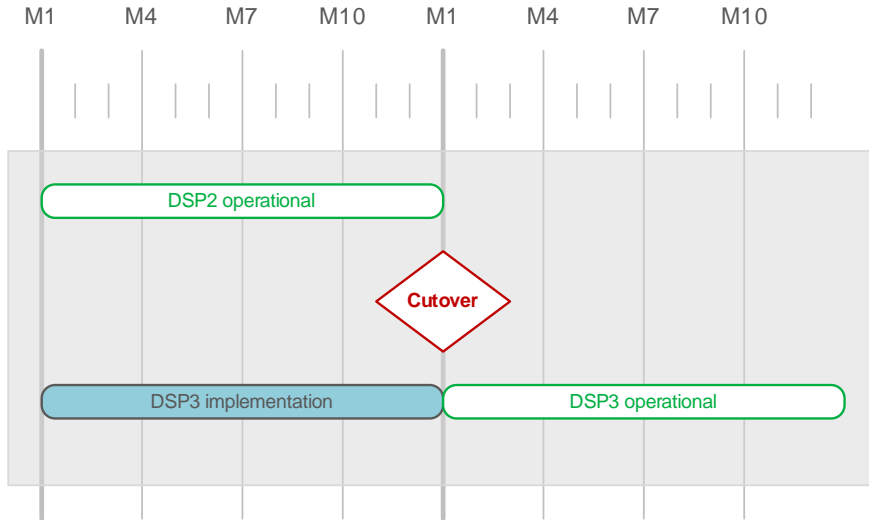Supply chain attractiveness

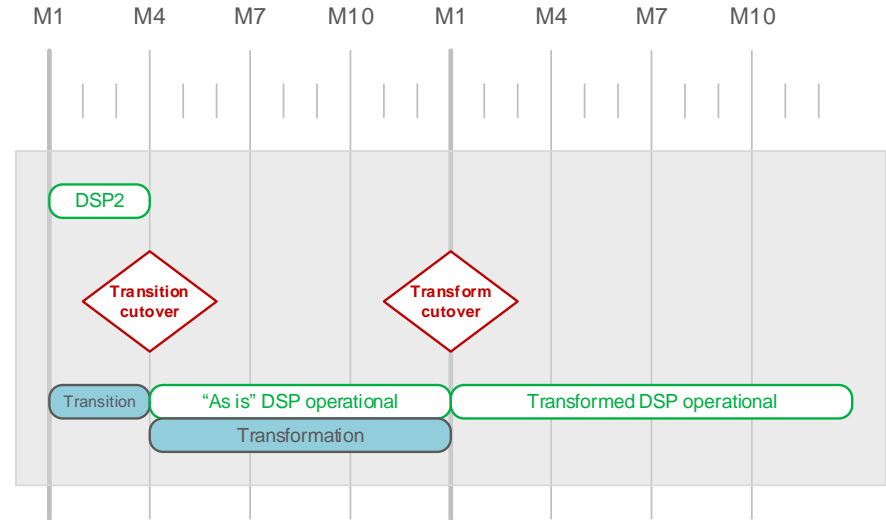Sustainability

Social value
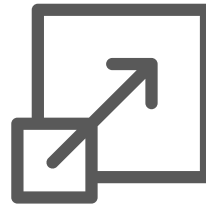
Scalability

Policy influences

Ease of transition and integration

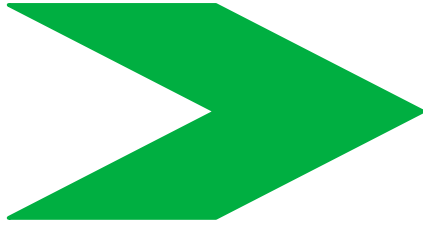# Potential implementation approaches

1. Parallel running

| M1 | M4 | M7 | M10 | M1 | M4 | M7 | M10 |

DSP2 operational

Cutover

DSP3 implementation | DSP3 operational

2. Transition and transform

| M1 | M4 | M7 | M10 | M1 | M4 | M7 | M10 |

DSP2

Transition cutover

Transform cutover

Transition | "As is" DSP operational | Transformed DSP operational

Transformation

* timelines are for illustrative purposes

Procurement phases

1. Market engagement
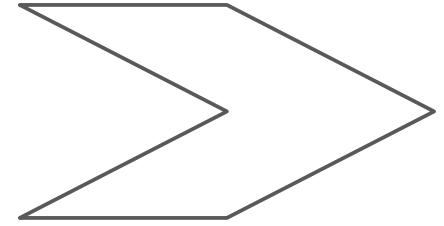
- Gain feedback
- Develop our approach
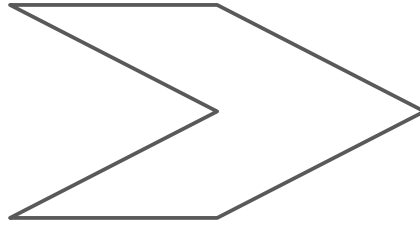
2. Selection

- Invite applications (6 weeks), estimated publication of Jan 2022
- Pre-qualify 4 tenderers
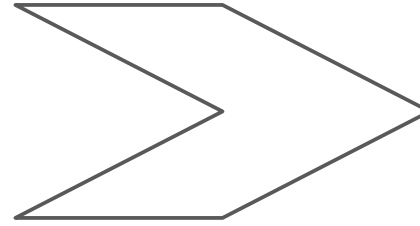
3. Dialogue

- Invite outline solutions
- Dialogue 6-8 weeks, including:
  - Transition
  - Solution
  - Future proofing
  - Payment
  - Performance
  - Value for money

4. Final Tender

- Invite tenders (5 weeks)
- Assess tenders
- Standstill period
- Award

Award criteria and social value

Defra is minded to adopt the following award criteria for DSP3:

- technical solution: 65%.
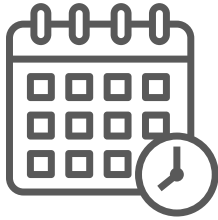
- social value: 10%.

- price: 25%.

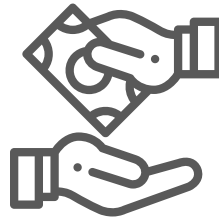Social value is now **mandatory** in government contracts.

Defra plays a leading role in IT sustainability in government.
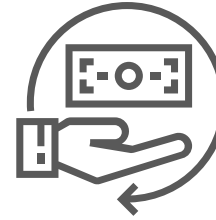
Key commercial principles

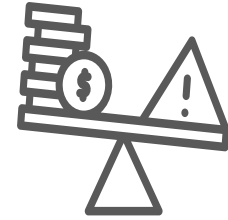Contract length (including options)

Payment mechanism and ongoing VFM
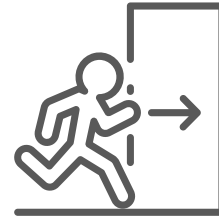
Performance regime

Financial recourses
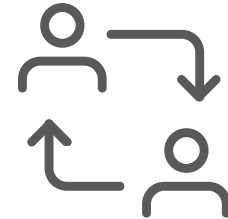
Risk transfer

Intellectual property

Termination rights

Exit

Financial distress

TUPE applicability

Next steps

- Prospective tenderers are invited to complete a market engagement questionnaire at https://forms.office.com/r/K8QswJ0khL by **Monday 20th September 2021 10:00**.

Break

Questions

Darpan Kaur

Project Manager

Department
for Environment
Food & Rural Affairs

Close

Darpan Kaur

Project Manager

Thank you