

Public

Data Sharing Infrastructure

Industry Webinar

12 December 2025

Opening Remarks



Marzia Zafar

Deputy Director of Governance for Data and
Digitalisation, Ofgem

Mobilising the DSI Coordinator & MVP



Alexandra (Sasha) Shipulina
Head of Data Sharing Infrastructure, NESO

Welcome and introductions



Ed Gold
Solution Architect



Paul Peterson
Project Manager



Mo Ebrahim
Enterprise Architect



Dave Belfield
Security Assurance Lead



Sasha Shipulina
Head of Data Sharing
Infrastructure



Cameron Shade
Senior Delivery Manager



Jonathan Barcroft
DSI Product Owner



Anca Marinescu
Stakeholder
Engagement Lead



Greg Johnston
Integration Senior Lead



Kaviya Sivaraman
Technical Specialist



Simon Evans
Programme Director,
Virtual Energy System



Maria Kordoni
Programme Manager,
Virtual Energy System

Vision and mandate

Government response to the energy system 'digital spine' feasibility study

Launching a data sharing infrastructure in the energy sector

*"To **inspire, lead and facilitate** the step change within the **energy sector data sharing infrastructure** and future digitalisation"*

Decision

ofgem

Making a positive difference
for energy consumers

Governance of the Data Sharing Infrastructure Decision

Publication date: 1/04/2025

NESO's "two hats"



DSI Coordinator

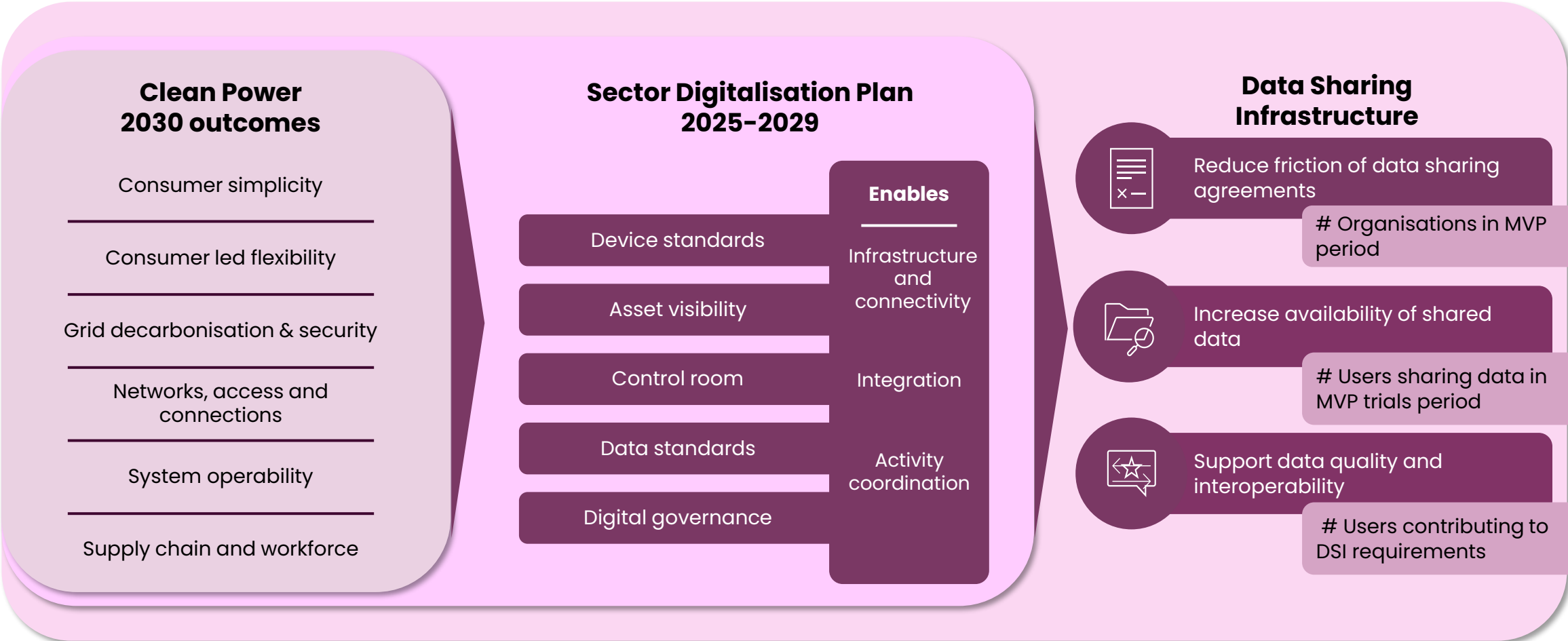
**Responsible custodian for the development
of the DSI on behalf of the sector**



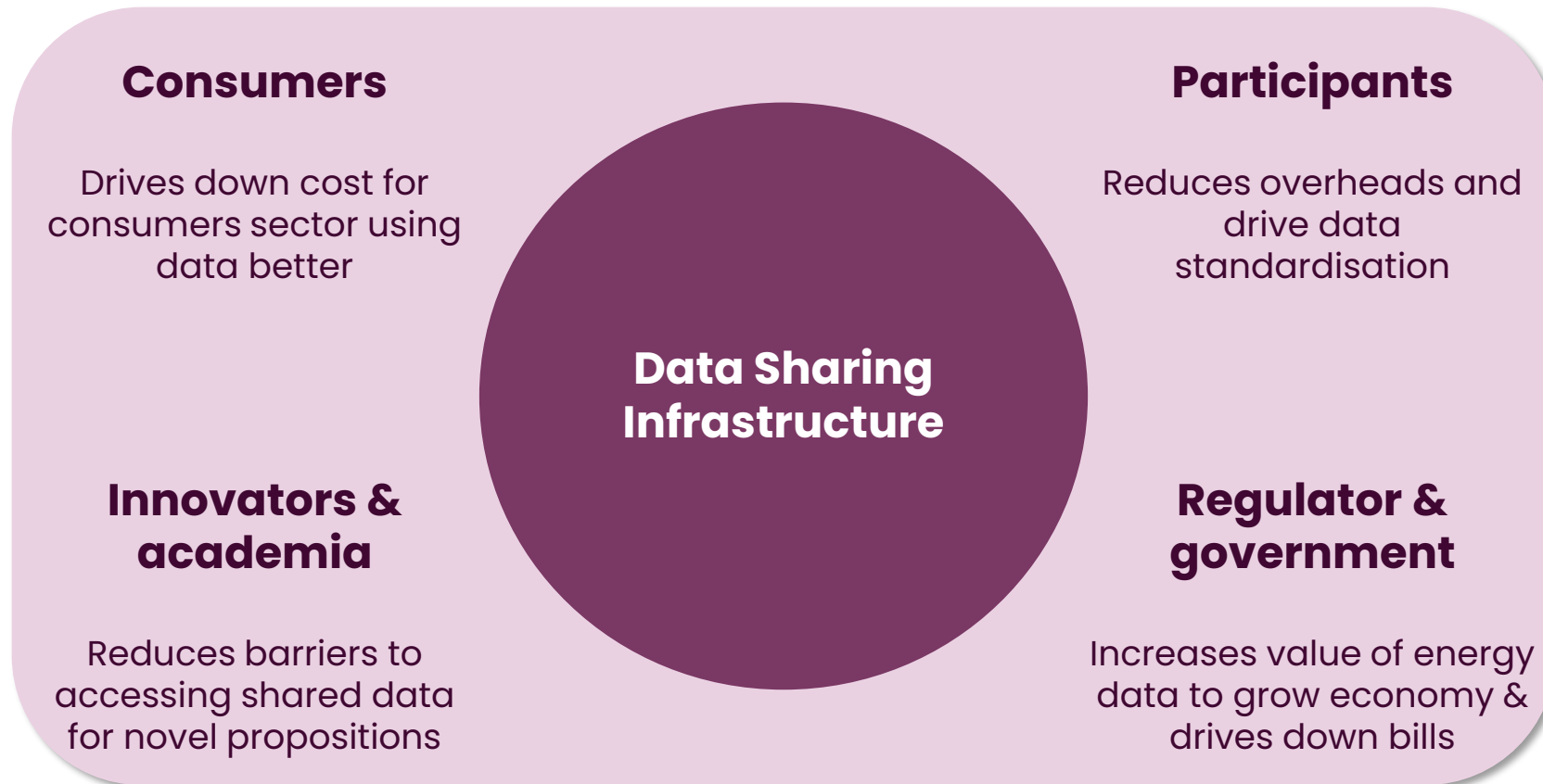
DSI Participant

**Gaining benefits from sharing and receiving
more data**

Target benefits and metrics



Impact for stakeholders

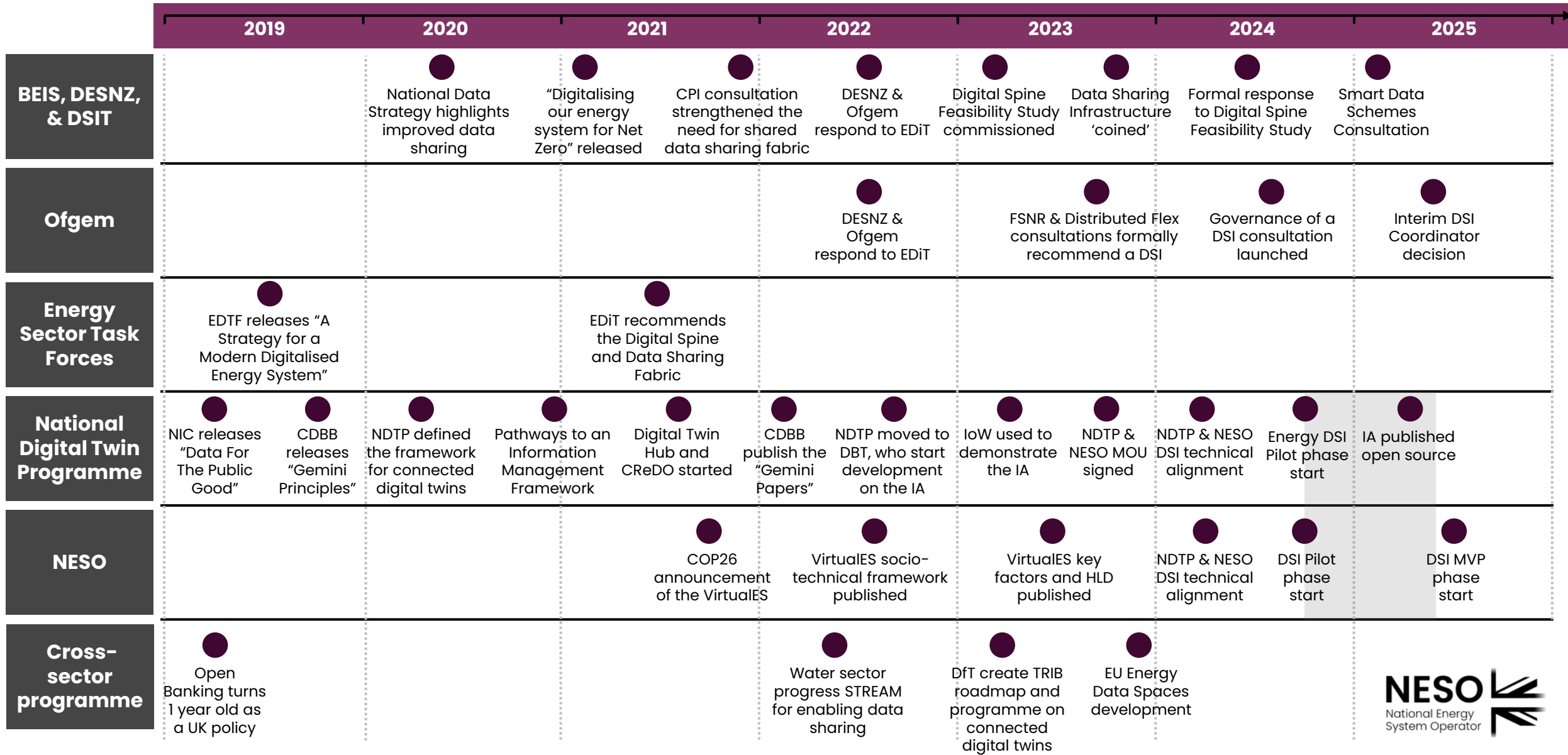


What is Data Sharing Infrastructure?



Jonathan Barcroft
DSI Product Owner, NESO

Public Publications & policies asking for improved data sharing



Data Sharing Infrastructure

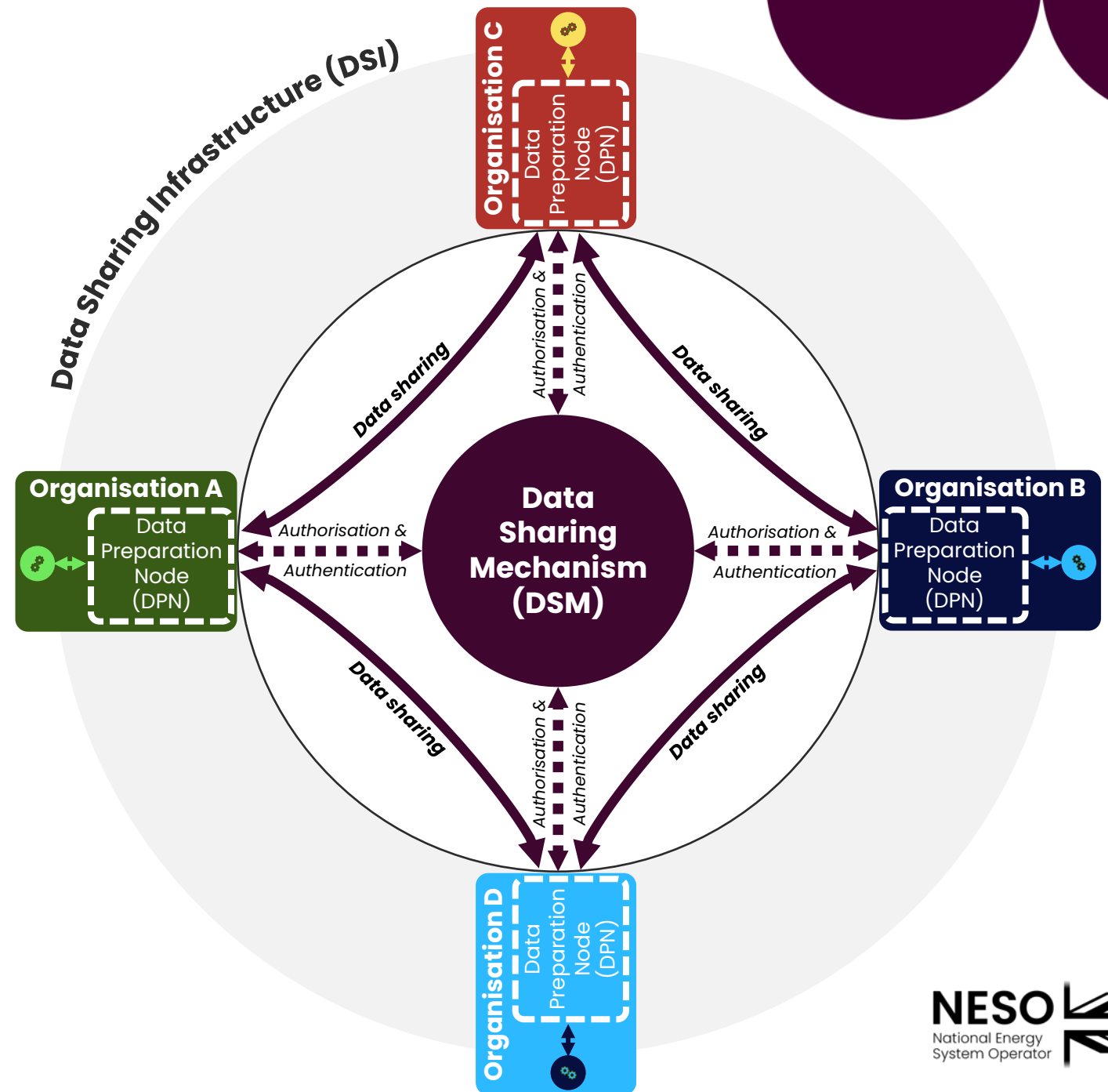
A **socio-technical** solution.

That reduces the **friction** and **barriers** to data sharing.

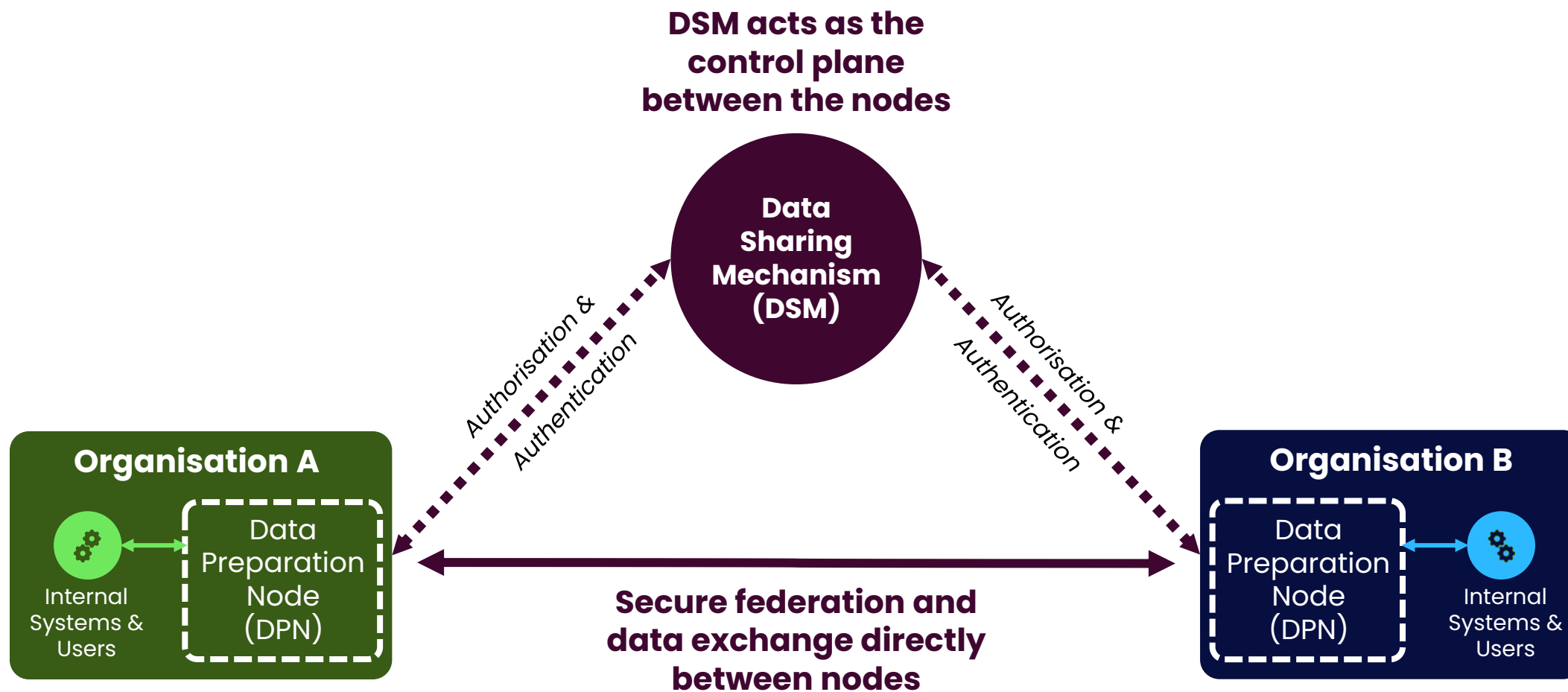
By providing a **secure, resilient,** and **scalable** method for sharing data and models between **any energy sector participants.**

Accelerating **trust, semantic interoperability** and facilitating **cross-sector** connectivity.

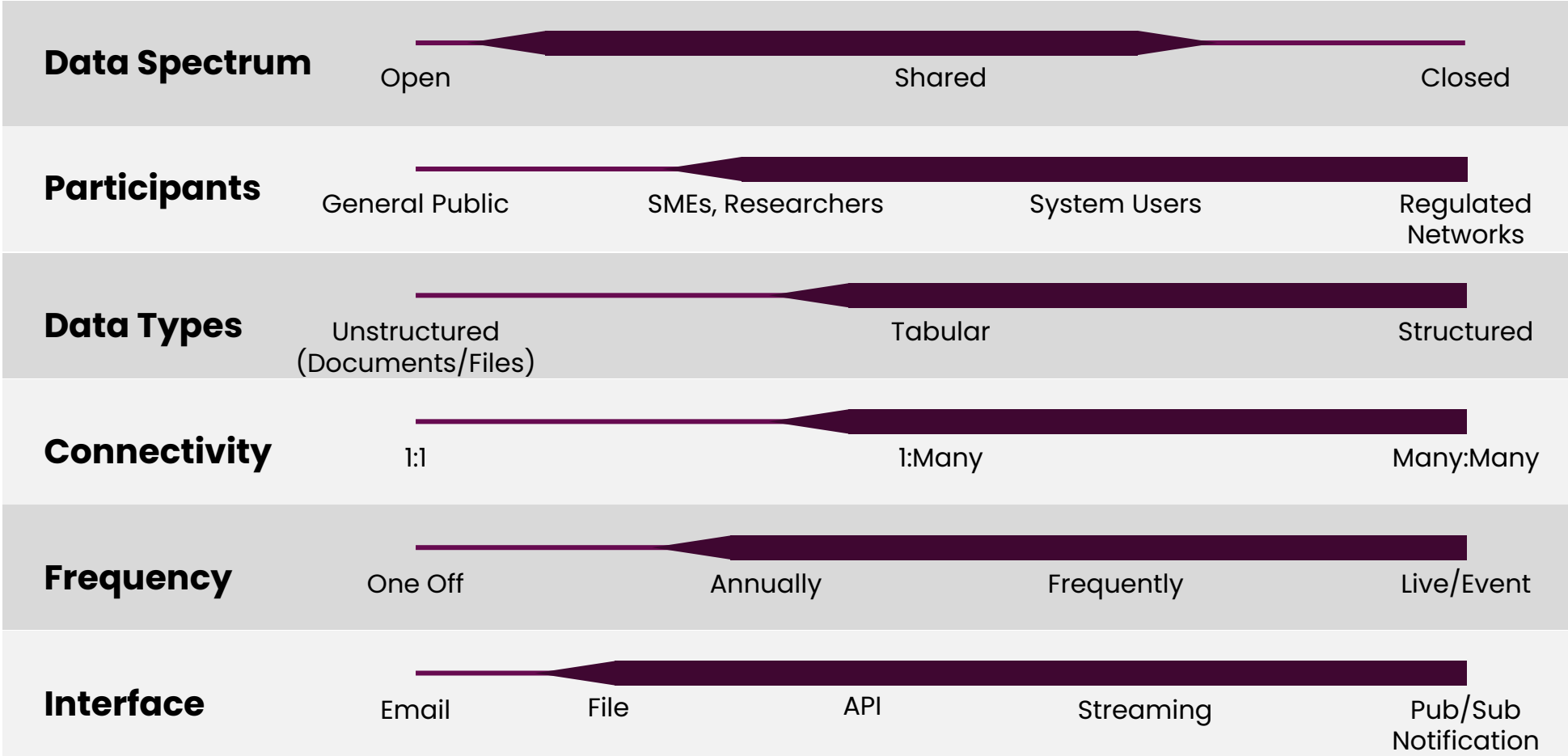
Enabling better **outcomes** for society, the environment, and the economy.



Data Sharing Interactions



Scope of the DSI



DSI target capabilities



Possible but not target

Architecture & design principles

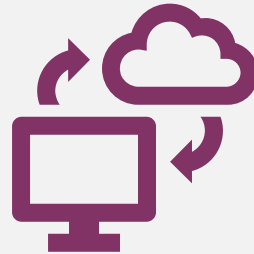
General principles	Organisational ownership	Self-service enablement	Federated computational governance	Low barrier to adoption	Use case driven approach
Data principles	Make data Findable, Accessible, Interoperable & Reusable	Data-as-a-product	Alignment with Ofgem Data Best Practices		
Technology principles	Use open standards and open source	Modularity and Optionality			
Security principles	Operate under a Zero Trust Architecture	Alignment with National Cyber Security Centre (NCSC) best practices and guidance			

Pilot objectives

6-month timebound proof of concept



**Evaluate DSI value
and user journey
validation**



**Deploy and configure
PoC of the DPN and the
DSM**



**Demonstrate secure
and standardised
data sharing**



Pilot summary

Outcomes

Built Proof of Concept (PoC)

Demonstrated secure data exchange

Tested upcoming changes GC139 / GB CIM

Demonstrated value opportunity

Showed reusable schema validation

Challenges

Complex deployment

Restrictive size

Limited automation

Time and resource pressures

Test environment challenges

In two words...

Adoptability

Lower technical prerequisites, simplify, focus on integration with existing capabilities.

Lift capability with supporting documentation, guidance and libraries.

Scalability

Delivering core capability quickly so users can get hands on and build use cases.

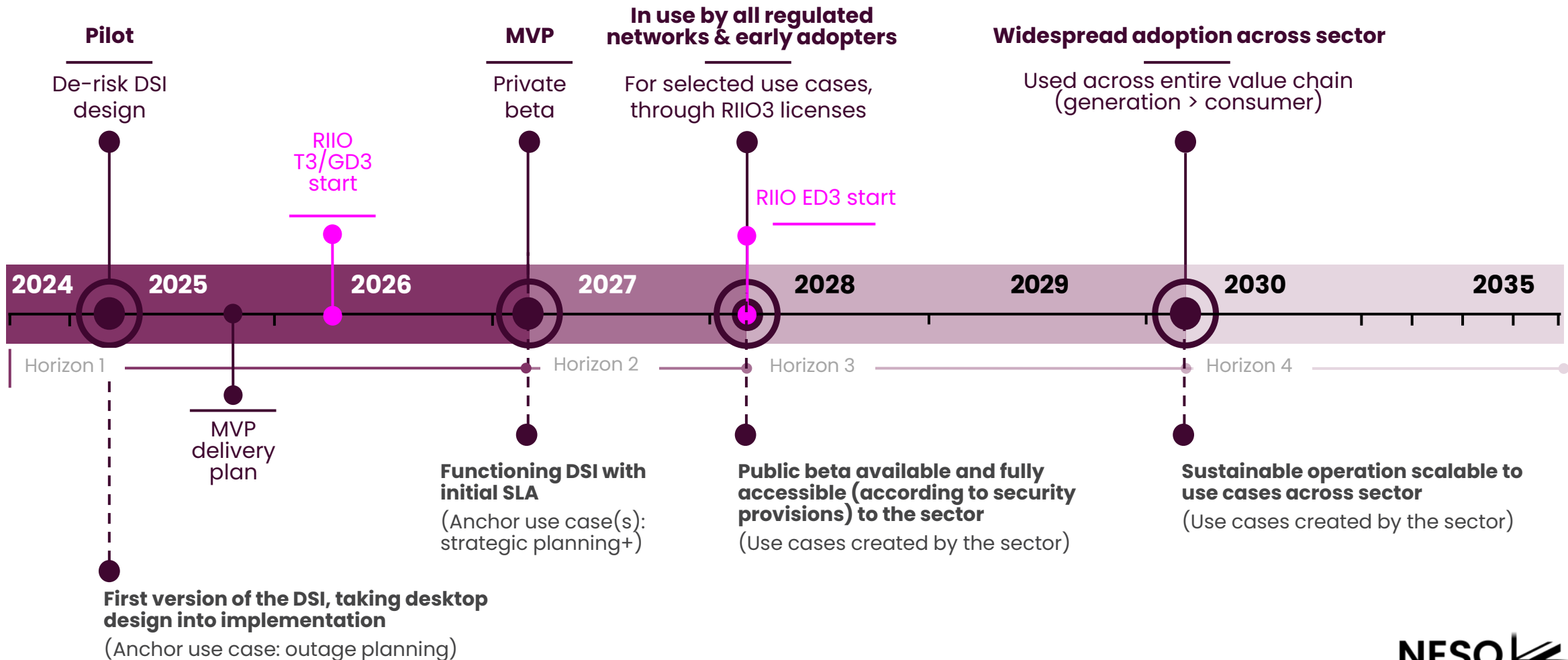
Support multiple integration patterns and data types.

MVP and the future



Alexandra (Sasha) Shipulina
Head of Data Sharing Infrastructure, NESO

DSI Roadmap



MVP delivery partners

MVP lead



Continued support



MVP participants

Electricity Distribution
Electricity Transmission
Gas Distribution
Gas Transmission
Market Service Providers

Delivery partners

ARUP

IBM



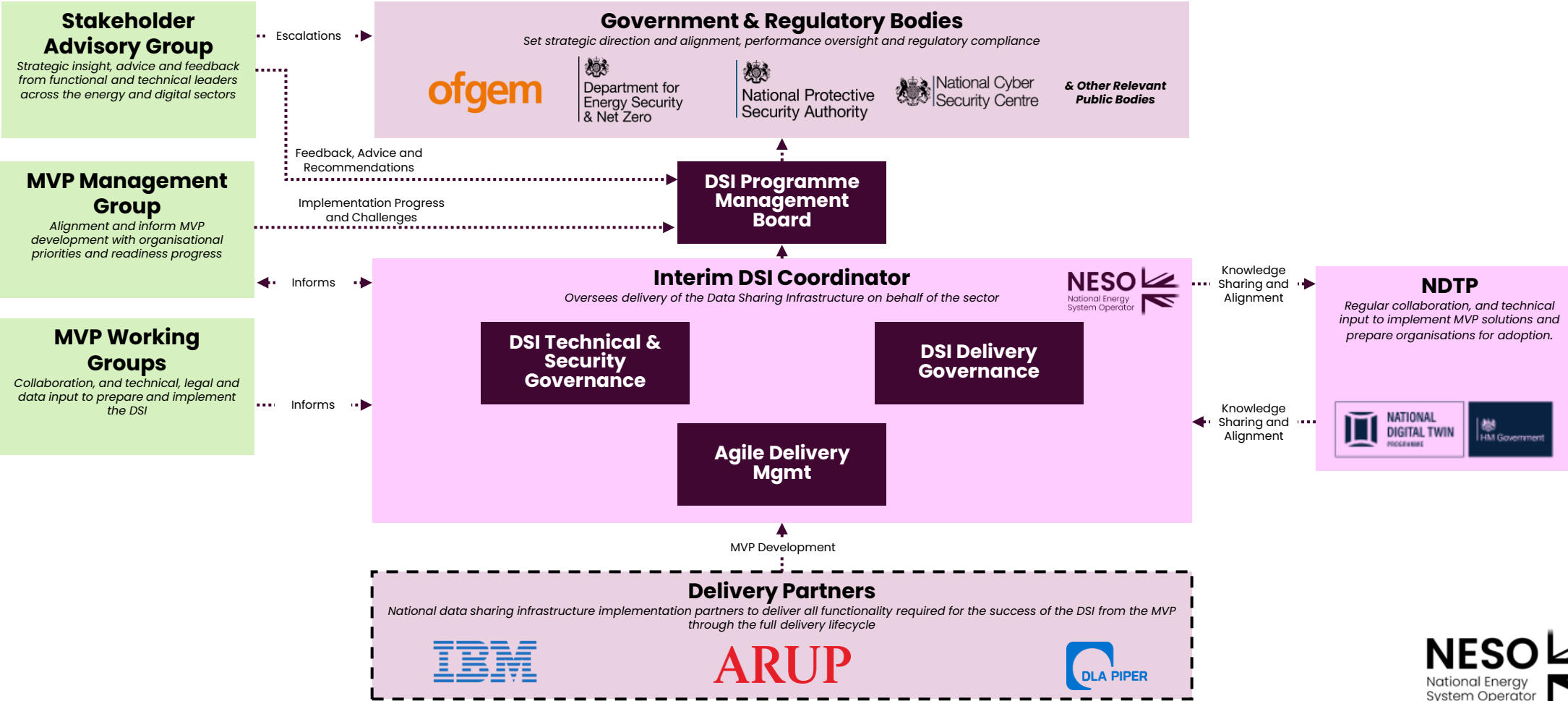
Observers



Department for
Energy Security
& Net Zero

ofgem

DSI Coordinator Governance



By May 2027 success in MVP is...

Develop MVP solution

Outcome: DSM and DPN delivered in line with the DSI specification and requirements catalogue.

Implement Trust Framework

Outcome: Participants can be onboarded with a clear understanding of their rights and responsibilities.

Provide operable service for trials

Outcome: Make early-stage service available for trials under a defined Service Level Agreement

What we need from you



Critical Friend



Expertise



Participation

Stay engaged

We're developing our role as the Data Sharing Infrastructure coordinator function and want to hear from you.

Feedback form

Webinars

NESO newsletter

DSI website

DSI@neso.energy

Shared Knowledge Base

Q&A

You can also email:
dsi@neso.energy

All questions via Slido
slido.com

Code: #DSI2025



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Thank you