

Data Sharing Infrastructure

Industry Webinar

8 May 2026

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The session will be starting
shortly

IMPORTANT

**This session is
being recorded**

**For privacy, cameras
and microphones are
disabled by default**

Opening Remarks



Duncan Stone

Deputy Director for Electricity System
Flexibility, DESNZ

DSI & Value



Alexandra (Sasha) Shipulina

Head of Data Sharing Infrastructure &
Sector Digitalisation, NESO

Case for change and benefits of the DSI

Data Challenges

Wider Data Challenges

- Inconsistent data
- Regulatory requirements
- Insecure, ad-hoc data sharing
- Complex bilateral agreements
- High integration overhead
- Digital and technical skills shortfall

+

DSI Adoption Data Challenges

- Data is fundamental to DSI value
- Data standardisation & interoperability
- Trust concerns & data sensitivity

What DSI Brings

We cannot just "fix" what we have, the DSI transforms the way the sector can share data...



Defines minimum data standards



Maps regulatory duties into a data sharing rulebook



Secure by design, aligned with NCSC



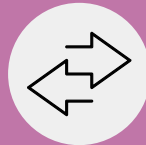
Legal framework replaces bespoke agreements



Streamlines & automates core data activities



... this transformation brings a range of benefits



Reduces manual effort in data prep & exchange



Maximizes reuse of legal agreements



Focusses cyber assurance resources



Reduces legal friction over data sharing terms

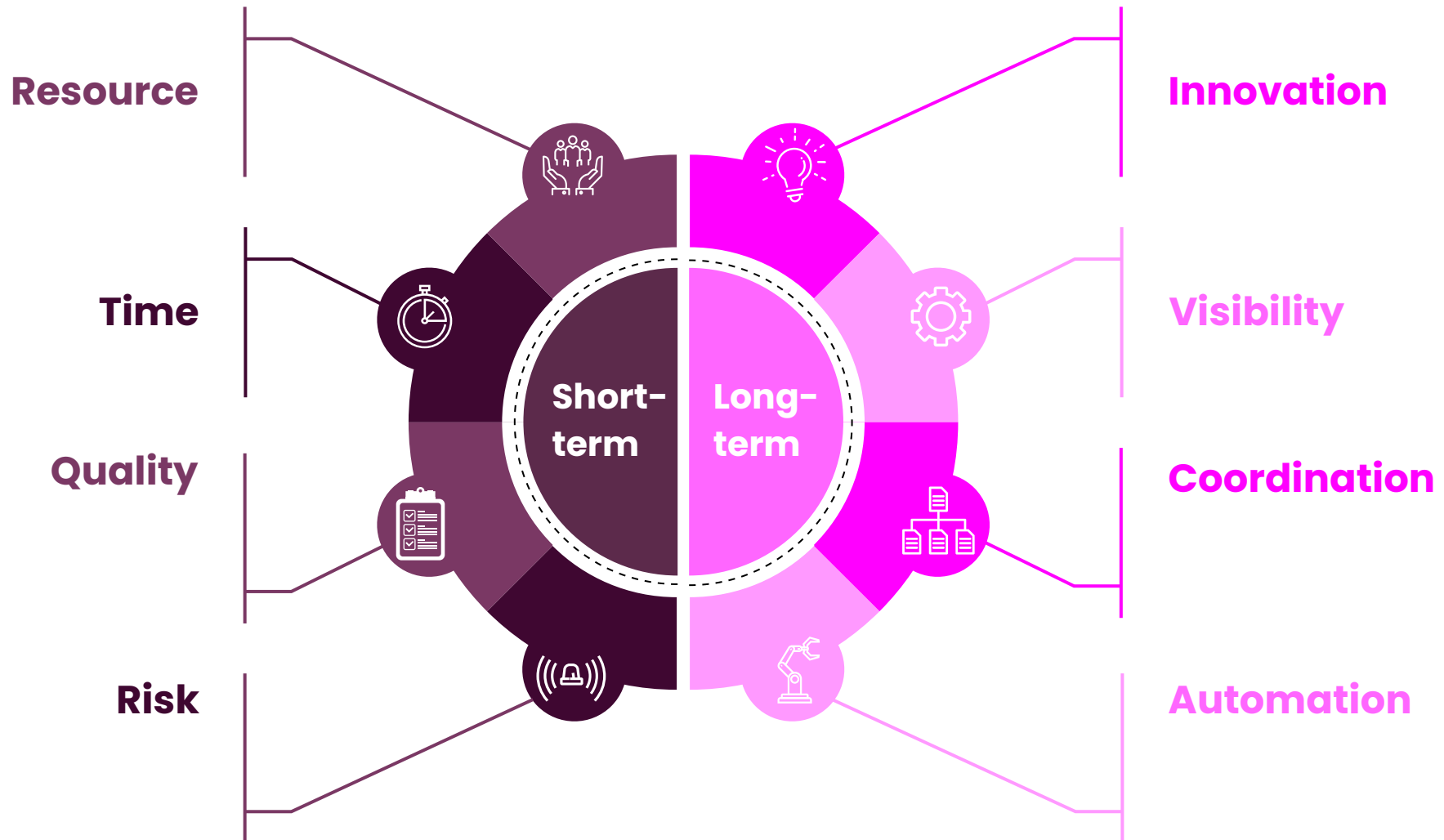


Increases speed of multi-party data sharing



Improves data quality & reduces operational errors

Value to Organisations and the Sector



Data Sharing Infrastructure

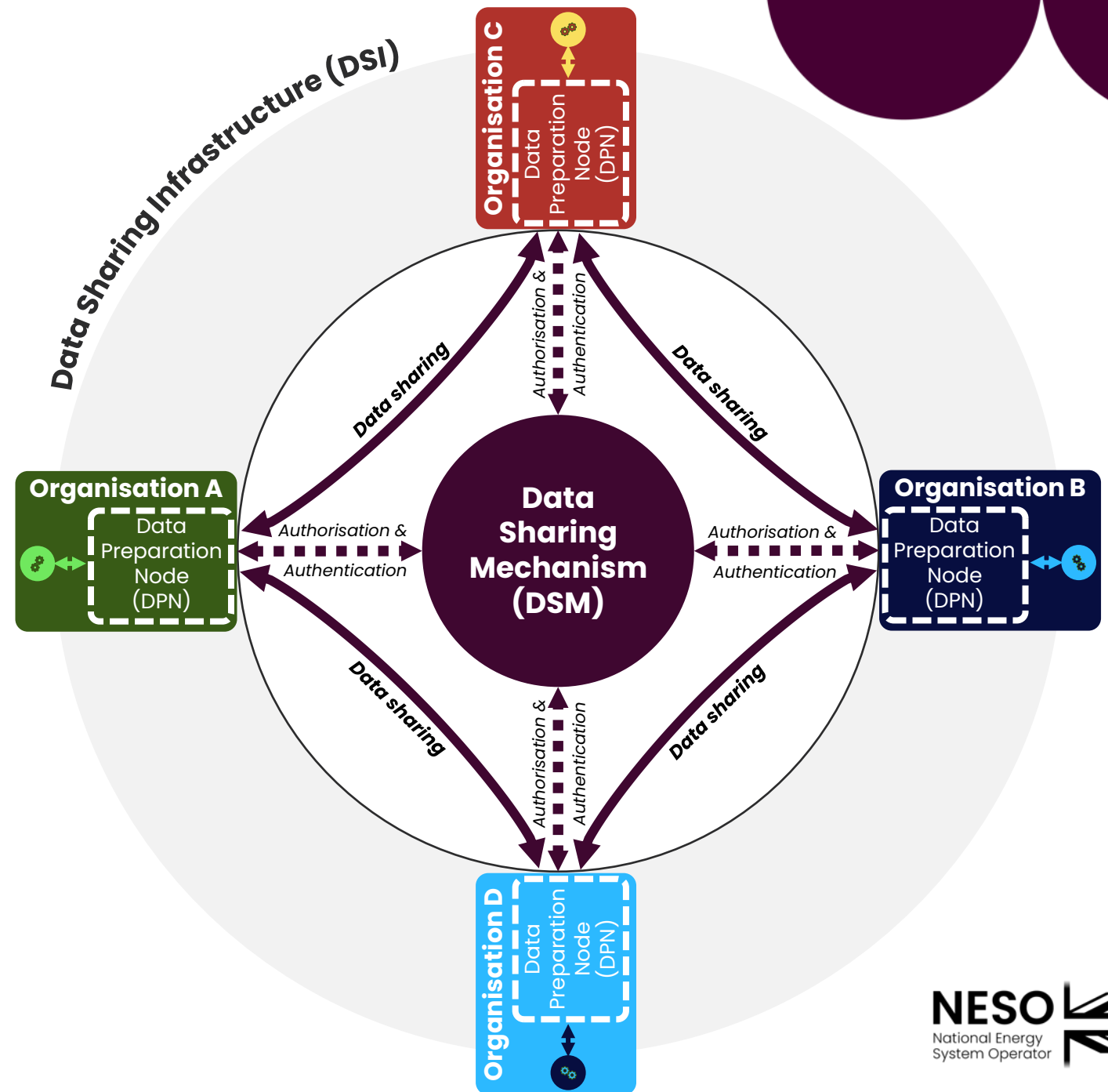
A **socio-technical** solution.

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

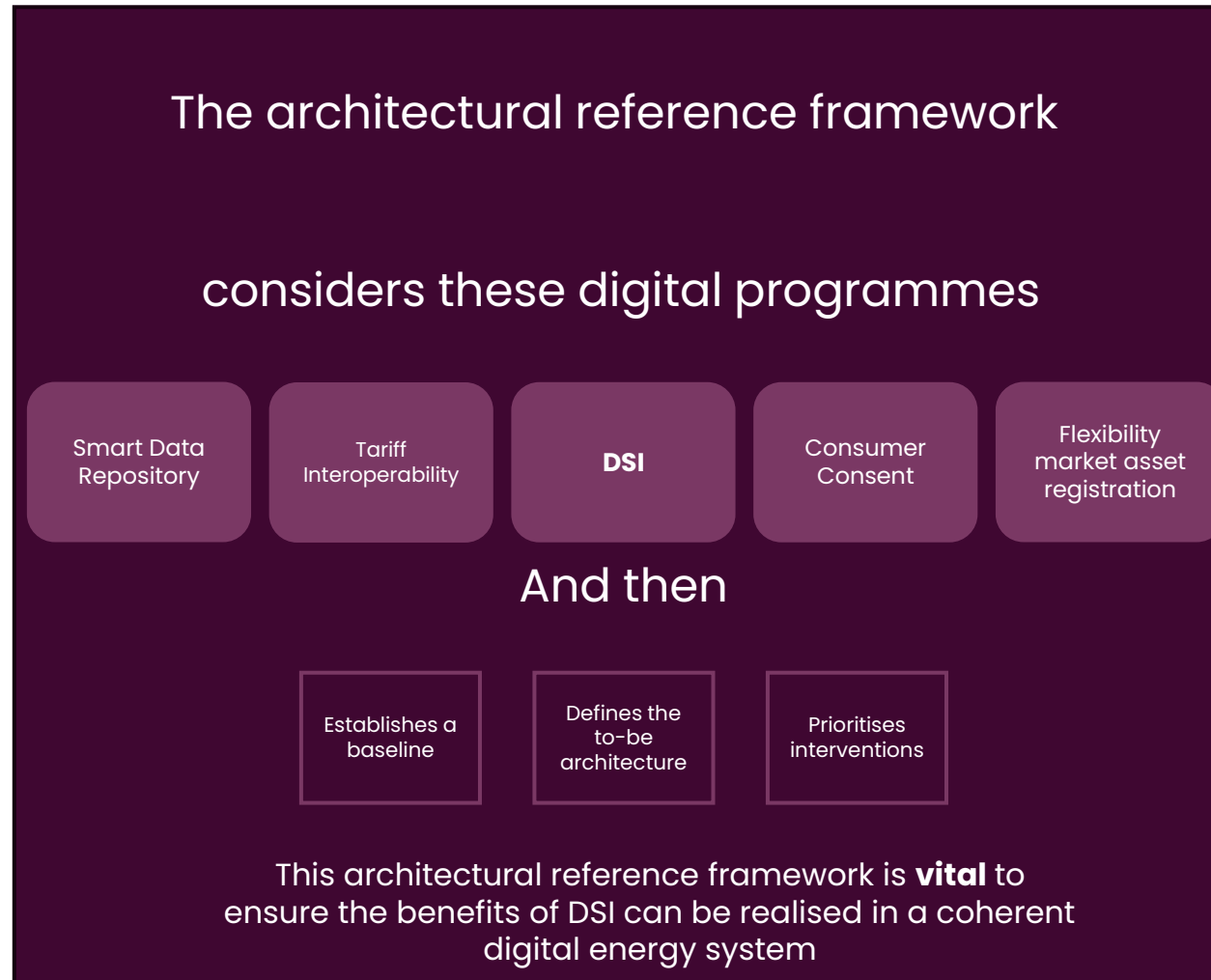
By providing a **secure, resilient,** and **scalable** method for sharing data and models between **any energy sector participants.**

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

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



DSI & wider context – Digital Infrastructure interoperability



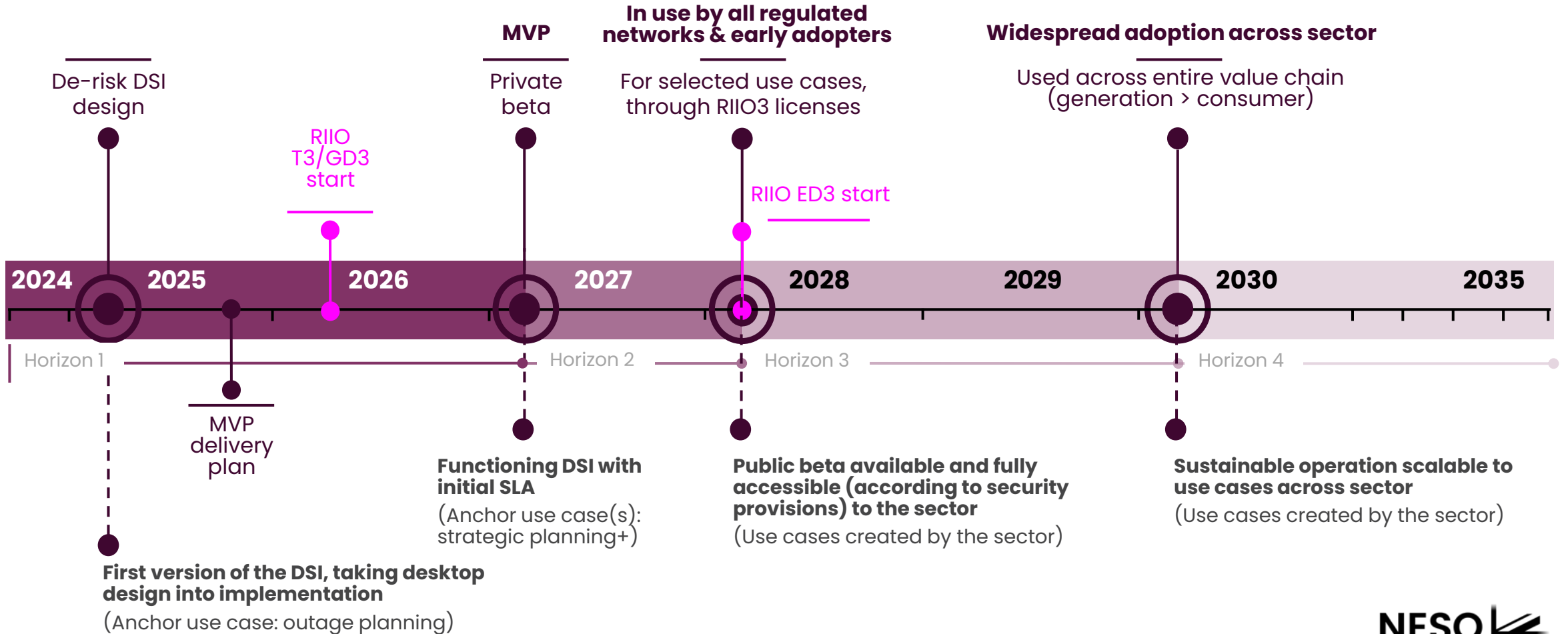
DSI timelines



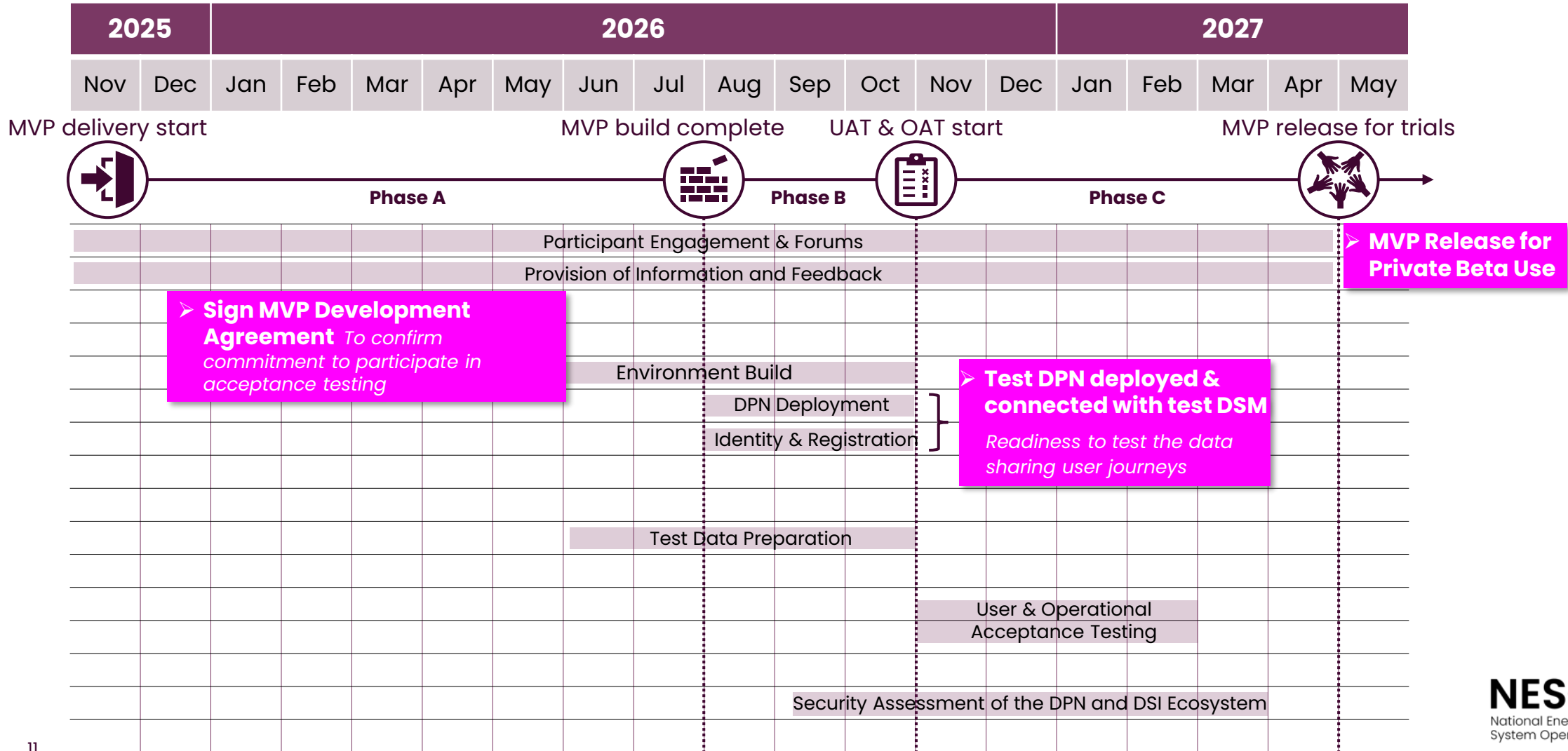
Alexandra (Sasha) Shipulina

Head of Data Sharing Infrastructure &
Sector Digitalisation, NESO

DSI Roadmap



Lookahead next 12 months



Illustrative MVP Use Cases

Use Cases	Use Case Description
Regional Energy Strategic Planning (RESP)	RESP integrates electricity, gas, and hydrogen planning into a single whole-system framework to give each region a consistent pathway toward net-zero and growth. Transitional RESP data products provide shared regional conditions and planning assumptions to support coordinated decision-making.
Powering Wales Renewably (PWR)	PWR develops a whole-system model of Wales using geospatial and network asset data, serving as a testbed for the DSI MVP. In doing so, it helps define and validate the data standards and products the DSI needs to support future whole-system planning.
Flexibility Market Asset Registration (FMAR)	FMAR standardises the registration of flexible assets and makes their data consistently accessible across all markets, improving visibility and removing fragmented processes. This enables 'register once, use everywhere' participation and is central to the Flexibility Digital Infrastructure and supports the growth of flexibility markets.
Gas Regulatory Reporting	Gas Regulatory Reporting involves GDNs submitting a structured regulatory reporting pack (RPP) to Ofgem each year, ensuring transparent reporting of performance against business plan commitments.

Trust, security & data quality



Jonathan Barcroft
DSI Product Owner, NESO

Documenting Trust

MVP Development



Trust Framework (from April 2027)



Participation /
DSI Access
Agreement



DPN Software
Licence



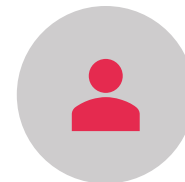
Service Level
Agreement



DSI Rule Book(s)

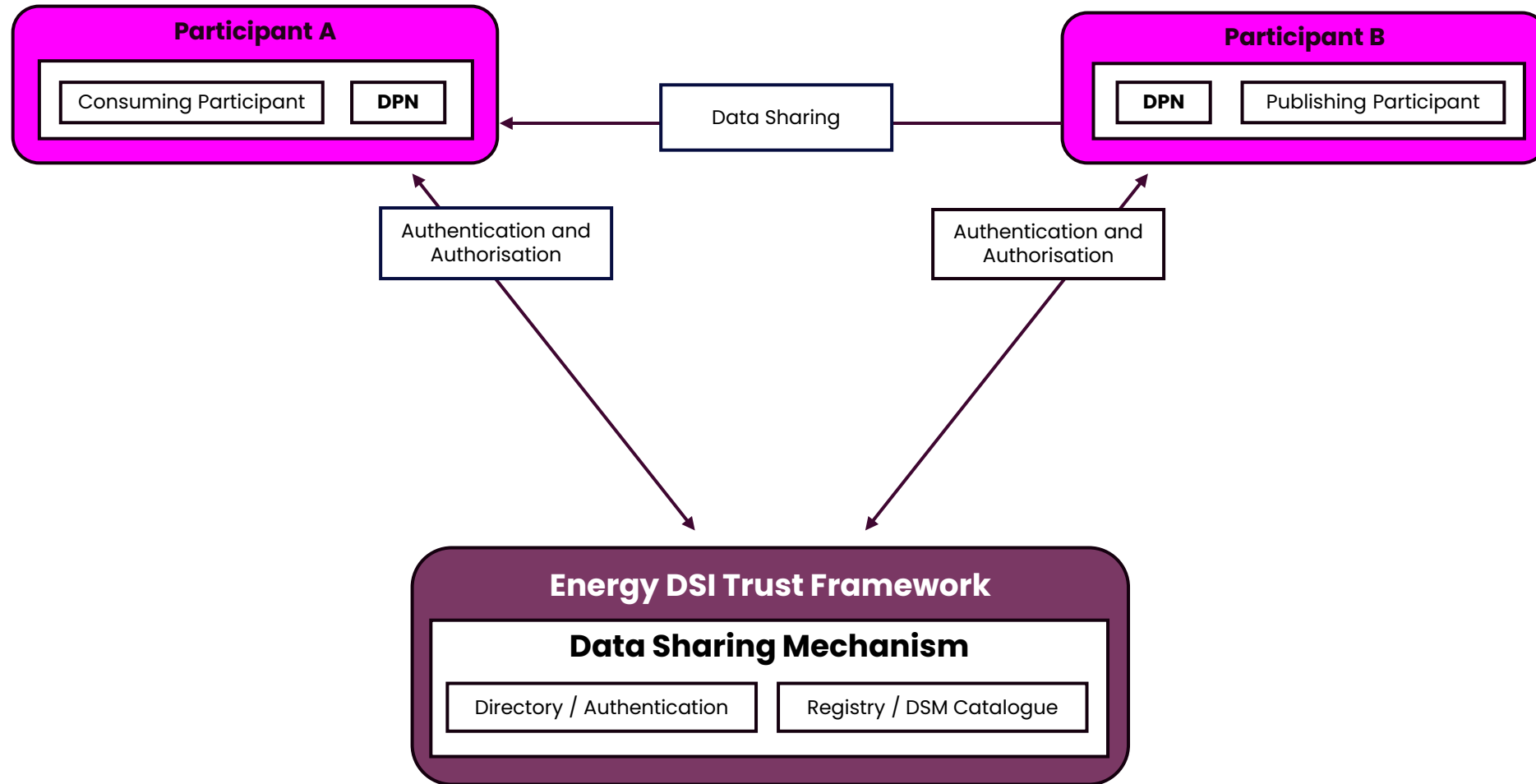


DSI Governance
Manual

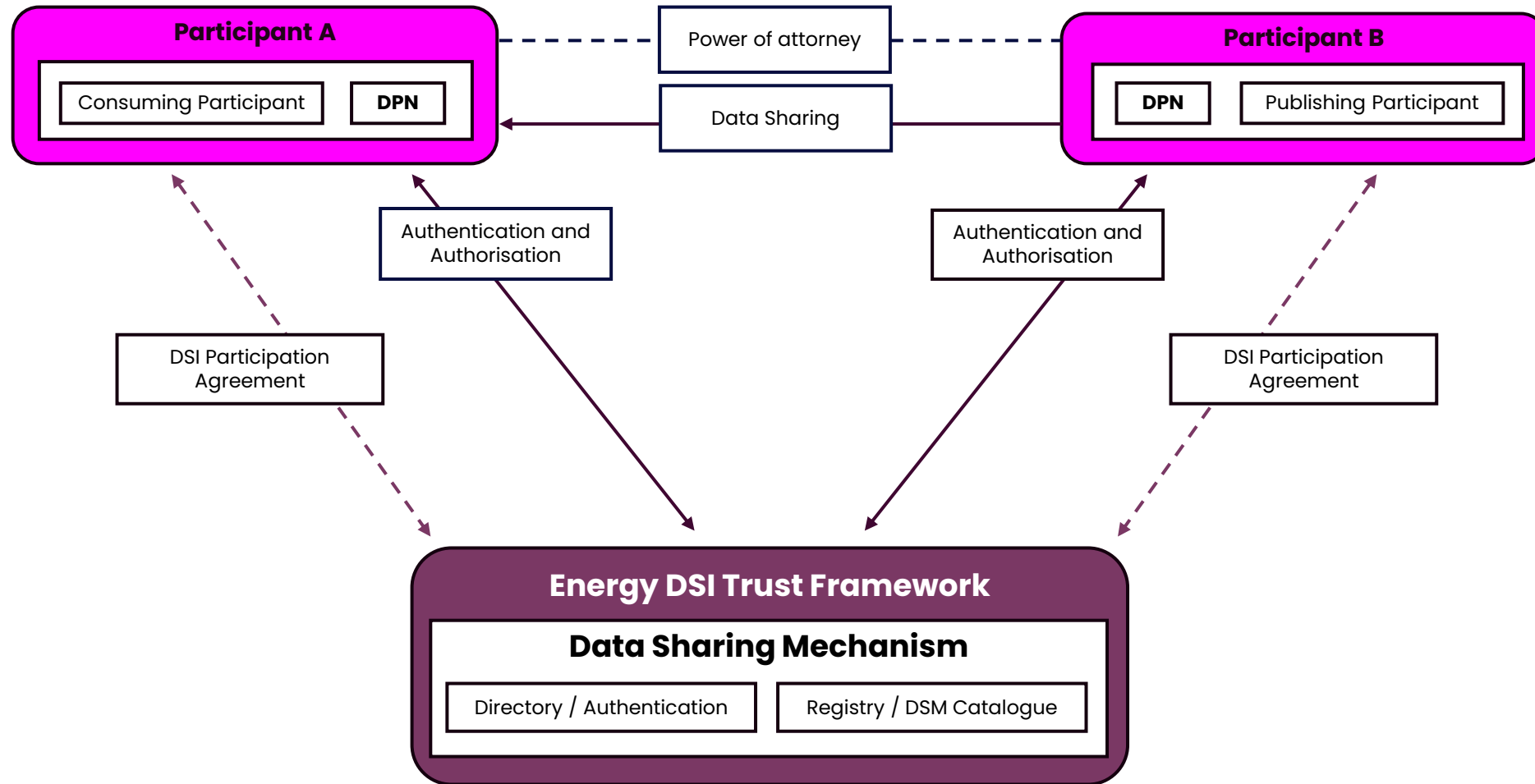


Data Sharing
Agreement

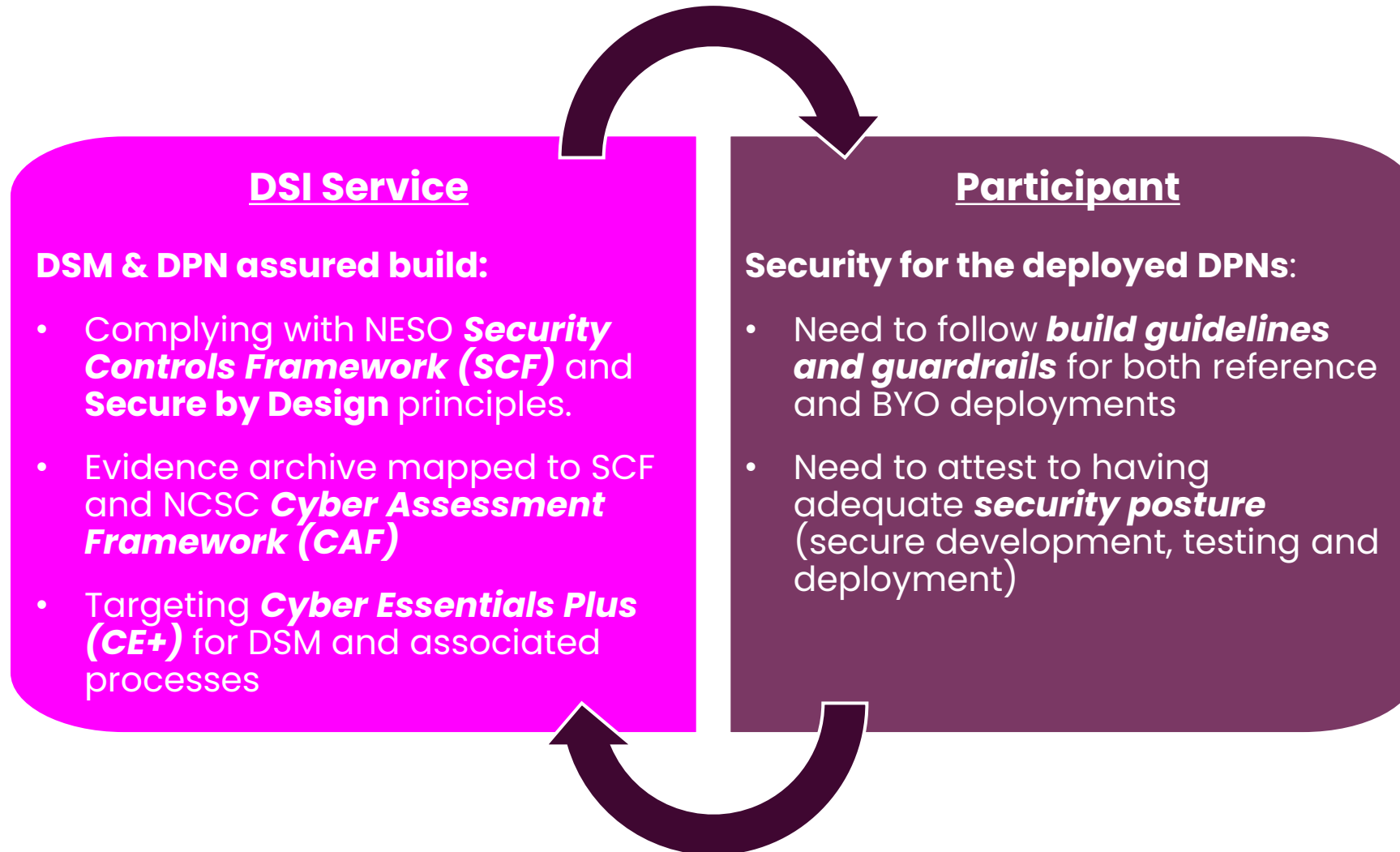
DSI Trust Framework



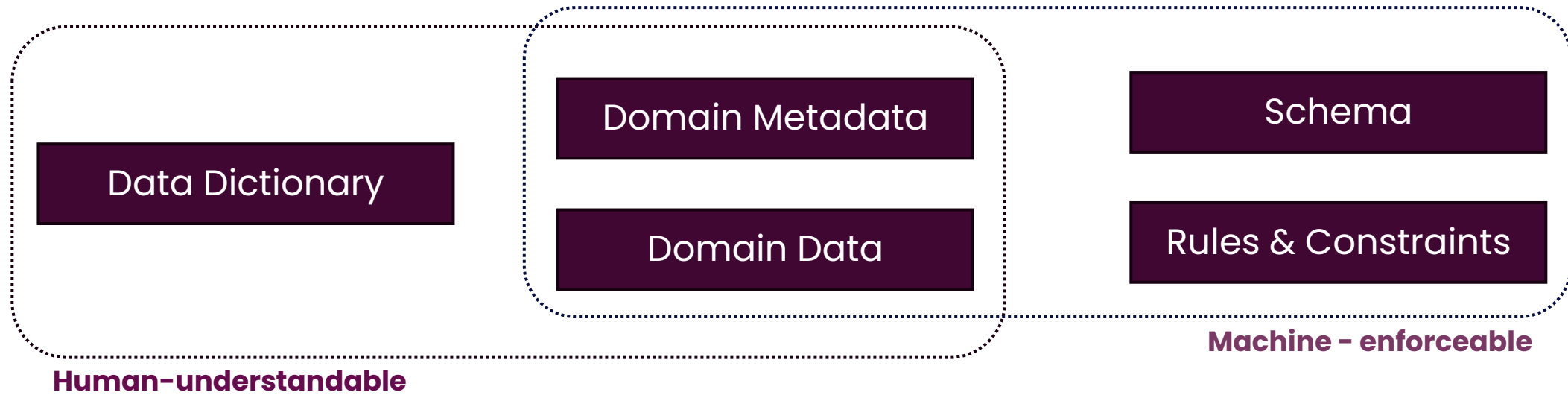
DSI Trust Framework



Security Assurance



Focus on data quality



Wireframe example



Jonathan Barcroft
DSI Product Owner, NESO

Organisation onboarding

Registering **your** Organisation

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- 1 Organisation Identification
- 2 Organisation Type
- 3 Organisation Details
- 4 Sector Role
- 5 Validation Documentation
- 6 Upload Documents
- 7 DSI Participation Agreement
- 8 Sign Agreement
- 9 Submit Organisation Registration

Section 1 - Organisation Identification

Step 1: Please select which type of organisation you are *

<p>Business</p>  <p>Lorem ipsum dolor sit amet consectetur.</p> <p><input checked="" type="radio"/> Selected</p>	<p>Government Body</p>  <p>Lorem ipsum dolor sit amet consectetur.</p> <p><input type="radio"/> Select</p>	<p>Non-Profit, Universities & Other Organisations</p>  <p>Lorem ipsum dolor sit amet consectetur.</p> <p><input type="radio"/> Select</p>
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Step 2: Search for your Companies House Number

Company Registration Number

02371854

Selected Company Name

Address Line 1
Address Line 2
City/ Town
Postcode

Are these your Details?

Please review the pre-filled details below and confirm that your both your organisation's details and accreditations are correct.

I verify that the details are correct/ matched etc.

Finding data



Explore the Data Catalogue

Search the data catalogue



[View All →](#)

[Assets - Electricity](#)

[Assets - Gas](#)

[Customer Demand & Consumption](#)

[Decarbonisation & Net Zero](#)

[Flexibility & SES](#)

[Gas Production, Storage & LNG](#)

[Generation \(Electricity\)](#)

[Infrastructure Planning](#)

[Networks - Electricity](#)

[Networks - Gas](#)

[Policy & Regulation](#)

[Retail & Supply](#)

[Safety, Security & Resilience](#)

[Systems Operations \(Electricity & Gas\)](#)

[Wholesale Markets & Trading](#)



View **Published** Data Products

[Take a look →](#)



View **Subscribed** Data Products

[Take a look →](#)

Data Product Template

NESO
National Energy System Operator

data sharing infrastructure

Search Tom Crow

Home Organisations Data Catalogue Your Data Products

Home / .. / Publishing Data Product

Create new Template for a data product

Create a new template for a data product, allowing you to detail the type of data product you would like to publish.

- Define Data Product
 - Name & Description
 - Data Theme
 - Data Standard & Schema, Metadata & Data Quality
- Data Sharing
- Data Licensing
- Review
- Publish Template

Section 1 - Define your Data Product Name & Description

Step 1: Please name and describe your data product template

Unique ID Template Title

Description

Template Organisation Owner Template Owner

Preferred Contact Email Address

Step 2: Template Use

Is this a private template for your organisation? Private Available to All Limited Use

Organisation Accreditations
Who can publish a data product against this template:

Individual Entities
Specific Companies that are able to publish a data product against this template:

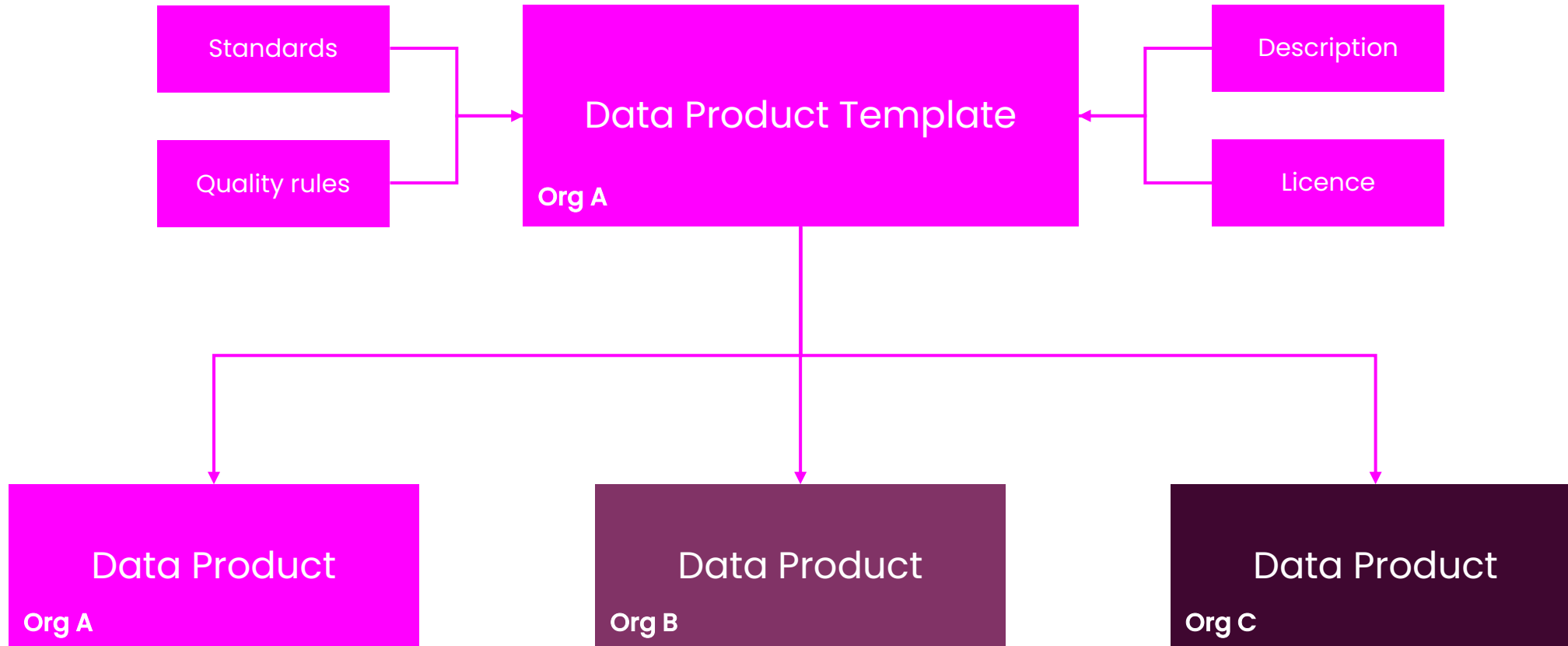
Data product

A data product is a managed collection of data assets which have been designed to support one or more business process.


Metadata


Metadata refers to structured information that describes, explains, or contextualises a data product.

Using templates to support standards




Describing data



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Home Organisations Data Catalogue Your Data Products

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- Publish Template

Section 1 - Define your Data Product Data Standard & Schema

Step 4: Set your data standard & schema

Data Type Type of data to be shared	The data will be Structured dataset
Data Format Format of the data (e.g. JSON, XML)	The data must be in an JSON format
Data Standard Specific standard for the data	The data must adhere to N/A
Data Dictionary Specific schema and ontology applicable/ constraints	<div style="display: flex; justify-content: space-between;"><div><p>Search the Dictionary</p><input type="text"/> Lorem ipsum dolor sit amet consectetur. <input type="button" value="Select"/></div><div><p>Add a Dictionary</p><input type="button" value="Add"/> Lorem ipsum dolor sit amet consectetur. <input type="button" value="Select"/></div></div>
Data Schema Specific schema and ontology applicable/ constraints	<div style="display: flex; justify-content: space-between;"><div><p>Search the Schema Repository</p><input type="text"/> Lorem ipsum dolor sit amet consectetur. <input type="button" value="Select"/></div><div><p>Add a Schema</p><input type="button" value="Add"/> Lorem ipsum dolor sit amet consectetur. <input type="button" value="Select"/></div></div>

Step 5: Data Integration Pattern

Sharing Pattern The data sharing pattern that the data product is made available via	Data should be shared: REST API
Update Frequency How often the data product should be refreshed	Data will be refreshed every Quarterly once

Stay in touch

There are many ways to find out more & stay in touch

Shared Knowledge Base

Webinars

NESO newsletter

DSI website

DSI@neso.energy

[DSI Shared Knowledge Base - DSI Public Space - Confluence](#)