

Data Sharing Infrastructure

Industry Webinar

4 Sep 2026

Data Sharing Infrastructure

Industry Webinar

4 Sep 2026

The session will be starting
shortly

IMPORTANT
**This session is
being recorded**

**For privacy,
audience cameras
and microphones
are disabled**

Opening Remarks



Marzia Zafar

Deputy Director of Governance for Data and
Digitalisation, Ofgem

DSI & Value



Alexandra (Sasha) Shipulina

Head of Data Sharing Infrastructure &
Sector Digitalisation, NESO

Vision & Strategy – Building the digital foundations for GB's energy future

The vision

Britain's energy system is becoming more decentralised, data-rich and complex. Success depends on the ability to connect, understand and act on trusted information in real time.

"A future where everyone has access to reliable, clean and affordable energy."

Digitalisation provides the **coordinated and connected energy system** as prescribed in [Energy Digitalisation Framework](#)

Coordinated • interoperable • trusted

What digitalisation enables



Consumer choice

Give consumers greater choice and control in how they engage with the energy system



Growth and innovation

Accelerate innovation and investment across the energy sector and beyond



Cost-effective decarbonisation

Deliver the UK's goals while keeping the system secure and resilient

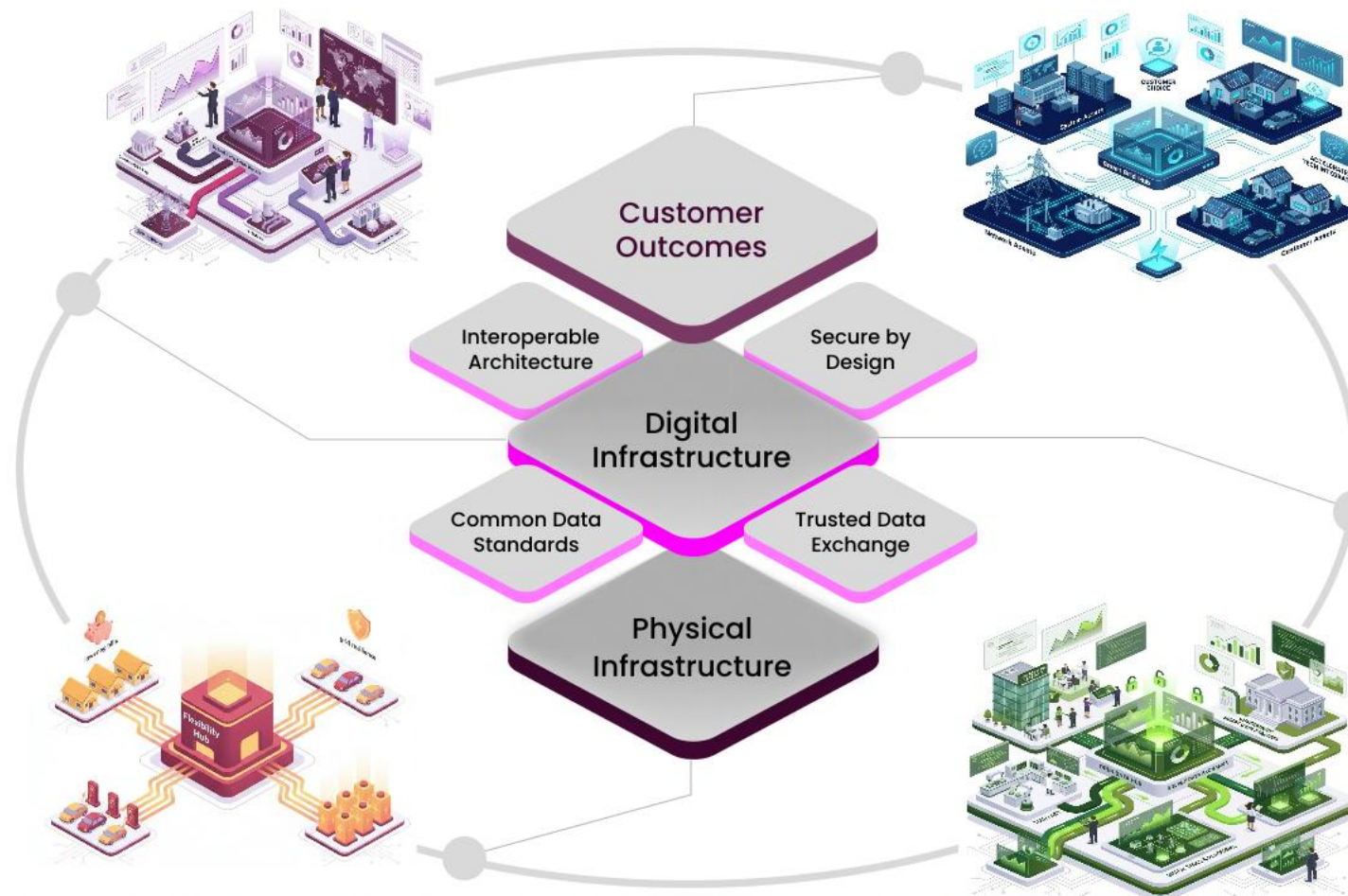
A smarter energy system creating national value

Unified System Planning

Living picture of an evolving energy system to support innovation, real-time and future operations. Data flows between government, local authorities, the operators of electricity, gas, and hydrogen networks, and the National Energy System Operator to invest in the right physical infrastructure at the right time.

Flexibility Unlocked

Consumers seamlessly provide flexibility to the grid - lowering bills and enhancing resilience. The DESNZ [Energy Digitalisation Framework](#) highlights the market for smart systems and flexibility could be worth up to *£1.3 billion to the economy and create around 10,000 jobs.



Adaptive Connections

Intelligent grid uses network, system & customer assets to create customer choice & accelerate tech integration. Clear visibility of grid capacity could save *£4.7 billion per year in avoidable costs by creating clear signals to developers and investors that support viable projects ([Energy Digitalisation Framework](#)).

Innovators Unleashed

Interoperability and open access to energy system data accelerates the UK's EnergyTech economy, supporting the [governments smart data strategy](#) ambition to unlock *£9.5 billion in net social value by 2043.

Unlocking these benefits requires a central body to set common standards, provide shared data infrastructure, and ensure the system digitalises in a way that works for all participants.

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



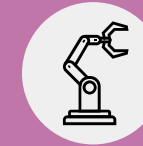
Maps regulatory duties into a data sharing rulebook



Secure by design, aligned with NCSC



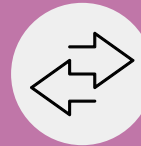
Legal framework replaces bespoke agreements



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

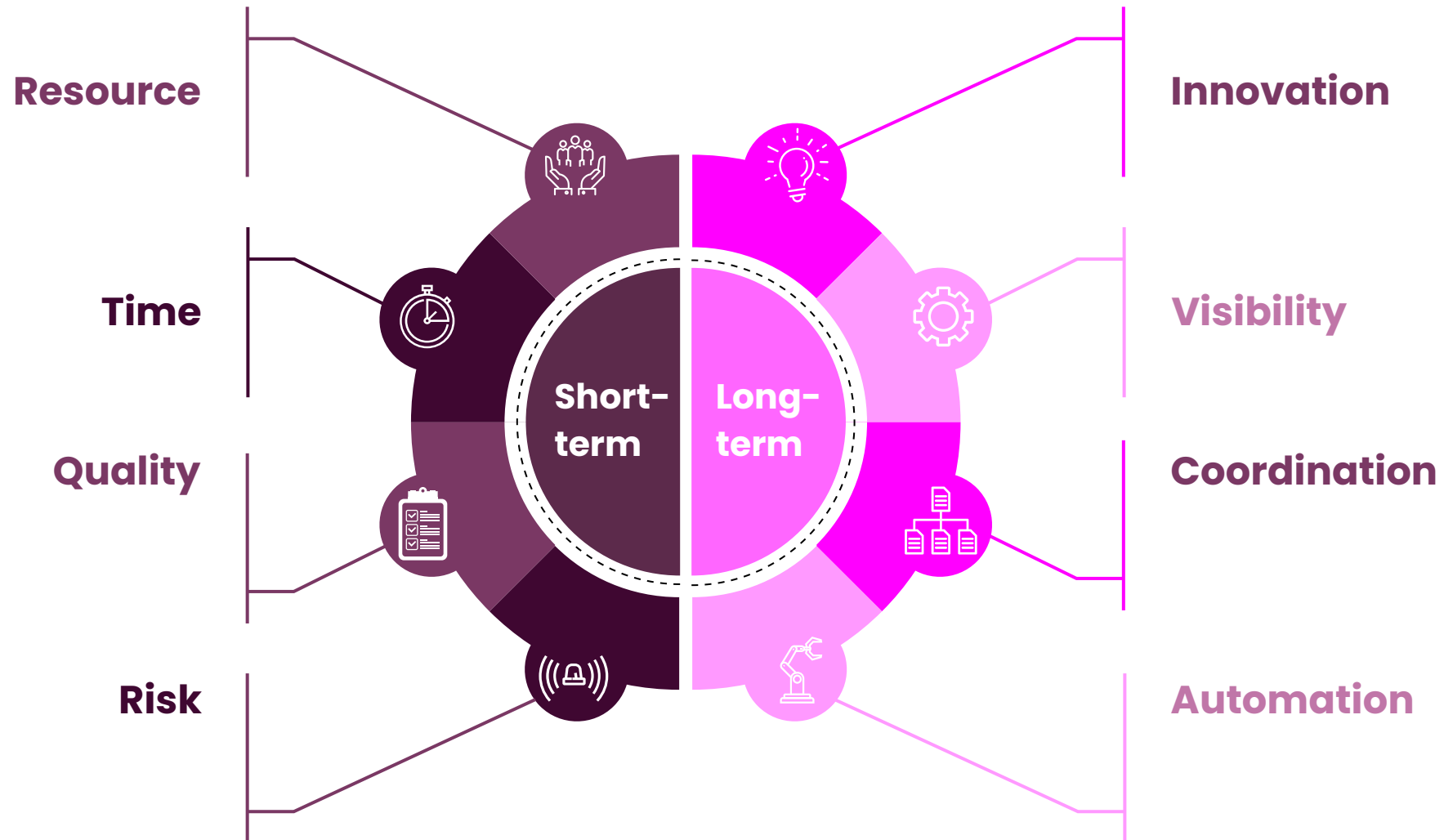


Increases speed of multi-party data sharing



Improves data quality & reduces operational errors

Value to Organisations and the Sector



Data Sharing Infrastructure

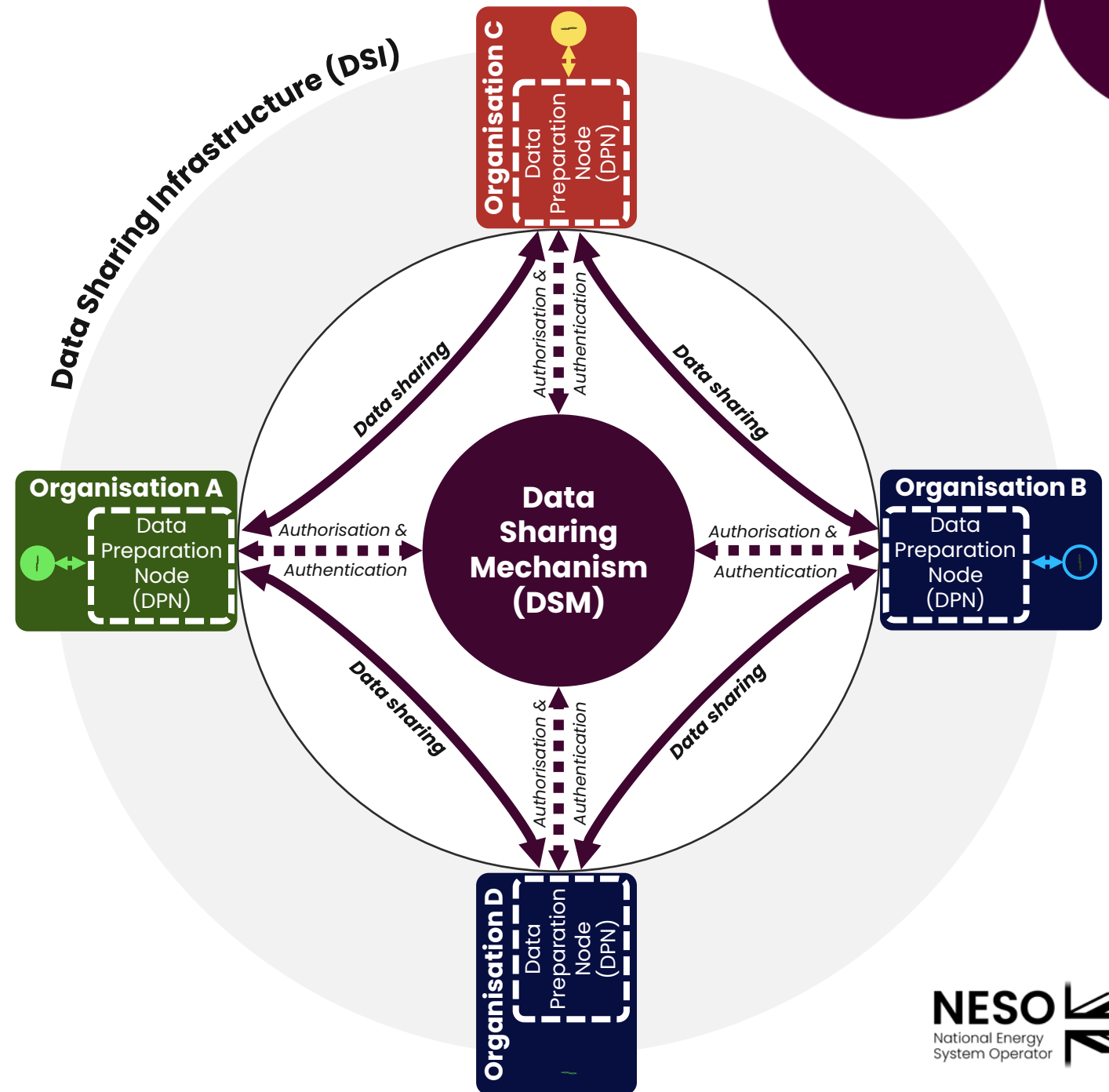
A **socio-technical** solution.

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.**

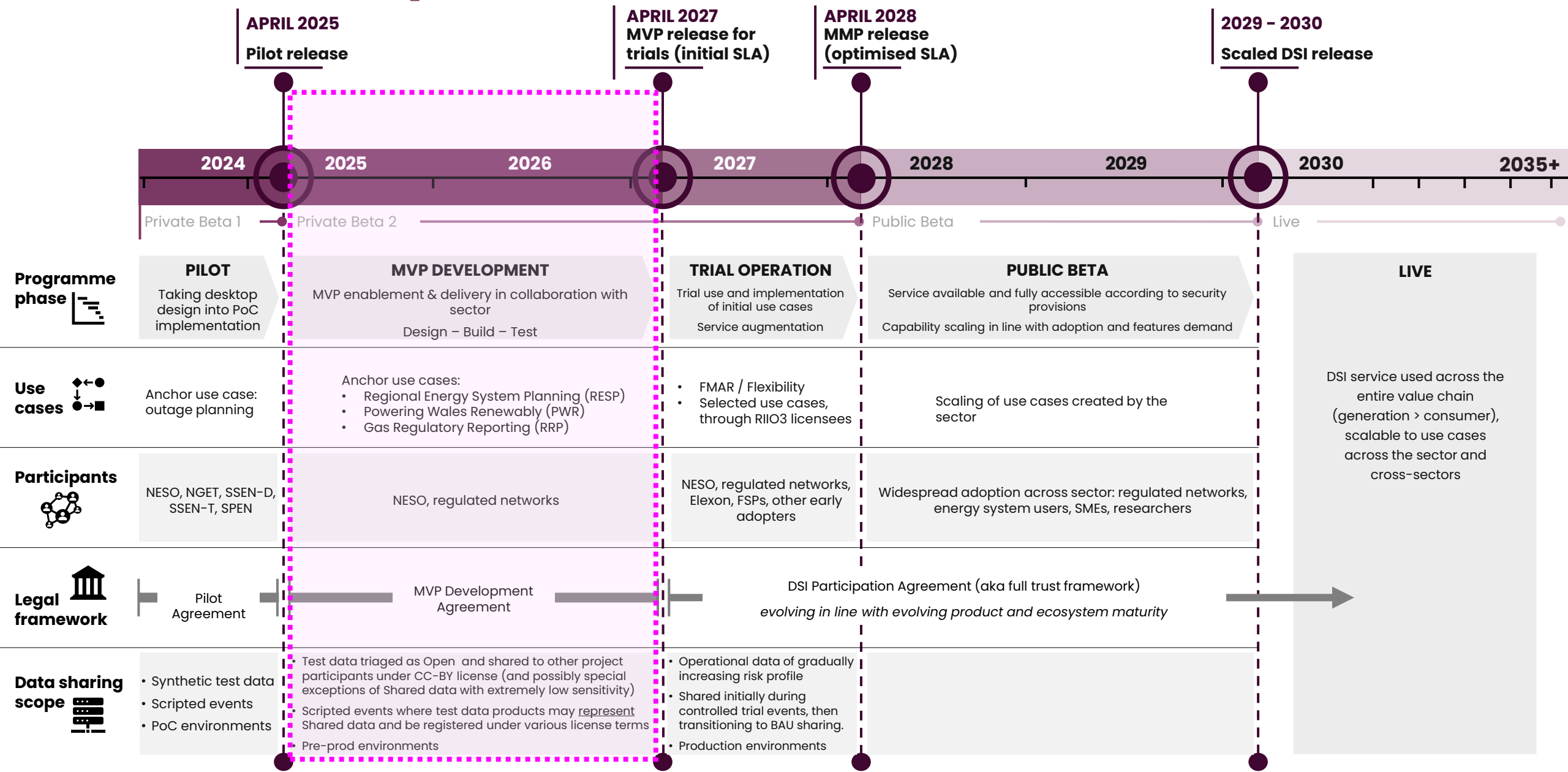
Accelerating **trust, semantic interoperability** and facilitating **cross-sector** connectivity.

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



Public

DSI Roadmap

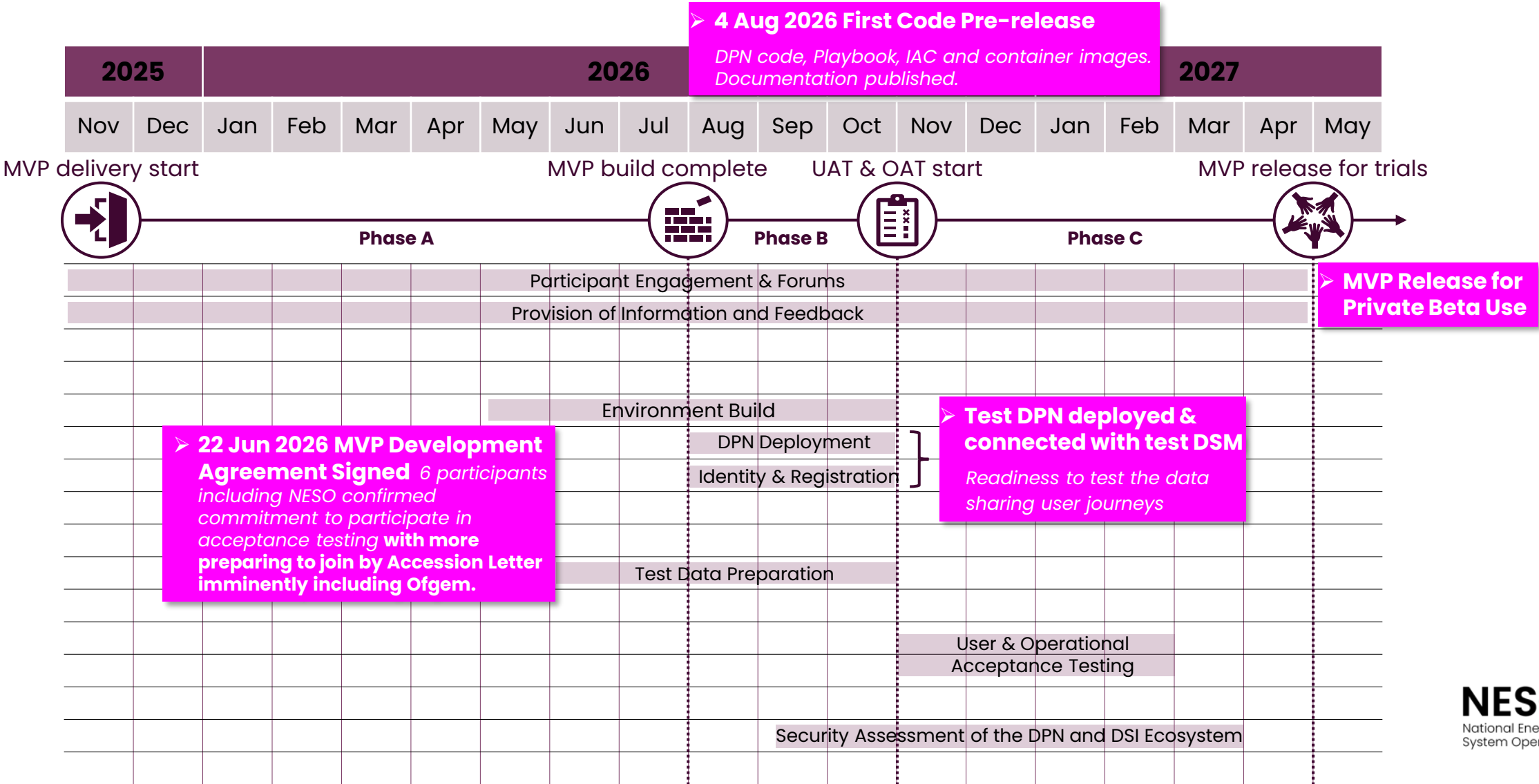


DSI Progress Update

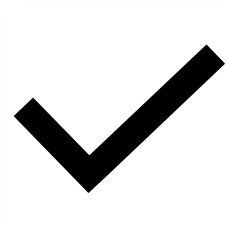


Jonathan Barcroft
DSI Product Owner, NESO

Progress update



Capability roadmap



Now

Participants can use the pre-production **DSI** to:

- Join and get set up
- Register your organisation
- Publish and discover test data products
- Request, manage and track data access

Participants can download the pre-production **DPN code** and:

- Deploy wherever you run
- Share and receive data
- Operate and monitor your DPN



Next

Key features planned (Programme Increments until release for trials ~April'27):

- REST based query pattern
- Improved coverage of notifications
- DPN health monitoring and reporting improvements
- Enhanced DSM Admin UI
- Enable shared DPN for legal entities in one org
- Integration with enduring trust framework
- Patching and hardening
- Refinements to documentation and guidance



Later

Post MVP backlog subject to demand and prioritisation:

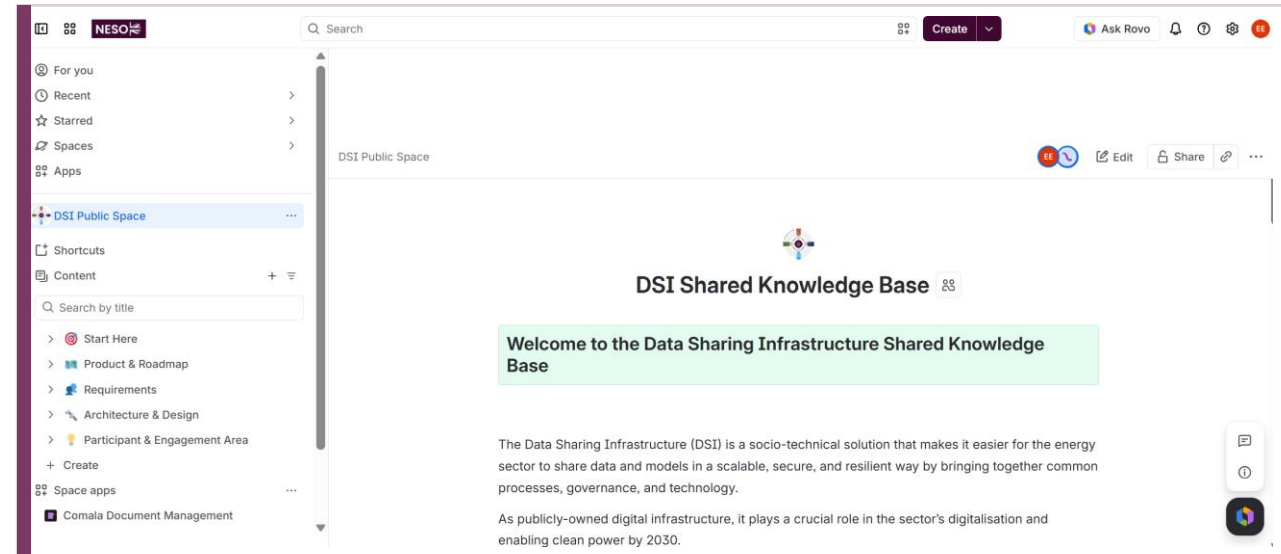
- Service levels and back-office scaled up for Public Beta
- DSM features to facilitate user engagement and community (e.g. review ratings, Q&A)
- Additional access control models, under consideration:
 - Pre-approval of specific user profiles e.g. accreditations, org type
 - Attribute level access control where subsets of the data product are accessible based on properties of user

First MVP Pre-release

4 August 2026

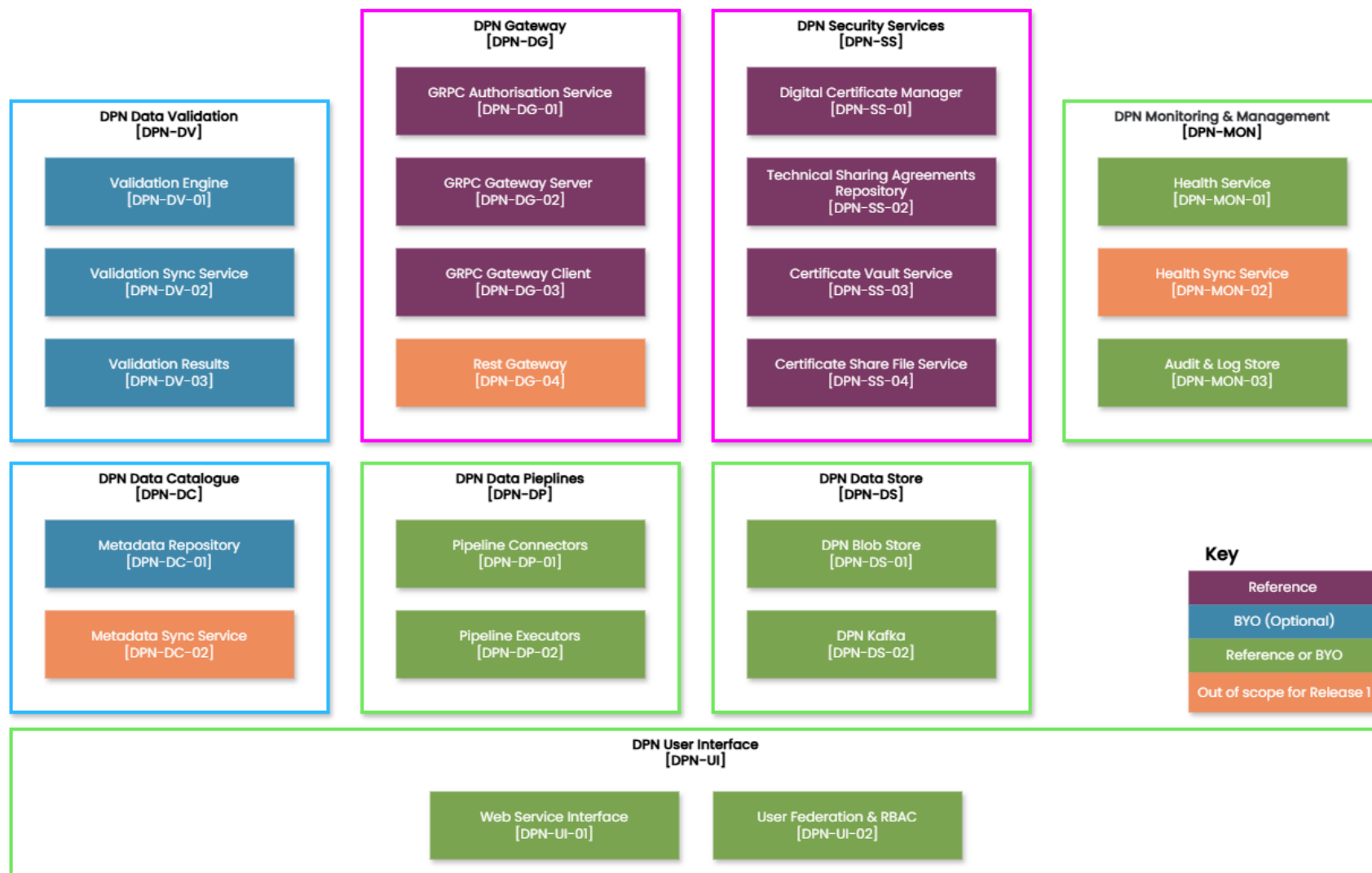
THREE CORE ARTEFACTS

- 01 | [Energy-DSI GitHub](#)
DPN code, DPN Playbook, IaC (Infrastructure as Code)
- 02 | [HLD](#)
High Level Design on the DSI Knowledge Base
- 03 | [DSM & DPN release notes](#)
DSI 0.9.0 release notes on the DSI Knowledge Base



High level node architecture

MVP Release 1 DPN Logical Architecture



Next steps



Jonathan Barcroft
DSI Product Owner, NESO

Enduring Trust Framework: from MVP to scale

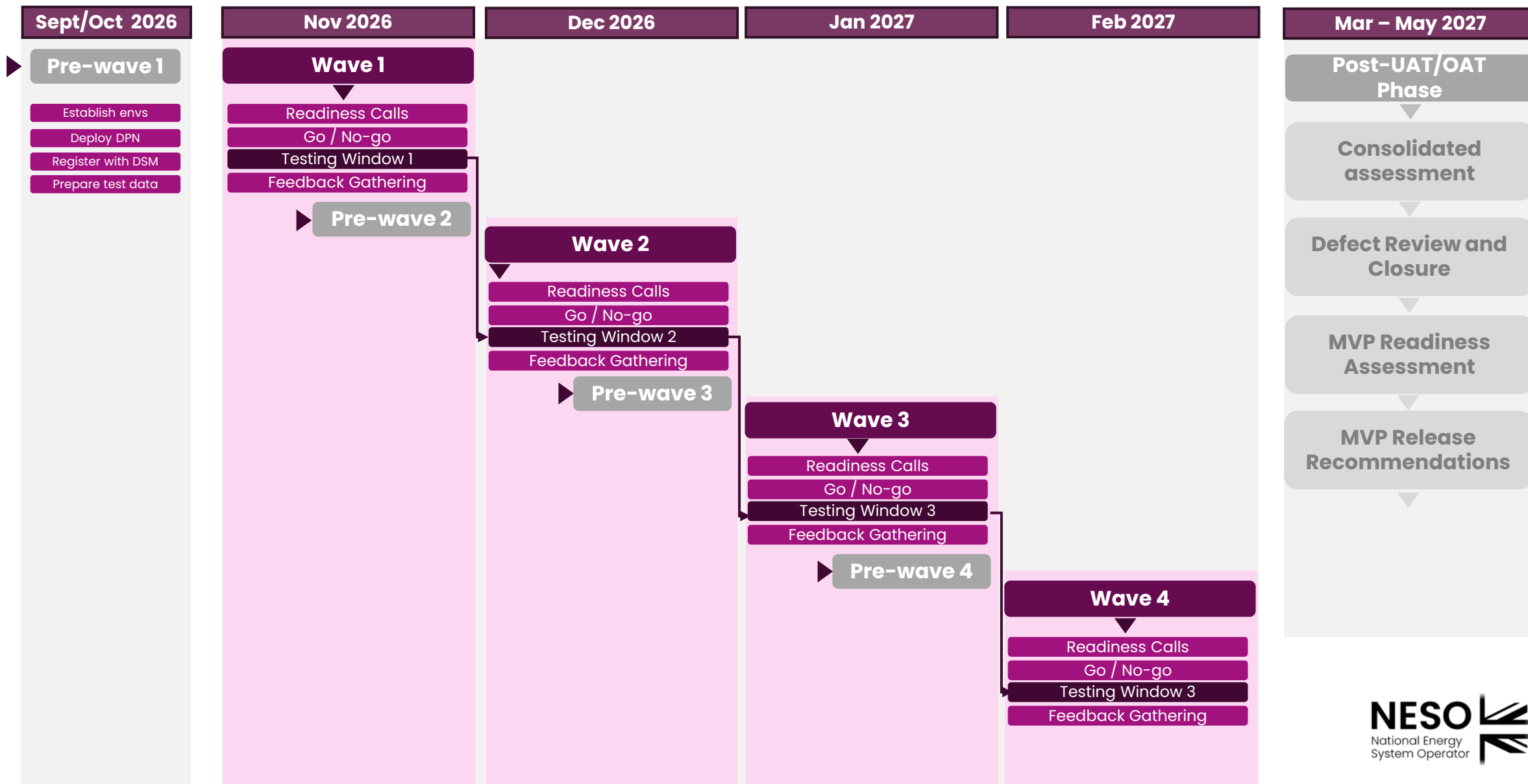
What the trust framework must define?

ENTRY	Formal legal agreement to be undertaken during onboarding
RULES	Set expected behaviours and responsibilities of users and coordinator
GOVERNANCE	Define how decisions will be made and how users are represented
DATA	Clearly define expectations for users on how data can be used and restrictions
SERVICE	Establish enabling processes and expectations

How to establish enduring trust framework?

- **NOW**
MVP Participation Agreement establishes and tests in time bound limited format
- **LEARN THROUGH MVP**
Participant and industry feedback shapes a scalable future-state framework.
- **IN PARALLEL**
Legal, governance and operational artefacts develop alongside MVP delivery.
- **RELEASE FOR TRIALS ONWARDS**
Participants onboard under the enduring framework via Participation Agreement.

Pathway to release for trials



Public

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](#)

Q&A

**You can also email:
dsi@neso.energy**

All questions via Slido
slido.com

Code: #DSI2026Q



Public

Thank you