

Electricity
Transmission

NGET Data Strategy

March 2023

nationalgrid



Our Vision

**We are putting
the power of data
into everyone's
hands.**

Data is often seen as “someone else’s” problem.

We are changing this and putting the power of data into
everyone's hands.

This means we will be:

Putting the **quality and management** of data with those who can impact it. **Driving value** for those who know the data best. Giving you the **tools to use data** the way you want and when you want to. Together we will **grab the opportunities** we know our data holds.

What do we need from you?

- 1)** Data Quality is everyone's responsibility, so please take care when you create it to ensure people can use it
- 2)** Champion data at NGET, only by treating our data as a powerful and valuable asset will we improve it
- 3)** Tell us what the challenges are, your Data Teams want to help!

Our Strategy

Unlocking
Value for all
from our
Data.

Our data
strategy is
founded on
4 key pillars



Data Mesh

Move towards a new architecture, **so that** our systems of records are more connected, removing silos of data.



Data Products

Build and utilise data products, **so that** our data can be as easily accessible and discoverable like buying goods on Amazon.



Data Quality

Uplift data quality across our systems, **so that** our employees and stakeholders can trust data integrity when it matters the most.



Data Expertise

Develop internal data, AI & ML expertise further **so that** we can reduce our dependence on 3rd parties.

These steps will allow us to boost our AI & ML capabilities, ultimately accelerating and improving our performance and delivery commitments to Ofgem, consumers and our customers.



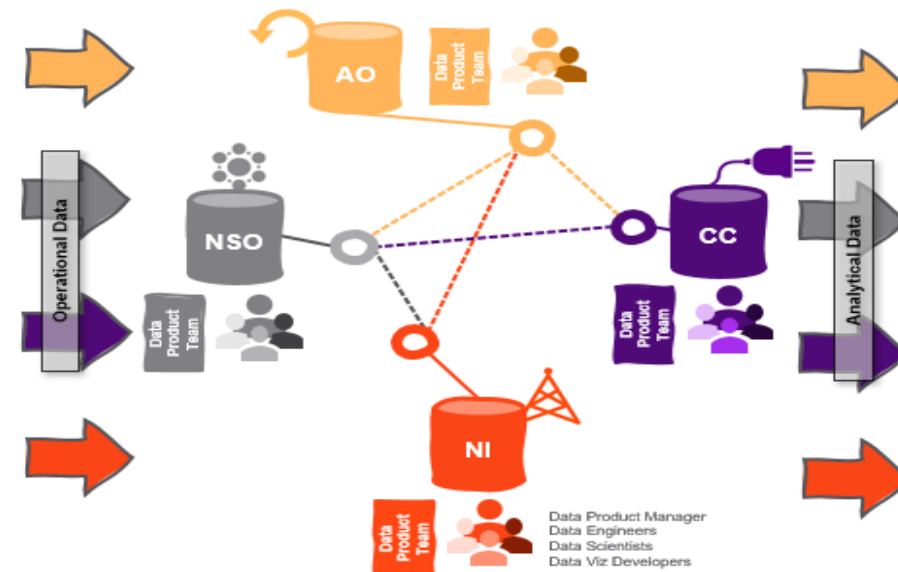
Data Mesh

Move towards a new architecture, **so that** our systems of records are more connected, removing silos of data.

What is Data Mesh?

Data Mesh is a new approach based on an architecture for analytical data management.

- It enables end users to easily access and query data where it lives without first moving it to a data lake or data warehouse.
- The empowering strategy of data mesh gives data ownership to domain-specific teams that manage, own, and serve the data as a product.
- The Data Mesh aspiration to augment and improve every aspect of business and life with data, demands a big shift in how we manage data at scale.





Data Products

Build and utilise data products, **so that** our data can be as easily accessible and discoverable like buying goods on Amazon.

What is a Data Product?

A data product is an organisational asset that exposes valuable, self-describing and high-quality datasets that can be independently used (and reused) by the broader business to support data-driven use cases.

A data product is:

- Owned by a Data Product Manager
- Discoverable in the data product catalog
- Accessible through a well-documented and repeatable process (or Data Contract)
- Governed through metrics, objectives and key results, key performance indicators and standard operating procedures



The Future of Data at NGET

What this will look like?



The Search Bar: This will be how we make it easy for people to find and use NGET data (*we call this a data catalogue*)

The OS: This is the technology (*we call this platforms and services*) that enables the NGET business to get the most out of our data

The Folders: These will be the collections of data of a similar type (*we call these domains*) that help us ensure we have the right owners to improve the quality

The Built in Apps: These will be the sets of data (*we call these foundational products*) which give us the foundations for making the most of our data in analytics

The Specialist Apps: These will be the combination of data (*we call these analytical products*) which have been enriched to provide insights and add value



Data Quality

Uplift data quality
across our
systems, **so that**
our employees
and stakeholders
can trust data
integrity when it
matters the most

Transforming Ways of Working at NGET

1) Faster Data Access & Discovery:

It will be faster and easier to find, identify and understand different data sets from across the business. It will remove bottlenecks, duplication of work and misalignment on the key information about our business.

2) Increased Data Trust & Improved Quality:

We will be able to trust the integrity and quality of the data we interact with daily and be able to make the right decisions when it matters most.

3) Data Accuracy and Quality:

We can increase our confidence, that of colleagues, and stakeholders that what our data tells us is accurate.

4) Solve Business Problems With Data:

We will be able to solve increasingly complex problems with data driven solutions. This will help solve business challenges by giving our people the power and autonomy to make data-driven decisions and allow us to utilise machine learning and AI e.g. creating scenario modelling and planning the future of the grid.

5) Build New Skills:

We will be able to empower our colleagues to drive innovation within their own teams while upskilling our people to learn new skills and capabilities to support our ambition

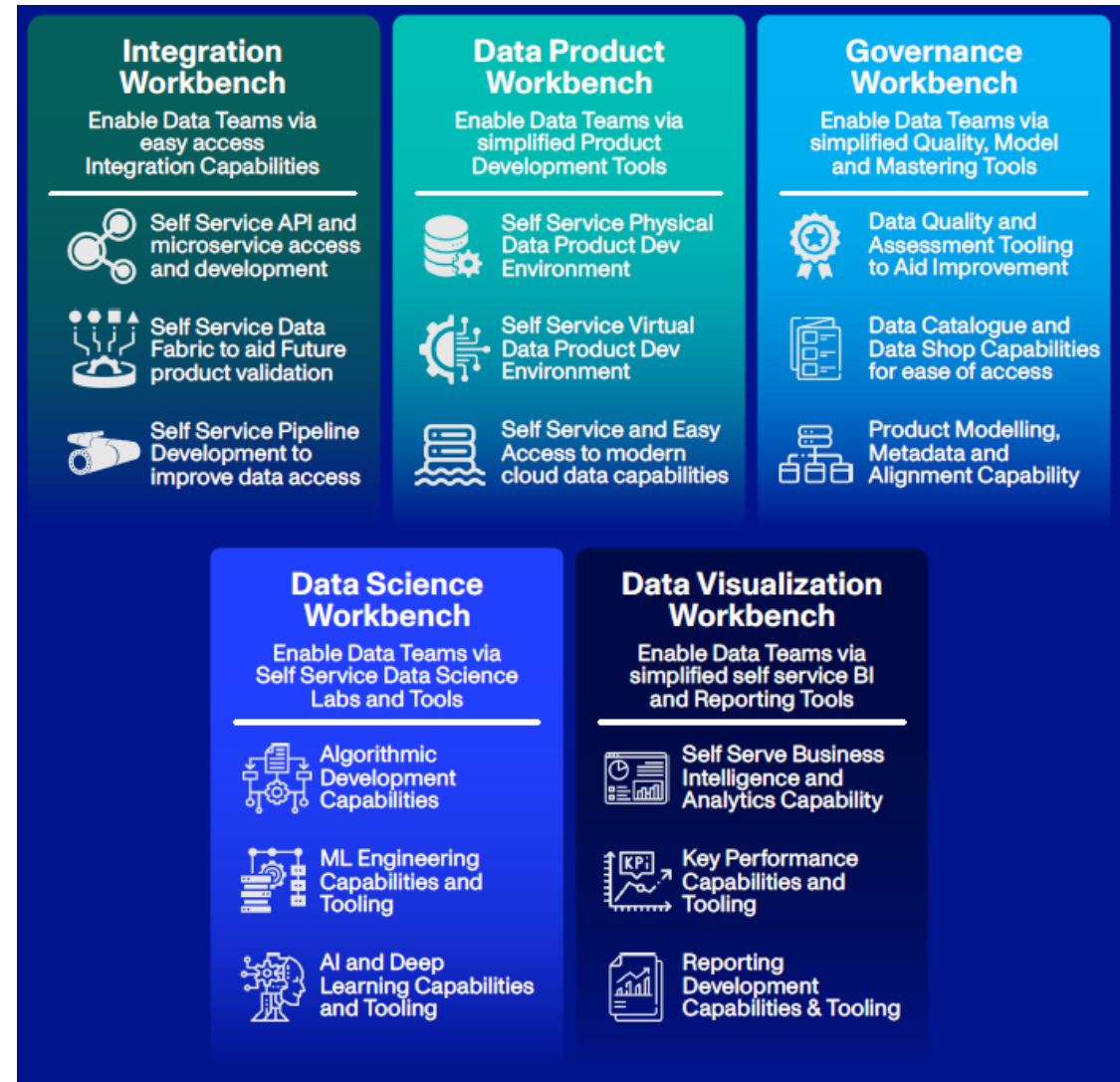


Data Expertise

Develop internal data, AI & ML expertise further **so that** we can reduce our dependence on 3rd parties.

Building a World Class Enabling Data Platform

We are creating Enabling Capability Workbenches which will leverage the best cloud and data technologies to accelerate our speed to value



Electricity
Transmission

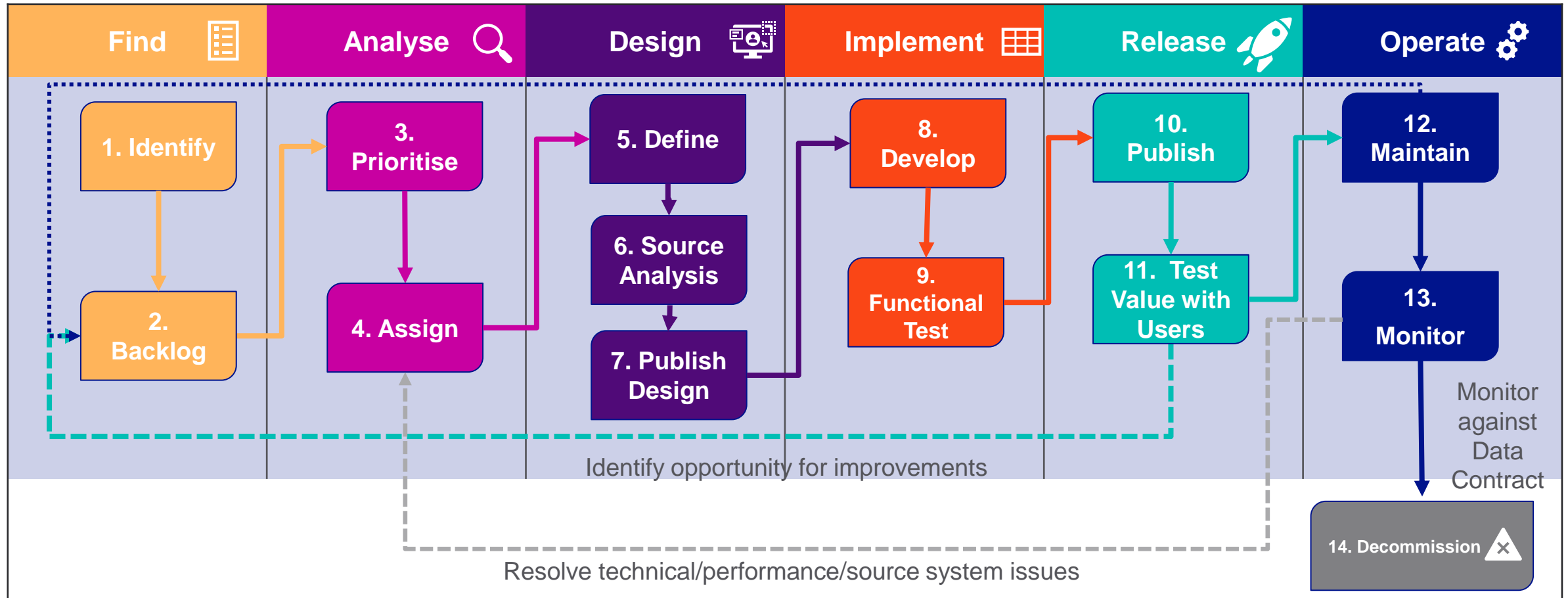
NGET Data Product Lifecycle

April 2023

nationalgrid



Data Product Life Cycle: High Level Overview



Data Product Life Cycle: High Level Overview – Find – Analyse – Design

Tooling to be agreed



FIND



ANALYSE



DESIGN



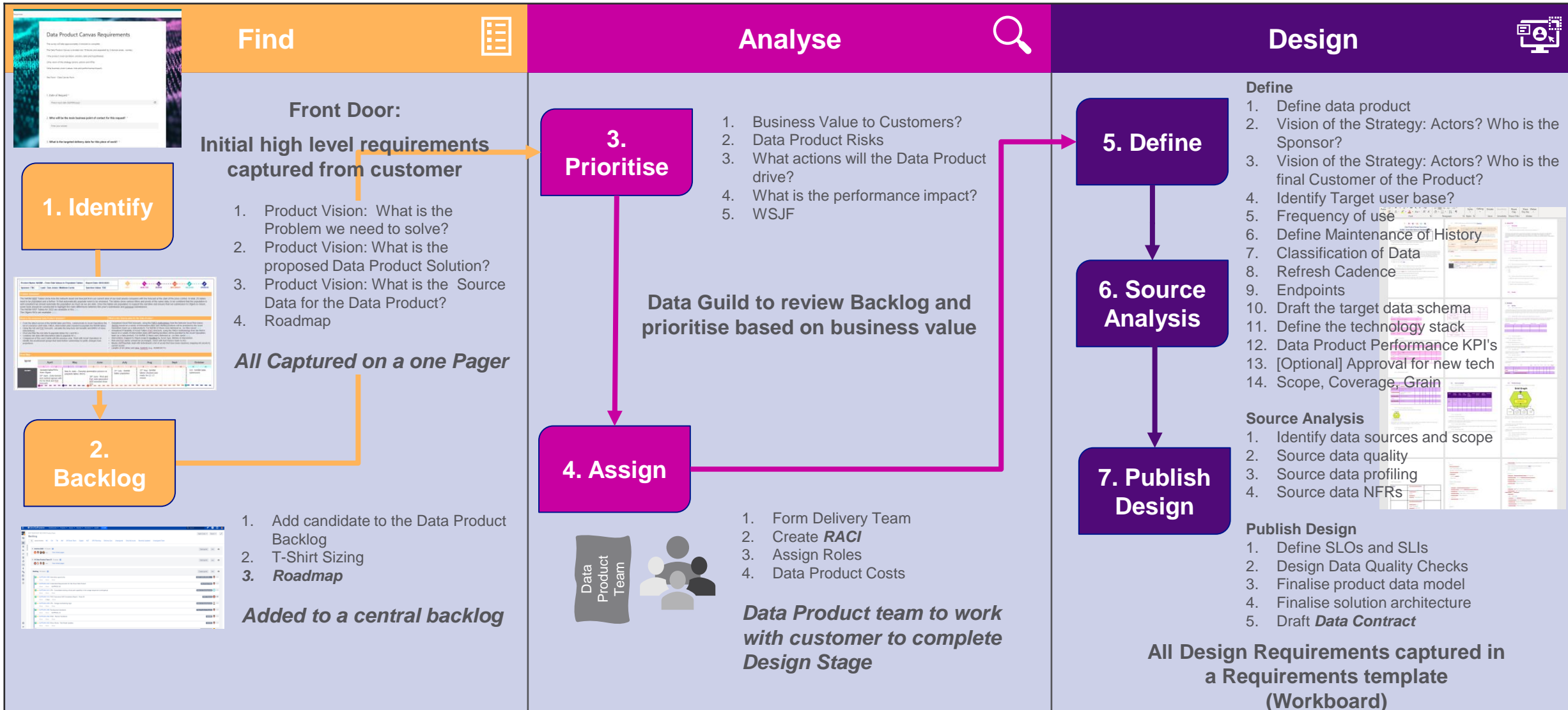
IMPLEMENT



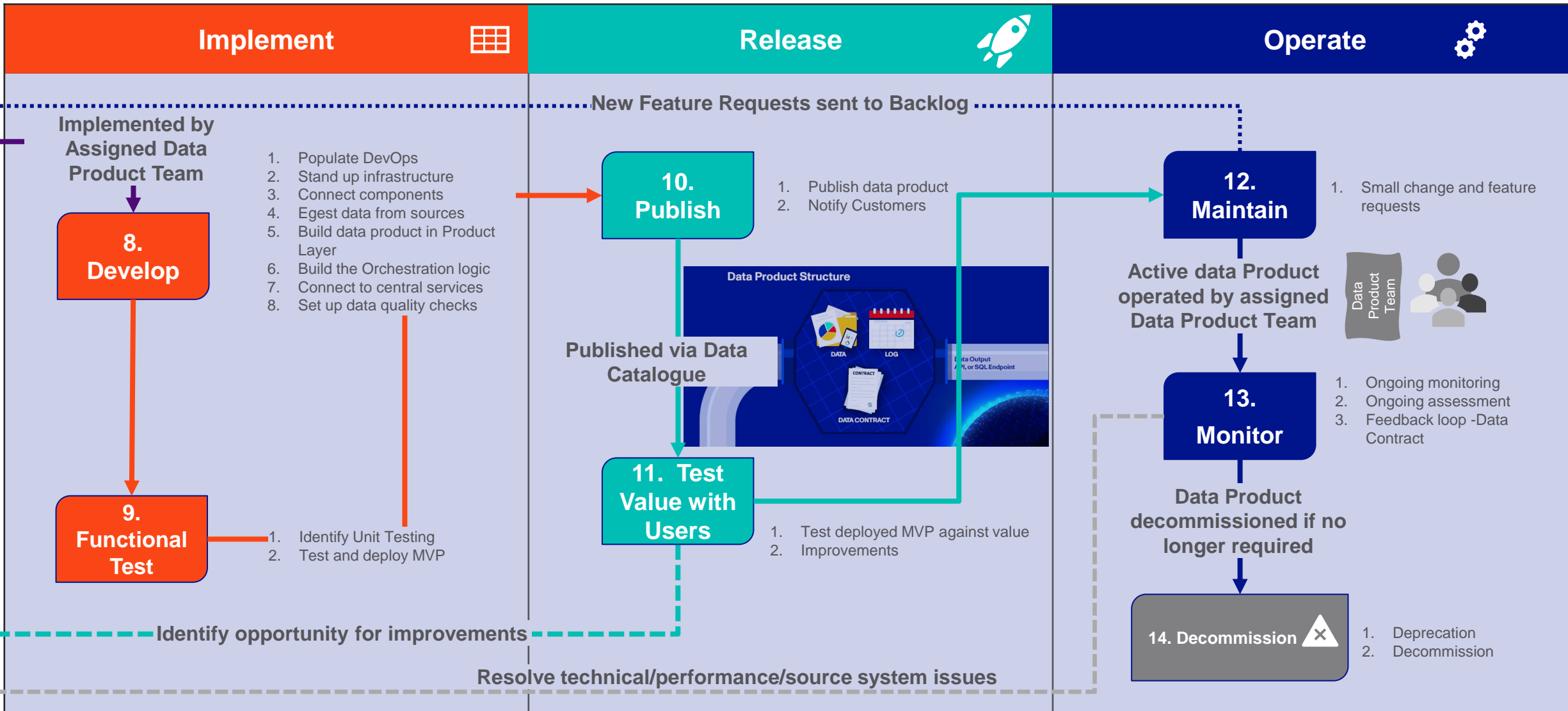
RELEASE



OPERATE



Product Life Cycle: High Level Overview – Implement – Release - Operate



nationalgrid