

CER Data Exchange Industry Co-design

Final Webinar

30 April 2025



We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

We pay respect to their Elders past, present and emerging.

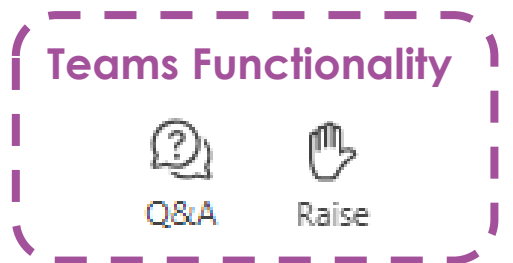
Housekeeping

Recording in progress

- This webinar will be recorded for the benefit of those who are unable to attend
- The recording and presentation will be available on the [AEMO project website](#)

Questions and answers

- Submit questions through the Q&A function in this Teams Meeting
- Questions at dedicated session at the end
- Any questions we don't get to, please email cerdataexchange@aemo.com.au and a member of our team will be in touch



Agenda

	Agenda Description	Facilitator
1.	Acknowledgement of Country & Opening Remarks	Ed Chan, Rachel Rodrigues McGown
2.	Overview of the CER Data Exchange and co-design activities to date	Alexandra Bortolussi
3.	Final outputs and recommendations	Ed Chan
4.	Next steps for 2025	Rachel Rodrigues McGown
5.	Q&A	Craig Chambers
6.	Closing Remarks	Ed Chan

Opening remarks



ARENA
Australian Government
Australian Renewable
Energy Agency

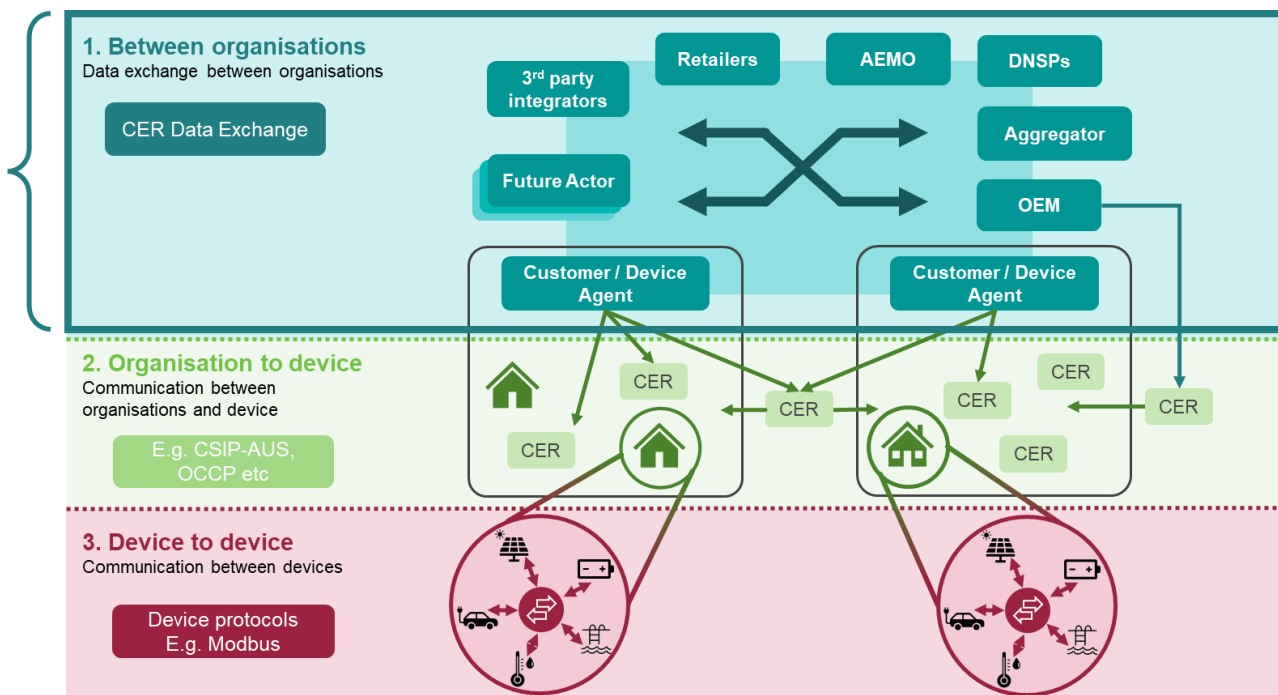
This Project received funding from the Australian Renewable Energy Agency (ARENA). The views expressed herein are not necessarily the views of the Australian Government, and the Australian Government does not accept responsibility for any information or advice contained herein.

Overview of the CER Data Exchange and co-design activities to date

We have undertaken a significant co-design process

What is the CER Data Exchange?

OUR
FOCUS



An organisation-to-organisation CER data sharing capability

- ✓ A streamlined and more efficient way to exchange data
- ✓ Improve information and data accessibility
- ✓ Enables better CER integration and coordination

What a CER data exchange is not



Directly control customer devices



Take over existing market participant functions



Create a single repository of CER data



Not the only way to exchange data

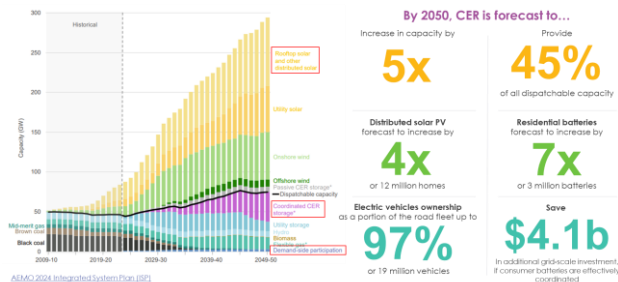


Decide technology choices

Why are we undertaking this initiative?

Three key drivers

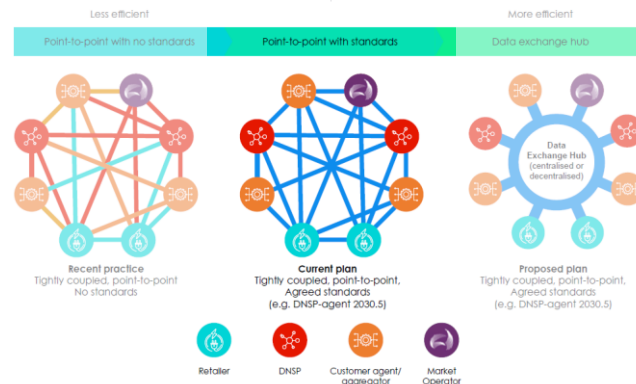
1: Efficient method of data exchange is a key enabler to realising CER integration benefits



International best practice **ofgem** **CATAPULT** **GOV.UK**

2: Existing processes to share data between organisations are necessary but insufficient for CER data sharing at scale

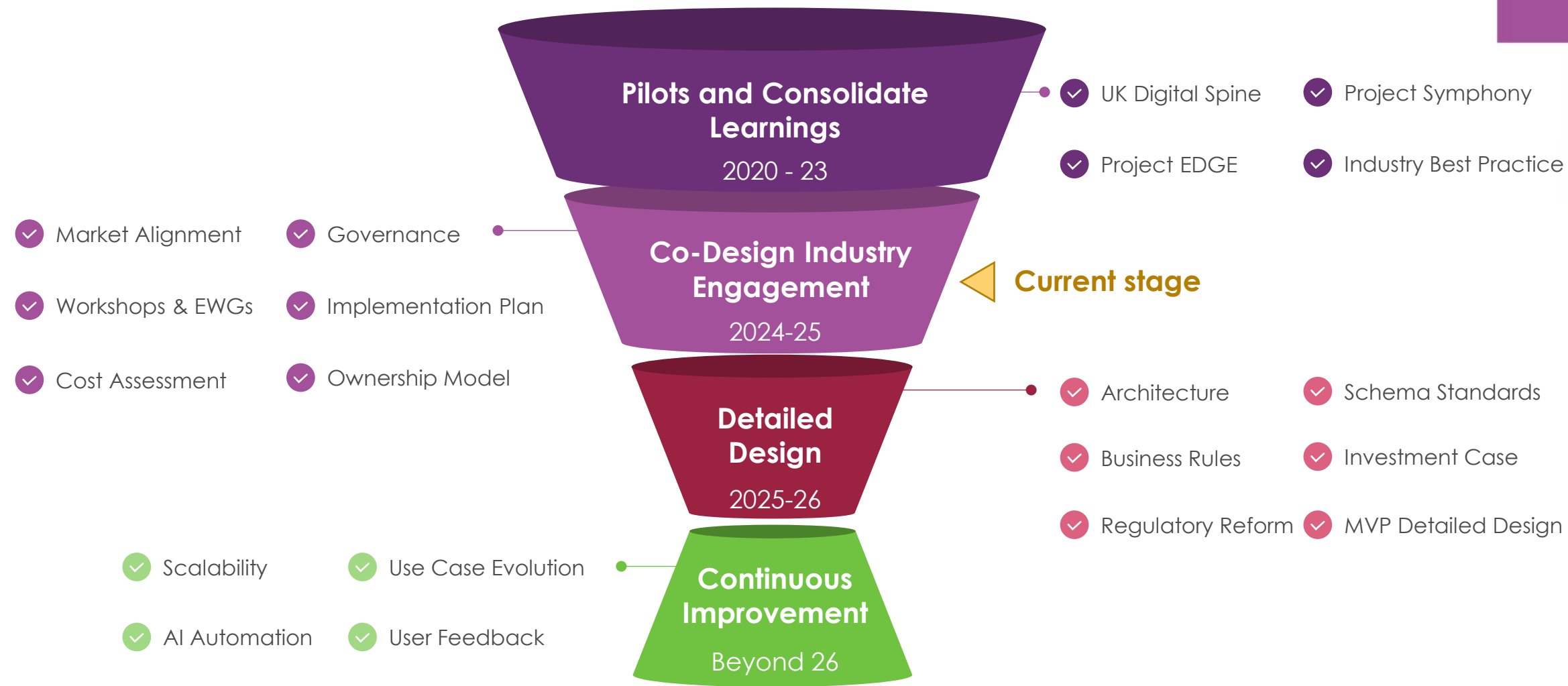
Current standards Current systems of record Current information sharing systems



3: Consumers and industry participants will all derive benefits through more efficient CER data exchange

- 1 Value from CER for all customers
- 2 Flexible network use & planning
- 3 Effective system operation & use
- 4 Economy wide decarbonisation

This project is part of a broader journey

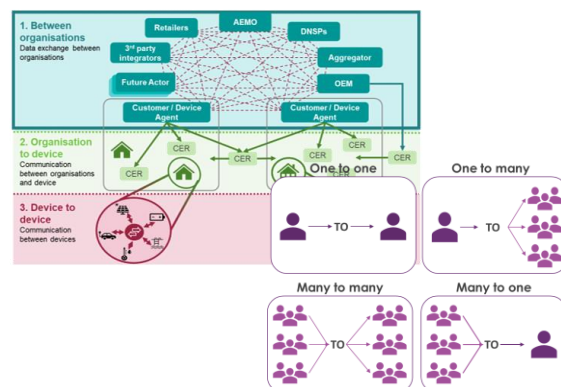


We have worked with stakeholders to develop the key design elements of the CER Data Exchange

Why and What

Workshop 1 (Aug 24)

- Macro context setting
- Outlining the case for change
- Exploring the capabilities of the CER Data Exchange through use cases
- Use case categories, patterns and preliminary selection criteria

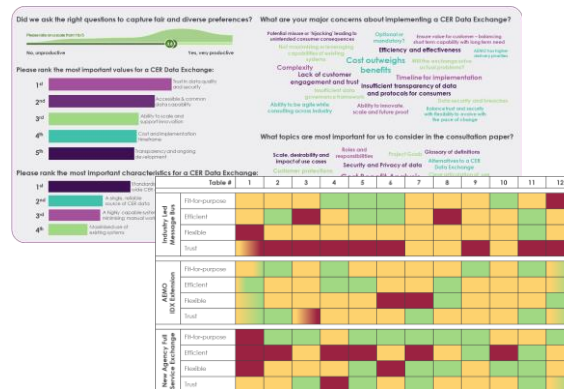


[Presentation](#)
[Summary Report](#)

How, What and Who

Workshop 2 (Sep 24)

- The co-design process and project timeline
- Testing alternative futures to co-define the value of change
- High level design trade-offs (functionality, ownership, oversight)



[Presentation](#)
[Summary Report](#)

Confirming the way forward

Webinar (Dec 24)

[Presentation](#)

Consultation Paper (Nov 24)

Test stakeholder perspectives on:

- Use case functionality
- Data sharing capability
- Ownership, operations & oversight
- Data governance
- Implementation considerations

Consultation Paper Submissions



[Consultation Paper](#)
[Submissions Summary Report](#)

'Making it happen'

Workshop 3 (Mar 25)

Building on broad stakeholder support, we worked with participants to develop:

- Minimum viable product (MVP) capabilities of each priority use case
- Governance, roles and responsibilities
- Cost assessment and cost recovery
- Implementation consideration and timelines

[Presentation](#)
[Summary Report](#)

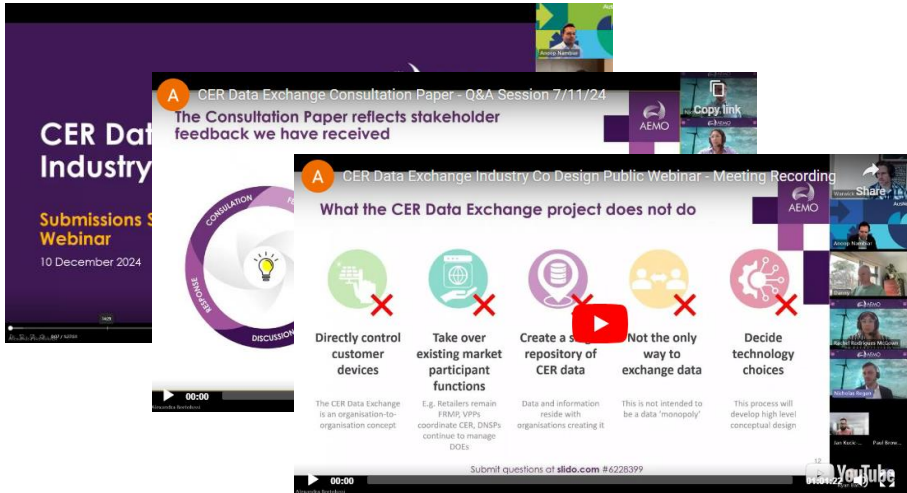
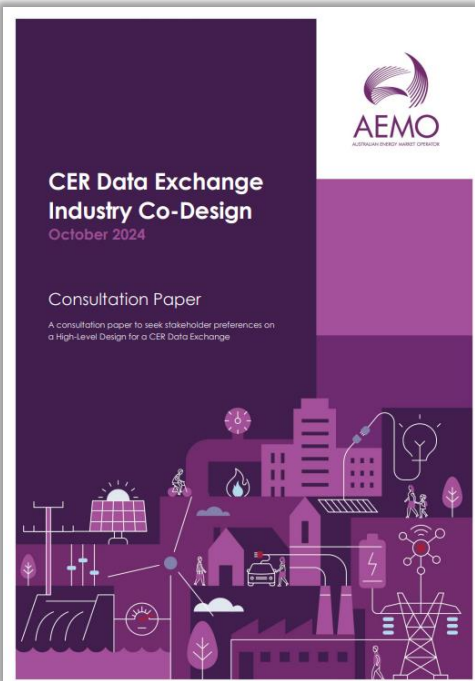
Significant contributions made by industry to shape reform

250 People across three Industry Workshops

23 Submissions to the Consultation Paper

15 Expert Working Group Meetings

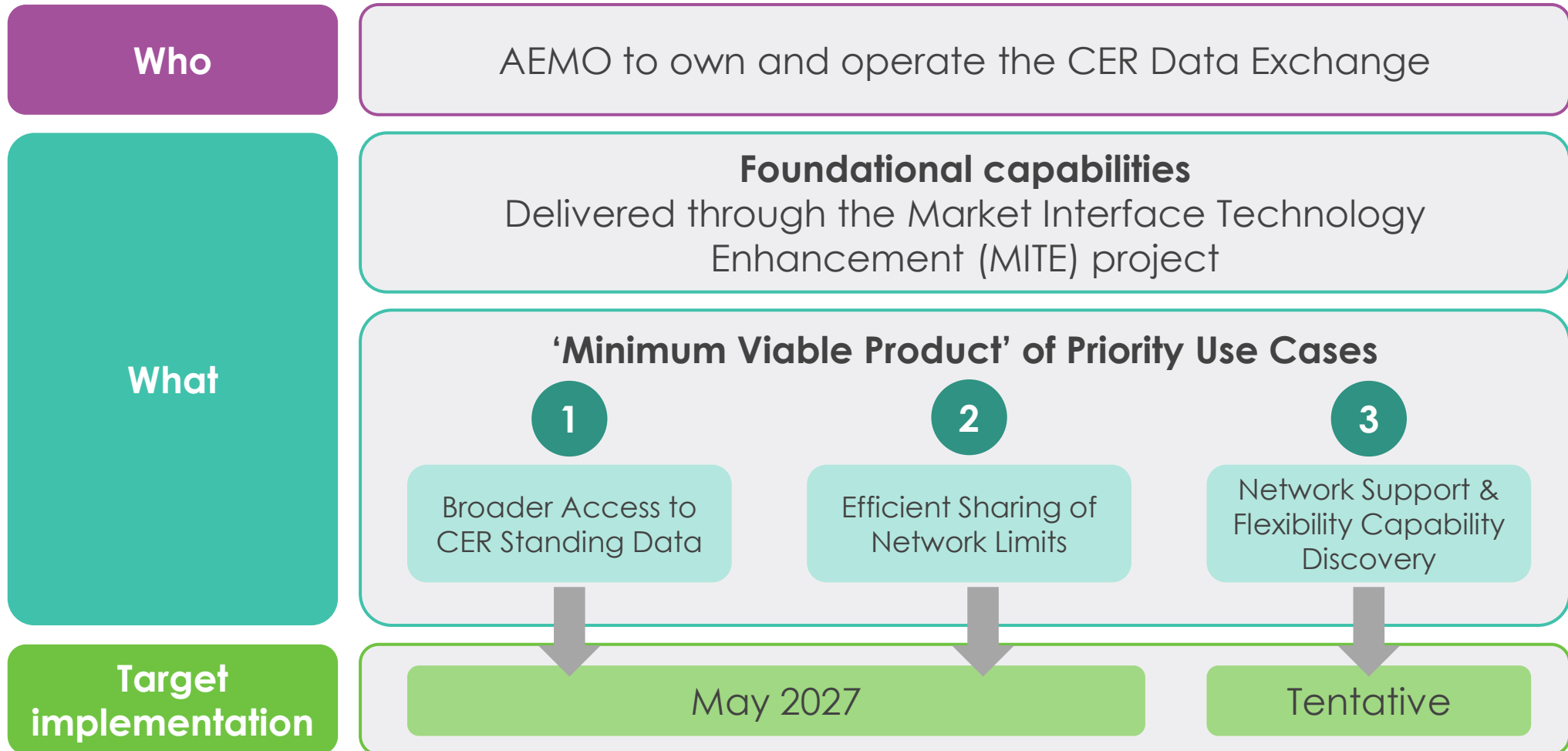
3 Knowledge Sharing Public Webinars



Final outcomes and recommendations

Where feedback received to date has led us to

Where has stakeholder feedback led us to?



Overview of final outputs

Co-Design Summary

A report outlining the key outcomes of the co-design process and the plan for the next phase of the project.



Attachment A: High-Level Design

This documents the functional framework and technical capabilities of the minimum viable product of the priority use cases.



Attachment B: High-Level Cost Assessment

This reports outlines the approach used to estimate the costs of the CER Data Exchange and the results.



Attachment C: Implementation Plan

This document identifies next steps and key stakeholder actions to implement the CER Data Exchange.



Knowledge Sharing Report

The report documents the Project team's experience running a co-design with industry on a complex reform, we hope to share valuable lessons learnt and insights for future co-design processes to build on.





Co-Design Summary

A report outlining the key outcomes of the co-design process and the plan for the next phase of the project.

Key outcomes of the co-design process:

- AEMO to own and operate the CER Data Exchange
- Leveraging the capabilities delivered through the Market Interface Technology Enhancement (MITE) project
- Development of high-level design for three priority use cases
- Targeting the delivery of at least two priority use cases by May 2027 to align with on-going reforms

Broad stakeholder agreement for AEMO to progress the CER Data Exchange

Stakeholder preference: ownership and operation of CER Data Exchange

Stakeholder feedback



AEMO: Most cost-effective and efficient, leveraging AEMO's existing expertise and infrastructure. Need to manage perceived potential bias given AEMO's other core responsibilities.



Government: Most impartial and support consumer-focus, but stakeholders recognised the higher setup costs and potential for slower decision-making.



Industry: Less favourable due to concerns around potential commercial bias and the risk of larger players dominating the governance process.

Stakeholder preference: process for detailed design and implementation of priority use cases



Industry Led

Industry convene and coordinate a Working Group to continue developing the MVP and make recommendations to AEMO on implementation.



AEMO Led, under CER Data Exchange Banner

AEMO convenes and coordinates a CER Data Exchange working group (with industry) to continue to develop priority use cases.



AEMO-led, under other existing forums

AEMO convenes a sub-group as part of existing processes such as IPRR.

High-level timeline for the detailed design and implementation phases

Appendices:
Overview of the CER Data Exchange and the Co-Design process

May 2025

Next phase: July 2025 – June 2027

Long term: 2027+
(Business as usual)

Completion of current phase

Detailed design of priority use cases

Implementation of priority use cases

Design and implementation of future use cases

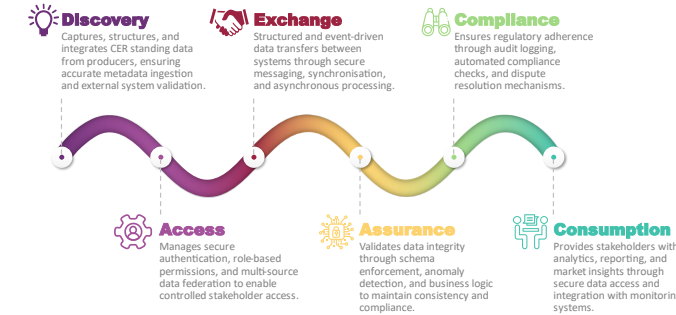
Transition to long term arrangements



High-Level Design Report

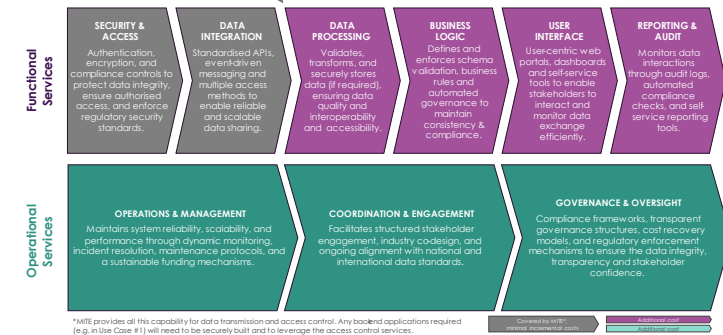
Section 1: High Level Design Overview

- Approach: Create an MVP and evolve overtime
- Design principles
- Data Journey
- Exchange services, including capability provided under the MITE business case



Section 2: Priority Use Cases High-Level Designs

- Overview of use case
- Current challenges
- Proposed MVP & Future Evolution
- Implementation Considerations
- Key risks & mitigations
- Outcomes



OBJECTIVE	Proposed MVP (Activity)	MVP Outcomes
Provide on-demand data exchange services through the CER Data Exchange and enhancing constraint and flex service discovery.	- Coordination & Engagement: AEMO facilitates working groups to standardise flex registration. - Exchange Operations: Offer IDX and IDAM infrastructure on-demand. - Governance & Oversight: Not included, to be consider in future.	- Standardised flex registration - Voluntary bulletin board or alternative visibility mechanisms - As demanded data exchange services
Current State Limitations	- Security & Role Based Access: Offer IDAM/RBAC authentication and multi-tiered permissions for differentiated data access - Data Integration: Enable integration with market platforms, compliance registers & flex service providers. - Data Processing: Offer structured validation, normalisation, and standardised reporting - Business Logic: Offer common protocols to ensure consistent formatting, interpretation, and integration. - User Interface: Voluntary bulletin board or alternative visibility mechanisms - Report & Audit: Offer compliance, encryption, and audit logging for compliance alignment & performance monitoring.	Future Evolution - Establish a national standard for flexibility service registration and activation, to create unified approach to service discovery and delivery. - Automated service registration and validation workflows to reduce onboarding complexity and costs - Establish a dynamic flex service registry where providers can opt in based on near-term revenue opportunities - Potential integration of price signals and clearing mechanisms to support automated, market-driven flexibility procurement.
Fragmented Service Discovery Industry uses diverse service definitions, protocols, and integration methods which leads to inefficiencies and limited activation.		
Interface Complexity Lack of standardised approach and registration mechanisms, reduces participation and efficient activation.		
Limited Constraint / Flex Capacity Visibility Flexibility service providers lack consistent visibility into constraints and networks / market participants lack knowledge of flex service opportunities, reducing service request and market/infrastructure efficiency.		

Functional & Operational Exchange Services

Services included in the proposed minimum viable product (MVP) for each of the priority use cases

Assessment of the functional and operational services required for the CER Data Exchange, against those provided under the MITE business case

Outcomes, risks and implementation considerations specific to each use case



High-Level Design Report

Section 2: Priority use cases:

1 Broader Access to CER Standing Data

2 Efficient Sharing of Network Limits

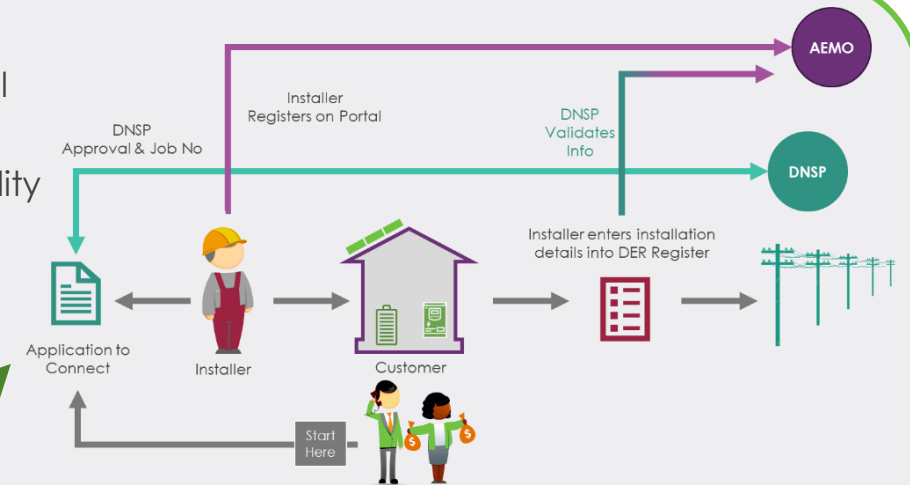
3 Network Support & Flex Capability Discovery**

Why focus on an MVP:

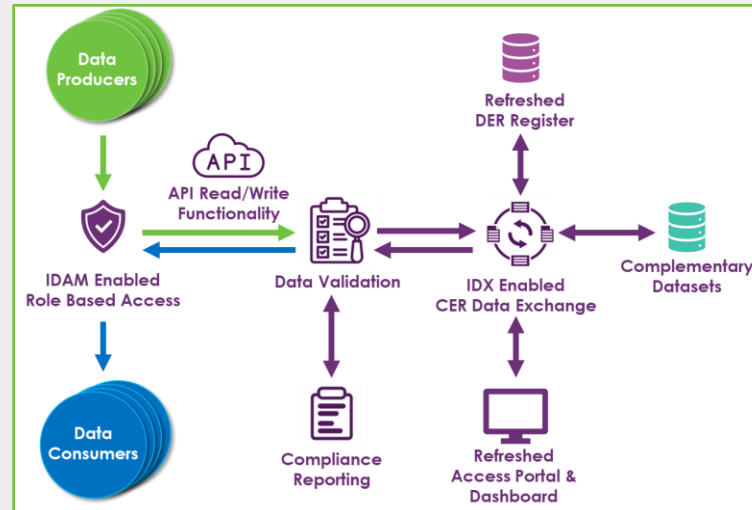
- ✓ Stakeholder preference to start small, then evolve
- ✓ Deliver immediate value whilst developing the foundations for future enhancements
- ✓ Adapt to changes and minimise risk

Current challenges:

- Fragmented and manual data entry
- Limited access and visibility
- Data quality and compliance gaps
- Absence of streamlined updates



Proposed MVP illustration:



Use Case Outcomes:

- Access to data
- Improved data integrity
- Expanded market efficiency
- Enhanced grid reliability
- Regulatory compliance



High-Level Cost Assessment

Key inclusions in this report:



Estimated cost to implement the MVP of the three priority use cases



Benefits of a CER Data Exchange

As quantified in previous trials and projects

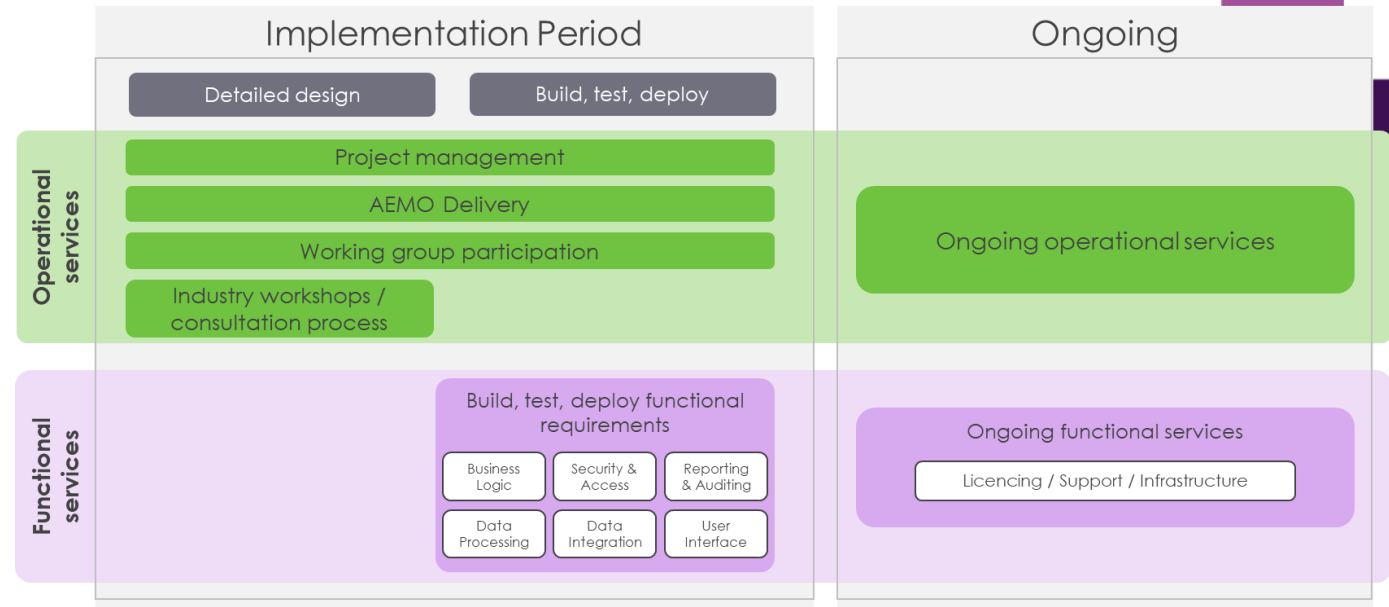


Breakdown of costs over the implementation period and ongoing



Methodology, Scope & Assumptions

Cost 'buckets' for estimation purposes:



Key assumptions:

- Model period: 10 years
- External support required for project management and delivery expertise
- Upfront and ongoing incremental costs included
- Costs incurred by all relevant industry participants to interface with the CER Data Exchange are included



High-Level Cost Assessment

Key Results:

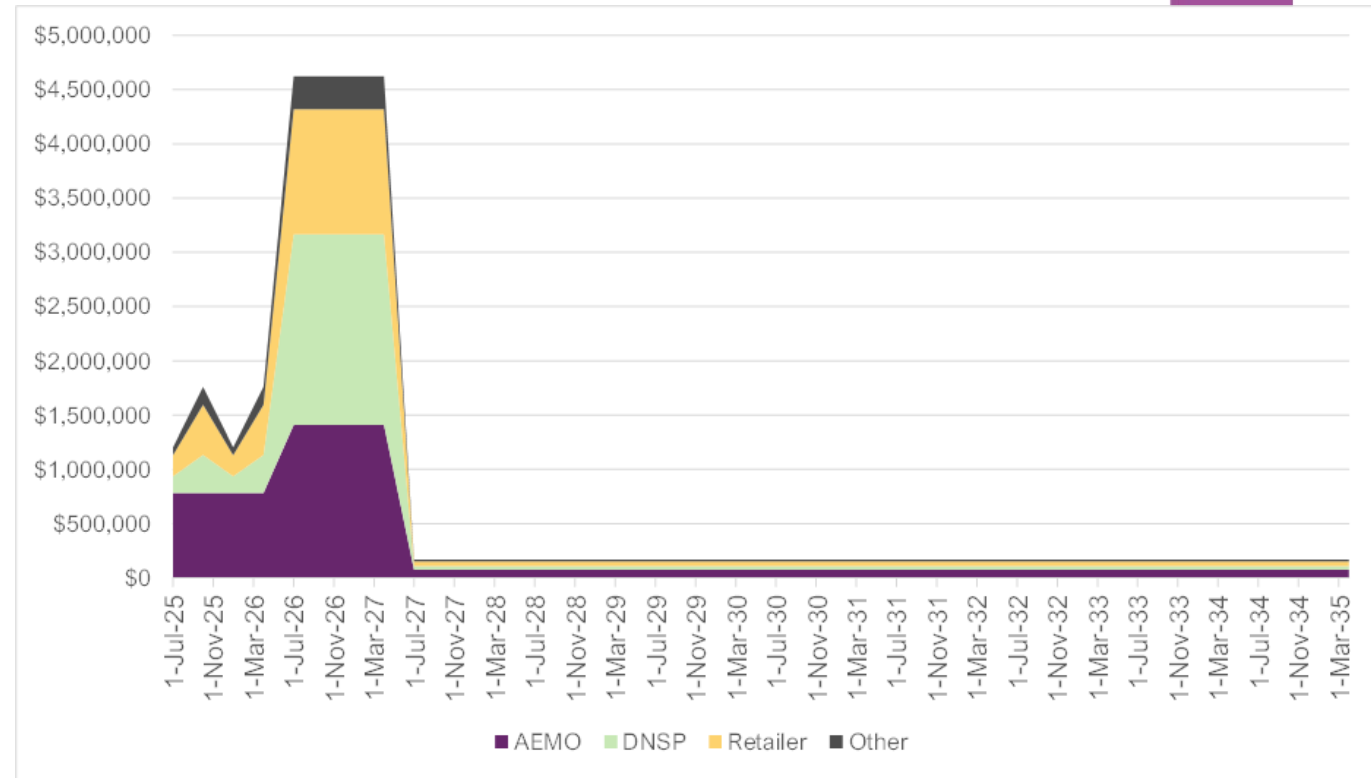
Total Cost (\$m)

	Total	AEMO	Industry
Implementation: Detailed Design	5.9	3.1	2.8
Implementation: Build, test, deploy	18.5	5.6	12.9
Total Implementation	24.4	8.7	15.7
Ongoing (p.a.)	0.7	0.3	0.4

Costs incurred over a
24-month period

- Industry costs incurred to participate in the detailed design process and implement the necessary interfaces with the CER Data Exchange
- Ongoing annual costs predominantly relate to AEMO's cost to maintain the CER Data Exchange once operational and the incremental effort on working groups.

Cost profile by participant



*'Other' is a generalised category to allow for participants other than DNSPs, retailers/aggregators. It is included to acknowledge that there may be new types of participants interested in using the CER Data Exchange.

All industry participants experience the greatest costs during the build, test, deploy stage in FY27

Next steps for 2025 and beyond

Overview of the detailed design and implementation
phases



Implementation Plan



How AEMO intends to implement the CER Data Exchange



Overview of implementation considerations for technical and governance workstreams

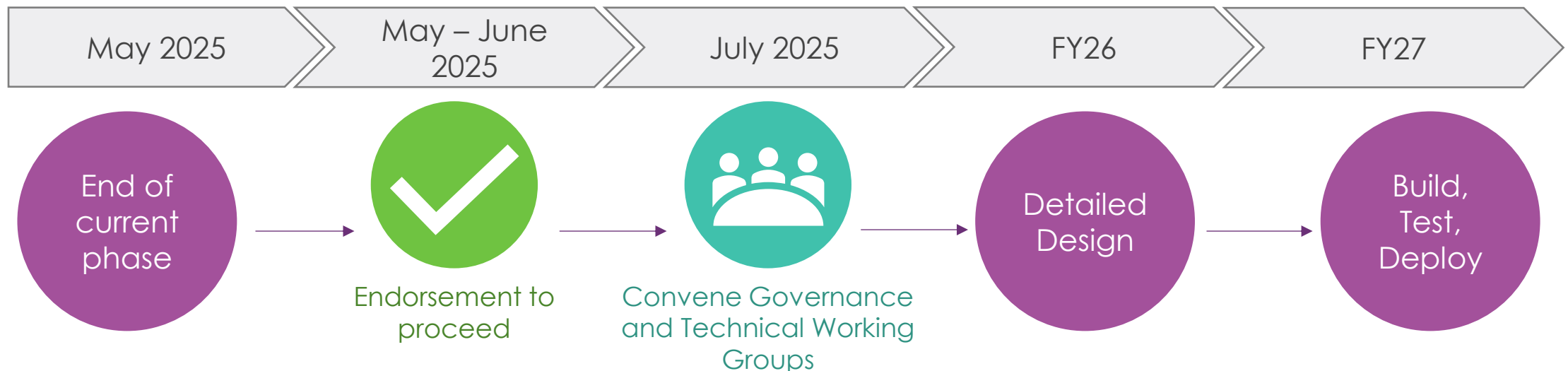


Key phases of implementation



Gantt Charts for detailed design and build, test, deploy phases

Key stages to implement the CER Data Exchange





Implementation Plan

Implementation will use two Workstreams:

- **Technical** to develop core digital infrastructure
- **Governance** to consider operational governance and regulatory enablers



Technical Working Group

- Advise AEMO on detailed infrastructure and transactions development
- Consider issues such as payload, schema
- Consider integration with the broader IT ecosystem

These workstreams:



Are interdependent



Explore the identified technical, governance and potential regulatory barriers



Pursued in parallel if the CER Data Exchange is to achieve Go-Live in 2027



Governance Working Group

- Advise AEMO on governance and regulatory issues
- Consider strategic and future outlook for CER related data issues
- Consider organisation to organisation touch points
- Consider interactions with other reforms

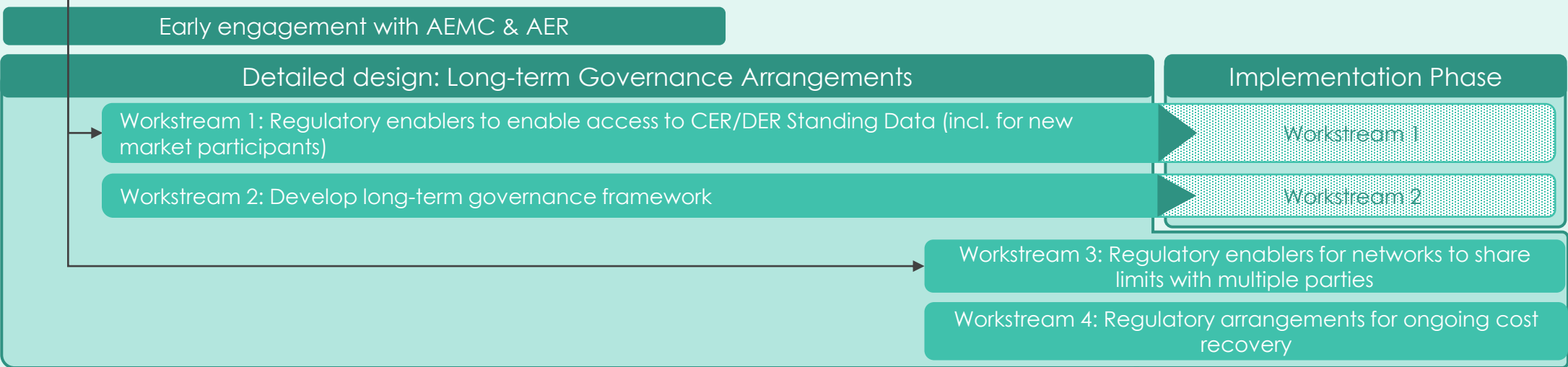


Implementation Plan

Detailed Design (FY26)



2025						2026					
July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun





Implementation Plan

Build, Test, Deploy (FY27)

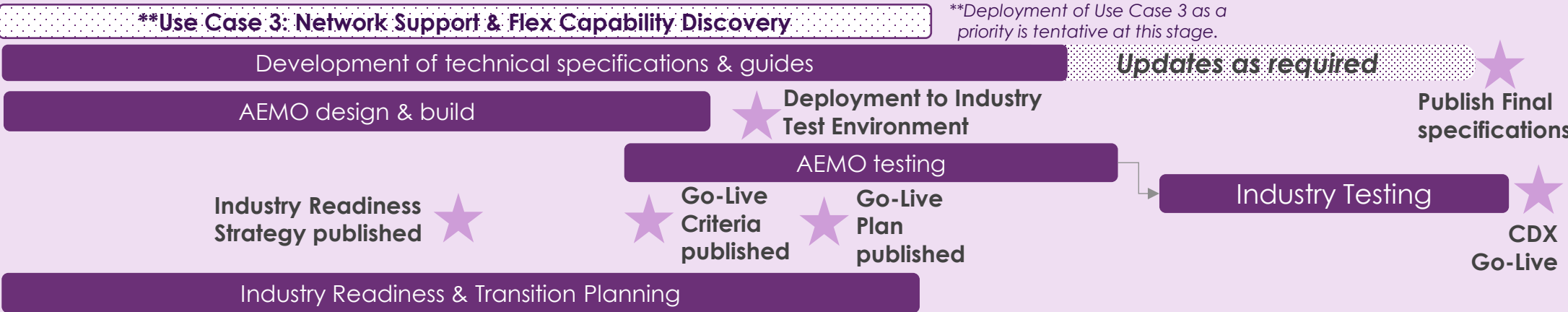


2026						2027					
July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun

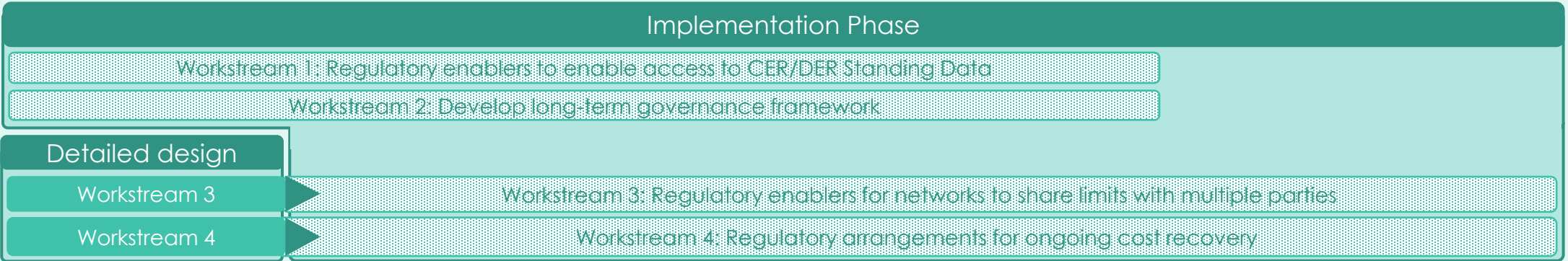
MITE
(IDAM & IDX)



Core digital
infrastructure
(technical)



Operational
governance
and
regulatory
enablers
(governance)



Next steps to progress the CER Data Exchange



AEMO will progress to detailed design and implementation

We thank AusNet Services and ARENA for their support and partnership in this project to date.



From July 2025, we will form technical and governance working groups to progress detailed design and implementation

Expressions of interest to be involved in the working groups for the next phase.

Q&A

Thank you for your participation, involvement and input into the CER Data Exchange Industry Co- Design project



Workshops

[Workshop 1 – Presentation](#)

[Workshop 1 – Summary Report](#)

[Workshop 2 – Presentation](#)

[Workshop 2 – Summary Report](#)

[Workshop 3 – Presentation](#)

[Workshop 3 – Summary Report](#)



Consultation Paper

[Consultation Paper - Report](#)

[Consultation Paper - Questions](#)

[Consultation Paper Submissions](#)

[Consultation Submissions Summary Report](#)

[Submissions Summary Webinar – Recording](#)

[Submissions Summary Webinar – Slides](#)



Final Reports

[Co-Design Summary](#)

[High-Level Design](#)

[High-Level Cost Assessment](#)

[Implementation Plan](#)

[Knowledge Sharing Report](#)



Webinars

[Introductory Public Webinar - Recording](#)

[Introductory Public Webinar – Presentation](#)

[Final Webinar – Recording](#)

[Final Webinar – Presentation](#)





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