

# Networks Advisory Group

## Meeting 10 Briefing Formation

Thursday 11 November 2021 | 10:00am – 11:30pm AEST



# Agenda



Item	Lead	Timing
Welcome, Acknowledgement of Country and Safety Moment	John Theunissen	5 min
EDGE Project update plus Summary of Milestone 2 deliverables	John Theunissen	10 min
Insights into the role of the Aggregator in EDGE and interactive discussion: <ul style="list-style-type: none"><li>• Mondo Platform overview</li><li>• Implementing Operating Envelopes</li><li>• Bi-directional Offer (Boffer) Progression</li><li>• DER Fleet Dispatch</li><li>• Network Services</li></ul>	Mondo Gary Butcher, Kirstie Wu and Dominic Toffolon	50 min
Opportunity for members to provide a brief update on other DER integration and marketplace industry trials in progress	All	20 min
Wrap up and look-ahead	John Theunissen	5 min





## Acknowledgment of Country

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

We pay our respects to their Elders past, present and emerging.



**Safety moment**

# Safety item | Recent Musculoskeletal Injuries



For those coming out of lockdown, it is important to remember that our bodies may not be used to the movements that were normal for us before our lives were disrupted.

## Immediate actions:

Tips for preventing musculoskeletal disorders include:

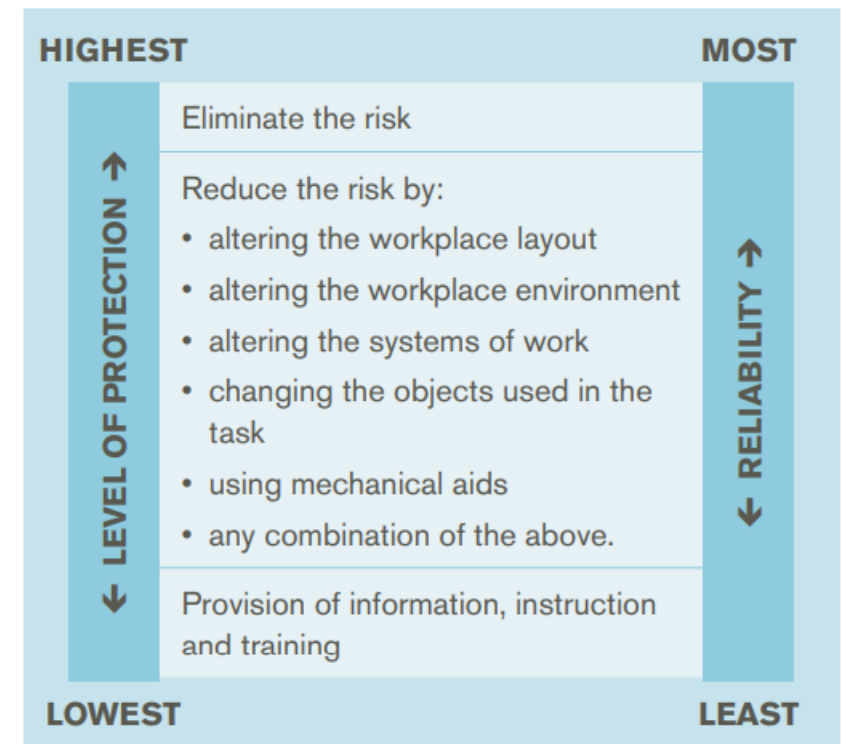
- Use manual handling aids such as cranes, material hoists, forklifts, and trolleys where possible, to move materials
- Use job rotation/work variation to reduce exposure to repetitive work, or work that requires significant force
- Ensure walking surfaces are level, dry and free from hazards to prevent trips and falls
- Carry out regular site clean ups and inspections
- Ensure your body is warmed up for the nature of the physical activities of the task

## Preventative actions:

Reviews of risk controls therefore need to extend beyond the person doing the task to the system as a whole.

Consider the **Hierarchy of Risk Control** method to eliminate the hazard or reduce the risk.

Figure 1 - Effectiveness and reliability of controls

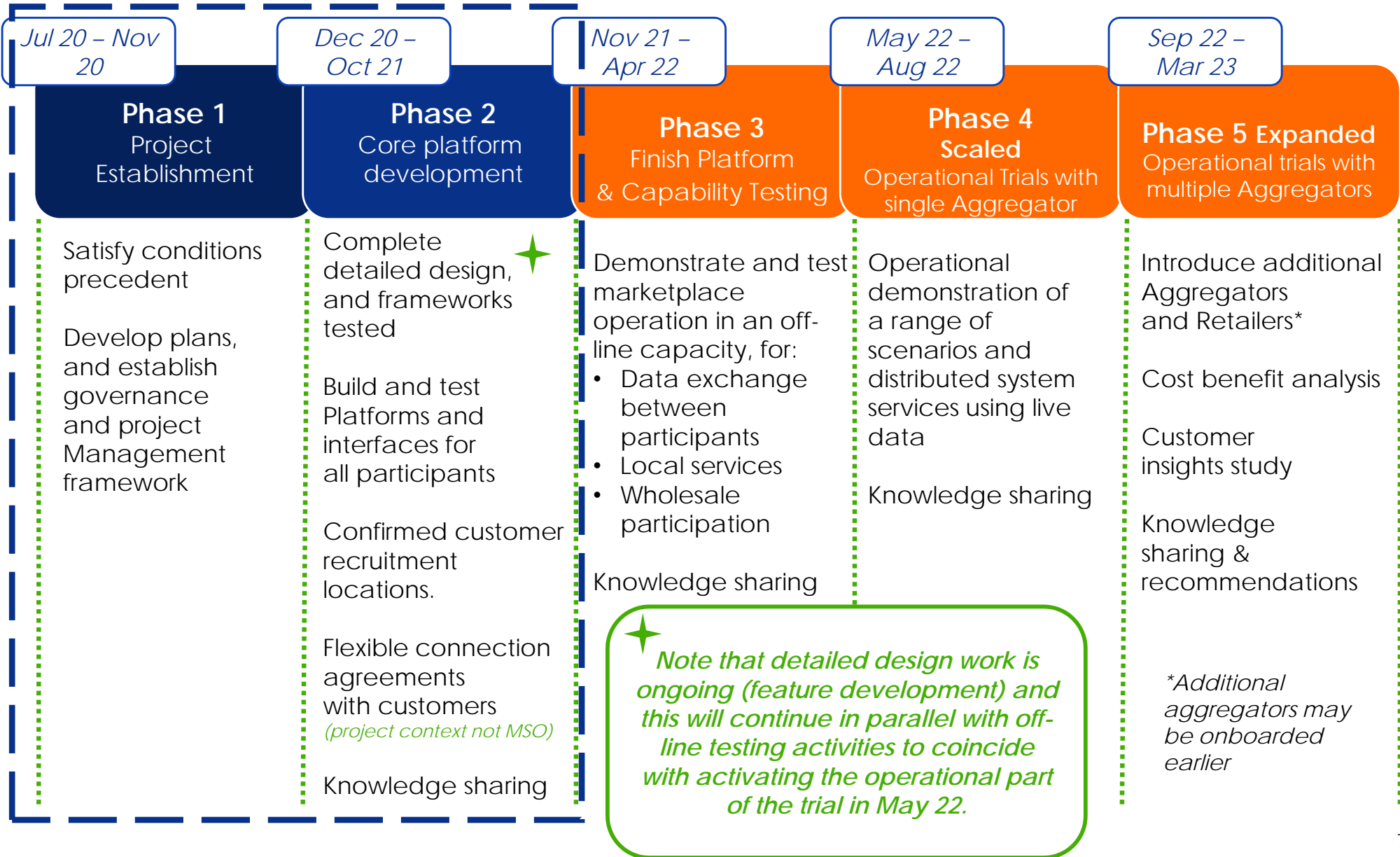


# EDGE Project update + Summary of Milestone 2 deliverables

# Project Update | Program view



M2 Deliverables Submitted



*\*Additional aggregators may be onboarded earlier*

# Milestone 2 Deliverables



## Project Management

D2.1 Provision of a Milestone Report

29 Oct 2021



*Report ready for submission*

D2.2 Provision of an updated Project Plan and material updates

29 Oct 2021



*Report ready for submission*

## Trial Platform Development and Testing

D2.3 Evidence of successful operation of key Marketplace components

29 Oct 2021



*Summary Test Reports produced, ARENA demo to be scheduled*

End-to-end transactional integration has occurred and the Project Participants have demonstrated operation of M2 components. Participants worked with IPM to complete documentation to submit evidentiary requirements.

D2.6 Consideration of the feedback of the stakeholder engagement and community

29 Oct 2021



*Stakeholder feedback Summary developed*

D2.7 Evidence of establishment of Data Exchange Advisory Group and Retailer/Aggregators Advisory Forum

29 Oct 2021



*ToR, members and schedule ready for submission*

D2.8 Engagement of a Knowledge Sharing Consultant

30 May 2021



*University of Melbourne engaged*

D2.9 Engagement of CBA consultant

31 Aug 2021



*Deloitte AE and Energeia engaged*

D2.10 Completion of Knowledge Sharing Deliverables

29 Oct 2021



## Customer Acquisition

D2.4 Engagement of consultant for undertaking customer insights study and provision of scope

29 Oct 2021



*Deakin University engaged*

D2.5 Evidence end-use customer (DER supplier) consultation has commenced

29 Oct 2021



*ToR, members and minutes of CAG ready for submission*

### Note:

*M2 Evidentiary documents submitted to ARENA, not yet signed off*

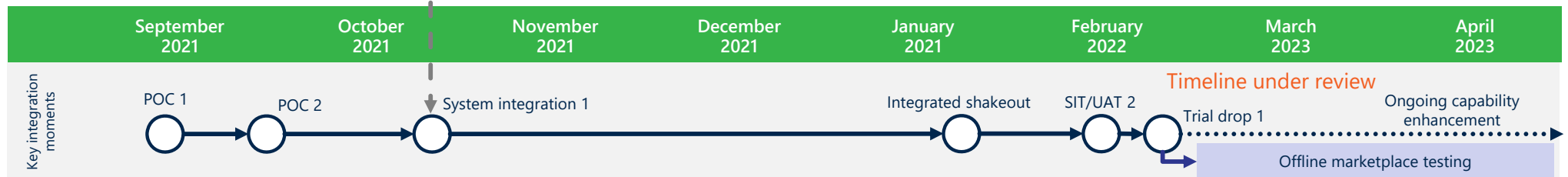


# Integrated System Development & Testing

The project team have successfully completed Cross Organisation Testing for Milestone 2.

## Key Progress and next steps

<b>Platform development update</b>	<b>Updated design approach</b>
<p>Data Exchange capability has been successfully delivered and tested between the DSO, AEMO and the Aggregator. The DSO Platform can derive and communicate the Dynamic Operating Envelopes. AEMO's Market Platform can ingest and process signals from both the DSO and Aggregator and send wholesale dispatch instructions. The Aggregators platform can derive and communicate operational bids of DER Fleet.</p>	<ul style="list-style-type: none"> <li>• A revised approach for Detailed Design for Phase 3 has been developed to streamline design decisions and timebox detailed design discussions.</li> <li>• This revised process is currently being trialled to inform broader re-planning for Phase 3.</li> </ul>
<b>Cross Organisation System Integration Testing</b>	
<ul style="list-style-type: none"> <li>• The test was undertaken by three organisations, including AEMO as the market operator, AusNet as the distribution network service operator (DSO) and Mondo as the Aggregator on 20/10/2021 and 21/10/2021.</li> <li>• The scope covered both integration of all three systems and the selected functionality of the Basic Marketplace.</li> <li>• All success criteria for the testing were met and endorsed.</li> </ul>	



# Insights into the role of the Aggregator in EDGE and interactive discussion

## Material to be provided separately by Mondo on the day or before

### Proposed Content Outline:

- *Mondo Platform overview*
- *Implementing Operating Envelopes*
- *Bi-directional Offer (Boffer) Progression*
- *DER Fleet Dispatch*
- *Network Services*

**Opportunity for members to provide a brief update on other DER integration and marketplace industry trials in progress**



Information welcome, to be provided at  
member discretion

# The look ahead

# Advisory Group focus

To be shaped by  
Advisory Group  
member input



Q3  
2021

Q4  
2021

Q1  
2022

Q2  
2022

## Local services definition and functionality

- *Services/scenarios to be considered*
- *Forecasting of need*
- *Valuing the service (setting the reserve price)*
- *Service performance evaluation/validation*

## Research Plan input

- *What are the key questions to answer from a DNSP perspective?*
- *How might one go about designing test plans to provide the evidence that will be needed?*

## Operating envelope allocation methods

*Revisit OE work and illustrate desk-top analysis*

## Exposure to vendor/system components within EDGE

- *Data identity and data exchange*
- *Market logic/intelligence*
- *DSO functionality*

## Cost-Benefit Analysis

*CBA scope and how the various project activities align to deliver the Research Plan and CBA outcomes*

## Insights into the Aggregator role in EDGE

- *Context*
- *Implementing Operating Envelopes*
- *Bi-directional Offer (Boffer) Progression*
- *DER Fleet Dispatch*
- *Network Services*

## Customer insights study

*Overview Deakin scope of work Understand how customers are engaging and responding*

## Presentation and discussion of interim project report

*Sharing of content with NAG ahead of publication and obtaining feedback*

## DER-Network-Market optimisation

*Optimising outcomes from network-side activities that influence DER access and market conditions (dynamic voltage management, network reconfiguration etc.)*

## Check-in on end-to-end design within EDGE

*Revisit pertinent aspects within the EDGE detailed design to enhance the value of the trial outcomes*

## Trial operation analysis and cost-benefit assessment

- *NAG Activities aligned with the operational stages of the trial and the Research Plan hypotheses / tests*