



Government of Western Australia  
Energy Policy WA

# WEM Reform Implementation Group (WRIG)

## Meeting #17

30 September 2021

Working together for a  
**brighter** energy future.

# Housekeeping

## Ground rules and virtual meeting protocols

- Please place your microphone on mute, unless you are asking a question or making a comment.
- Please keep questions relevant to the agenda item being discussed.
- If there is not a break in discussion and you would like to say something, you can ‘raise your hand’ by typing ‘question’ or ‘comment’ in the meeting chat. Questions and comments can also be emailed to [wrig@energy.wa.gov.au](mailto:wrig@energy.wa.gov.au) after the meeting.
- The meeting will be recorded for minute-taking purposes. Please do not make your own recording of the meeting.
- Please state your name and organisation when you ask a question to assist with meeting minutes.
- If there are multiple people dialling in through a single profile, please email [wrig@energy.wa.gov.au](mailto:wrig@energy.wa.gov.au) with the names of the attendees to be recorded in the minutes.
- If you are having connection/bandwidth issues, you may want to disable the incoming and/or outgoing video.

# Agenda

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**10:00am**    **Item 1: Introductions**  
Dora Guzeleva | EPWA

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**10:05am**    **Item 2: Announcement**  
Dora Guzeleva | EPWA

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**10:15am**    **Item 3: Joint Industry Plan – Updates**  
Dora Guzeleva | EPWA    Stuart Featham, Mariusz Kovler, Mike Reid | AEMO    Mike Chapman | Western Power

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**10:55am**    **Item 4: Web Portal for Participants**  
Kristy McGrath, Clayton James | AEMO

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**11:10am**    **Item 5: Procedure Updates**  
Alex Gillespie, Erika Canuti | AEMO

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**11:30am**    **Item 6: Next Steps**  
Dora Guzeleva | EPWA

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# Announcement

## New Wholesale Electricity Market (WEM) to start on 1 October 2023

- **The Government has confirmed that the commencement date for the new WEM will be 1 October 2023**
- **The Energy Transformation Strategy and associated initiatives have made significant progress to mitigate risks to system security, as work to integrate renewables into the South West Interconnected System continues**
- **The Government has considered feedback from AEMO and has approved a new WEM commencement date to reduce delivery risk, and provide AEMO and market participants with adequate time to progress the successful implementation of the new WEM**
- **The current state of readiness for the new market was a factor in the decision**
- **New protocols/specifications and market testing to be delivered towards the strict 1 October 2023 date, in line with a refreshed AEMO implementation plan**
- **Further details of the WEM reform implementation program, including dates and monitoring, will be outlined in an updated Joint Industry Plan after this meeting**

# Program changes flowing from the extension

**Session Purpose:** to summarise key program changes and updates arising from the timing extension

# WEM Reform

## Implementation Journey

WEM Reform is a huge, complex and integrated program with a largely sequential rule, procedure and system development process at its core. The gazettal of the core reformed WEM rules has set the foundation for AEMO's implementation planning, and procedure and IT system development

### RULES

The Government's WEM Rules are progressively implementing the Energy Transformation Taskforce decisions. Tranches 1–3 were gazetted last year and Tranche 4A earlier this year. Tranche 4B and supporting commencement notices were gazetted 28 Sept 2021. Tranche 5 to be gazetted Dec 2021. Tranche 6 in 2022.

### PLANS

AEMO's Implementation Plan defines the high level timelines for rule, procedure and system delivery. The Joint Industry Plan maps this against industry activity and needs to be revised to include industry activity aligned with the new go-live,

### PROCEDURES

To comply with the new rules, AEMO must produce 63 new or substantially updated procedures. A new procedures calendar has been produced

### SYSTEMS

AEMO is building or updating 37 systems (80% of AEMO's current systems will change). A new plan for technical specification release has been produced.

## MARKET READINESS & GO LIVE

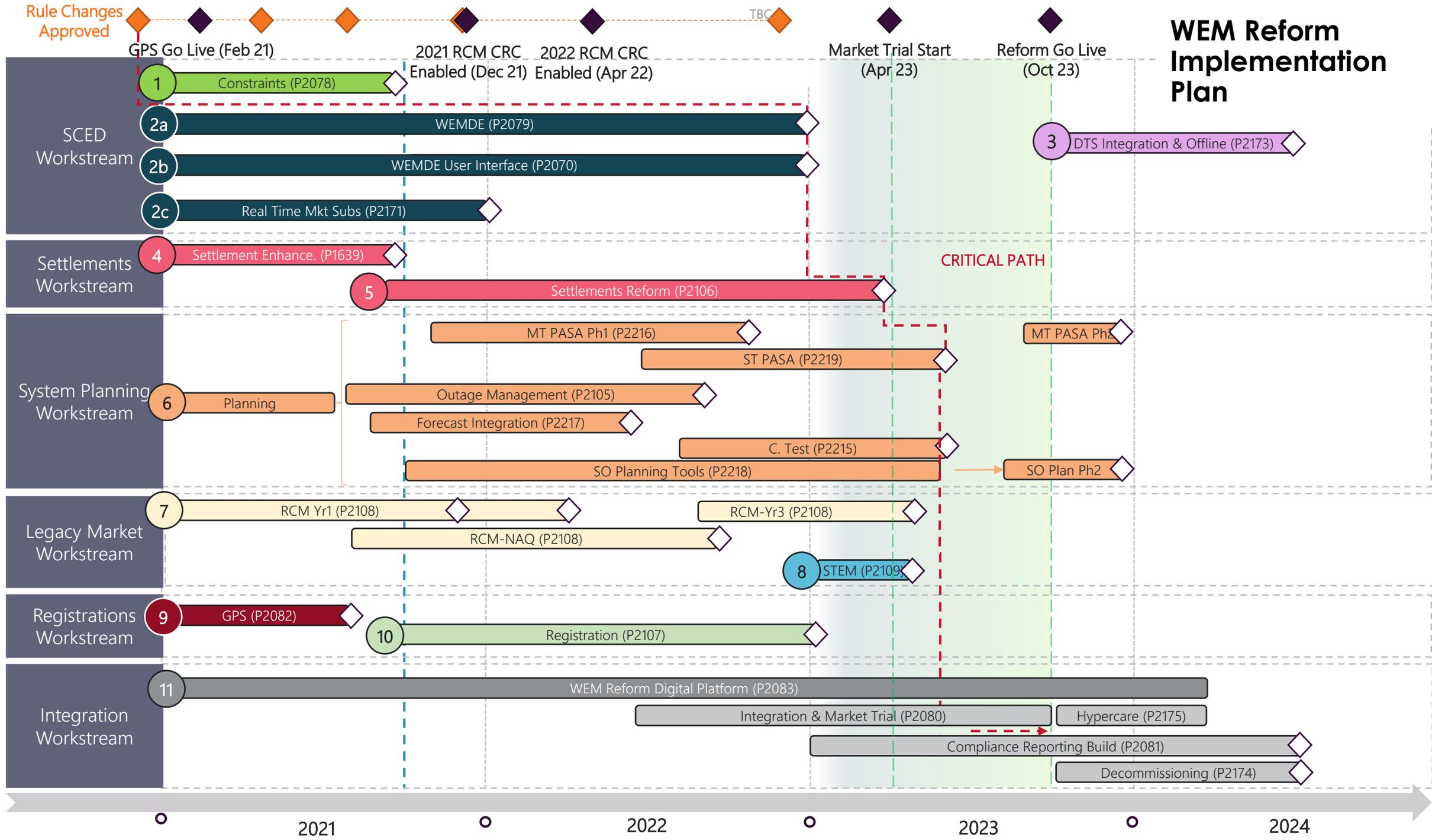
As a result of the timeline extension, the following market readiness activities have also been reviewed:

- *Market Readiness Reporting*
  - defer next survey to January 2021;
  - Re-commence reporting on general criteria to mid-2022;
  - include specific criteria through to Go-Live
- *Readiness Working Group* – Move to bi-monthly frequency
- *Market Participant Training* – Continue socialisation, education and familiarisation activities- most formal system training delayed to Q3 2022.
- Industry Testing and Market Trial Strategy Feb 2022
- Market Trial Definition – publish Q3 2022
- Market Transition Plan – publish Q4 2022

# Rules Gazettal Schedule

Work package	June	July	August	Sept	Oct	Nov	Dec	2022
<b>TRANCHE 0 - GAZETTED</b> <ul style="list-style-type: none"> <li>Governance of constraints</li> <li>Technical Rules change management, etc</li> </ul>								
<b>TRANCHE 1 - GAZETTED</b> <ul style="list-style-type: none"> <li>Generator Performance Standards Framework</li> <li>Frequency Operating Standards and Contingency Events Frameworks</li> </ul>								
<b>TRANCHE 2 - GAZETTED</b> <ul style="list-style-type: none"> <li>Foundation Market Parameters (incl. STEM)</li> <li>Frequency Co-optimised ESS</li> <li>Scheduling and Dispatch</li> <li>Market Settlement, etc</li> </ul>								
<b>TRANCHE 3 - GAZETTED</b> <ul style="list-style-type: none"> <li>Reserve Capacity Mechanism (RCM) Prioritisation and Network Access Quantities Framework</li> <li>Participation of storage/hybrid facilities in the RCM, etc</li> </ul>								
<b>TRANCHE 4A - GAZETTED</b> <ul style="list-style-type: none"> <li>Transitional Arrangements (e.g. ESS accreditation)</li> <li>Changes and Rules commencement to facilitate 2021 RCM, etc.</li> </ul>								
<b>TRANCHE 4B – GAZETTED (28 September)</b> <ul style="list-style-type: none"> <li>UFLS &amp; System Restart</li> <li>Change management for specified Technical Standards</li> <li>Changes to shortfalls/refunds – not-in-service capacity and ESR</li> <li>Remaining changes to facilitate 2021 and 2022 RCM</li> <li>Changes and Rules commencement to facilitate 2022 RCM</li> </ul>								
<b>TRANCHE 5 (December)</b> <ul style="list-style-type: none"> <li>Non-Cooptimised ESS Framework</li> <li>Participation and Registration framework</li> <li>Intermittent Loads</li> <li><b>Changes to RCOQ and Reserve Capacity testing rules</b></li> <li>Market Information Framework (tbc)</li> </ul>								
<b>TRANCHE 6 (2022)</b> <ul style="list-style-type: none"> <li>Typographical &amp; Reference Errors</li> <li>Manifest errors / omissions</li> </ul>								Timing TBC
Drafting instructions and rule drafting	Stakeholder consultation		Ministerial approval, publication of the Amending Rules and Gazettal					

# WEM Reform Implementation Plan



# Western Power – GPS Updates

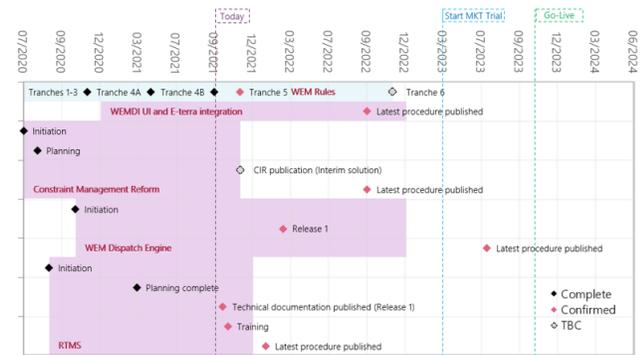
Verbal report from Mike Chapman, Western Power:

- GPS submission template
- GPS guideline

# Refreshing the Joint Industry Plan

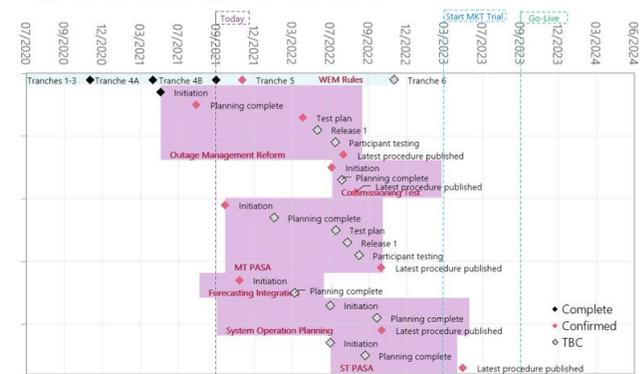
- The JIP will need to be revised by all contributors – AEMO, EPWA, Western Power, Synergy
- AEMO has commenced this process by identifying additional milestones that can be reported for each project
- Our emphasis remains on milestones that inform market participants' own planning
- For each project, we'll progressively publish/confirm milestones for:
  - Initiation
  - Completion of planning phase
  - Timing of engagement through WRIG-IT
  - Consultation on procedures
  - Release of test plan
  - First release, technical documentation and training

## SCED Workstream



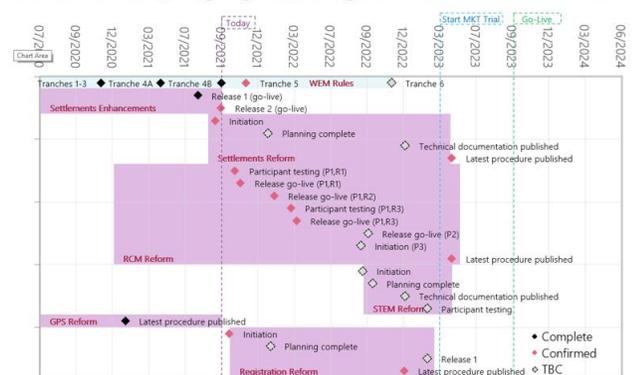
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## System Planning Workstream



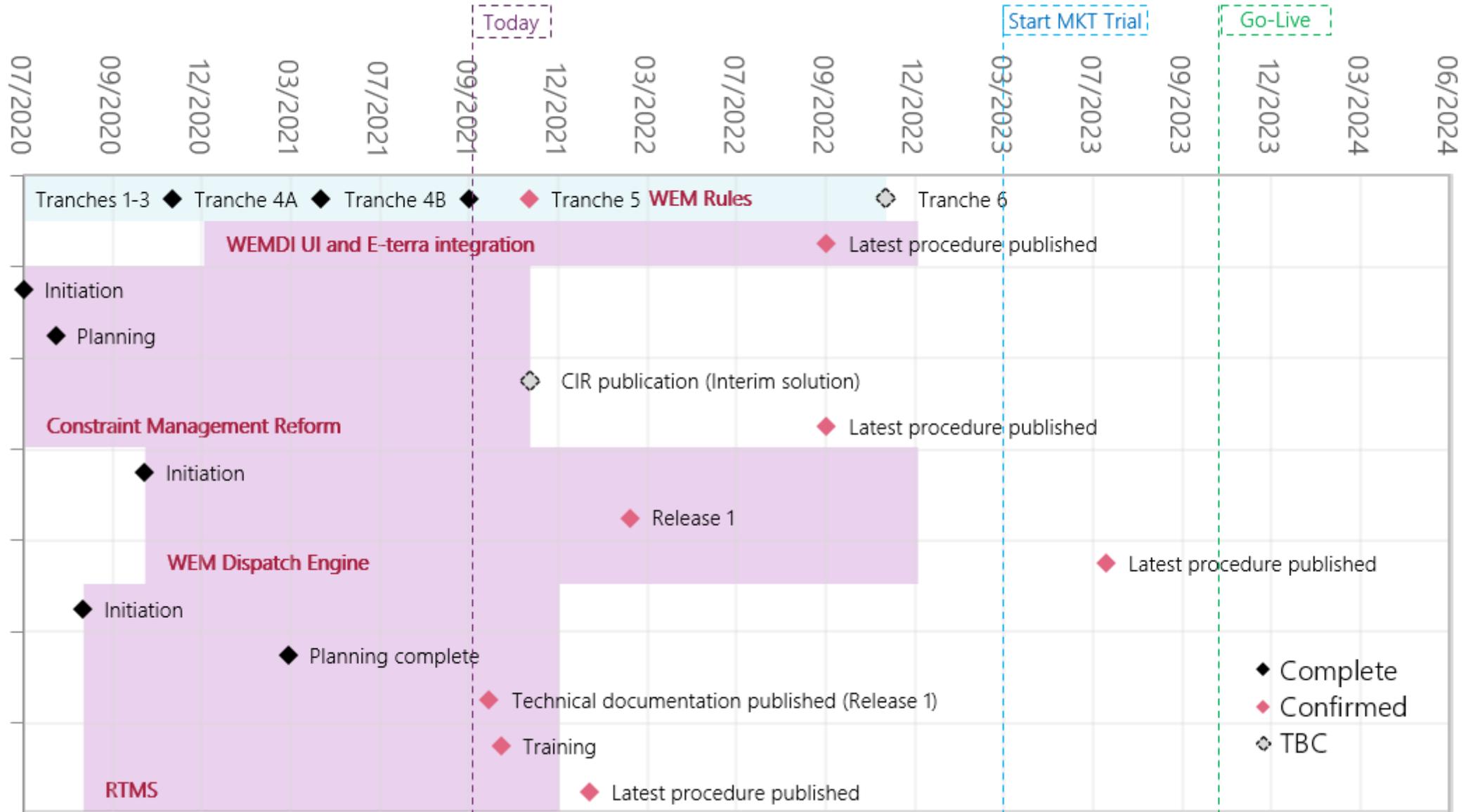
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## Settlements, Legacy and Registrations Workstreams

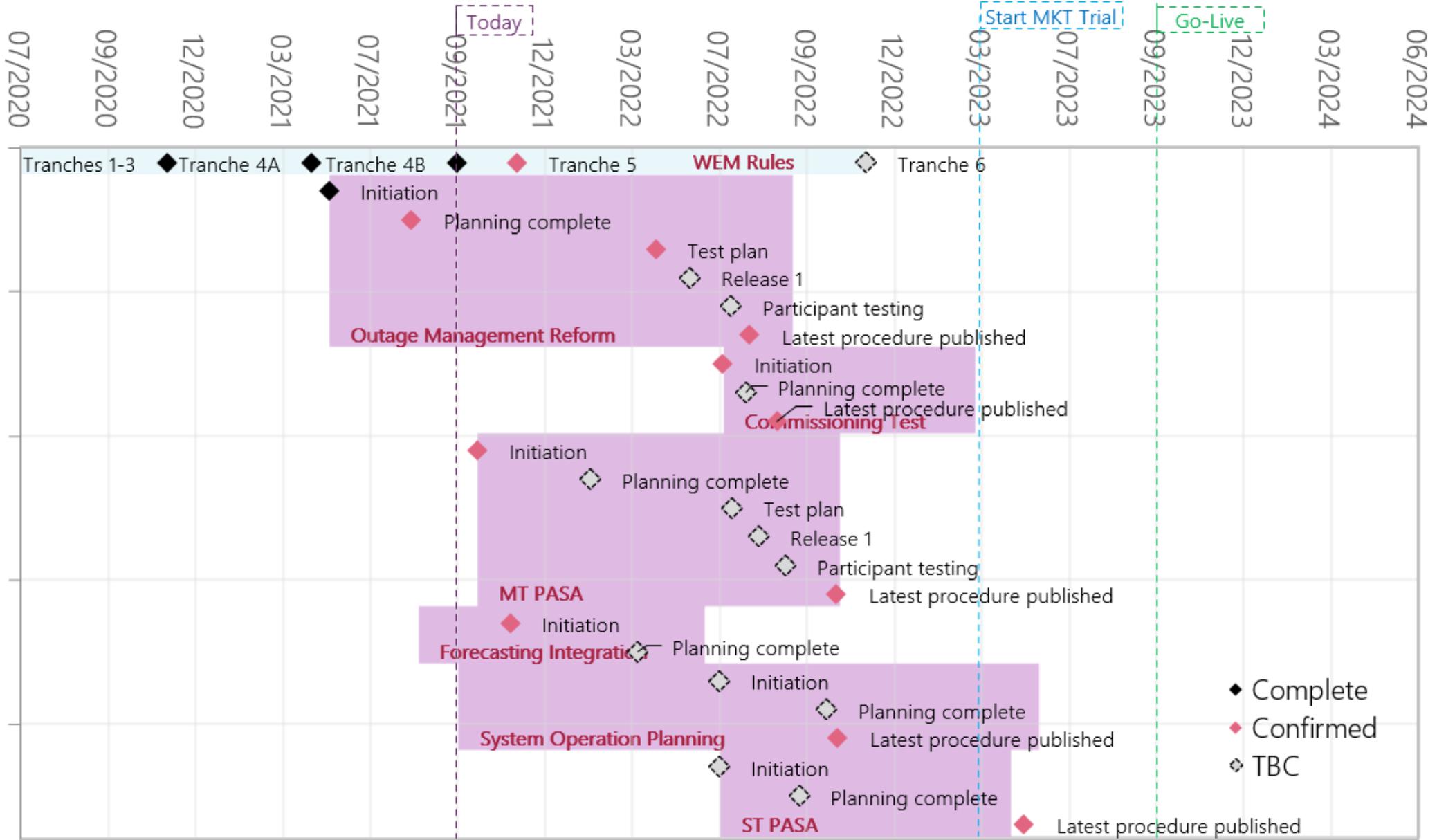


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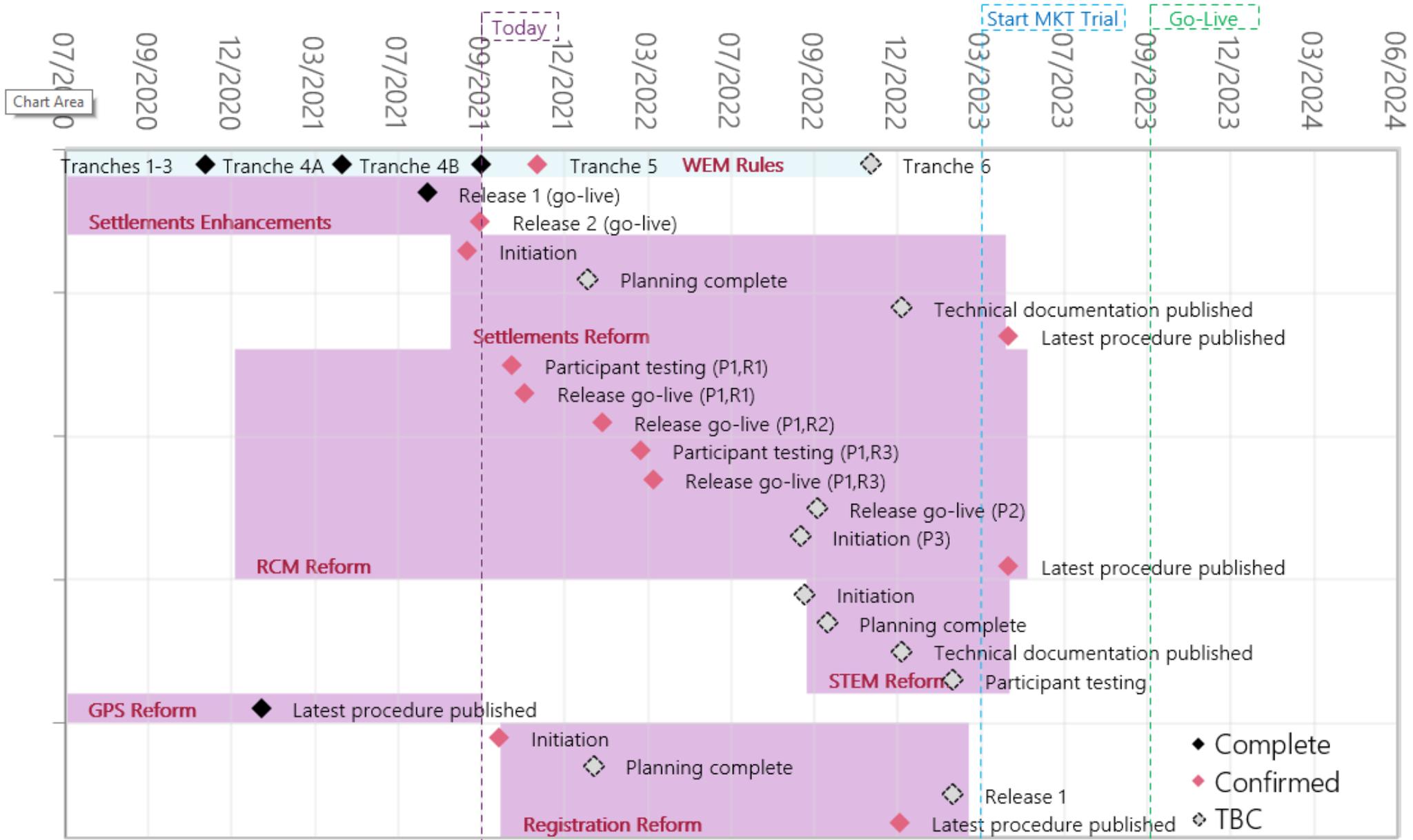
# SCED Workstream



# System Planning Workstream



# Settlements, Legacy and Registrations Workstreams



# Technical Specification Releases

Work package	Estimated date for providing technical specifications
RTMS	Late Oct 2021
WEMDE	Dec 2021/Jan 2022 (Prelim guidance on Dispatch Outcome files)
Settlement Enhancement	June 2021 ( <a href="#">swagger</a> ) and Sept 2021 ( <a href="#">release notes</a> )
Outage Management	Jun 2022
Commissioning Test	TBC
MT PASA	Aug 2022
STEM	Jan 2023
RCM Phase 1	Release 1: Nov 2021 (User guide edits); Release 3 (API specs): Mar/Apr 2022
RCM Phase 2	N/A (expecting minor edits to user guide)
RCM Phase 3	TBC
Registration	Jun 2022
Settlement Reform	June 2023
ST PASA	TBC

# WEM Reform Portal for Market Participants

Session Purpose: To consult on the new WEM Reform portal under development

# Delivery WEM Reform information needs improving

We've listened and we're acting...

"[We] highlight the **lack of a consolidated database** for WEM reform related information. Currently information is scattered between various webpages and sometimes only sent to attendees of specific market forums. This poses huge risk to participants of missing potentially vital information"

"We are having difficulty even identifying from the **deluge of technical information** being provided to us by the multitude of AEMO sections/groups as to what is even required of our company to prepare for the coming market changes"

"There is a tight development timeframe and it hinges on AEMO being able to **deliver the relevant specifications in a timely manner.**"

"[Participant] is deeply concerned with current progression of the WEM Reform program and the **lack of useable information** provided to participants to date"

Source: WEM Reform Market Readiness Survey – July 2021

Improvement requested by participants	Key points
<b>1. Make it easier to find documentation related to development</b>	<ul style="list-style-type: none"><li>• All in one place</li><li>• A “developer centre” or similar</li></ul>
<b>2. Provide a summary of variances between versions/schemas (to save developers having to review all the release notes to identify differences)</b>	<ul style="list-style-type: none"><li>• Particularly relevant if there will be a major change to the reports API.</li></ul>
<b>3. Publish a knowledgebase or collection of questions and answers that others have raised</b>	<ul style="list-style-type: none"><li>• Could be simple – for instance a spreadsheet log?</li></ul>
<b>4. Publish a generic policy document specifying common conventions used across APIs</b>	<ul style="list-style-type: none"><li>• e.g. consistent use of error codes across APIs and elaboration of what a given code indicates</li><li>• e.g. consistent conventions on time zone; date-time stamps</li></ul>

Source: Top four improvement requests made during WRIG-IT consultation on how AEMO could improve technical documentation – August 2021

# Information Architecture – The Reformer



Solution –SharePoint comms site

Home

## Home page design

1. Latest News
2. Procedures
3. Technical Specifications
4. Constraints Information Resource
5. Q&A

## What is WEM Reform?

- About WEM Reform
- The Case for Change
- Mission and Vision
- Implementation Strategy
- Joint Industry Plan
- Meet the Team
- Q&A

## Market Design

- Market Design Document
- Market Rules
- Market Procedures
- **Market Design Fact Sheets**

## Implementation Projects

- For each project or workstream have a page with:
- Project Description
  - Relevant rules, procedures and tech specs
  - Timelines & key milestones
  - Latest forum presentations or recordings

## News & Forums

- Engaging our Stakeholders
- News
- The Reformer Newsletter
- Events Calendar
- WRIG
- WRIG IT
- Readiness Working Group
- Market Consultations

## Developer Centre

- Technical Documents
- Technical Specifications
- Technical Showcases
- **'How To' videos**
- Developer Community
- **Knowledge Base**
- Technical Q&A

## Online Resources

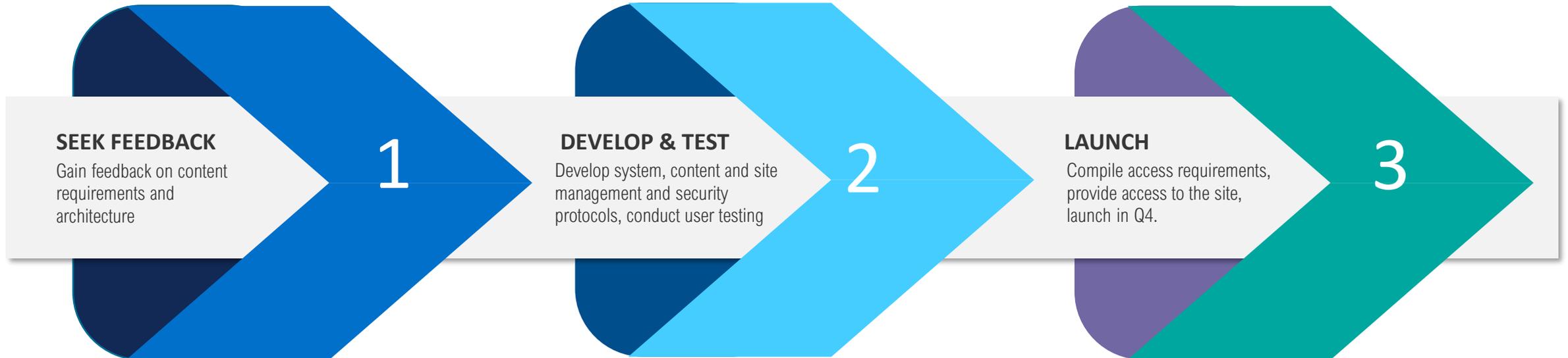
- Fact Sheets
- **Constraints Information Resource**
- **Technical Showcases**
- **Training Modules**
- **'How to' Videos**
- User Guides
- AEMO Website

## Market Readiness

- Market Readiness
- Market Readiness Engagement and Reporting Strategy
- Readiness Reports
- **Industry Testing Strategy**
- **Market Trial Definition**
- **Transition Strategy**
- **Register for Market Trial**

# Timeline

*Send your thoughts and feedback on site content requirements to [wa.ets@aemo.com.au](mailto:wa.ets@aemo.com.au) by Friday, 8 October 2021*



# Publishing the Congestion Information Resource

- The Congestion Information Resource (CIR)
  - Will allow participants to see the up-to-date constraint sets used by WEMDE
  - Will ultimately be published on a public-facing website
- Content of the CIR
  - The constraint equations for market start are still being developed
  - We have a first cut of thermal limits that will be included for visibility, and will continue to update as new constraint equations are developed
- AEMO will publish the CIR to our public-facing website, but not yet
  - The CIR technology solution doesn't integrate with the existing AEMO website platform
  - We will resolve this in good time for market start
- In the interim, the CIR will be published on the WEM Reform Portal
  - The CIR technology solution and the WEM Reform Portal are already compatible
  - Thus, once the CIR is published, anyone with access to the WEM Reform Portal will also have access to the CIR
- Timing to be confirmed but AEMO targeting publication shortly after the WEM Reform Portal is launched

# WEM Procedures

## Session purpose:

- an updated “look-ahead” at WEM Procedures schedule
- introduce and explain the Participant Submissions WEM Procedure prior to release for consultation

# WEM Procedures

## WRIG Schedule

Meeting	Owner	Project	Topic/Procedure
30 September	AEMO	RTMS	Participant Submissions
28 October	AEMO	System Planning	Declaring Emergency Operating States
	AEMO	RCM	Declaration of Bilateral Trades and the Capacity Credit assignment
	AEMO	RCM	Indicative Facility Class and RCM Facility Class Assessment Update
	AEMO	WEMDE	FCESS Accreditation Feedback
	AEMO	WEMDE	Communications and Control Systems Feedback
	AEMO	RCM	Certification of Reserve Capacity Feedback
25 November	AEMO	WEMDE	Dispatch Algorithm
TBC January	AEMO	RCM	Reserve Capacity Security Procedure

# WEM Procedures

## WEM Procedure Timeline

Revised timeline published on AEMO's and EPWA's Website. Any questions can be sent to [WA.ETS@aemo.com.au](mailto:WA.ETS@aemo.com.au).

## New AEMO WEM Reform Procedure Page

The [WEM Reform Procedure Page](#) will be AEMO's central location for:

- Links to Published WEM Procedures
- Links to Provisionally Published WEM Procedure
- Links to WEM Procedures undergoing consultation
- AEMO's WEM Procedure Timeline

These publications will still be available in their original locations on AEMO's and EPWA's Websites.

# Next Steps

# Next Steps

- **Next WRIG 9:30am Thursday 28 October 2021**
- **Next WRIG-IT meetings scheduled**
- 14 October: RCM Release, testing and training updates
- **Readiness Working Group #5 scheduled for 19 October 2021**
- **WRIG Members – please continue to provide offline feedback, queries and suggestions on topics you would like further information on [wa.ets@aemo.com.au](mailto:wa.ets@aemo.com.au)**