
Testing and Migration Advisory Group #11

16 November 2022

Agenda

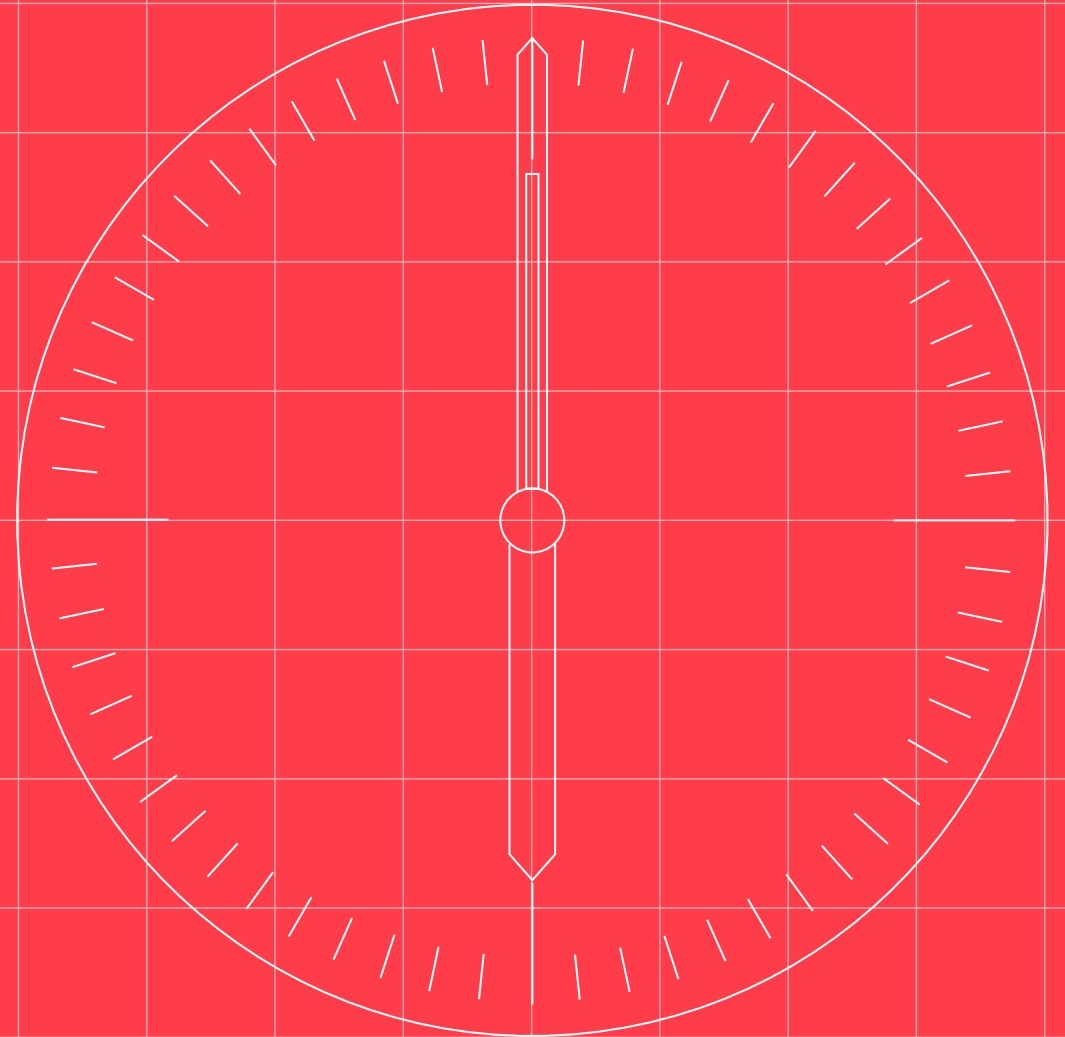
#	Item	Objective	Type	Lead	Time	Page
1	Welcome			Chair	10:00-10:05 <i>5 mins</i>	
2	Minutes and actions	Approve September TMAG minutes. Update on open actions, closing where appropriate	Decision	Chair and Secretariat	10:05-10:10 <i>5 mins</i>	3
3	Programme updates	Provide updates from L2/3 governance groups and wider Programme activity	Information	Programme (PMO)	10:10-10:15 <i>5 mins</i>	5
4	Environments Approach and Plan	Approve version 1.0 of the Environments Approach and Plan	Decision	Programme (Adrian Samlal)	10:15-10:30 <i>15 mins</i>	7
5	Migration Option Analysis Update	Update on the progress of the migration option assessment and the Migration Option Programme Participant Information Request (PPIR)	Information	Programme (Kate Goodman)	10:30-10:45 <i>15 mins</i>	11
6	Export MPANs	Discuss supplier concerns raised at CCAG on new export MPANs and how suppliers will be mandated on import/export MPAN transfers	Discussion	Programme (Kate Goodman)	10:45-11:05 <i>20 mins</i>	14
7	SIT Working Group	Update on the role of the SIT Working Group and its mobilisation	Information	Programme (Dom Mooney)	11:05-11:10 <i>5 mins</i>	16
8	Qualification/pre-qualification	Update on discussions with code bodies on qualification	Information	Programme (Nigel Hunt)	11:10-11:20 <i>10 mins</i>	18
9	Working group report	Provide updates from the DWG, MWG, QWG and EWG	Information	Programme (working group leads as required)	11:20-11:25 <i>5 mins</i>	20
10	Summary and next steps	Summarise actions and look ahead to December TMAG	Information	Chair and Secretariat	11:25-11:30 <i>5 mins</i>	22
	Attachments	Environments Approach and Plan (changed marked and clean versions)				
	Appendix	SIT POAPs (action TMAG)				

Minutes and actions

DECISION/INFORMATION: Approve October TMAG minutes. Update on open actions, closing where appropriate

Chair and Secretariat

5 mins



Minutes and Actions Review

1. **Approval of Minutes** from TMAG 19 October 2022 ([TMAG Meeting Minutes – 19 October 2022](#))
2. **Open Actions and Actions from TMAG 19 October 2022** (actions will be discussed by exception. Please review the action updates ahead of the meeting)

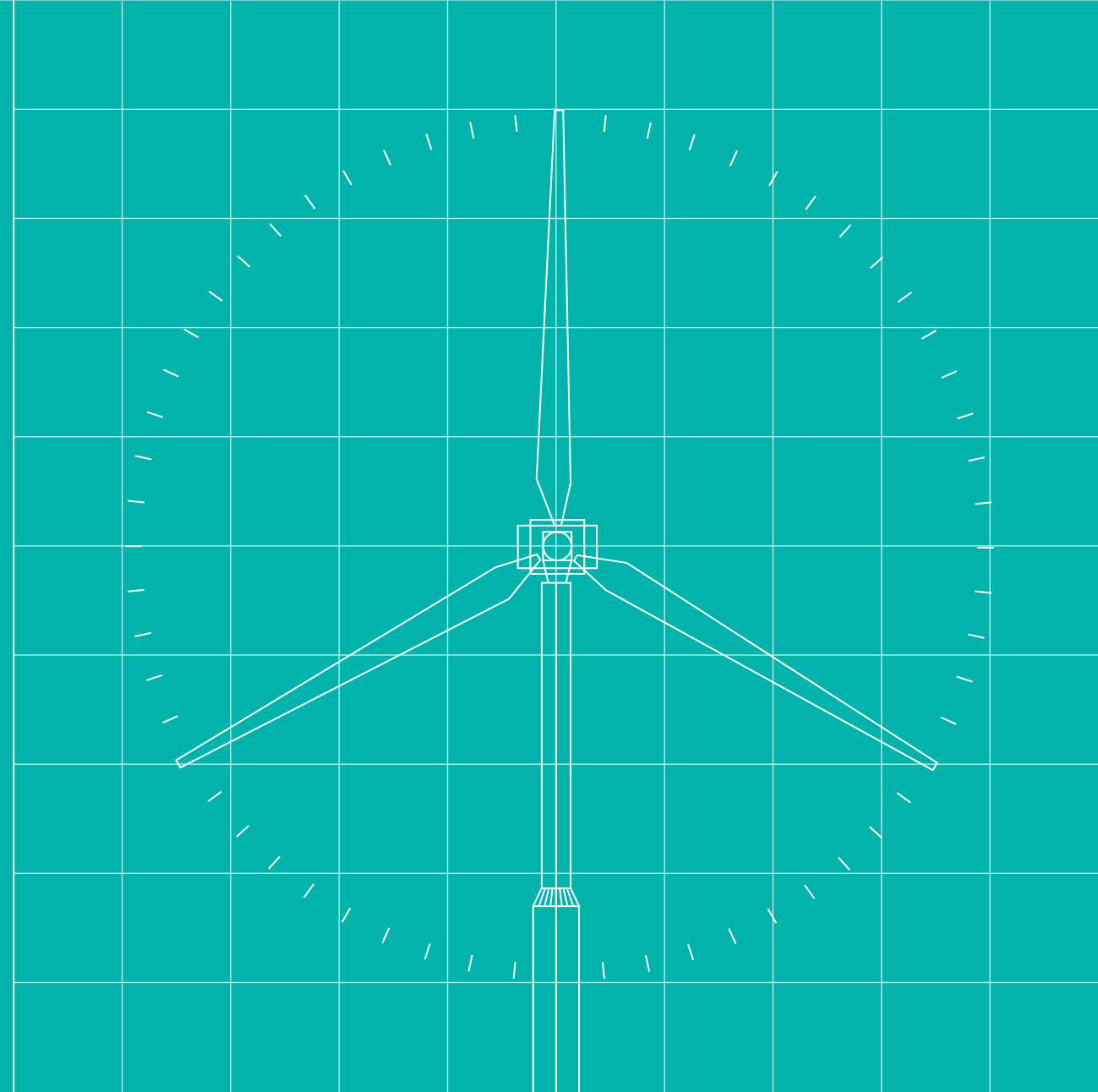
Ref	Date	Action	Owner	Due Date	Status	Latest Update
TMAG08-02	17/08/2022	Respond to Programme replan consultation. Encourage constituents to respond to the consultation	TMAG members	26/08/2022	Open - ongoing	Round 2 consultation closed at the end of September. TMAG members are encouraged to review the Round 3 consultation when released
TMAG10-01	19/10/2022	Share further SIT POAPs showing the path for remaining Programme Participant groups (e.g. non-MVC)	Programme (Kate Goodman)	16/11/2022	Recommend closed	POAPs provided in meeting pack appendix
TMAG10-02	19/10/2022	Encourage their constituents to attend the EWG and engage with the review process for the Environments Approach and Plan	TMAG members	01/11/2022	Recommend closed	Please see agenda item on the Environments Approach and Plan at November TMAG
TMAG10-03	19/10/2022	Raise the open TMAG Large Supplier Representative position with other large supplier representatives and at the PSG	Programme (Jason Brogden)	16/11/2022	Recommend closed	Open seats (Large, Medium and I&C Supplier) raised at PSG and advertised in the Clock on 02 November 2022

Programme updates

INFORMATION: Provide updates from L2/3 governance groups and wider Programme activity

PMO

5 mins



Programme Updates

Governance group updates

Programme Steering Group (PSG)

Update from PSG 02 November 2022

1. **M5 decision** – the Programme updated on the decision to baseline the design from DAG and the plan to deliver the work-off list
2. **M3 Decision** – The PSG decided to conditionally approve the M3 milestone subject to further evidence on participant mobilisation via targeted engagement and Round 3 of consultation on the Programme replan
3. **Programme Replan** – The Programme presented the proposed approach to Round 3 of consultation on the Programme replan. The PSG agreed to commence Round 3 in mid-December (following a decision on migration) and close at the end of January
4. **RECCo Change Request** – The PSG agreed to raise Change Request CR0012 (*Increase in scope of CCAG ToR and code drafting activities to include consequential change*) to impact assessment.
5. **DIP Update** – An update was provided on Data Integration Platform (DIP) procurement and future DIP agenda items
6. **Sponsor Update** – Ofgem reiterated key messages from a recent letter shared with participants

PSG Headline Report available [here](#).

Cross-Code Advisory Group (CCAG)

Update from CCAG 26 October 2022

1. **Regulatory Code Freeze** – The CCAG discussed how potential code change congestion could be managed and the parties who would need to be involved.
2. **Delivery of M7/M8** – The CCAG discussed previous agreement the M8 (code change delivered) and M10 (start of migration) milestones should be aligned. The group noted there may be a need to bring forward elements of code drafting relevant to M10 to support qualification arrangements.
3. **M5 Success Criteria and Prototyping Report** – It was noted an exercise had been conducted with REC and BSC to demonstrate it is technically possible to draft code legal text based on the MHHS design artefacts. This exercise was successful and the CCAG agreed it supported acceptance of the CCAG's M5 success criteria.
4. **Consequential Change Code Drafting Approach** – RECCo presented a new draft Programme Change Request (CR) which seeks to allow the incorporation of consequential code drafting requirements into the CCAG's core code drafting activities. The CR will be presented to the PSG on 02 November 2022 and a decision made on whether it is issued for impact assessment

CCAG Headline Report available [here](#).

Design Advisory Group (DAG)

Update from DAG 31 October 2022

1. **Decision to Baseline the MHHS Design** – DAG unanimously approved the MHHS Design Baseline, subject to the completion of an agreed [Work-Off Plan](#). The Work-Off Plan consists of items of minor change/clarification and other items which will require discussion at DAG subgroups to determine the way forward. For minor or uncontroversial changes in the work-off items, a Programme Change Request (CR) will not be required – however any such items will still be subject to change control and approval by the DAG, to ensure continued industry representation and oversight. For any substantial change, a formal Programme CR will be necessary. This decision completes the M5 Programme milestone.
2. **IPA and SI Assurance Report** – The MHHS SI Assurance Team and the IPA provider advised DAG there were no assurance observations which prevented baselining of the MHHS design. There were several observations requiring resolution, such as lack of clarity around transition arrangements. The SI Assurance Team will implement a Post-M5 Design Change Management Process to provide robust governance around management of the design baseline. A webinar will be held 17 November 2022 to introduce the process.

DAG Headline Report available [here](#).

Wider Programme updates

MHHS Design baselined and M5 approved

- On Monday 31 October, the DAG approved the Physical Baseline Design
- This approval is **subject to the Programme delivering a work-off plan** over the next three months
- The Programme would like to **thank the 86 organisations who provided their feedback and insights**, with 3,300 attendees attending a total of 120 Working Group meetings. There were 5,147 participant comments in total
- The **work-off plan schedule will be communicated via the DAG**

Programme re-plan

- **Round 2 of consultation on the Programme replan ended in September.** All participant responses received in Replan Round 2 have been assessed and are being referenced in the activities that continue to build the plan for Round 3. Multiple workshops have been held to build
- On 02 November, the **PSG agreed to defer Round 3 of consultation to mid-December** until a decision on the migration approach is made and to a time when participants would be able to deliver their plans as part of the consultation. Round 3 will also be a full consultation

Migration Option Programme Participant Information Request (PPIR)

- The **Migration Option PPIR** was issued to programme participants on 04 November, and will be **open for two weeks** until 5pm on **18 November**
- The objective of the PPIR is to gather as much **quantitative information** as possible to support a holistic assessment of the three migration options that remain in scope
- Once closed, the Programme will **analyse all information** received over November and early December to **reach a recommendation on the best option to pursue**
- The **Programme will seek a decision** on the option at **December PSG**

Other updates:

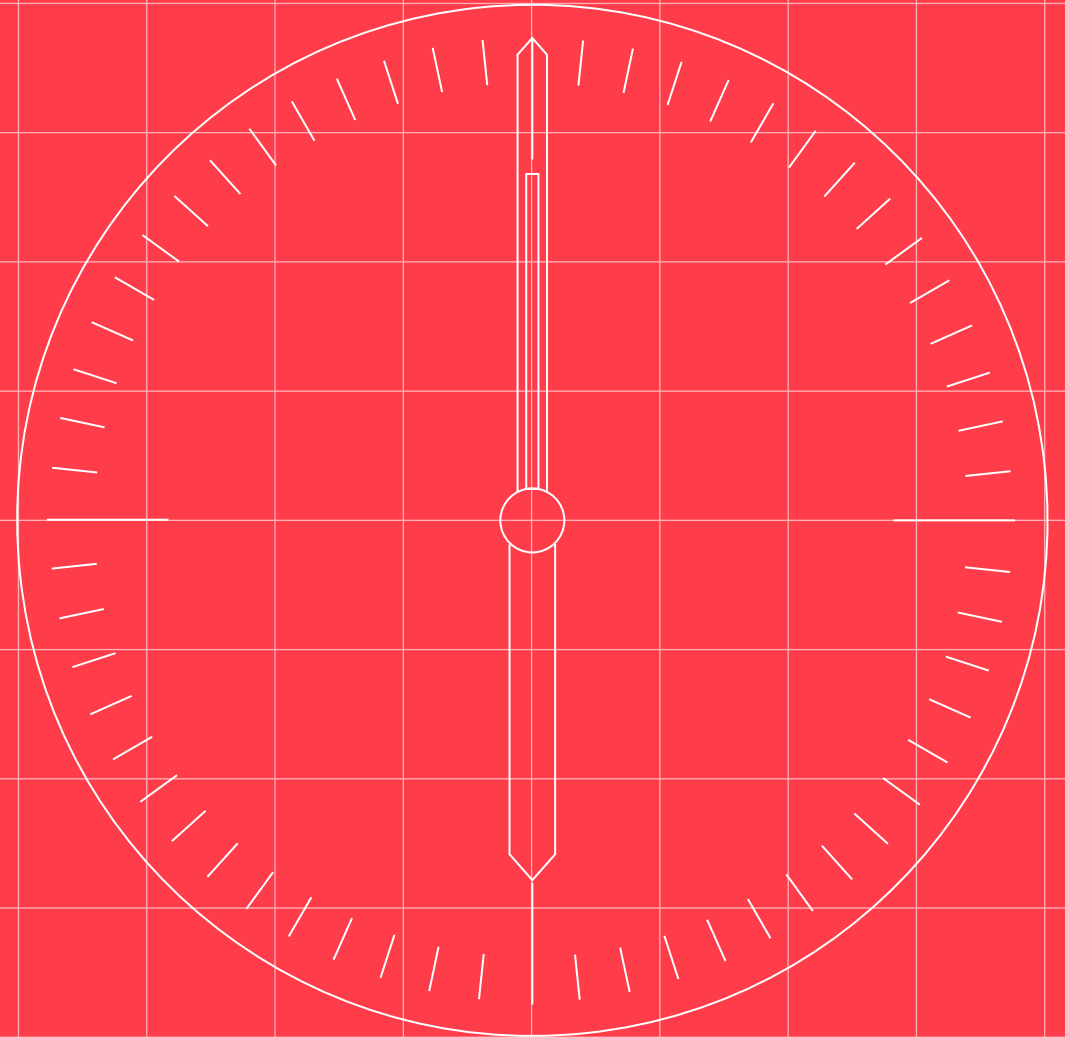
- **M3 conditionally approved** at the Programme Steering Group on 02 November 2022 subject to further evidence on participant mobilization
- **SITWG (Systems Integration Testing Working Group)** to be mobilized in the coming weeks. The SITWG is open to all, please content PMO@mhhsprogramme.co.uk if you would like to join.

Environments Approach and Plan

INFORMATION: Update on the Environments Approach and Plan

Programme (Adrian Samlal)

15 mins



Context

- Environment Approach & Plan has been developed and completed MHHSP review iterations by LDP, SRO and industry Test Participants.
- This deliverable has been developed at an early stage of the programme to outline key principles to inform participants' planning.
- The programme acknowledges that further relevant information will be provided in other planned deliverables.
- The document was recommended for TMAG approval with agreed conditions and work off plan (ref EWG 01 Nov 2022 headline report).
- The document is currently draft and has not yet been baselined
- Next slide provides work off plan status.

Current Document Status and Work Off

Section	Status	Notes/Work Off
Executive Summary	WIP	To include conditional sign off changes documented in EWG 01 Nov 2022 Headline report (due Nov 16th TMAG)
Management and Coordination	Complete	
Planning	Complete	
Environment Allocation	Complete	
Code of Connection	Complete	Participants advised to refer to the Code of Connection deliverable when published (due 31st Jan 2023)
Availability	Complete	
Monitoring	Drafted	The documented approach is to be confirmed with DIP Provider when they are onboard (due 31st Jan 2023)
Maintenance	Complete	
Communications and Meetings	Complete	
Test Data Configuration	Complete	Participants advised to refer to the Test Data Overarching Approach & Plan when published (due 31st Jan 2023)
Roles and Responsibilities	Complete	
Overall Test Architecture by Test Phase/Stage	WIP	Section currently includes TOM diagram, the intention is to enhance this section when Code of Connection deliverable is published (due 31st Jan 2023)
Summary of Environments by Participant Type	WIP	Update this section to reflect ongoing engagement (ready for TMAG paper day 9th Nov 2022): <ul style="list-style-type: none"> - Provide a template for participant engagement (ready for EWG paper day 30th Nov 2022) - Set up initial and regular meetings with participants to identify and document environment needs (ongoing activity in progress. Initial conversations due by 23rd Nov 2022) - Create a catalogue of information to hold all environmental information on the Collaboration pages (ongoing – initial drafts due 31st Jan 2023)
Assurance and Readiness Criteria	Complete	
Central Systems' Environments	Complete	
Elexon Central Systems	Complete	
DCC – DSP	Complete	
DCC – CSS	Complete	
Electralink – DTN	Complete	
(I)DNOs' Environments	WIP	Intention to include more detail on (I)DNO environments when confirmed by participants (ongoing activity in progress. Initial conversations due by 23rd Nov 2022)

Summary & Recommendation

Work-Off plan summary of key items from slide 2:

- Overall Test Architecture by Test Phase/Stage - enhance this section when Code of Connection deliverable when published (due 31st Jan 2023)
- Provide a template for participant engagement (ready for EWG paper day 30th Nov 2022)
- Set up initial and regular meetings with participants to identify and document environment needs (ongoing activity in progress. Initial conversations due by 23rd Nov 2022)
- Create a catalogue of information to hold all environmental information on the Collaboration pages (ongoing – initial drafts due 31st Jan 2023)

When all work off items from slide 2 are completed, we will follow a further MHHSP review iteration by LDP, SRO and industry Test Participants and submit to February 2023 TMAG for approval on version 3.0.

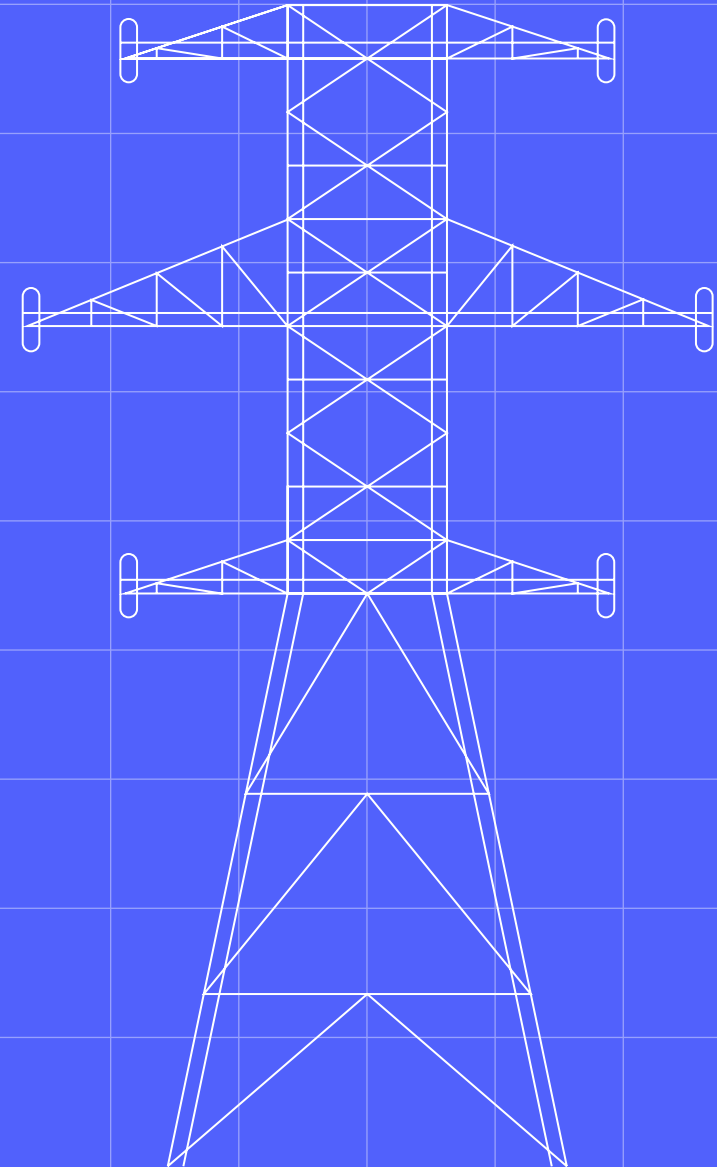
Based on the Work-Off plan summary above and the document status in slide 2, the recommendation is that TMAG should now provide approval to version 2.1.

Migration option analysis update

INFORMATION: Update on progress of the migration options from the MWG and the next steps via a Programme Participants Information Request (PPIR)

Programme (Kate Goodman)

15 mins



Option Analysis Updates

Key option analysis updates following recent Migration Working Group (MWG) meetings include:

Removal of Migration Option 4

Upon review of the Evaluation Framework and the associated qualitative scoring, a decision was made to remove Option 4 from scope. This takes into consideration the ambiguity around how this option would work in practice, as well as concerns around its impact to ongoing settlement accuracy. This decision aligns to discussion and commentary as captured within the Migration Working Group (MWG).

Migration CR Implications

Following review of the Ofgem-approved Target Operating Model (TOM), versus their stated position on the Code Change and Development Group (CCDG) recommendations that followed, the Programme has determined that reverse migration would not necessitate a change to the TOM in and of itself; but rather, would form part of the Programme Change Request that will be raised as part of the Plan re-baseline.

Migration Option PPIR

As part of the Options Paper review meeting with Ofgem on 19 October 2022, and in alignment with prior MWG discussions, the Programme is still looking to receive additional quantitative information to support a holistic and informed assessment of the most suitable migration option to proceed with. As such a decision was made to issue the Migration Option Programme Participant Information Request (PPIR).

Overview of the Programme Participant Information Request (PPIR)

As per recent MHHS Programme communications, the Migration Option Programme Participant Information Request (PPIR) was issued to participants on **04 November 2022**, with the ask for parties to provide as much quantitative information as possible by or before 5pm on **18 November 2022**.

The primary objective of the PPIR is to ensure that the Programme is receiving all tangible information available at this time to support an informed decision as to which migration option will be most suitable to move forward with. This decision on migration will enable the further development of the migration approach and strategy, whilst also informing development of the migration / transition design, and the re-baselining of the MHHS Programme plan.

Key elements of the PPIR included:

- ❖ A briefing letter providing more context and background around the ask
- ❖ A downloadable Excel spreadsheet for participant completion; and
- ❖ A copy of the High-Level Design Process Map slides to support assessment of the options

The PPIR connects to the quantitative ask as discussed in previous MWG and TMAG sessions, and the Programme will be looking to receive input from all participants to inform MHHSP planning, progress and implementation. This request connects into Balancing and Settlement Code (BSC) obligations for Programme parties to respond to reasonable MHHSP requests, but also ideally helps to ensure that all parties have the opportunity to inform this critical aspect of the MHHS Programme approach.

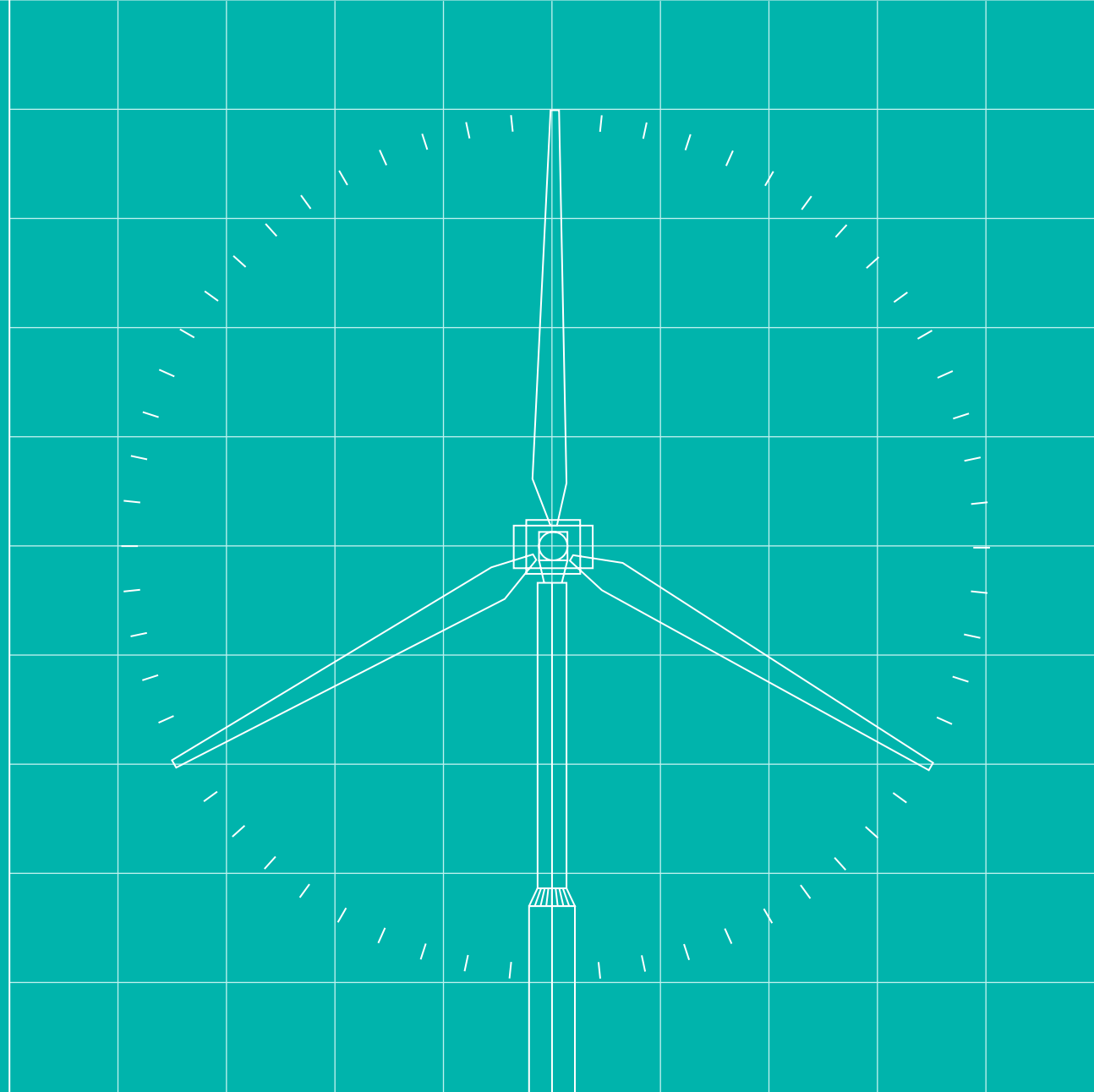
Following the closure of the PPIR on 18 November 2022 the Programme will evaluate all information received to reach a recommendation on the best option to pursue. We will seek agreement on the option in the December Programme Steering Group (PSG), immediately informing relevant working groups of the agreed approach.

Export MPANs

DISCUSSION: Discuss supplier concerns raised at CCAG on new export MPANs and how suppliers will be mandated on import/export MPAN transfers

Programme (Kate Goodman)

20 mins



Background:

- In Ofgem's full business case it was proposed that export MPANs should be mandated to be half-hourly if a HH enabled meter was installed.
- Even without regulatory requirement, the option for consumers to get higher export prices at peak times will increase the number of export MPANs.
- This may impact Migration if suppliers create additional export MPANs prior to migration, especially where they are not the import supplier. Although the same meter is used.

Discussion:

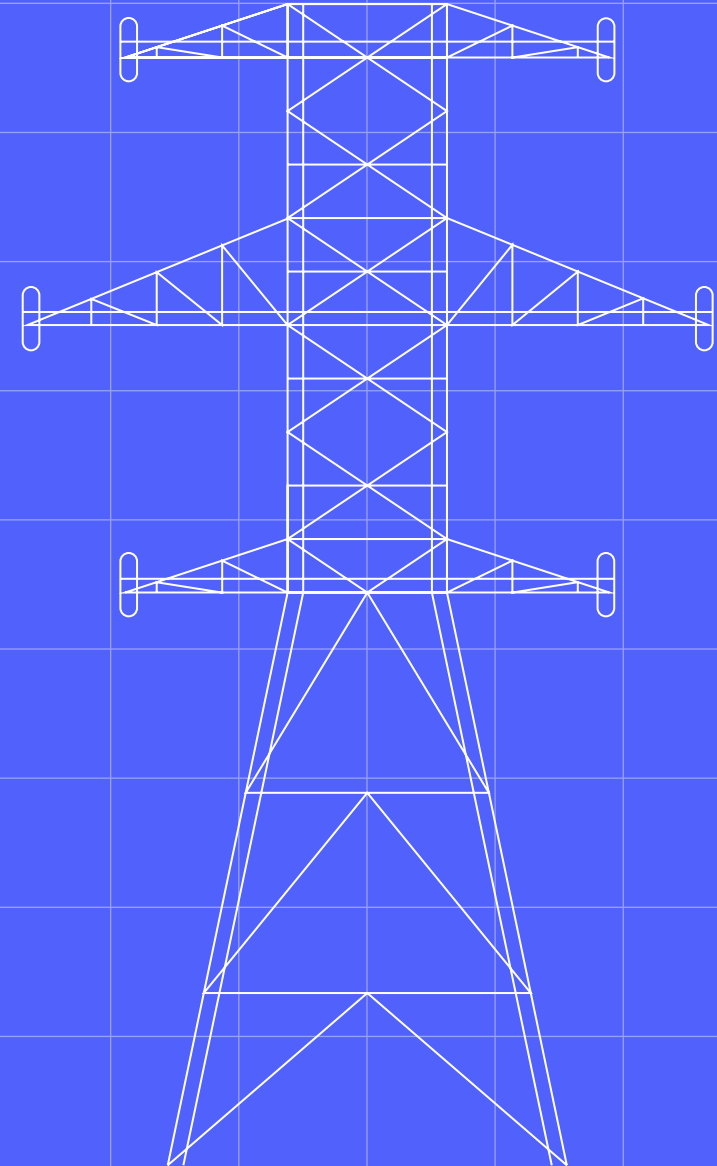
1. Is there a complication if Export MPANs are migrated separately from Import MPANs at the same site?
2. Does the migration strategy need to be specific about export MPANs?
3. Is this an issue for the MWG to resolve?

SIT Working Group

INFORMATION: Update on the role of the SIT Working Group and its mobilisation

Programme (Dom Mooney)

5 mins



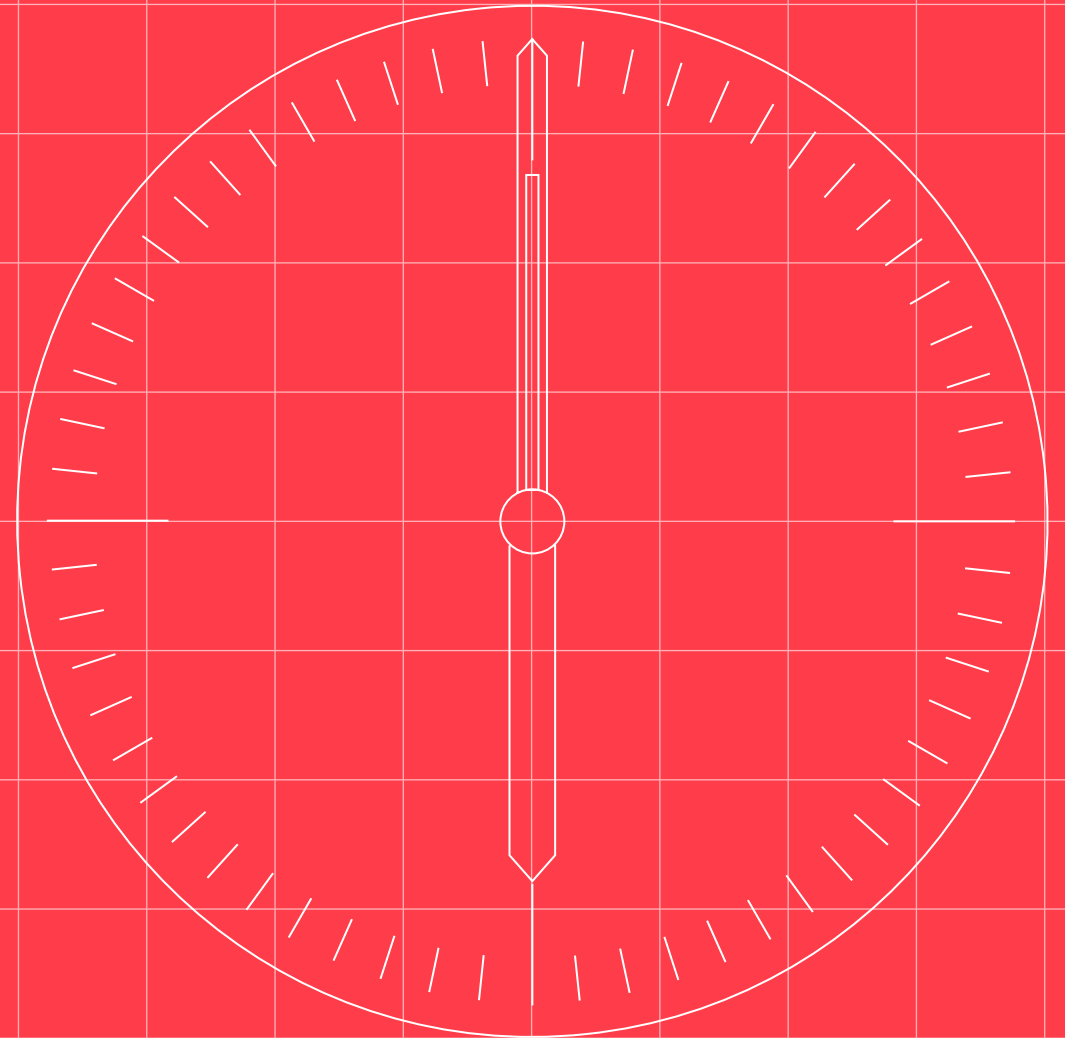
- The Systems Integration Test Working Group (SITWG) will mobilise at the start of December 2022 - chaired by Dominic Mooney (MHHSP SIT Lead)
- The SITWG is open to everyone, and we welcome your participation, especially if you have knowledge and expertise in Systems Integration Testing (SIT).
- The Working Group will help to define the SIT approach for the Programme, for recommendation to TMAG. The outputs of the group will inform Programme participants of the SIT they must carry out.
- The first meeting will be on **Thursday 1 December 2022 at 14:00-16:00** and the group will meet on the first Thursday of the month at 14:00 thereafter. The first meeting will include an overview of:
 - Progress to date including Key Principles and Assumptions
 - Planned SIT deliverables
 - Current and next steps
 - Review and approval the group's Terms of Reference
- For those that would like to attend the SITWG, please email PMO@mhhsprogramme.co.uk

Qualification/pre-qualification

INFORMATION: Update on discussions with code bodies on qualification

Programme (Nigel Hunt)

10 mins



Current Status –

1. The Programme doesn't feel it is appropriate to progress the content of qualification without agreement of the accountabilities and responsibilities for development and execution of qualification
2. Initial review of MHHS Programme proposal that Code Bodies take accountability and responsibility for qualification as per their enduring responsibilities and the existing principles within the BSC Section C
 - Positive early meeting with BSC Co, but the Programme proposal is not yet agreed with the Code Bodies, therefore further more senior level engagement required
3. Project Plan – Qualification High Level Walkthrough with BSC

Next Steps –

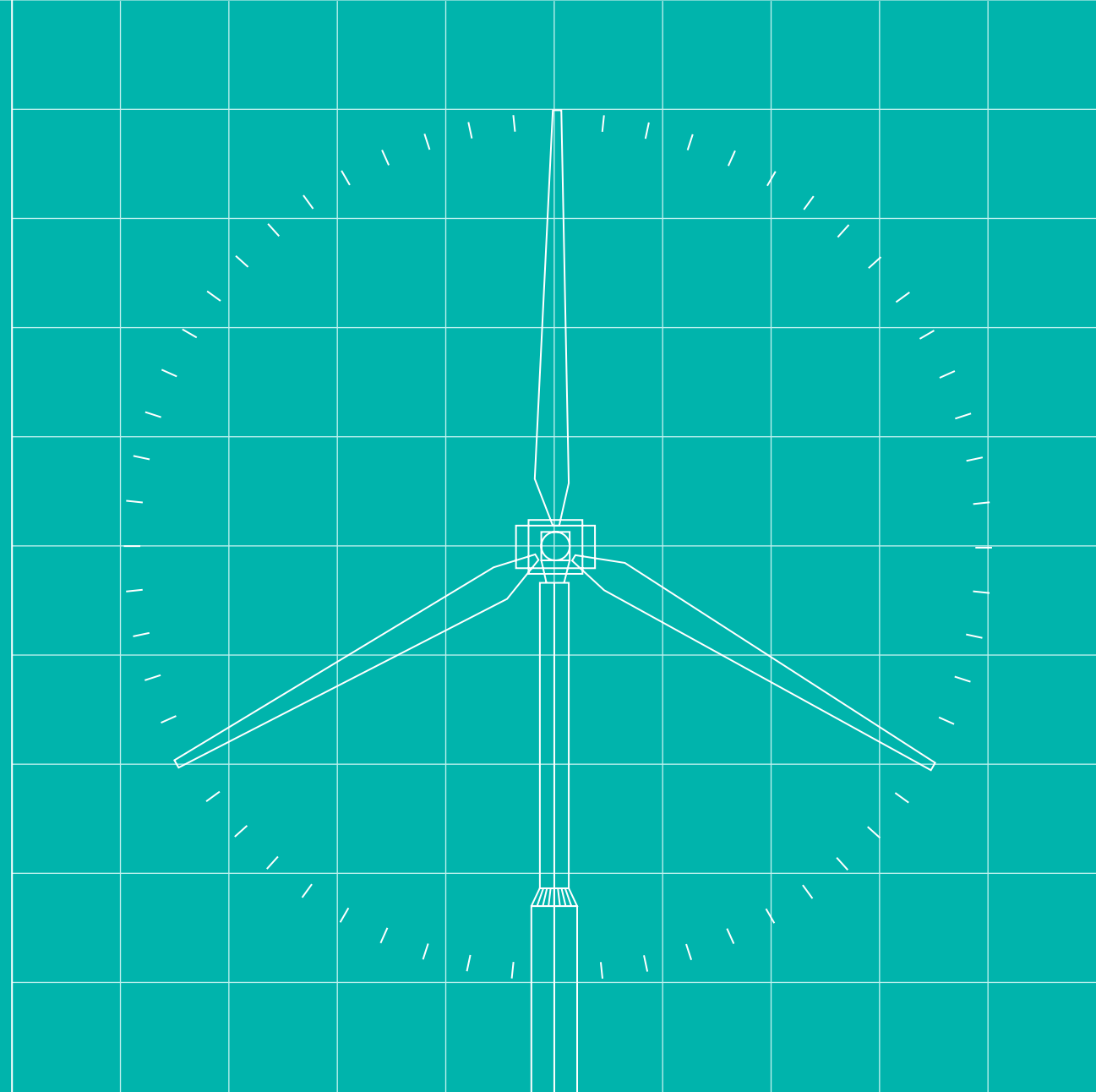
- a) Agree accountability and responsibilities for qualification with BSC and RECCo
- b) Agree Roles & Responsibilities
- c) Set up follow on regular calls including all parties
- d) Responsible parties start to develop content of qualification

Working group report

INFORMATION: Provide updates from discussion at the DWG, MWG, QWG and EWG

Programme (working group leads as required)

10 mins



TMAG Working Group Progress Report – November 2022

	Data Working Group (DWG)	Migration Working Group (MWG)	Environments and Configuration Management Working Group (EWG)	Qualification and E2E Sandbox Working Group (QWG)
Upcoming deliverables	<ul style="list-style-type: none"> Overall Test Data Approach and Plan (planned 31 Jan 2023, to come to January TMAG) 	<ul style="list-style-type: none"> Migration Option Analysis Update and Recommended Approach post PPIR (to come to December TMAG) 	<ul style="list-style-type: none"> Environments Approach and Plan (planned 31 Oct 2022, to come to November TMAG for decision) 	<ul style="list-style-type: none"> Qualification Test Approach and Plan (planned 28 Feb 2023, to come to February TMAG)
Next month's agenda items	<p>01 December 2022</p> <p>Verbal update to be provided in TMAG</p>	<p>08 December 2022</p> <ol style="list-style-type: none"> Update on migration approach following recommendation to the PSG on 07 December 2022 	<p>06 December 2022</p> <ol style="list-style-type: none"> Update on Environments and Approach Plan Environments template 	<p>13 December 2022</p> <ol style="list-style-type: none"> Update on qualification roles and responsibilities Update on pre-qualification guidance
Summary of discussion from last month	<p>03 November 2022</p> <ul style="list-style-type: none"> The approach to data quality and cleansing including cleansing ownership and items that may cause exceptions The approach to data modelling and data identification for SIT 	<p>10 November 2022</p> <p>The group will discuss:</p> <ul style="list-style-type: none"> Progress against the migration plan An update on the Migration Options analysis An action from the PSG to consider commercial impacts as part of the assessment of migration options The Programme Participant Information Request (PPIR) 	<p>01 November 2022</p> <ul style="list-style-type: none"> Review of feedback on the Environments Approach and Plan Conditional recommendation of the Environments Approach and Plan to TMAG for approval 	<p>08 November 2022</p> <ul style="list-style-type: none"> This meeting was cancelled as thinking on scope and roles and responsibilities with Code Delivery Bodies needed to progress first
TMAG escalations	None	None	Environments Approach and Plan	None

Summary and next steps

INFORMATION: Summarise actions and look ahead to December TMAG

Chair and Secretariat

5 mins

Next Steps

Next steps:

1. Confirm actions and decisions from meeting
2. Date of next TMAG: 21 December 2022

TMAG Agenda Roadmap – a rolling view of upcoming TMAG agenda items:

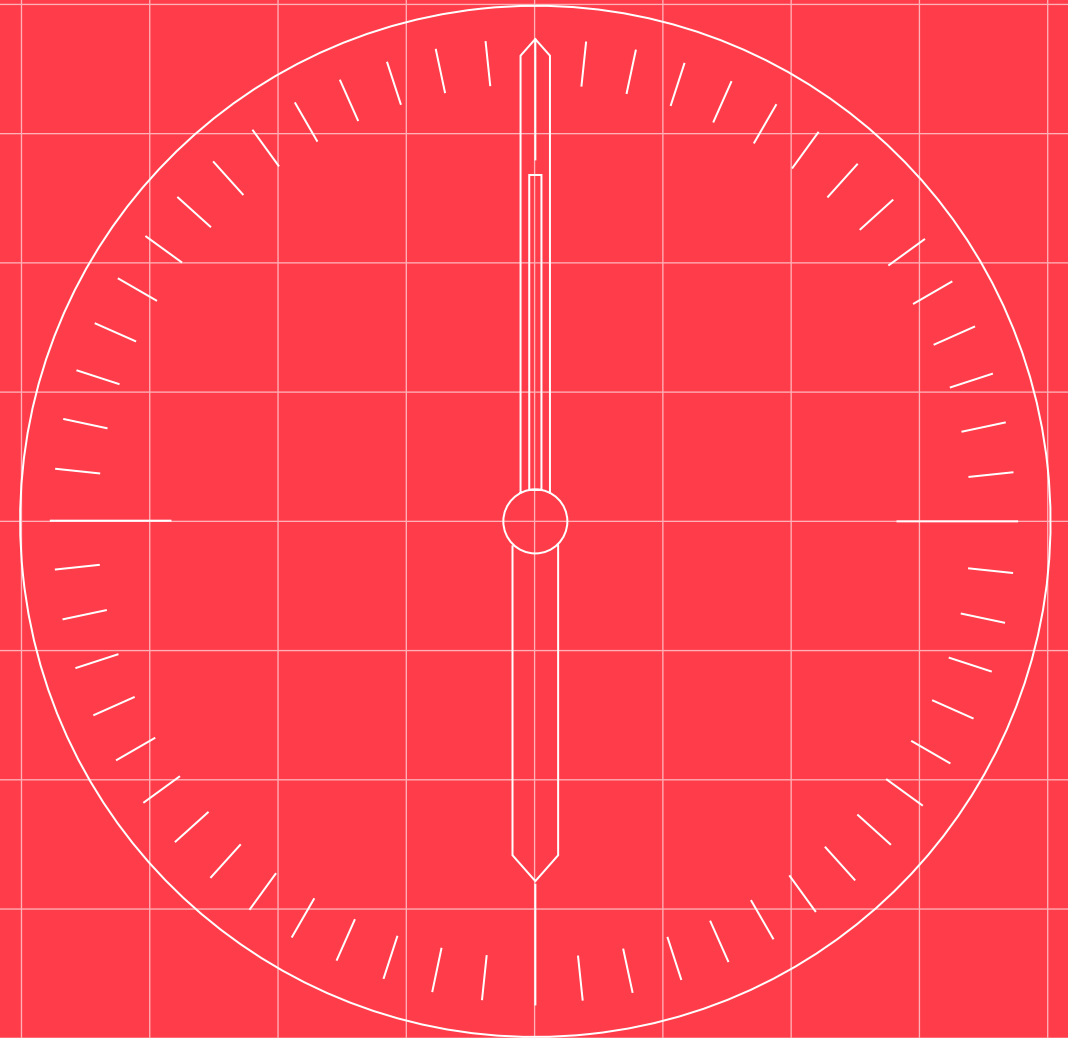
Meeting dates	16-Nov	21-Dec	Jan 2023	Feb 2023	Mar 2023
Relevant milestones or activities	M5, M3, Migration PPIR	Round 3 replan consultation, Control Point 1			
Agenda items	<ul style="list-style-type: none"> • Migration options next steps • Environments Approach and Plan • SIT Working Group • Qualification/pre-qualification • Export MPANs 	<ul style="list-style-type: none"> • Programme re-plan • Migration, Cutover & Data Strategy update • Qualification update 	<ul style="list-style-type: none"> • Test Data Approach and Plan approval 	<ul style="list-style-type: none"> • Data Assessment Report approval • Migration, Cutover & Data Strategy approval • Environments Approach and Plan review 	<ul style="list-style-type: none"> • Qualification Test Approach and Plan approval • Review of E2E Testing & Integration Strategy (schedule after the replan and other documents have been baselined)
Standing items	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap 	<ul style="list-style-type: none"> • Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap

If you would like to propose an agenda item for TMAG, please contact the PMO (PMO@mhhsprogramme.co.uk)

Appendix

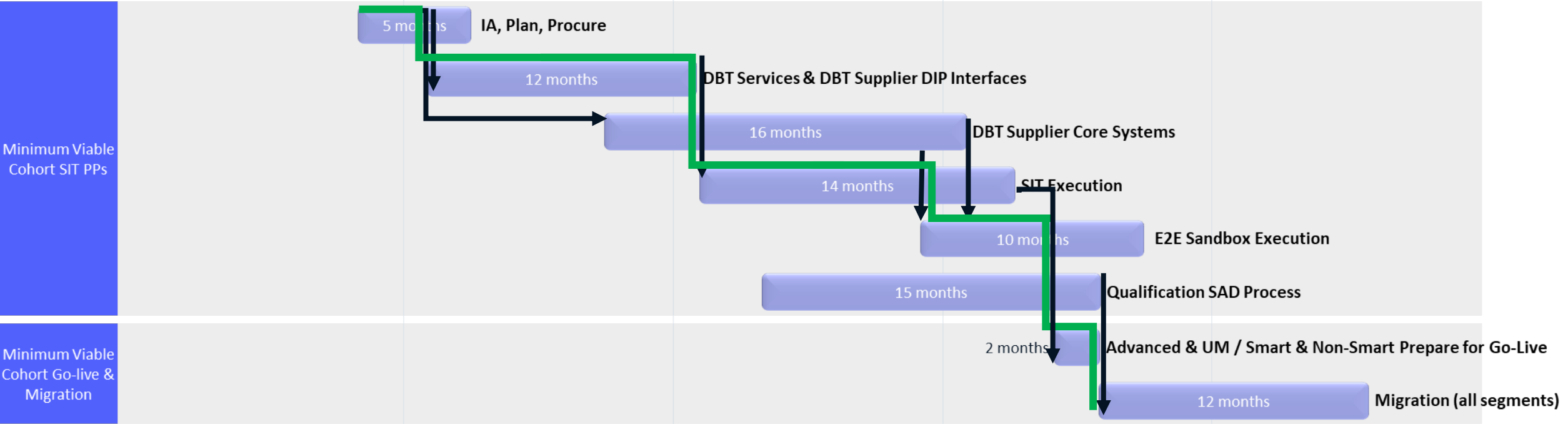
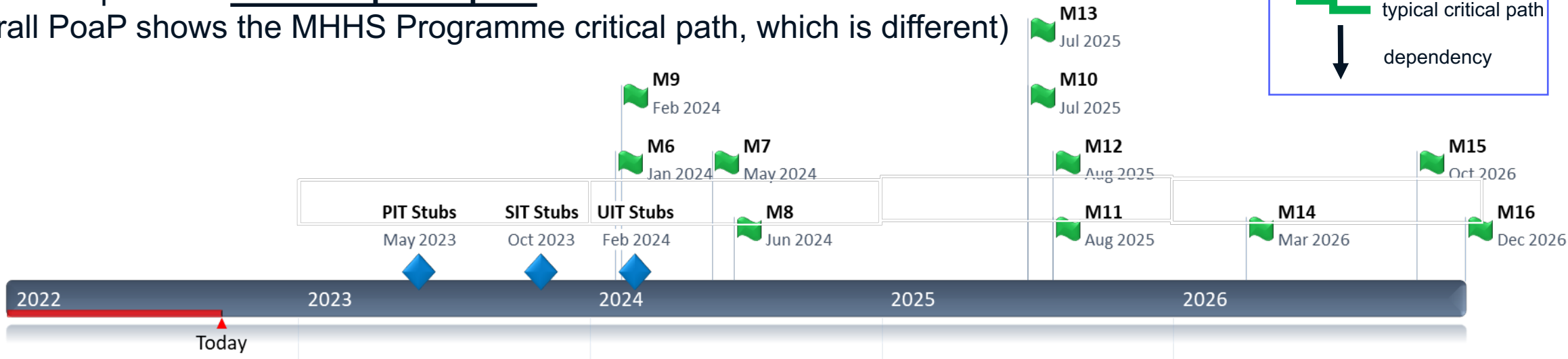
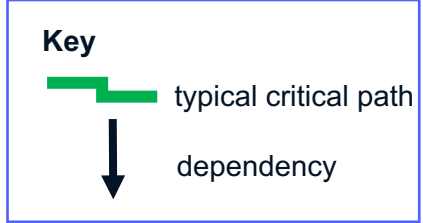
Round 2 Planning Supplementary Information

Illustrative PP Critical Paths



- **Typical Critical Path for:**
 - SIT MVC Participant
 - Other SIT Participant (Non-MVC)
 - Non-SIT Participant (early entrant into Qualification Testing)
 - Non-SIT Participant (latest entrant into Qualification Testing)

“Typical critical path” for **SIT MVC participant**
 (the overall PoaP shows the MHHS Programme critical path, which is different)



SIT MVC participant

The “typical critical path” shown here represents the most likely critical path but there are others and your organisation can determine which best fits for you.

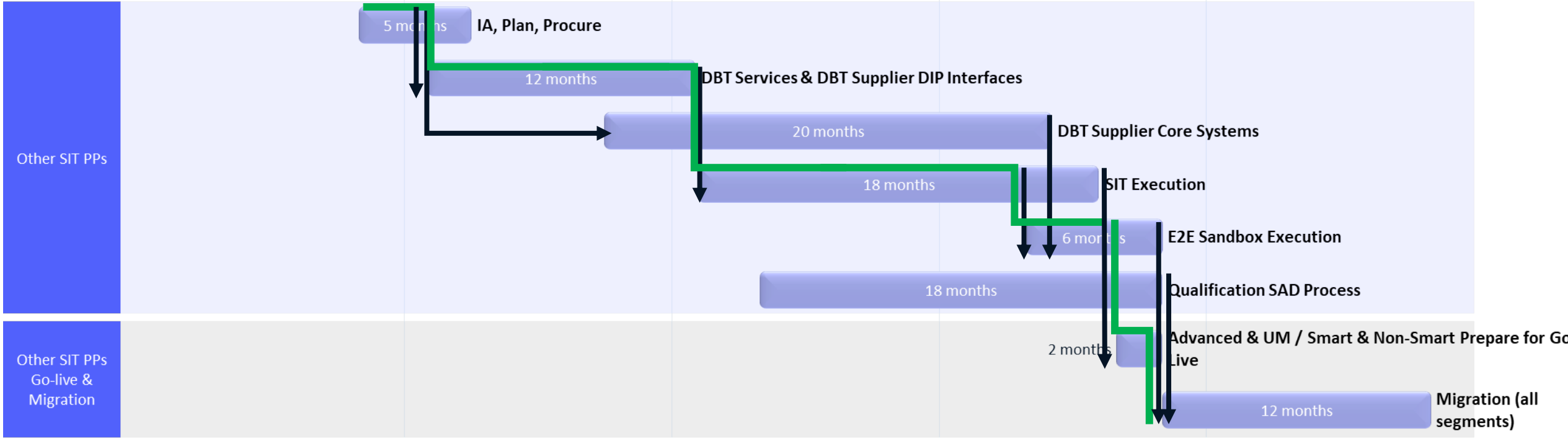
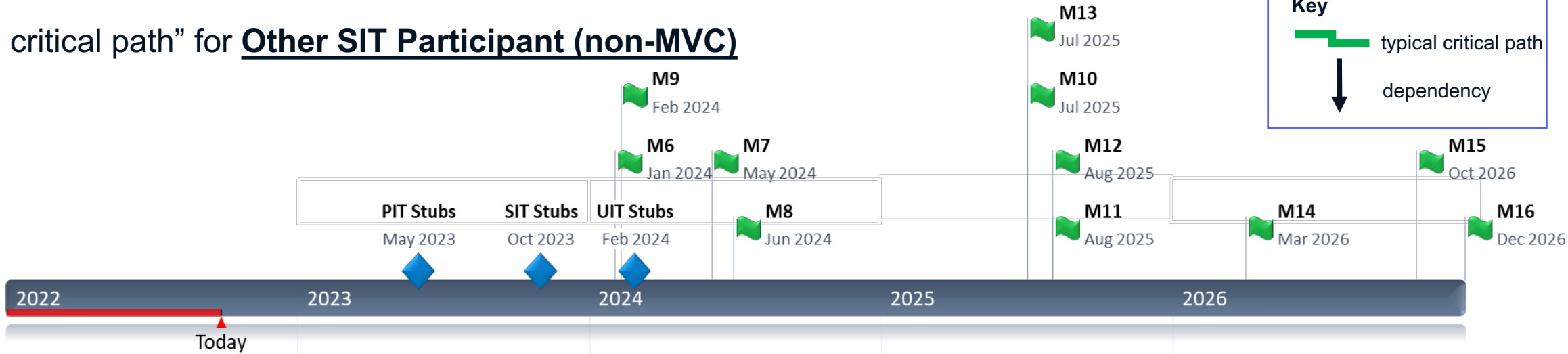
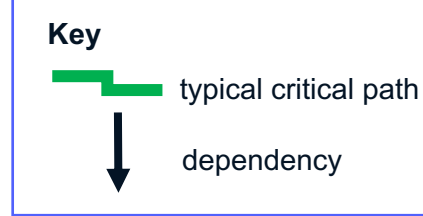
This critical path starts with the impact assessment, planning and procurement which are essential to kick off the programme. We acknowledge that these will take several months to complete but have assumed that enough planning will be in place to be able to start Design, Build and Test (DBT) after 3 months. We have shown DBT in two parts:

1. “Services and Supplier DIP Interfaces” is the first part and this consists of all the elements delivered by PPs which are necessary for SIT. The Services are Registration Services, Network Operations Services, UMSO Services, Data Services and Metering Services. The Supplier DIP Interfaces are also necessary for SIT.
2. “Supplier Core Systems” (billing, forecasting, customer correspondence etc) are not required for SIT and can developed according to a separate, parallel timeline.

The critical path then moves to SIT execution and once SIT Functional is complete, the PP may commence its own testing on the E2E Sandbox environment. Once this is complete, then preparation for go-live can begin and ultimately the systems go live and the migration period commences. The participant here has the possibility of a migration period of up to 15 months, although 12 months is shown on the diagram.

Alternatively, it may be that development of the Supplier Core Systems is on the critical path, since these need to be completed in time to do adequate E2E Sandbox testing. It is also possible that the Qualification SAD Process may lie on the critical path as this can take a number of months and must be completed before go-live.

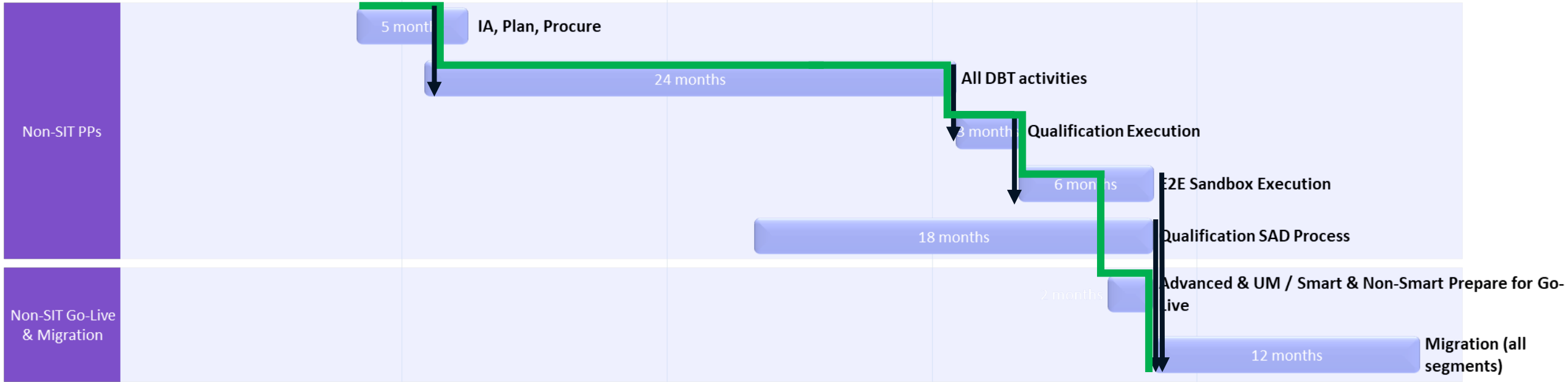
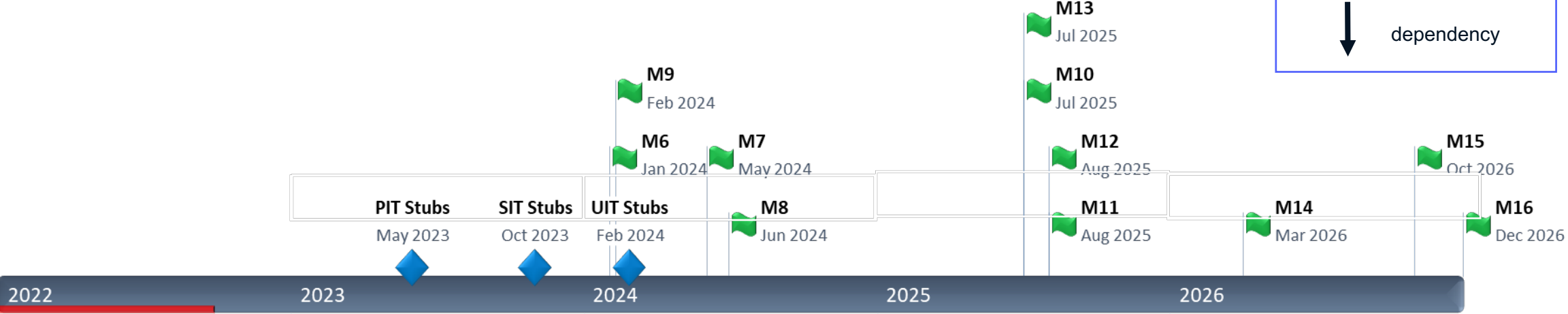
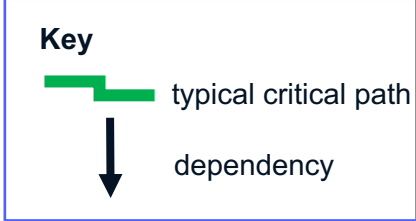
"Typical critical path" for Other SIT Participant (non-MVC)



Other SIT participant (non-MVC)

The typical critical path here is very similar to that for the SIT MVC participant so the commentary for the SIT MVC Participant applies. However, the timescale is slightly elongated, with SIT Functional running 5 months longer, E2E Sandbox testing starting 5 months later and go-live happening 3 months later (November 2025 as opposed to August 2025). The participant has a migration period of 12 months.

“Typical critical path” for Non-SIT Participant (early entrant into Qualification Testing)



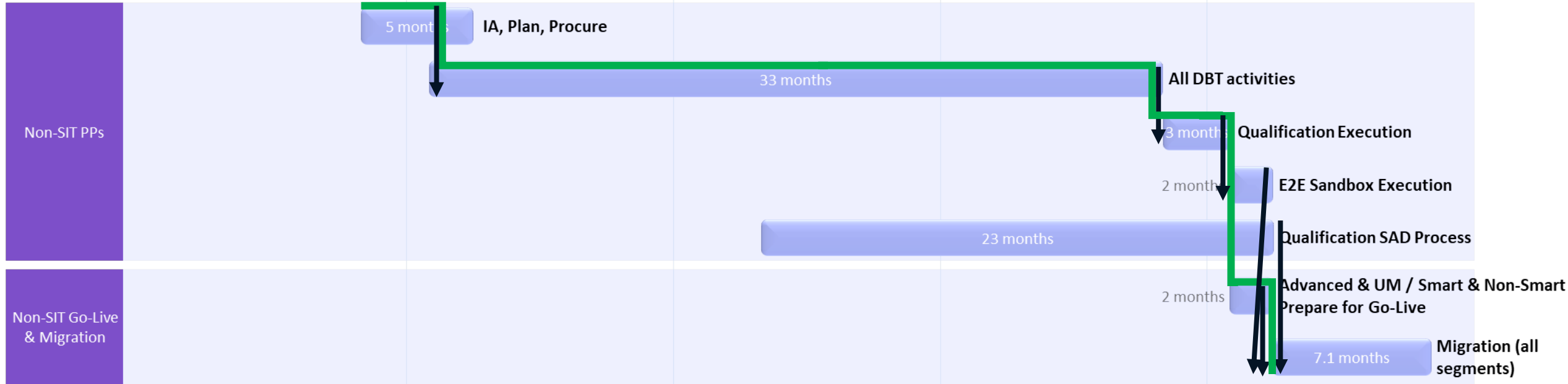
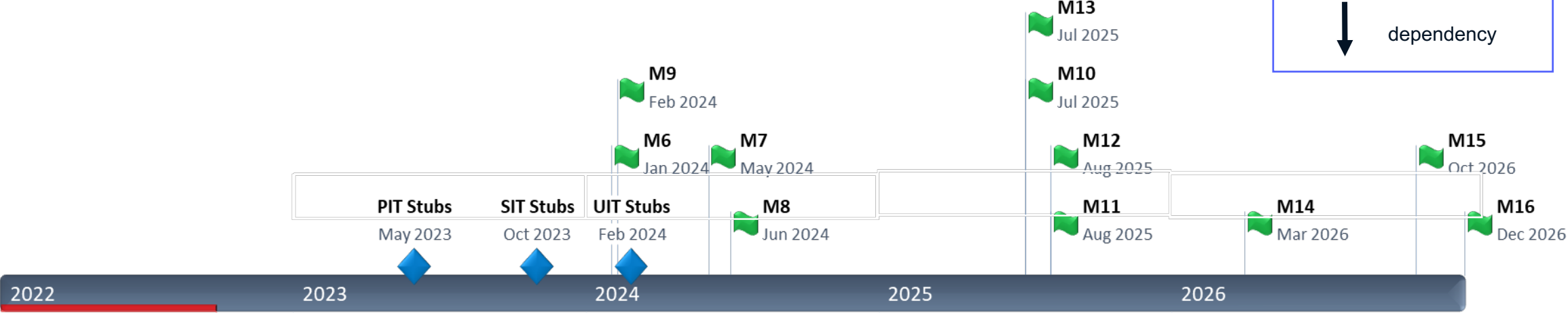
Non-SIT participant (early Qualification entrant)

The critical path starts with the impact assessment, planning and procurement in exactly the same way as for the SIT participants. Once enough planning has been done, then the DBT starts and here we have not distinguished between the two streams of DBT as we have for SIT participants. The crucial activity is the overall DBT (shown here as 24 months, this representing the earliest possible date for entry into Qualification Testing). DBT must complete in order to conduct Qualification Testing and Qualification Testing must be completed before starting to use the E2E Sandbox. 3 months of Qualification Testing and 4 months of E2E Sandbox testing is assumed before starting the preparation for go-live and go-live here is 3 months later than that for the SIT MVC participant (and the same time as the SIT non-MVC participant). The participant has a migration period of 12 months.

“Typical critical path” for Non-SIT Participant (latest entrant into Qualification Testing)

Key

- typical critical path
- dependency



Non-SIT participant (latest Qualification entrant)

The critical path is the same as for the early Qualification entrant but the timescale is slightly different. DBT at 33 months is longer but go-live is 5 months later and consequently only 7 months are available for migration.