MHHS PROGRAMME
Industry-led, Elexon facilitated

Programme Steering Group #18
01 March 2023

Version 1.1

MHHS-DEL985

Agenda

| #	Item	Objective	Type	Lead	Time	Page
1	Welcome			Chair	10:00-10:05 *5 mins*	
2	Minutes and actions review	Approve minutes. Update on actions, closing where appropriate	Decision	Chair and Secretariat	10:05-10:10 *5 mins*	3
3	Sponsor update	Hear key messages from the Programme Sponsor	Information	Ofgem Sponsor (Jenny Boothe)	10:10-10:15 *5 mins*	6
4	Re-Plan status	Share the status and next steps for the replan	Decision	Keith Clark	10:15-10:30 *15 mins*	8
5	Round 3 replan consultation outputs and SIT outlook	• Review outputs of Round 3 replan consultation including the status of the MVC and Core Capability Providers • Discuss establishing a delivery forum for SIT volunteer project managers	Discussion/ Decision	Keith Clark	10:30-10:50 *20 mins*	12
6	M3 approval	Make a decision whether to unconditionally approve Milestone 3	Decision	Keith Clark	10:50-11:00 *10 mins*	18
7	LDSO delivery plans	Present LDSO delivery plans	Information	iDNO and DNO Representatives (Jenny Rawlinson, Chris Price)	11:00-11:15 *15 mins*	20
		BREAK (10 mins)				
8	Design update	Update on the status of the M5 Work-Off Plan and the Migration Design	Information	Warren Fulton/Adrian Page	11:25-11:30 *5 mins*	23
9	Change Control	CR015: Review the outputs of Impact Assessment and make a decision on next steps	Decision	Chris Welby	11:30-11:40 *10 mins*	25
10	TMAG governance	Update on next steps for Testing and Migration governance following discussion at TMAG	Information	Chris Welby	11:40-11:45 *5 mins*	32
11	Delivery dashboards	Take questions from PSG members on delivery dashboard content	Information	Chair	11:45-11:55 *10 mins*	34
12	Summary and next steps	Summarise actions and decisions. Look ahead to next meeting	Information	Chair and Secretariat	11:55-12:00 *5 mins*	54

Minutes and actions review

DECISION: Approve minutes. Update on actions, closing where appropriate

Chair and Secretariat

5 mins
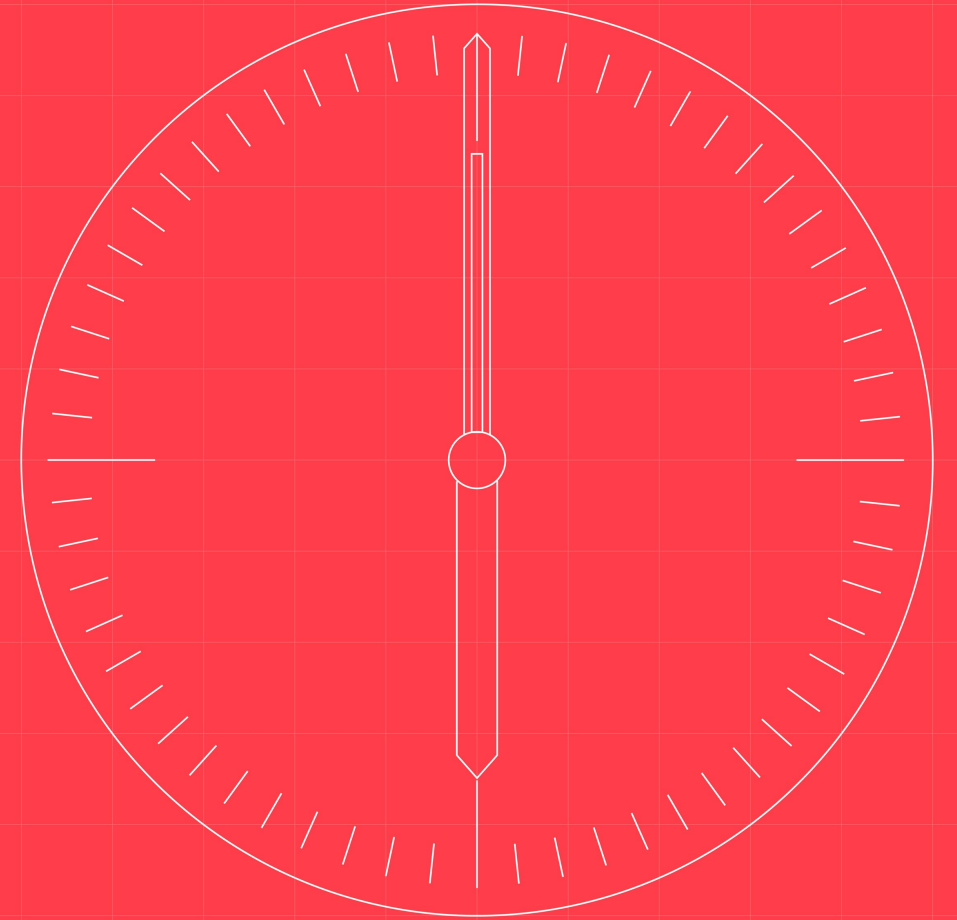
Minutes and actions review (1 of 2)

1. **Approval of minutes from last PSG**
2. **Open actions and actions from last PSG**

Ref	Created	Action	Owner	Due	Status	Latest Update
PSG14-10	02/11/22	Support the Programme to identify Large, Small and I&C Supplier representatives for TMAG	Relevant Supplier Representatives	07/12/22	Recommend closed	Large Supplier Representative seat resolved.
PSG15-01	07/12/22	Progress work on customer segments in migration at the Migration Design Subgroup (MDSG)	Programme (Jason Brogden)	01/03/23	Open - Ongoing	Discussed at MWG in February 2023. Suggest keep open until there is a conclusion.
PSG16-05	11/01/23	Speak to RECCo, Elexon and ESO to compare OSMs to the MHHS Programme's contact list	Programme PPC	01/02/23	Recommend closed	PPC have spoken with RECCo, Elexon and ESO and will continue to work together to engage participants when needed
PSG17-01	01/02/23	Hold discussion offline to provide clarity on the scope of the MHHS baseline and the requirements for making decisions on baselined artefacts and on issues that are deemed to fall outside of the baseline	Programme (Keith Clark, Jason Brogden), DNO Rep (Chris Price)	01/03/23	Recommend closed	Session held 21/02. Comms planned in the Clock on 22/02
PSG17-02	01/02/23	Share DIP contact details/point of contact	MHHS PMO	08/02/23	Recommend closed	Queries relating to the DIP should be shared with PPC@mhhsprogramme.co.uk
PSG17-03	01/02/23	Discuss at DAG if the DIP design could result in changes to the MHHS core design, and if so, the likely timelines for changes to the core design to be delivered	Programme	01/03/23	Open - Ongoing	A risk has been raised to the Programme RAID log. The risk is currently low scoring. The risk will be discussed and validated at March DAG.
PSG17-04	01/02/23	Share how the Programme may communicate updates to the plan as a result of Round 3 consultation, to participants, ahead of any re-plan Change Request	Programme (Keith Clark)	01/03/23	Recommend closed	Plan playbacks will be scheduled at the start of the replan Change Request Impact Assessment process (see replan POAP under agenda item 4)

Minutes and actions review (2 of 2)

Ref	Created	Action	Owner	Due	Status	Latest Update
PSG17-05	01/02/23	Review the post-implementation approach to Benefits Realisation and how Benefits Realisation will be handed over to Ofgem at M16	Programme (Jason Brogden)	To be reviewed at Control Point 2	Open	To remain open and be aligned to Control Point 2
PSG17-06	01/02/23	Get DAG view on CR015 as input to any decision PSG may make	Programme	01/03/23	Open	To be discussed under agenda item 9
PSG17-07	01/02/23	Discuss possible improvements to Programme approach to distribution lists	Programme PMO, RECCO Representative (Jon Hawkins)	01/03/23	Recommend closed	Feedback has been received from Jon H. The PMO and comms team have discussed and will look to incorporate the feedback in work ongoing, including in a planned Testing workstream newsletter
PSG17-08	01/02/23	Discuss Small Supplier engagement with the Small Supplier Representative and Ofgem (e.g. engagement requirements, materiality/impact of low engagement, and ways to improve engagement)	Programme	01/03/23	Open	The Programme have taken an action with Ofgem to progress a meeting on this

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Sponsor update

INFORMATION: Hear key messages from the Programme Sponsor

Ofgem Sponsor

5 mins

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Sponsor's message

➢ Welcome the baselining of the Design. Note 3 CRs have been raised. These should be decided on as soon as practicable to ensure all parties have certainty of the physical design.

➢ It is evident that there is confusion about the scope and process to manage change in the Programme. A Programme-led teach-in session on change management would be welcomed.

➢ Welcome the good feedback on the R3 Re-plan consultation and would encourage industry to use every opportunity to engage with the Programme during the change proposal development.

➢ Note that industry are keen to have timely responses queries so we will encourage both the industry and Programme to work collaboratively to expedite the solutions on these matters.

➢ Focus remains clearly on realising benefits from the earliest practicable date. DES&NZ and other Programme in Ofgem are keen to support the timely delivery of this Programme

7

Re-Plan status

DECISION: Share the status and next steps for the replan

Keith Clark

15 mins

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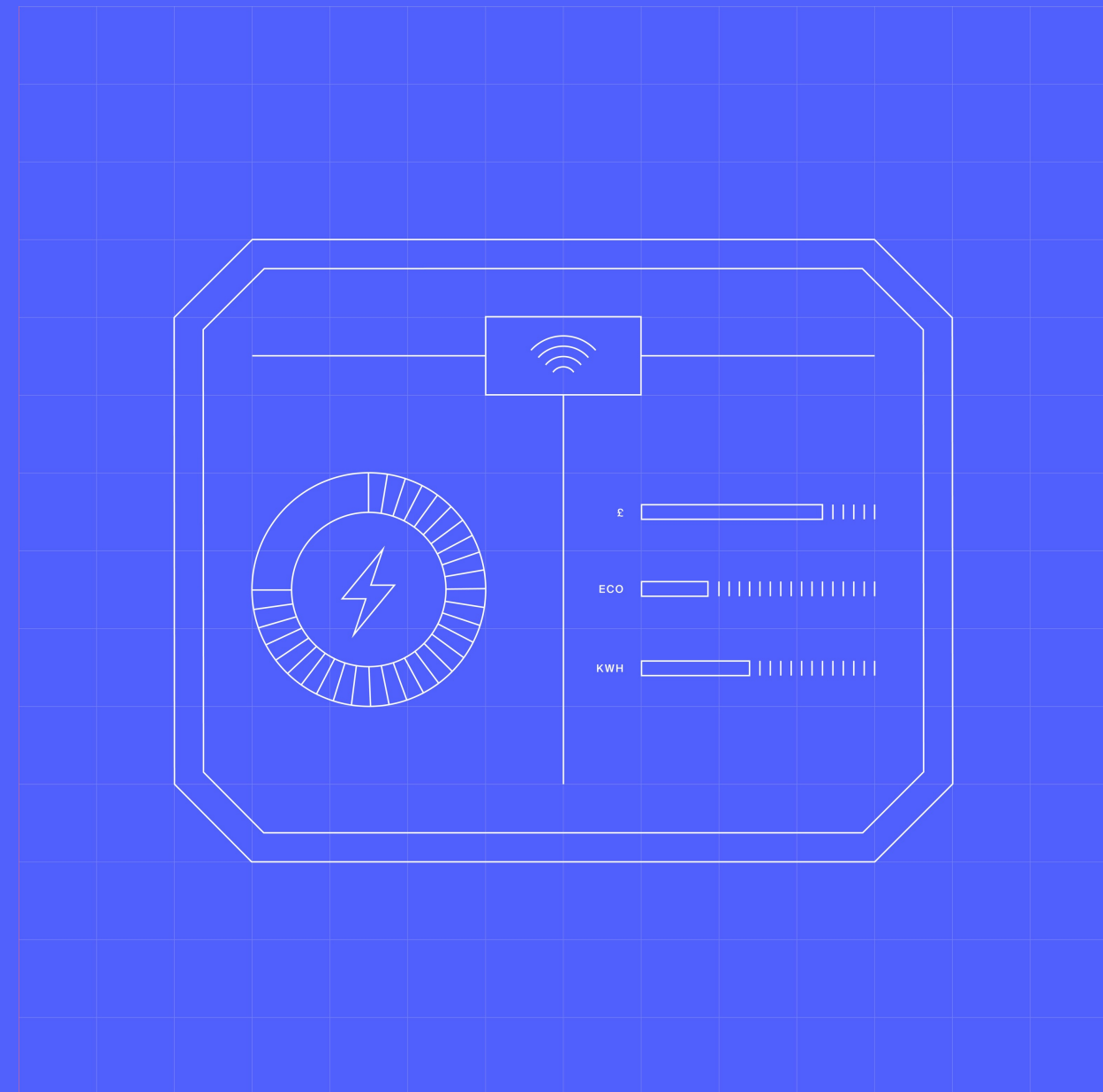
SIT Status – Core Capability Providers and Round 3 responses from Participants

Core Capability Providers	Status	Comment
Elexon (Helix)	Amber	Rework being conducted. Quarterly (PI6) planning at end of Feb-23 will validate Helix plan for M9 readiness
DIP	Green	Detailed delivery plan being baselined. On target for CIT start date Industry Webinar planned for 28-Feb-23
LDSOs / (St Clements)	Red	MPRS DBT plan is under review to optimise delivery, still CIT readiness risk and new DBT plan not available but expected w/c 20-Feb-23 Some adapters will be present in CIT – these are being procured by LDSOs
RECCo	Amber	DBT plans for EES on track, some risks for CSS but also currently expected to be ready for CIT
DCC	Green	MP162 changes and capacity upgrades on track
ElectraLink	Green	No core design changes to the DTN. Minor changes for migration and consequential change Working with LDP on connection options for SIT
LDP (SI)	Amber	Good engagement and progress at SITWG. LDP drafting test scenarios Further work required on test data

Round 3 responses from Participants *Does not include Central Parties*		SIT volunteers*	SIT interest expressed	Minimum required for MVC	DBT plans show support for Round 3 timeline	Have started to use DIP simulator?	Design assured by the SI?	Testing assured by the SI?
Suppliers	Large	1	2	2	2		*Planned later*	*Planned later*
	Medium	1	1		2	1	*Planned later*	*Planned later*
	I&C	2	3		2		*Planned later*	*Planned later*
	Small	1	1		2		*Planned later*	*Planned later*
LDSOs (providing Network Operations Services and UMSO Services)	DNOs	1	5	1	2	1	*Planned later*	*Planned later*
	iDNOs	0	7		2		*Planned later*	*Planned later*
Supplier Agents (providing DC, DA, MOP services for migration testing)	HH / NHH	1	1	1	2	0	*Planned later*	*Planned later*
Service Providers (providing Metering Services Smart & Advanced, Smart & Advanced Data Services, UMS Data Services)		6	3	2 *for each role*	6	4	*Planned later*	*Planned later*
Software Providers		7	4		8			
Other		1	0		0	0	*Planned later*	*Planned later*
Central Parties		3	0		0		*Helix started*	*Planned later*

* Per the Round 3 questionnaire definitions, 'SIT volunteers' includes core capability providers
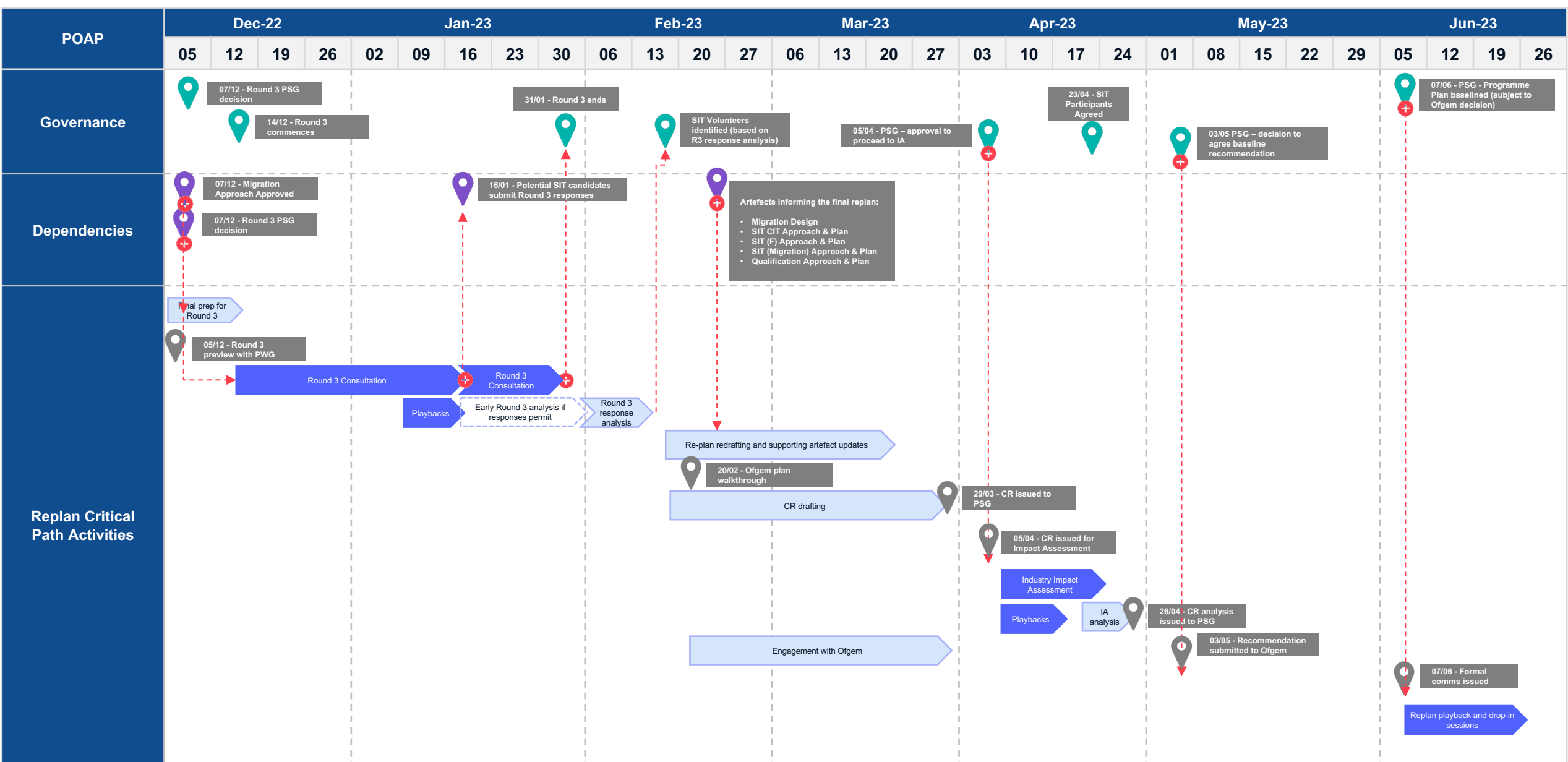
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Re-Plan: Timeline Update

- A one-month extension will be given, to the Programme's Re-plan release date

- This means that a Re-plan Change Request will now be issued to industry for Impact Assessment following the PSG on Wednesday 5 April 2023 (subject to PSG agreement at that time)

- The proposed date for Milestone 9 (M9) will remain unaltered from the Round 3 consultation, as activities prior to Systems Integration Testing (SIT) starting at M9 should not be impacted by the delay in issuing the Re-plan

- We have received very encouraging Round 3 responses which confirm many industry participants will be ready for SIT and wish to participate in line with the timescales laid out in the Round 3 plan. We would therefore request that these participants continue to work with the Programme team on their SIT readiness in line with the Round 3 timeline proposal

- However, it was noted in Round 3 responses that all Core Capability Providers must also be ready to enter SIT, and this has not yet been confirmed in all cases. We are therefore informing PSG of an extension to ensure further time for optimal alignment of Core Capability Providers' plans with the timescales laid out in Round 3. This will give confidence to all parties that any proposed Replan is realistic and achievable and unlikely to undergo material changes in the short-term

- There are some additional benefits from this proposed extension i.e., Migration Design would reach approval as planned, and some in-flight design-related Change Requests could also be resolved

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Programme Re-plan POAP (effect of 1-month timeline extension)

The cadence of Level 2 and 3 governance meetings will continue according to the usual schedule throughout this period, plus extraordinary meetings where required.

KEY: | Key dates | PP Engagement with MHHSP | Dependency between tasks

POAP	Dec-22				Jan-23				Feb-23				Mar-23				Apr-23				May-23				Jun-23		
	05	12	19	26	02	09	16	23	30	06	13	20	27	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	26

Governance

- 07/12 - Round 3 PSG decision
- 14/12 - Round 3 commences
- 31/01 - Round 3 ends
- SIT Volunteers identified (based on R3 response analysis)
- 05/04 - PSG – approval to proceed to IA
- 23/04 - SIT Participants Agreed
- 03/05 PSG – decision to agree baseline recommendation
- 07/06 - PSG - Programme Plan baselined (subject to Ofgem decision)

Dependencies

- 07/12 - Migration Approach Approved
- 07/12 - Round 3 PSG decision
- 16/01 - Potential SIT candidates submit Round 3 responses
- Artefacts informing the final replan:
  - Migration Design
  - SIT CIT Approach & Plan
  - SIT (F) Approach & Plan
  - SIT (Migration) Approach & Plan
  - Qualification Approach & Plan

Replan Critical Path Activities

- Final prep for Round 3
- 05/12 - Round 3 preview with PWG
- Round 3 Consultation
- Round 3 Consultation
- Playbacks
- Early Round 3 analysis if responses permit
- Round 3 response analysis
- Re-plan redrafting and supporting artefact updates
- 20/02 - Ofgem plan walkthrough
- CR drafting
- 29/03 - CR issued to PSG
- 05/04 - CR issued for Impact Assessment
- Industry Impact Assessment
- Playbacks
- IA analysis
- 26/04 - CR analysis issued to PSG
- Engagement with Ofgem
- 03/05 - Recommendation submitted to Ofgem
- 07/06 - Formal comms issued
- Replan playback and drop-in sessions

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Round 3 replan consultation outputs and SIT outlook

DISCUSSION/DECISION:
- Review outputs of Round 3 replan consultation including the status of the MVC and Core Capability Providers
- Discuss establishing a delivery forum for SIT volunteer project managers

Keith Clark

20 mins

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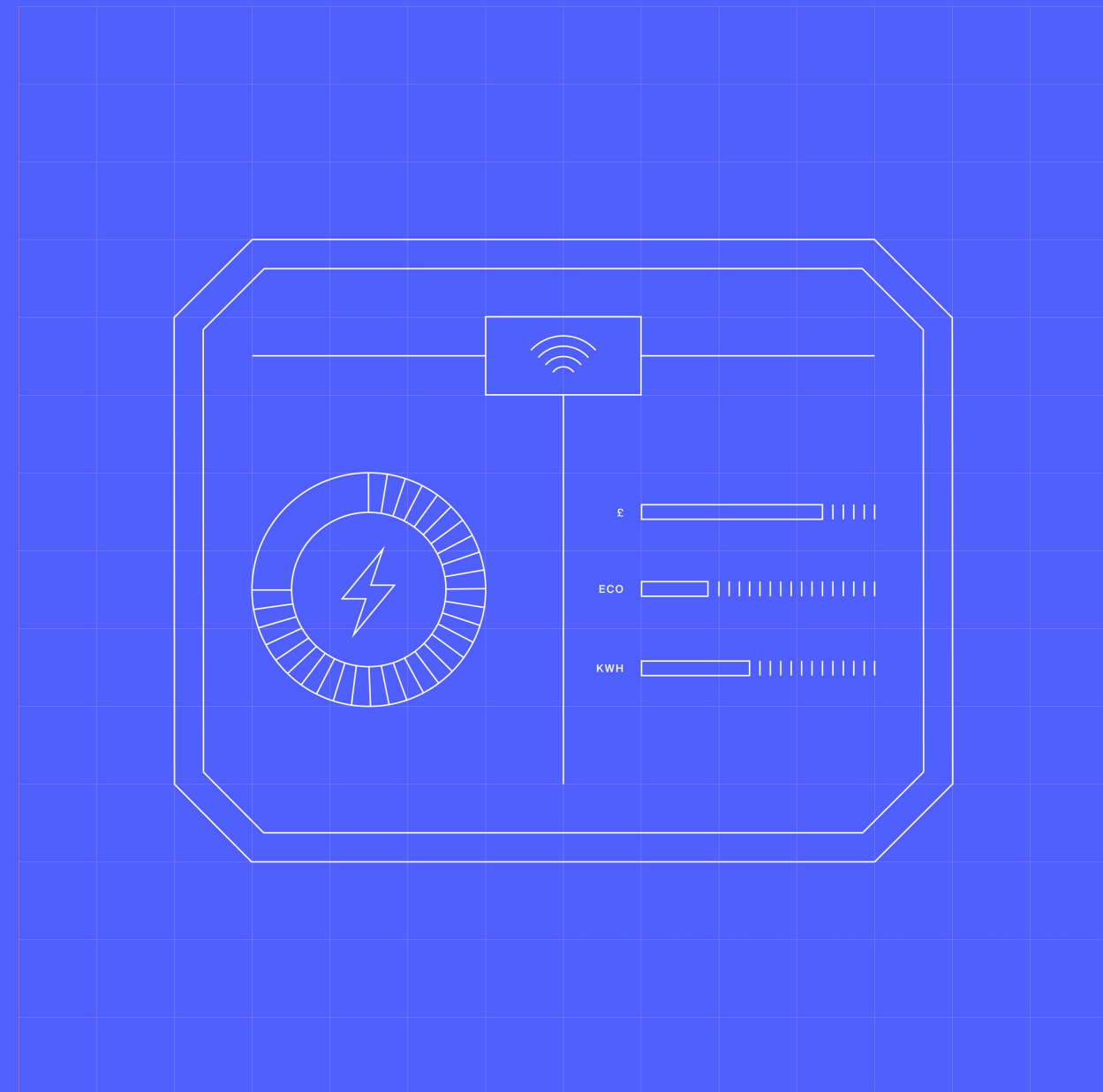
Round 3 Response Rate – High Level Summary By Constituent Group

The Round 3 response rate exceeded expectations based on previous rounds with responses from 51% of all participants, ensuring a comprehensive representation from across the industry, and over half the constituency groups returning a response rate of well over 60%

Constituency	Number of Responses	Total Participants	Response Rate (%)
Small Supplier	5	22	23%
Software Provider	13	37	35%
Independent Agent	9	21	43%
I&C Supplier	18	37	49%
Central Party	3	4	75%
iDNO	11	14	79%
In-House Supplier Agent	2	2	100%
Medium Supplier	5	5	100%
DNO	6	6	100%
Large Supplier	5	5	100%
Other MHHS Participant	1	1	100%
Total	**78**	**154**	**51%**

Replan Round 3 Response Rate (%)
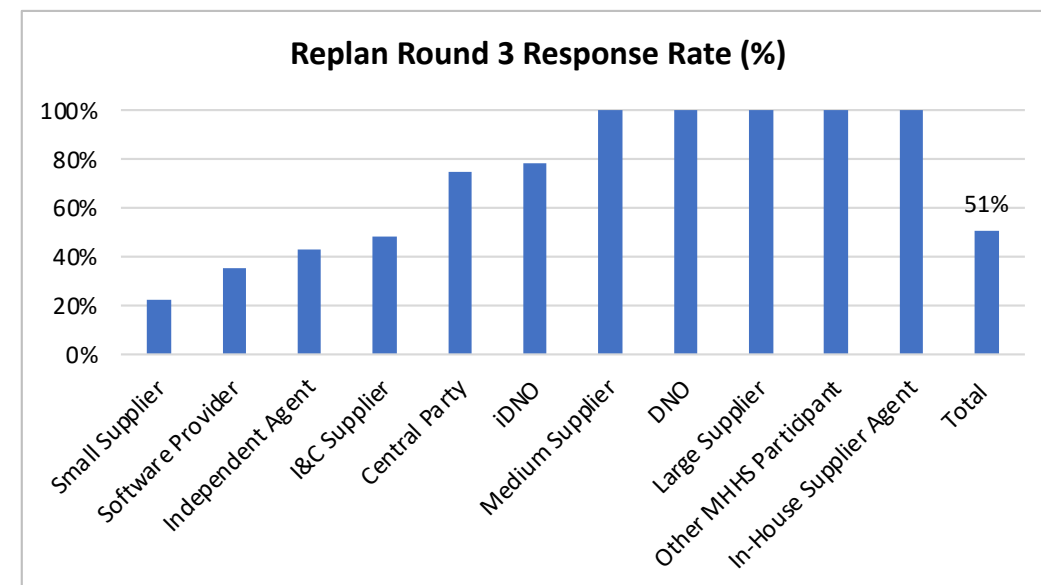
The programme team has walked through the detailed Round 3 responses with the Independent Programme Assurer (IPA), and what these responses may mean for a finally-proposed programme re-plan

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Minimum Viable Cohort (MVC)

The Round 3 consultation indicates a high level of confidence that a coherent MVC can be established within the 24 organisations volunteering for SIT. The majority of these organisations state a high level of confidence in their forecast PIT exit dates as a precursor to starting SIT Component Integration Testing (CIT) within the Round 3 timelines

Of the 24 organisations to volunteer for SIT:

96% have a **delivery plan** which covers internal testing up to PIT exit

75% expect to **exit PIT on or before 31st October 2023**. **96%** will exit PIT before the end of January 2024.

71% have a high level of confidence in their ability to meet their **internal testing dates** up to PIT exit. **96%** have a high or medium level of confidence.

DBT: PIT Exit Dates for SIT and Qualification Entry

Forecast PIT exit dates were specified in two-thirds of PP responses, with **100%** compatibility with either CIT or qualification entry timescales with key exception of MPRS Core Capability Provider which is under close review. A further **10** PPs state an active *interest in SIT* with PIT exit dates aligned to the SIT (CIT) window and potentially enhance the number of *SIT volunteers.*

When do SIT Volunteers and SIT Interested parties expect to exit PIT?

When do Parties most likely to take the Qualification path exit PIT? (excluding SIT Volunteers)
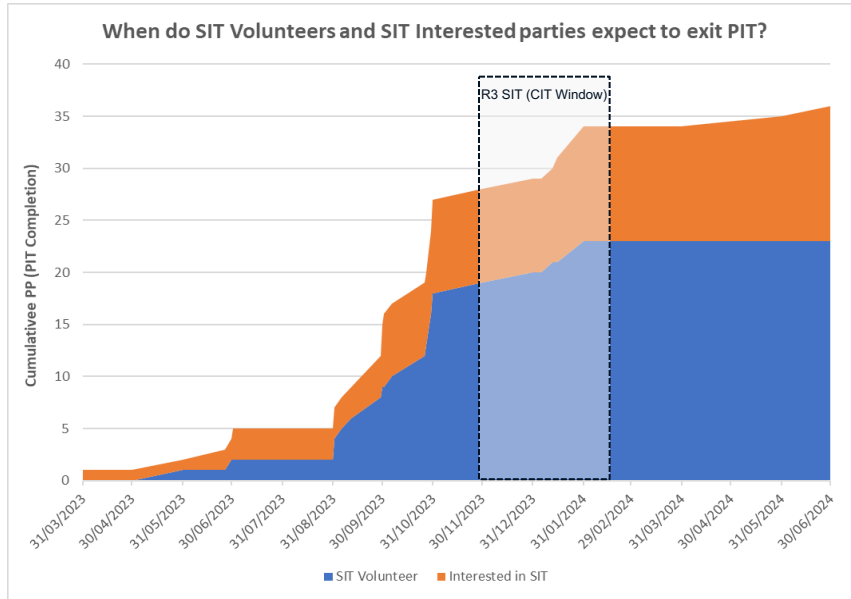
Insights and Analysis:

- Of SIT volunteers, **20** expect to exit PIT in 2023 and a further **3** expect to exit in early Q1 2024.
- A further **10** PPs are actively interested in SIT with 8 stating potential readiness prior to the CIT window.
- This underpins the viability of the SIT MVC and endorses the overall programme approach.
- SIT (CIT) remains dependent on MPRS provider entry dates which remain under discussion.
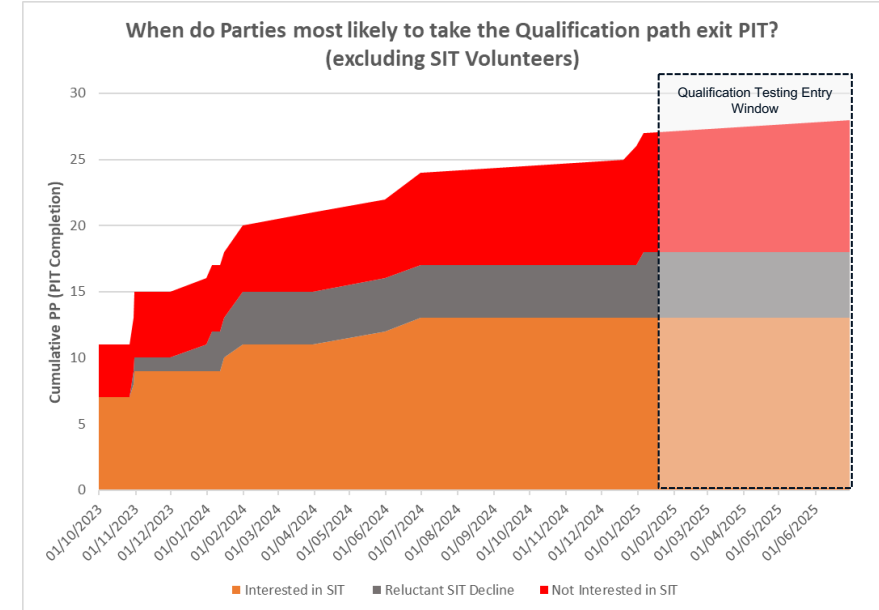
Insights and Analysis:

- **28** out of **51** responses specified PIT exit dates will meet the qualification testing entry windows.
- **26** PPs did not specify a PIT exit date, mainly due to maturity of plans.
- The number of SIT volunteers or those interested in SIT will evolve between the groups and will be monitored closely via SI Assurance as tranches are formed based on progress through DBT phases.

Group	PP's who have…
Volunteer	Elected to be in SIT or a Central Party and will potentially form part of MVC
Interested	Expressed an interest in SIT but unable to fully commit at R3 but may still volunteer
Reluctant Decline	Acknowledged delivery plans prevent inclusion in SIT but could be interested if MHHSP plan changes
Not Interested	Declined to take part in SIT and position not expected to alter

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Round 3 Non-Responders

The following **39** organisations did not respond to Replan Round 3 despite having licence obligations to do so. The programme is seeking ways to understand non-responses and support these parties going forward

I&C Suppliers (20)
- AXPO UK Limited
- BES Commercial Electricity Limited
- Bryt Energy Ltd
- Conrad Energy (Trading) Limited
- Crown Gas and Power
- Dyce Energy Ltd
- F & S Energy LTD
- Farringdon Energy Ltd TA Champion Energy
- Flexitricity Limited
- Hartree Partners Supply (UK) Limited
- MarblePower Limited
- Maxen Power Supply Limited
- MB Energy
- P3P Energy Supply Limited
- PX Group
- Regent Gas
- Tru Energy Limited
- United Gas & Power Ltd
- Vattenfall Energy Trading GmbH
- YU Energy

Small Suppliers (16)
- D-Energi Trading Limited
- Delta Gas And Power Ltd
- Dodo Energy Limited
- Eneco Energy Trade BV
- Energise Britain
- Foxglove Energy Supply Limited
- Green Energy (UK) Plc
- Idaho Energy TA Trailstone
- Logicor Energy Ltd
- Ohio Energy
- Paddington Energy
- Pozitive Energy Limited
- Rebel Energy
- Smart Pay Energy
- Toucan Energy Limited
- Upower

iDNOs (3)
- Harlaxton Energy Networks Limited
- Mua Electricity Limited
- Utility Assets Limited

Proposal for a delivery group for SIT volunteer project managers

Objectives of this group

- To engage with the participants who are demonstrating the most readiness and largest appetite to conduct Systems Integration Testing (SIT) and be ready for go-live as early adopters

- To ensure that the programme's activities and the participants' activities are aligned and serve to meet the planned delivery timelines, with managed risk, to reach the earliest go-live and realisation of consumer benefits

This group

- Invitation only - participant attendees will be all the programme or project managers from all Core Capability Providers, and also from Early Adopters who:
    - have formally volunteered for SIT, and
    - who have provided delivery plans which evidence their likely readiness for SIT as planned

- Non-governance group – will not make programme decisions that fall (or should fall) under programme governance, but may make recommendations to an appropriate governance group

Setting up this group – "Fast Track Implementation Group" (FTIG)

- We request PSG to agree the set-up of this group

- We recommend that PSG receives periodic updates on the operation and outputs of this group

- We expect that there may be opportunities to set up other such delivery-focused groups as the programme progresses, and in line with programme phased delivery

M3 approval

DECISION: Make a decision whether to unconditionally approve Milestone 3

Keith Clark

10 mins

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Milestone M3 Approval

Milestone 3 can be passed at the March 2023 PSG because both of the conditions for its approval have been met via the Re-Plan Round 3 consultation

80% of responders in Round 3 submitted a plan and **58%** self-assessed that they have their delivery teams in place to deliver MHHS.

What is Milestone 3?

- M3 is a milestone which marks the start of participants' Design & Build
- M3 was conditionally approved at the Nov 22 PSG, with a view to approving it unconditionally at the March 23 PSG if certain criteria were met in Re-Plan Round 3 (see below).

Criteria for Passing M3

Delivery Timelines

>50% of Round 3 responders must have provided a delivery timeline which covers participants' own Design, Build and Test activities.

Resources

>50% of Round 3 responders must have provided a self-declaration of 'Yes' to the question which asks whether each organisation has the resources (in their own organisation or via a third-party provider) to deliver their DBT timeline.

Replan Round 3 Results

Delivery Timelines

80% of Round 3 responders provided a delivery timeline

Resources

58% of Round 3 responders provided a self-declaration of 'Yes' to this question

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LDSO delivery plans

INFORMATION: Present LDSO delivery plans

Jenny Rawlinson, Chris Price

15 mins

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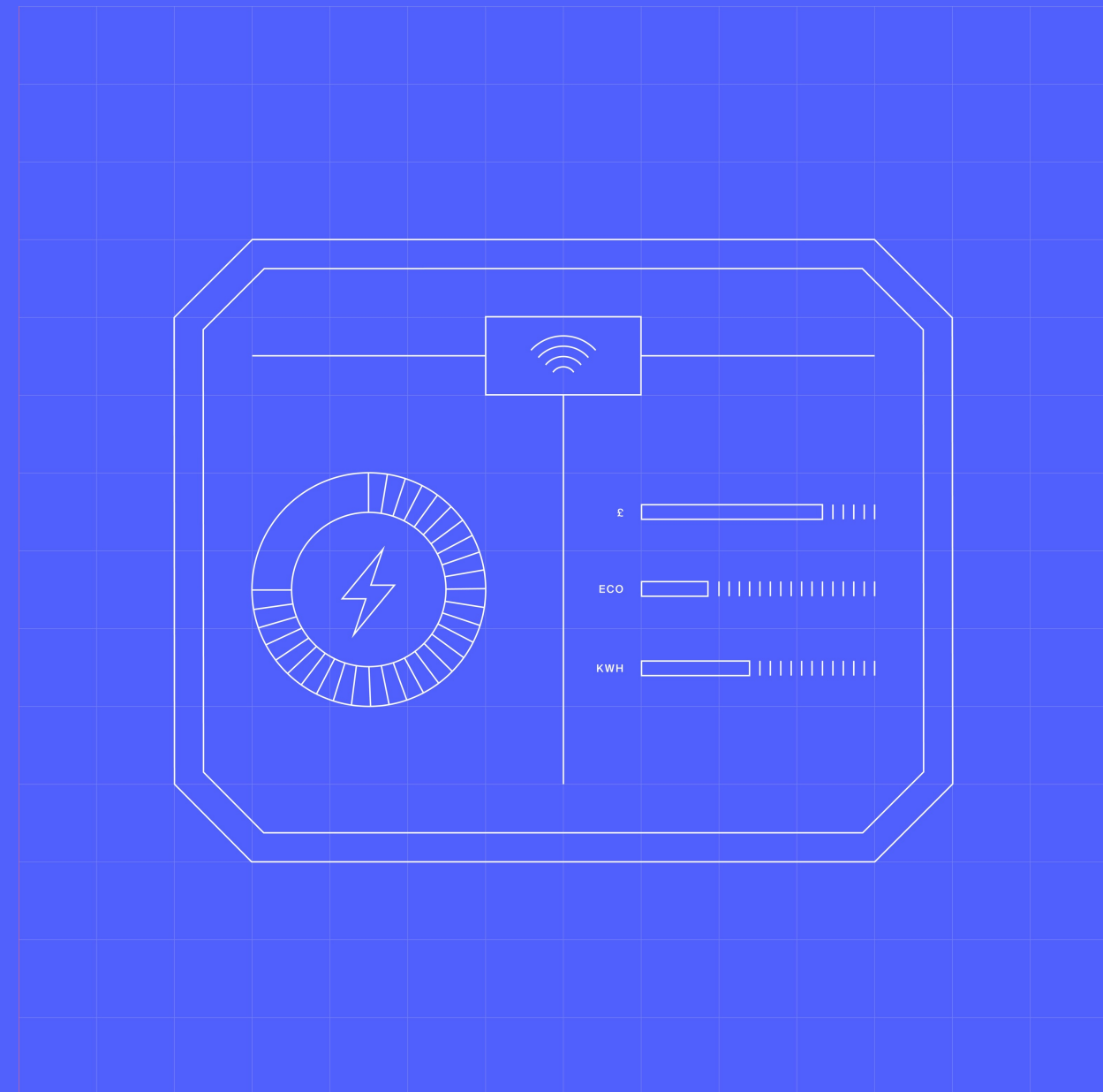
RAGs	Overall 3=G, 7=A	Approach 7=G, 3=A	Plan 3=G, 6=A, 1=R	Resources 8=G, 1=A, 1=R	Budget 8=G, 1=A, 1=R	Risk 1=G, 5=A, 4=R

Status & Outlook

Activities reported as progressed in February:
- Submitted response to R3 Re-Plan Consultation
- Supported drafting and progress of CR017 – *LDSO DIP Messages Processing Times*
- Submitted response to CR015 - *Differential Settlement for E7/E10 Meters for Smart Opt-out customers - Impact Assessment*
- Reviewed first of the draft code changes
- Reviewed and responded to Migration Design consultation
- Progressed internal preparation, including costs, approval to proceed, resource & procurement
- Monitored design artefacts & work-off lists
- Gained better understanding of qualification process

Activities reported as expected to progress in March:
- Make changes to Project Plans to reflect Re-Plan proposals
- Gain better understanding of SIT and Qualification requirements & how they will impact current systems
- Review draft Code changes
- Realise agreement for DUoS billing IDs/LLF IDs
- Receive and review DIP CoCo and Design Documentation
- Progress consideration of IDNO "one SIT for all"
- Finalise procurement activity

Decisions to be made by IDNOs	Impact of no decision	Decision by when?
SIT participation	Potential to have no LDSO SIT party	23.04.23
Collective IDNO "one SIT for all"	Potential for no IDNO SIT participation	23.04.23

Decisions required from the programme	Impact of no decision	Decision by when?
CR017 – *LDSO DIP Messages Processing Times*	Additional delay to Registration system readiness. Additional cost. Additional resource for transition and enduring process	ASAP – impacting our own and SCS' DBT
CR015 - *Differential Settlement for E7/E10 Meters for Smart Opt-out customers - Impact Assessment*	Potential additional delay to Registration system readiness. Additional cost.	ASAP – impacting our own and SCS' DBT
Clarifications on final design specifics Design Issues Notification Log, including the SCS Issues	Unable to proceed fully with DBT and, ultimately, to be ready for M9	ASAP – impacting our own and SCS' DBT
Clarification from the Programme on what is required for M9, and specifically on SIT, Qualification & E2E requirements	May influence the priority of build and could impact M9 readiness	ASAP – impacting DBT, SIT ability and M9 readiness
Ability for IDNOs to undertake "one SIT for all"	Potential for no IDNO SIT participation	23.04.23

Escalations (priority items for attention and support from the programme)		Action by when?
Clarity and resolution on the above		ASAP – impacting our own DBT
Clarification on the formal change process, conflicting advice given by Programme in recent DAGs		ASAP
Better understanding of IDNO-specific Programme requirements		Ongoing

Risks or Issues	Impacts	Opportunities to resolve and deliver as soon as possible
DIP service provider deviates from published design	Delay to DBT & additional costs	Clarity of design & DIP service
Design incomplete, therefore development unable to proceed fully	IDNOs unable to commence/progress build	Engagement with Programme to determine design
Code drafting triggering a change to Design	Delay to M9	Code drafting completed earlier

IDNO Key Milestones (in Round 3 plan)	Round 3 date & confidence level / RAG	Reasons for confidence levels
For those intending to participate in Systems Integration Testing (SIT)		
M9 - SIT CIT start	**30-Oct-23** [0] High confidence [0] Medium confidence [6] Low confidence	It's not clear what is required for CIT start. This phase suggests that only testing with our adapter will be required but we are expected to have completed PIT prior to CIT start. It's also not clear if this requirement is on a system by system basis or if it needs to be all of our systems or nothing i.e. does it matter if one of our systems has not fully completed PIT? In addition to the above, although guidance has been issued for PIT there's no format for how PIT documentation has to be completed therefore it's impossible to give an accurate timeline of how long generation of documentation of testing will take.
SIT (Functional) start	**27-Feb-24** [0] High confidence [2] Medium confidence [4] Low confidence	This confidence level is caveated on the basis that if CIT start only extends as far as adapter testing then with the exception of any additional design changes effecting development occurring then this date should be achievable.
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs	**07-Mar-25** [0] High confidence [5] Medium confidence [1] Low confidence	Again this is all based on the above completing on time for all affected systems and, for some, whether SIT is undertaken. Understandably, the target dates are so far out that it is unclear whether key aspects and deliverables may change.
For those intending to participate in non-SIT LDSO (qualification) testing		
Non-SIT LDSOs testing start (Functional / Migration / NFT / Ops)	**02-Jul-24** [1] High confidence [3] Medium confidence [2] Low confidence	Lack of clarity on what this involves for IDNOs and for service providers. Lack of confidence due to outstanding design issues and CRs yet to resolve.
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs	**07-Mar-25** [1] High confidence [4] Medium confidence [1] Low confidence	Lack of confidence in Programme as a whole for some parties. May improve as we complete on milestones, i.e. CIT etc. Too early in Programme to determine.

IDNO Adaptor status

Decision to use an adaptor		Functional scope of adaptor agreed		Adaptor procurement completed	
Yes [10]	No [0]	MPRS only [0]	Wider [2]	[0]	(6 in progress)

Document Classification: Public

RAGs	Overall	Approach	Plan	Resources	Budget	Risk

Status & Outlook

Activities reported as progressed in February:

- **Attended meetings & working groups**
  - TMAG
  - DAG inc raising CR17
  - Qualification and E2E Sandbox Testing Working Group (QWG)
  - Migration Design Subgroup (MDSG)
  - Migration Working Group (MWG)
  - Environments and Configuration Management Working Group (EWG)
  - MHHSP: IPA Discussion
- **Started review of program documentation**
  - Migration Design Artefacts
  - Code Drafting Consultation
  - PIT Testing Guidance
  - CRs
- Stage 0 Registrations build in progress (June 23)
- Internal Planning weekly meetings
- Internal CRs raised for supporting internal systems
- Ongoing procurement discussions and evaluation of potential adapter providers. Also for provision of wider DNO systems (eg UMSO and DUoS billing)

Activities reported as expected to progress in March:

- Attendance at various Programme workgroups/meetings
- Review of Industry Documentation/consultations and feedback
- Internal Planning weekly meetings
- Additional assignment of Internal SME's
- Adapter decision made (for some DNOs)
- MPRS 8.2 release for internal testing

Decisions to be made by DNOs	Impact of no decision	Decision by when?
Confirm adapter provider and complete procurement	Impact on testing capabilities and delay in DBT decisions	Feb -April 2023
Whether to participate in SIT (and if so for which systems)	If no decision is made, by default will participate in non-SIT LDSO (qualification) testing	23/04/23 (as per Programme date)

Decisions required from the programme	Impact of no decision	Decision by when?
Design baselines to be completed	Impact on delivery of DNO supporting systems	ASAP
Essential DIP documentation (CoCo & PHID) to be provided	Delays in DNO supporting processes being in place to complete CIT/SIT	ASAP
Confirmation of outcome from Re-Plan 3 Consultation	Uncertainty on dates. Unable to decide on SIT participation	ASAP
Resolution of CR's and Outstanding Design uncertainty (eg CR012, CR015, CR017, CR018 and Work Off Plan and the St Clements MHHS Design Issues Log	Delay to DBT and unable to achieve R3 SIT dates. Potential delay to DBT of DNO internal downstream systems.	ASAP

Escalations (priority items for attention and support from the programme)	Action by when?
Clarification of SIT approach and testing requirements for LDSO (DUoS billing) and UMSO processes	ASAP
Clarification of Qualification testing requirements (non Registrations)	ASAP
Responses to the large volume of design queries raised by St Clements	ASAP

Risks or Issues	Impacts	Opportunities to resolve and deliver as soon as possible
Design risks have been identified as part of M5 WOP, SCS Design Issue Log and CRs already raised	If not resolved may cause delays or rework (and increased costs/resources)	Resolution of CR017 and other design issues identified by LDSOs
In relation to ongoing Programme discussions, further change may be required to Registration Systems	This may impact the delivery timescales and potentially delay delivery	Ongoing discussions on proposed changes, and a reasonableness approach adopted (potential change freeze)
Potential impact on DNO budgets.	Potential under-recording of DNO cost impacts in the Programme benefits	Require clear statement on (for example) Environment requirements for Non-SIT LDSO testing and CR017 Decision.
If Design issues not resolved and design baselined asap, Core Capability Providers may not be able to complete their DBT by M9 as set by the re-plan	Unable to enter SIT. Design is baselined but is then undermined by large numbers of Change Requests	- Resolve outstanding design questions and baseline design
The Reverse Migration Solution is too complex to enable Core Capability Providers to Achieve Testing & M10.	Migration phase is delayed.	- Review and act on feedback provided by respondents
Lack of public central programme design issues log	No visibility of issues/progress	Utilise design issues tool (cf JIRA) which allows 2-way issue updates

DNO Key Milestones (in Round 3 plan)	Round 3 date & confidence level / RAG	Reasons for confidence levels
		For those intending to participate in Systems Integration Testing (SIT)
M9 - SIT CIT start	30-Oct-23 High confidence 3 Medium confidence 3 Low confidence	St Clements to provide status for MPRS At this point DNOs unsure of the full requirements for SIT/CIT as still awaiting key information from the Programme inc DIP provider information (in relation to the code of connection and PHID). Based on the current requirements' DNOs are confident that able to meet internal testing dates providing that the programme meets all dates set out in the Round 3 Replan consultation. However, there are still technical E2E design elements that have not yet been baselined including reverse migration, 24/7 Registration Operation and E7/E10 and without these DNOs cannot finalise DBT. DNOs originally assumed that all major decisions and technical solutions would have been known at M5. Then believed that these issues would have been addressed as work off items under the timeline agreed at DAG, i.e. M5 +3. Whilst DAG had agreed that CRs may need to be raised as a way forward, this means DNOs are still left with significant questions unanswered and no definitive timeline for getting a final resolution. As a result of above some DNOs are unable to make a clear decision on whether to be involved in SIT or opt for non-SIT LDSO (qualification) testing. Therefore, currently Low confidence for full MPRS availability at 30/10/23 CIT start but depending on on-going and currently promising Programme discussions for phased delivery of MPRS throughout CIT, this confidence may improve in the near future. Some DNOs rank CIT confidence as Medium based on this assumption. DURABILL/UMSO/LDSO approaches to be decided – subject to programme clarifications
SIT (Functional) start	27-Feb-24 High confidence 6 Medium confidence Low confidence	St Clements to provide status for MPRS and as such we have increased confidence in meeting this milestone, on the basis that there are no further changes required to the Registration system and the Programme meets the milestones as per the Round 3 Replan. This confidence score would be higher if there was a Registration change freeze DURABILL/UMSO/LDSO approaches to be decided – subject to programme clarifications
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs	07-Mar-25 High confidence 6 Medium confidence Low confidence	St Clements to provide for MPRS - currently medium confidence. Noting that these requirements are still to be agreed at Programme level. Subject to elements of uncertainty surrounding Reverse Migration Design and no further significant design changes. DURABILL/UMSO/LDSO approaches to be decided – subject to programme clarifications
		For those intending to participate in non-SIT LDSO (qualification) testing
Non-SIT LDSOs testing start (Functional / Migration / NFT / Ops)	02-Jul-24 High confidence 6 Medium confidence Low confidence	DURABILL/UMSO/LDSO approaches to be decided – subject to programme clarifications Subject to no further significant design changes These confidence ratings include those DNOs who have volunteered for SIT
M10 - readiness to support migration start, including Registration Services. Network Operators and UMSOs	07-Mar-25 High confidence 6 Medium confidence Low confidence	Programme requirements in relation to requirements for LDSO/Billing/UMSO are still to be clarified. Guided by St Clements for readiness on Registration (MPRS) and Network Operators (DURABILL) start of testing by 02/07/24. Subject to no further significant design changes These confidence ratings include those DNOs who have volunteered for SIT

DNO Adaptor status

Decision to use an adaptor		Functional scope of adaptor agreed		Adaptor procurement completed
Yes 6	No	MPRS only	Wider 6	0

Design update

INFORMATION: Update on the status of the M5 Work-Off Plan and the Migration Design

Warren Fulton

5 mins

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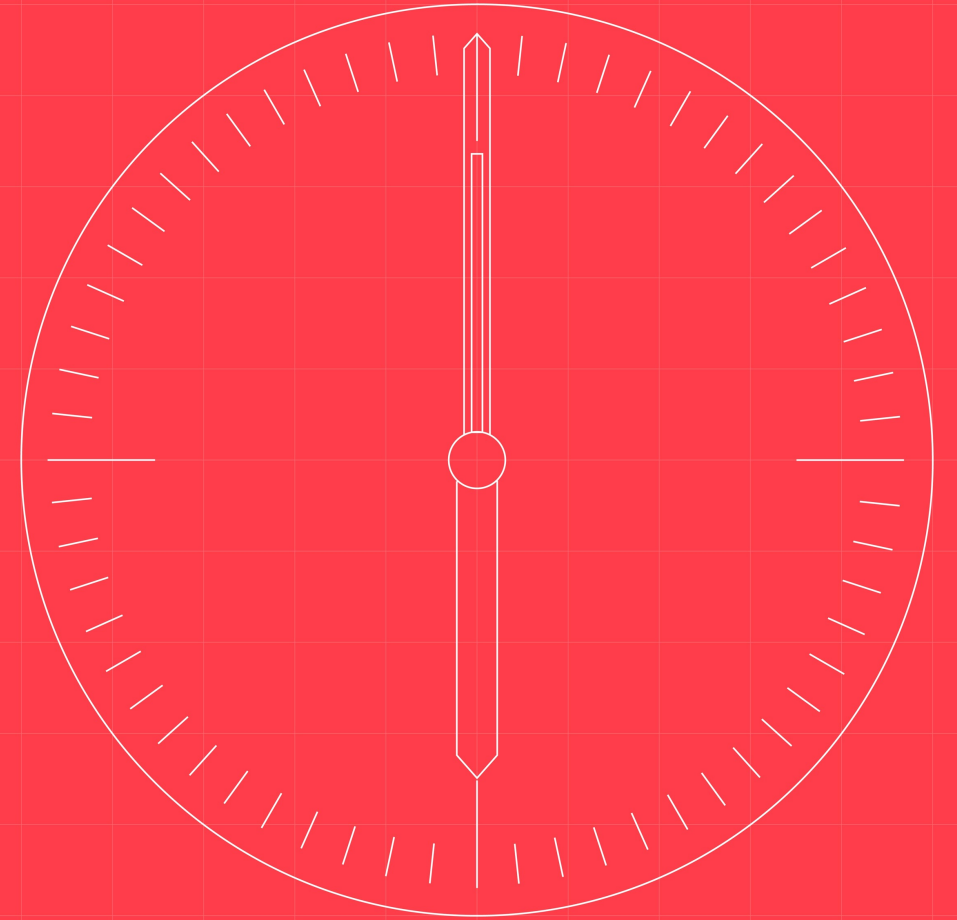
CORE DESIGN

- On 16 Feb 2023 DAG agreed to close the work-off plan and re-baseline the design

- The re-baselined Design Artefacts will be published on the Collaboration Base and the MHHS website by 24 Feb 2023

- Several actions were allocated to participants and the Programme in association with closing the Work-Off plan. These actions will be monitored by DAG

MIGRATION DESIGN

- The Migration Design Artefacts were published for industry consultation on 13 Feb 2023, and participant comments are due by 24 Feb 2023
- An additional week was added to the review period to afford participants more time to review the artefacts
- 78 comments have been received from participants to date

Key remaining milestones:
- D0170 Decision by DAG on 8 Mar 2023
- Review participant comments and issue comment responses and updated Artefacts for the Assurance review on 10 Mar 2023
- BPRWG Assurance meeting on 17 Mar 2023
- Extraordinary DAG meeting to approve the Migration Design Artefacts on 29 Mar 2023

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Change Control

DECISION: CR015: Review the outputs of Impact Assessment and make a decision on next steps

Chris Welby

10 mins
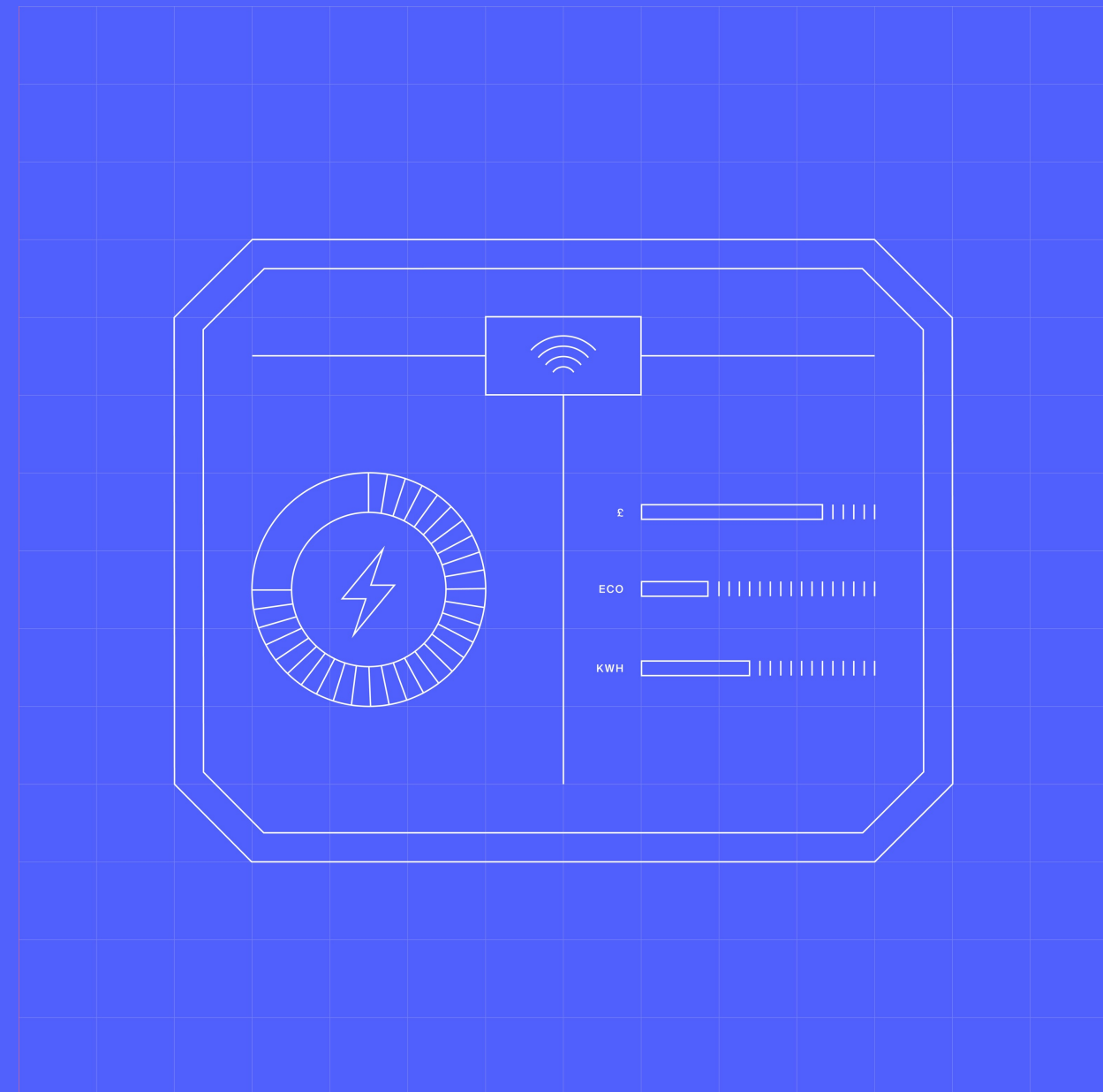
CR015 – Impact Assessment Summary

Option A	The Supplier would provide the data service with a split of the energy. The data service would then calculate a daily meter advance and use the fractions to split it into peak and off-peak energy for the data service.
Option B	Unrestricted and Time of Use load shapes would be created to specifically address this issue. This would be achieved through the incorporation of a 'MHHS Switch Load Indicator' into the registration system
Option C	No Action. Supports the current design as the counterfactual to Options A and B

Objective of this session:

PSG to review the outputs of CR015 Impact Assessment and SRO to make decision.

The Programme recommends a change is made to reduce the impact on consumers. Of the 2 options for change presented in the Change Request, the Programme recommends that Option A is implemented as best placed to reduce consumer impact whilst maintaining Programme delivery timescales.

- **Responses from DNOs & their key Software Provider, St Clements Services, have identified that Option B would introduce a 3-month delay to M9 and consequent milestones.**

Headlines:

- Responses obtained via Impact Assessment are diverse and there is **not a clear consensus observed across Options A, B, and C**

- The impacts of CR015 vary across Constituency so it is important that all points of view and impacts are considered in making this decision and communicated to Programme Participants

- Large, Medium and Small Supplier respondents were unanimous in support towards the implementation of a change through Option A and/or B (noting Large Suppliers' first choice preference was evenly split between Option A and B with two votes each). 2 DNOs chose Option A as their first choice.

- Whilst this isn't unanimous, it **supports the case for change to reduce the impact on consumers:**

    o Respondents highlighted the commercial and customer impact should CR015 not be approved with a perverse disincentive created by the current design to offer competitive tariffs to new E7/E10 customers, nor to prioritise the installation of Smart Meters for existing traditional E7/E10 customers

    o Without a change to the design the relative cost of settling E7 & E10 Meters will increase by c.£35-90. This cost will ultimately be passed to the consumer, impacting tariff setting and reducing consumer choice

    o Using the tariff pricing and modelling against the standard LSS profile provided in CR015, one respondent estimates an impact of c.£64.36 per customer. If current price cap rates are used, the impact is considerably more severe at closer to c.£193 per customer on average - a total impact of between c.£11m-£33m per annum

    o For Supplier/SDS the change is small compared to overall DBT effort required, and DBT is in early enough stages to accommodate a minor change.

o **Those parties that proposed no change (Option C) as their first choice, all chose Option A as their second choice**

- **9 respondents supported Option A and highlighted the following considerations:**

    o Negates the impact to customers and will resolve the issue without impact to the Critical Path

    o Greater accuracy in settling at a meterpoint level as opposed to a generic load shape

    o Provides the customer flexibility within the market but also offers the incentive to offer cheaper tariffs to a customer with HH data sharing consent.

- **7 respondents supported Option B and highlighted the following considerations:**

    o Lower cost compared to Option A as it would use the load shaping functionality that is already part of the design (requiring less change for suppliers and SDSs)

    o Requires less regular maintenance by suppliers, as the Switched Load Indicator would likely only need to be set on COS gain.

- **7 respondents supported Option C as their preferred choice and highlighted the following considerations:**

    o Concerns that settlement remains inaccurate via Option A as a result of using load shapes influenced by switched load on unrestricted customers

    o Option B equates to a significant impact on MPRS and LDSOs and will likely have a negative impact on Level 1 Milestones and Critical Path and adds risk DBT effort and SIT

    o **Option B represents significantly higher risk to Helix than Option A.**

CR015 – Submitted Impact Assessments

Programme Parties	Participants' Impact Assessment of Options A and B								Participants' preference for Options A, B and C								
	Option A				Option B				First Choice Option			Second Choice Option			Third Choice Option		
	Yes	No	Abstained	Not Replied	Yes	No	Abstained	Not Replied	A	B	C	A	B	C	A	B	C
Large Suppliers	4	-	-	2	3	-	1	2	2	2	-	2	2	-	-	-	4
Medium Suppliers	2	-	-	5	2	-	-	5	-	2	-	2	-	-	-	-	2
Small Suppliers	-	-	-	33	1	-	-	32	-	1	-	-	-	-	-	-	-
I&C	1	-	1	39	1	-	1	39	-	1	-	1	-	-	-	-	1
DNOs	2	-	3	2	-	5	-	2	2	-	3	3	-	1	-	4	-
iDNOs	-	-	1	12	-	1	-	12	-	-	1	1	-	-	-	1	-
Ind. Agents	-	-	-	48	-	-	-	48	-	-	-	-	-	-	-	-	-
Supplier Agents	-	1	-	5	-	1	-	5	-	-	1	1	-	-	-	1	-
S/W Providers	-	-	1	24	-	1	-	24	-	-	1	1	-	-	-	1	-
REC Code Manager	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
National Grid	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Consumer	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Elexon (Helix)	-	1	-	-	-	1	-	-	-	-	1	1	-	-	-	1	-
DCC	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
SRO / IM & LDP	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
IPA	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Total	9	2	7	175	7	9	3	174	4	6	7	12	2	1	0	8	7

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Note: Several respondents only provided their first-choice option

CR015 Impacts – Views on the proposed approach (Page 1)

Programme Parties	Range of respondents' views on benefits and concerns – Option A	Range of respondents' views on benefits and concerns – Option B
Large Suppliers	+ Greater accuracy in settlement in settling at a meterpoint level as opposed to a generic load shape + Simpler of the two solutions and incorporates the current programme design without too much disruption + Mitigates the primary issue of customer detriment + Removes the element of misallocation meaning the supplier can offer cost reflective tariff for the customer + Provides the customer flexibility within the market but also offers the incentive to offer cheaper tariffs to a customer with HH data sharing consent + Provides the supplier & SDS with a means to accurately reflect the day/night consumption split in settlement, which allows the supplier to align the energy costs with the tariff rates of multi-rate tariffs for opt out customers – Fetter the ability of suppliers to offer cost reflective tariffs; it would ensure that a large group of customers (140k - 560k customers) do not experience significant customer impact (£35-90 per impacted customer) – Adds some complexity to the read submission process for Opt-Out Time of Use Smart meters, as it requires the supplier to additionally provide a peak / off peak split on a daily basis	+ Lower cost compared to Option A as it would use the load shaping functionality that is already part of the design, and so would require less change for suppliers and SDSs + Mitigates the primary issue of customer detriment and also results in fairer and more accurate settlement allocation, and future proofs the MHHS design against inevitable market changes
Medium Suppliers	– Resolves issues at an MPAN level, but there are concerns that settlement remains inaccurate as a result of using load shapes influenced by switched load on unrestricted customers – Requires more work on behalf of suppliers and need more regular maintenance, with potentially the need to update the data service at least twice a year with new peak/off peak split to reflect GMT/BST change and any other seasonal changes	+ Significant benefit in leveraging the load shape information for opt-out customers to ensure that the parsed usage information better reflects the real-time usage + More accurate representation of customer usage + Addresses the settlement side fully and ensures that settlement wouldn't be inaccurate as a result of unrestricted customers being settled using load shapes influenced by switched load customers + Requires less regular maintenance by suppliers, as the Switched Load Indicator would likely only need to be set on COS gain
Small Suppliers		+ The one respondent supported Option B, but did not provide qualitative comments, nor respond to Option A

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Programme Parties	Range of respondents' views on benefits and concerns – Option A	Range of respondents' views on benefits and concerns – Option B
I&C		+ Allows more specific time of use tariffs to be set up in the future + Result in settlement more accurate than under Option A, which should lead to GSP Group Correction Factors being lower
DNOs	+ No impact on Registration Service and LDSOs + Negates the impact to customers and will resolve the issue without impact to the Critical Path	– Level 1 milestone for SIT entry (and possibly beyond) will be negatively impacted – The Registration Service is required to be ready at MHHS Transition Start and is in effect on the Programme Critical Path: Option B Impacts this Critical Path – Additional effort for design, build and test of the MPRS; this resource would need to be sourced in addition (and delivered by skilled experts) or existing experts diverted from other critical path LDSO deliverables – Adds additional risk that DBT effort required could not be absorbed by parties to maintain current SIT start date. – Addition of the new data item in Registration Service has a significant impact on the Registration Service and LDSOs which is likely to delay the delay the Registration Service implementation and therefore delays to MHHS migration – Likely delay the Registration Service Implementation resulting in a delayed start to MHHS Migration and therefore delayed benefits to Customers. – Additional impact to the implementation, programme testing and assurance requirements
iDNOs	▪ **One respondent supportive towards the implementation of Option C as proffered choice:** – Option B risks delay of Critical Path systems (ECS and Registration Service) being ready for MHHS Migration Start due to scope increase – Option B will have a negative impact on Level 1 Milestones and Critical Path	
Agents	▪ **One respondent supportive towards the implementation of Option C as proffered choice:** – There is a significant risk to the MHHS Programme timescales; introducing further significant change at this stage would risk the programme delivery further – If any change is agreed, it should be implemented following competition of migration (or later)	

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Programme Parties	Range of respondents' views on benefits and concerns – Option A	Range of respondents' views on benefits and concerns – Option B
S/W Providers	+ Registration Service not impacted + Critical Path not impacted + Resolves the issue and that the costs to correct the issue should be absorbed by Suppliers and their Services without impacting other parties	− Significant impact MPRS and LDSOs - it seeks to further extend the Functional Scope for MPRS' MHHS Design at cost to LDSOs and impacting St Clements MPRS MHHS Delivery Plan ultimately for no benefit to LDSOs or the MPRS software − Equates to a significant impact on MPRS and LDSOs. This could be up to an additional 100 days effort (at c.£100k cost) for MPRS DBT which cannot be absorbed within the existing, already tight, programme timescales − Adding another 100 days to the MPRS development will extend this discrepancy further and have a negative impact on the programme's SIT entry level 1 milestone by pushing it back at least three months (from end of Jan 24 to end of April 24) − It will also have a negative impact on the migration milestones by delaying the completion of migration DBT − The MPRS delivery plan does not align with the programme's timeline for PIT exit/SIT entry and measures are being investigated to mitigate this
REC Code Manager	▪ Did not respond to Impact Assessment	
National Grid	▪ Did not respond to Impact Assessment	
Consumer	▪ Did not respond to Impact Assessment	
Elexon (Helix)	▪ **Respondent supportive towards the implementation of Option C as proffered choice:** − Option B represents significantly higher risk to Helix than Option A − Whilst Options A and B may remove some of the customer impacts of the current design, this impact could equally be mitigated by Option C, and requiring this small subset of customers to Opt In to submit half hourly consumption data to their supplier if they want to benefit from Time of Use tariffs ▪ Industry should proactively encourage end customers to share their HH consumption data, which would allow those customers to benefit from the real benefits of HH Settlement	

CR015 Impacts – Views on the proposed approach (Page 4)

Programme Parties	Range of respondents' views on benefits and concerns – Option A	Range of respondents' views on benefits and concerns – Option B
DCC	▪ Did not formally respond to Impact Assessment as the solution to issue CR015 and the lack of a mechanism to allocate consumption between peak/off-peak opt out consumers is not within the remit of DCC	
SRO / IM & LDP	▪ Fully supportive of a mechanism to find a solution to the issues raised in CR015; the Programme's response to CR015 will be informed by the feedback obtained via the full Impact Assessment process − Highlighted the potential risk of a delayed realisation to consumer benefits if programme timescales are impacted via Options A − BEIS has estimated that the impact on benefits of programme delays is in the region of £90m per annum − Changes to the Design Artefacts required, therefore the Programme will have to plan and execute these additional development activities (c.10 working days), as well as Test Preparation Activities (c.5 working days) − Updates to Test Artefacts may impact on Qualification artefacts for BSCCo and RECCo − Additional Programme costs associated with any change in Programme delivery that will be required from Programme Participant delivery impact	▪ Fully supportive of a mechanism to find a solution to the issues raised in CR015; the Programme's response to CR015 will be informed by the feedback obtained via the full Impact Assessment process − Highlighted the potential risk of a delayed realisation to consumer benefits if programme timescales are impacted via Options B − BEIS has estimated that the impact on benefits of programme delays is in the region of £90m per annum
IPA	▪ Did not respond to Impact Assessment	

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TMAG governance

INFORMATION: Update on next steps for Testing and Migration governance following discussion at TMAG

Chris Welby

5 mins

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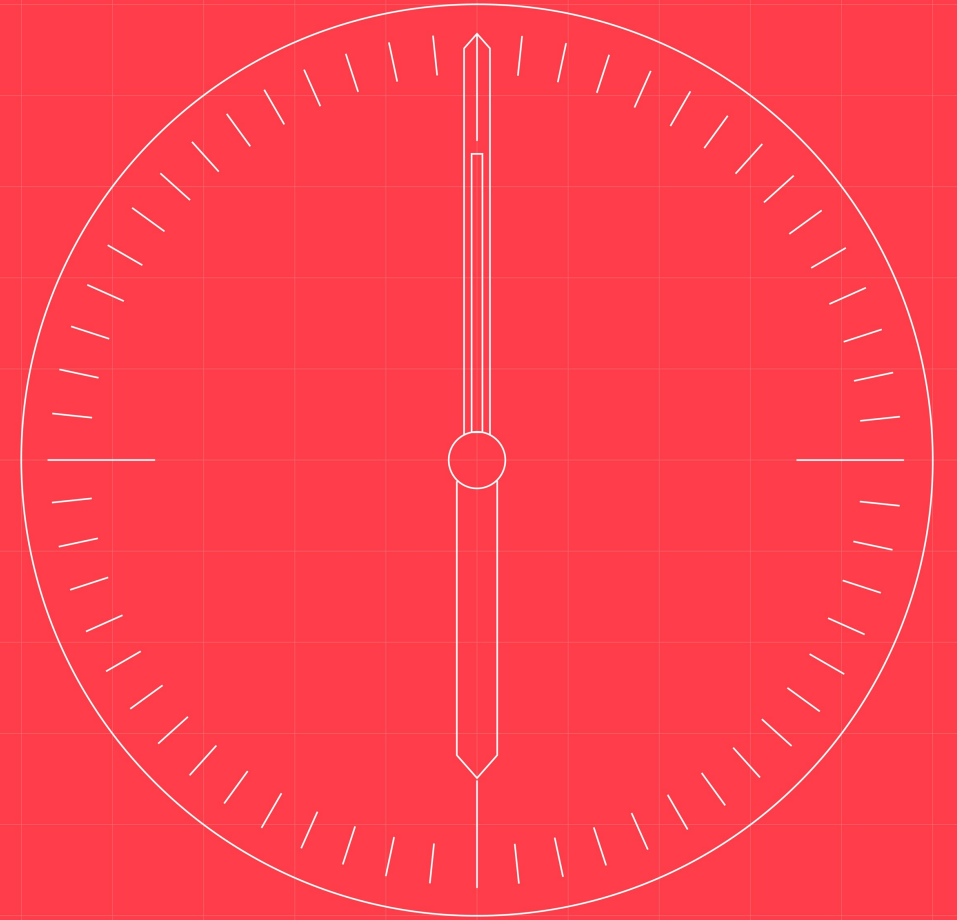
The future of TMAG

Background

- Since the Testing and Migration Advisory Group (TMAG) was expanded from just the Testing Advisory Group (TAG), there has been acknowledgement that Testing and Migration may need to split into two separate advisory groups in the future, pending workstream need
- It has also been noted that different expertise may be required to make decisions on Testing and Migration, and hence industry may require different representatives in MHHS decision-making bodies. This has been raised again recently and we have allowed two members to co-represent Large Suppliers (rather than the seat be vacant).
- Four options were raised at TMAG on 15 February for discussion. The options looked to balance efficiency and pragmatism (such as minimizing the number of groups we have stood up) while ensuring adequate industry representation in decision making

Four options considered at TMAG

	Summary	Pros	Cons
A	**Do nothing and continue as we are. Maintain TMAG and only allow one representative per constituency**	• Easiest option • No CR required	• Does not solve problem and issue with representation likely to persist
B	**Maintain TMAG but allow two representative attendees per constituency (where separate attendees are required)**	• Relatively easy to implement	• May be complicated when it comes to voting • Unclear separation between Migration and Testing
C	**Maintain TMAG but allow two representative attendees per constituency. Split TMAG meetings into two parts, with a buffer/break in the middle to allow a rep swap**	• Relatively easy to implement • Clear separation between Test and Migration	• Minor logistical change
D	**Separate TMAG into two separate Advisory Groups**	• Clear separation between Test and Migration	• Less efficient – larger workload for Programme and industry, with more groups required • May be challenging to fill rep seats in both • CR required to change Governance Framework

TMAG Decision

After discussion TMAG agreed to opt for option C, but to allow, where a constituency opts for separate representatives, both reps to be present for the whole meeting as observers when the other representative is leading. No PSG decision or change to the governance framework is required.
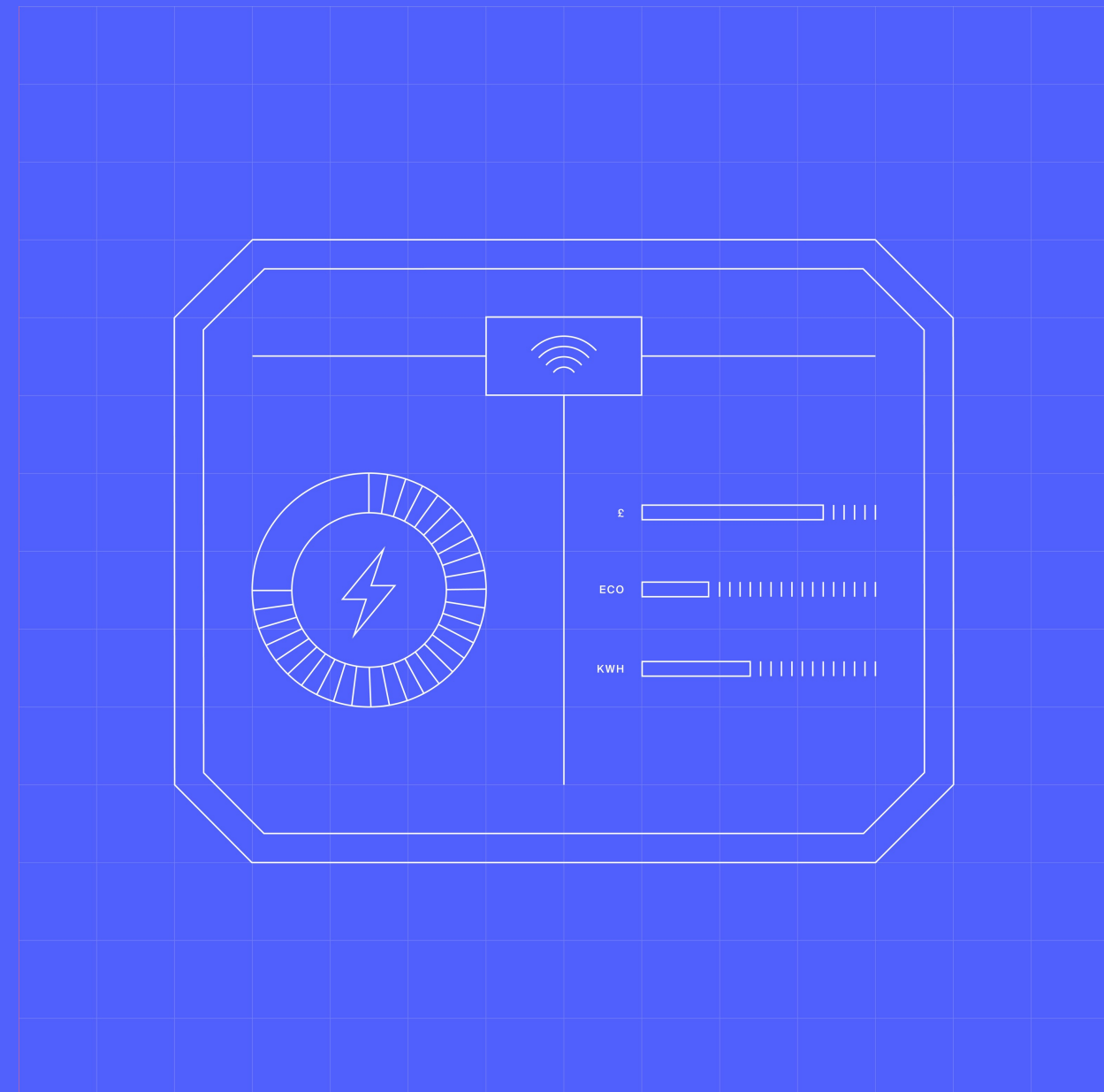
We will continue to monitor and adjust the approach as required in future

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Delivery dashboards

INFORMATION: Take questions from PSG members on delivery dashboard content

Chair

10 mins

Delivery dashboards - contents

Area	Title	Purpose	Page
MHHSP Programme level	**Milestone Status**	Provide an overview of progress against Programme milestones	36
	Interim Plan Status	Provide an overview of progress against the Programme interim plan	37
	Risk Themes	Provide a high-level view of Programme Risks	38
	Change Control	Update on the status of Change Requests	41
MHHSP workstream level	**Design Work-Off Plan and Migration Design**	Update on progress of the Work-Off Plan and Migration Design *Note: Please refer to the agenda item on Design for this month's content*	N/A
	Code Drafting Status	Update on the progress of Code Drafting against the Code Draft plan	42
	Level 3 Advisory Group updates	• Update on key discussion items and outcomes from recent Level 3 Advisory Groups • Provide a forward look to future Level 3 Advisory Groups	43
	PPC activity	Provide information on PPC activity and participant engagement – includes a summary from the recent open day	45
Assurance	**Independent Programme Assurance (IPA)**	Provide a progress update on in-flight and future planned assurance activities	46
Industry	**Core Capability Provider Delivery Plans**	Provide an overview of Helix, DCC, RECCo, St Clements and DIP delivery plans and progress against them	47
	Central Party Finances	Provide high level Central Party forecast of expenditure against plan	52
	Industry Change	• Summarise activity at the Consequential Change Impact Assessment Group (CCIAG) • Summarise items raised to the Programme horizon scanning process	53

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Document Classification: Public

| | | Red | Baseline date has not been met or is expected not to be met | | Amber | Baseline date may not be met and/or new date not yet agreed | | Green | Baseline date expected to be met |

Level		Milestone	Milestone Date		Status	Path to Green – Actions (& related impacts)	Previous RAG Feb PSG	Current RAG Mar PSG	Forecast RAG Apr PSG
			Baseline	Forecast					
1	M5	Physical baseline design delivered	29-Apr-22	31-Oct-22	• DAG approved M5	• This milestone has been met and the related delivery of the work-off plan and migration design are being tracked	Met	Met	Met
	M3	Design, Build Start (Elexon)	31-Aug-21	Complete			Met	Met	Met
	M3	Design, Build Start (DCC)	28-Feb-22	Complete			Met	Met	Met
	M3	Design, Build Start (DNOs)	31-May-22	01-Mar-23 *for unconditional approval*	• M3 was conditionally approved at PSG in Nov-22 • New M3 criteria were agreed at PSG in Dec-22 to support a further M3 approval decision after the Round 3 plan consultation • Round 3 responses received	• Unconditional M3 approval will be sought at PSG in Mar-23 based on new criteria agreed at PSG Dec-22 • M3 is recommended for unconditional approval at PSG in Mar-23 based on Round 3 responses	Met conditionally	Met	Met
	M3	Design, Build Start (iDNOs)	31-May-22						
	M3	Design, Build Start (Agents)	31-May-22						
	M3	Design, Build Start (Suppliers)	31-May-22						
	M5+	Industry re-plan	29-Jul-22	20-May-23	• MHHSP have confirmed 'plan for the plan' and updated / extended the interim plan • Round 3 consultation completed on 31-Jan-23	• Re-draft the plan based on Round 3 feedback, continued meetings with stakeholders (including core capability providers to align plans) and WG & AG decision-making on detailed delivery approaches • +1 month will be informed to PSG in Mar-23 to allow more work to align all core capability providers to the Round 3 timeline • Likely request for Ofgem to approve a related Change Request	Green	Amber	Green
1	M9	System Integration Testing Start	31-Aug-23	(30-Oct-23) *Round 3 proposed*	• Date to be determined during the programme re-planning activity • Round 3 proposed M9 date is 30-Oct-23 • Round 3 responses indicate that it is likely that an MVC can be constituted in SIT	• Not all Core Capability Providers (CCPs) are yet able to provide DBT plans that support this date although there are opportunities to mitigate impact. • Regular bilateral meetings between those CCPs and MHHSP are ongoing to find solutions to support the date	Red	Red	Amber
1	M6	Code changes baselined	29-Apr-22	(04-Apr-24) *CR012 / Round 3 proposed*	• CR012 proposes a change to the date that will be stated in the Round 3 re-plan and reviewed as part of the consultation (shown as forecast date here)	• Agree new dates as part of re-baselining the plan, and those new dates are not expected to be on the programme's critical path	Red	Red	Amber
	M7	Smart Meters Act powers enabled	31-May-22	(06-Dec-24) *Round 3 proposed*	• Date to be reviewed during re-plan consultation	• Agree new dates as part of re-baselining the plan, and those new dates are not expected to be on the programme's critical path	Red	Red	Amber
	M8	Code changes delivered	30-Nov-22	(07-Mar-25) *Round 3 proposed*	• Date to be reviewed during re-plan consultation	• Agree new dates as part of re-baselining the plan, and those new dates are not expected to be on the programme's critical path	Red	Red	Amber

Red	Baseline date has not been met or is expected not to be met
Amber	Baseline date may not be met and/or new date not yet agreed
Green	Baseline date expected to be met

Executive Summary

- **Interim Programme Plan:** An updated and extended interim PoAP was approved by PSG on 07-Dec-22. The interim PoAP has since been updated in January to reflect the activities and associated dates from the Round 3 replan consultation. The updated interim PoAP was signposted to Programme participants in The Clock on 18-Dec-22. The PoAP can be found on the planning page of the MHHS website.
- **Programme Re-Plan:** Round 3 consultation concluded on 31 Jan with 78 responses, 51 of which either volunteered or registered interest to volunteer for participation in SIT. This indicates a strong likelihood of forming a coherent MVC, subject to further PPC validation and close monitoring leading up to M9. CR release for industry IA is to be postponed from 07-03-23 to 05-04-23, subject to PSG approval, enabling full validation of all core capability providers being ready to enter SIT in the timescales, which were not evident from R3 in some exceptional cases. This will add confidence that the re-plan is realistic and achievable, reducing the risk of material changes in the short term. It also provides the added benefit in enabling the migration design to be approved and some inflight design-related CR to be resolved, further underpinning the plan.
- **Design Delivery:** The Design Advisory Group (DAG) agreed to baseline the MHHS Design on 31-Oct-22 subject to a work-off item list to be delivered within three months. On 01-Feb-23, the Extraordinary DAG made a decision not to approve completion of the M5 Design Work-Off Plan, this was subsequently approved on a further Extraordinary DAG 16-Feb-23.
- **Top Delivery Challenges:** (1) working with core capability providers to align their DBT plans with the intended programme plan to best manage critical path risks, (2) reaching agreement with all stakeholders on the timeline in any re-baselined plan.

Plan RAG Status

Previous RAG	Green
Current RAG	Red
Next period RAG	Amber

Task	Workstream	Baseline date	Forecast date	RAG
Ofgem plan walkthrough	Programme Replan Baselining	28-02-23	20-02-23	Complete
Migration Design docs issued for consultation	Migration & Service Management Artefact development	13-02-23	13-02-23	Complete
Data Assessment Report approved	Migration & Service Management Artefact development	28-02-23	28-02-23	Green
Environment Approach & Plan – Work-off approved at TMAG	Test Preparation & PIT Assurance	15-02-23	30-06-23	Red
Test Data Approach & Plan approved	Test Preparation & PIT Assurance	15-02-23	31-03-23	Red
Drafted code for Data Services & Metering topic areas issued for external review via consultation	Code drafting	14-02-23	23-02-23	Amber
SIT Participant volunteers confirmed	Enduring PMO & PPC activities	21-02-23	14-02-23	Complete

Task	Workstream	Baseline date	Forecast date	RAG
PSG decision to issue Replan CR for industry impact assessment	Programme Replan Baselining	07-03-23	05-04-23	Red
PSG decision to agree Replan baseline recommendation	Programme Replan Baselining	30-03-23	28-04-23	Red
Final Migration Design artefact walkthrough with PPs	Migration & Service Management Artefact development	08-03-23	17-03-23	Red
Migration Design approved at DAG	Migration & Service Management Artefact development	15-03-23	29-03-23	Red
Service Management Strategy approved	Migration & Service Management Artefact development	17-03-23	28-04-23	Red
Conduct DPIA on Test Data Approach & Plan (complete)	Test Preparation & PIT Assurance	31-03-23	31-03-23	Green
Test Management Tool implementation (complete)	Test Preparation & PIT Assurance	06-03-23	31-03-23	Red
Approve Configuration & Release Management Approach & Plan	Test Preparation & PIT Assurance	31-03-23	31-03-23	Green
Agree Test Management Tool Configuration and User Guides	Test Preparation & PIT Assurance	24-03-23	14-04-23	Red
Consultation for drafted code for Data Services & Metering topic areas complete	Code drafting	06-03-23	13-03-23	Amber
Code drafting for Data Services & Metering topic areas issued for CDWG review	Code drafting	23-03-23	30-03-23	Amber

RAID ID	RAID Description	Mitigation / Resolution	Resolution Date	Owner(s)	RAG
I077	There is an issue that the St Clements current DBT plans do not yet demonstrate that they will be ready for SIT start (M9) on 30-Oct-23	Weekly detailed planning meetings are being held between MHHSP and the St Clements team, to find a workable phased delivery of MPRS functionality into CIT and ahead of SIT Functional testing. New St Clements iterative DBT delivery plan is due to be shared w/c 20-Feb-23. IPA independently reviewing activities.	28/02/23	Keith Clark	Red

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Tasks and dates derived from updated Interim PoAP (as communicated via The Clock on 18th January 2023.)

Theme	Summary	Mitigation Approach Overview	RAG Status	
Commencing and completing SIT as planned	SIT success is reliant on sufficient volunteers to form and sustain a minimum viable cohort (MVC) through SIT, as well as sufficient parties progressing through SIT to enable earliest migration	• Mitigations are in place to manage risk of SIT not starting on time, of not securing an MVC and to mitigate any likelihood of potential volunteer dropout during SIT	**Previous RAG**	**Amber (21 Risks)**
			Current RAG	**Amber (27 Risks)**

Key Risks

Risk ID	Risk Description	Risk Score Assessment				Score movement since last PSG	Mitigation Plan
		Critical	**High**	**Medium**	**Low**		
		30 29 28 27 26 25	24 23 22 21 20 19 18 17	16 15 14 13 12 11 10 9	8 7 6 5 4 3 2 1		
R118	There is a risk that there is a lack of sufficient types and numbers of volunteers in SIT to be able to constitute an MVC			C → I → T (C@14, I@12, T@7)		No change	1. Monitor Industry disruption and any potential disruptions due to Government / Ofgem initiatives 2. Focus on Core Capability Providers via regular MHHSP account meetings / reviews 3. Round 3 encouraged earlier volunteering or declarations of interest from potential SIT candidates 4. Participant bilateral engagement (via PPC) is also encouraging volunteers (or acting to retain them) 5. February webinar will focus on the benefits of SIT to encourage volunteers 6. SI Design and Test assurance will track participants' DBT progress to manage risk that expected SIT volunteers will not be ready for M9
R273	There is a risk that SIT participants may have to be dropped from SIT participation prior to CIT, if they; 1. have not reached a sufficient point of progress in their DBT activities or 2. decide not to participate after all			C I → T (C@17, I@16, T@11)		-1 (18 to 17)	1. There needs to be contingency in the list of expected SIT volunteers
R284	There is a risk that the lack of clarity of the consequential change impact on Participants may affect quality of DBT outcomes			I C → T (I@16, C@15, T@5)		New item	1. Programme plan to acknowledge the period during which Participants will need to have conducted back-end systems DBT 2. Programme to be more proactive in monitoring CC and escalate to Ofgem/IPA where relevant 3. Code Bodies to share impact on drafting activities to give confidence to CC Code drafting for the replan 4. Consequential Change Log baselined per February CCIAG 5. Impacts identified by Code Bodies are being built into Code planning activities
I077*	There is an issue that the St Clements current DBT plans do not yet demonstrate that they will be ready for SIT start (M9)		I C → T (I@21, C@20, T@7)			New item (Risk moved to issue)	1. Weekly detailed planning meetings – MHHSP / St Clements 2. St Clements to share new iterative DBT plan w/c 20-Feb-23 3. Further work to identify workarounds for any remaining misalignment between expected M9 start date and St Clements plan

Items can be raised to the Programme RAID log using the RAID input form. Please refer to the Programme Digital PMO (DPMO) to see Programme risks in more detail

*Issues (1-5) have been pro-rated to match risk ratings (1-30) for comparison

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Key	
I	Initial Score
C	Current Score
T	Target Score

Risk theme 2: Completion and outputs of the Programme Re-plan activity

Theme	Summary	Mitigation Approach Overview	RAG Status	

Completion and outputs of the Programme Re-plan activity	There are risks to the completion of the re-plan as expected, and of the timescales (in the re-plan) being longer than the original Transition Timetable	• Seek earliest baselining of the Programme plan – this, together with the Design baseline - will help to remove Programme ambiguity and bring the Programme's management into a more controlled and predictable delivery mode
		   ○ Round 3 plan consultation completed on 31-Jan-23
		   ○ Replan CR to be shared at PSG on 05-Apr-23 (1-month deferment advised to PSG on 01-Mar-23)
			Previous RAG	**Amber (3 Risks)**

			Current RAG	**Amber (3 Risks)**

Key Risks

Risk ID	Risk Description	Risk Score Assessment	Score movement since last PSG	Mitigation Plan
R025	There is a risk that the re-baselined plan extends timescales significantly	I (22) → C (16) → T (9)	No change	1. Publish and manage the updated interim programme plan for the period leading up to the re-baselined plan being approved 2. Base the programme plan on phased delivery (possible due to the agreed migration approach) 3. Get clarity on the delivery plans for parties developing core capabilities required for SIT (Central Parties + St Clements / LDSOs) to define the critical path more clearly, and identify ways to align these parties' plans to the Round 3 proposed timeline 4. Develop plan based on responses to the Round 3 consultation, (including those DBT plan provided by participants), and using early adopters to optimise the critical path to migration start
R069	There is a risk that there may be additional cost implications for Programme parties due to programme replan / delays or change in direction	I C (21) → T (8)	No change	1. Manage Round 3 responses and outcomes 2. Ofgem to consider any CR resulting from the re-planning activity (including PP impact assessments) 3. Ofgem CR approval process
R224	There is a risk that the credibility of the re-baselined plan is low because we get very few responses to the consultation	I (20) → C T (9)	To be removed	1. This risk will now be closed due to a very high response rate to Round 3 (78 replies)

Risk Score Assessment scale: Critical (30 29 28 27 26 25) | High (24 23 22 21 20 19 18 17) | Medium (16 15 14 13 12 11 10 9) | Low (8 7 6 5 4 3 2 1)

Key
- **I** Initial Score
- **C** Current Score
- **T** Target Score

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Theme	Summary	Mitigation Approach Overview	RAG Status	
Management of industry Change	With various industry initiatives as well as continuous SLCs and Mods, it is pivotal that the Programme considers the impacts on its progress and costs and monitors these closely	• Mitigations for managing industry change include ongoing conversations in account management meetings to understand how Programme Participants and their plans are affected, close monitoring of updates and escalation to Ofgem and Elexon where necessary for input and discussion • CCAG monitors industry change through the Horizon Scanning log and through presentations on industry change to identify interactions with MHHS which might require MHHS Programme change (e.g., DCUSA DCP 415 & 416)	**Previous RAG**	**Amber (n/a)**
			Current RAG	**Amber (8 Risks)**

Key Risks

Risk ID	Risk Description	Risk Score Assessment	Score movement since last PSG	Mitigation Plan
R153	There is a risk that the implementation of DCC release (SEC MP162 Mod) in June 2024 does not align with MHHS Programme requirements to be ready for SIT	I, C at 14-13 → T at 6	New item	1. Discussions ongoing with DCC - complete this is subject to the replan activity 2. This may need to be revisited if R182 becomes an issue 3. The current DCC plan aligns with SIT timescales and the Programme will continue to monitor this through account management and planning activities
R252	There is a risk that Suppliers do not implement the consent regime required by SLC47 in time for MHHS	I at 23 → C at 13 → T at 6	New item	1. Licence conditions took effect 3/11/22 therefore probability reduced but the risk remains open in case of non-compliance from suppliers
R227	There is a risk that the migration approach needs to change if BSC Mod P432 is rejected	I at 24 → C at 12 → T at 6	New item	1. On P432 we are awaiting the DCUSA modification 414 as they are interdependent. We expect Ofgem to be making their decision in March/April 2023. Implementation will be 3 months after Ofgem decision, if decision not made by the end of March 2. Continue to discuss with Elexon, Ofgem and at CCAG
R229	There is a risk that implementation of REC R0032 is delayed beyond SIT for new data items required for MHHS	I at 15 → C at 11 → T at 6	New item	1. Monitor implementation of CP 2. Change is under Party Impact Assessment and is on course for implementation in the June 2023 Release
R231	There is a risk that REC CP R0015 increases the scope of MPANs to be included in Mod P432	I, C at 8-7 → T at 4	New item	1. Monitor implementation of CP – recommended for approval to Ofgem
I079*	There is an issue that C+C are having FSP issues in BAU which impact their effort on MHHS	I at 24 → C at 15 → T at 6	New item	1. Ongoing discussions with C&C from CPT and SRO team – impact of issue reduced

Risk Score Assessment bands: **Critical** (30 29 28 27 26 25) | **High** (24 23 22 21 20 19 18 17) | **Medium** (16 15 14 13 12 11 10 9) | **Low** (8 7 6 5 4 3 2 1)

Items can be raised to the Programme RAID log using the RAID input form. Please refer to the Programme Digital PMO (DPMO) to see Programme risks in more detail

*Issues (1-5) have been pro-rated to match risk ratings (1-30) for comparison

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Key	
I	Initial Score
C	Current Score
T	Target Score

Change Request status

Ref.	Key Detail	Change Raiser(s)	Change Type	Decision	Status	Action *If approved*	Change Owner(s) *If approved*
CR013	Determining scope of Examination of Settlement Impacts resulting from MHHS Programme	Gareth Evans, I&C Supplier Constituency	Full Impact Assessment	*PSG to approved (01/02/23)*	**Approved**	Implementation phase started. Expression of Interest to be issued via the Clock (22/02/23)	Chris Welby
CR014	Changes to the baselined LSS design	Matt Hall, Elexon (Helix)	Full Impact Assessment	*Awaiting Change Owner updates following DAG review (01/02/23)*	**Open**		
CR015	Differential Settlement for E7/E10 Meters for Smart Opt-out customers	Graham Wood, Large Supplier Constituency	Full Impact Assessment	*Awaiting PSG review of Impact Assessment (01/03/23)*	**Open**		
CR016	Changes to the Change Control Approach to incorporate design change process	Alex Whiteman, MHHS Programme	Housekeeping	*Change Board approved (08/02/23)*	**Closed**	Updated Change Control Approach published on Collaboration Base (10/02/23)	Alex Whiteman
CR017	LDSO Registration Service Dip messages processing times	Catherine Duggan, Electricity North West	Full Impact Assessment	*Awaiting Change Owner updates following DAG review (08/02/23)*	**Open**		
CR018	Registration Service Operating Hours	Ian Smith, MHHS Programme	Full Impact Assessment	*Awaiting Change Owner updates following DAG review (06/02/23)*	**Open**		

This slide captures Change Requests raised in the last three months. A full record of all MHHS Change Requests can be found on the Change Control page of the Collaboration Base

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MHHS Programme – Code drafting progress update

Status Summary

- BSC and REC Metering Services and 2 Data Services artefacts were sent for consultation as planned on 14th February.
- CDWG advised to extend the consultation period by 1 week due to the overlap with the Migration Design consultation and the delay of some of the BSC Code Artefacts.
- We have amended the forecasted dates accordingly but our ability to deliver against this will be dependent on the volume and complexity of the consultation responses.
- We are developing a code re-plan which will feed into the Programme replan change request.

March Deliverables

- Code drafting re-plan
- Closure of Data Services and Metering Services industry consultation
- Actioning and triage of industry consultation comments
- Questions and optionality will be taken to CDWG on 7th and 14th March

Risks

#	Risk or Issue	Mitigation Plan	RAG
R053	There is a risk that the programme may not be able to resource adequately against the code draft plan. (Either the programme does not get the resources required in time to start drafting or it does not get the resource to deliver drafting)	The code replan will take this risk into consideration and plan accordingly.	High Risk
R162	There is a risk that if M6 is delayed, the delayed Qualification QAD process will not give enough time for Programme Parties to Qualifiy before Migration starts	There is a significant amount of time to complete QAD in the programme plan so this is unlikely to be on the critical path	Medium Risk
R355	There is a risk that Consequential Change solutions are not approved by responsible parties in advance of the associated Code Drafting topics being started	If consequential code changes are not submitted within the code drafting plan timescales (August 2023) Code bodies will miss the consequential code change consultation and can raise a change request to bring the items back into programme scope. The code replan will take this risk into consideration and plan accordingly.	Medium Risk

Drafting Milestones	Target date*	Forecast date	Status
Data Services approved at CCAG	26/4/23	3/5/23	BSC
Metering Services approved at CCAG	26/4/23	3/5/23	REC / BSC
Interfaces/Data Specification approved at CCAG	28/6/23	28/6/23	Amber
Registration approved at CCAG	28/6/23	28/6/23	Amber
Governance and Qualification approved at CCAG	23/8/23	23/8/23	Amber
BSC Central Services approved at CCAG	23/8/23	23/8/23	Amber
Consequential Change approved at CCAG	25/10/23	25/10/23	Amber
Transition Text approved at CCAG	25/10/23	25/10/23	Amber
Topic Area Mop Up approved at CCAG	24/1/24	24/1/24	Amber
Finalise and consistency check approved at CCAG	27/3/24	27/3/24	Amber
Code changes baselined (M6)	4/4/24	4/4/24	Amber
Smart Meters Act powers enabled (M7)	6/12/24	6/12/24	Green
Code changes delivered (M8)	7/3/25	7/3/25	Green

dates subject to Replan CR

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Discussion summary from this month's Advisory Groups

Design Advisory Group (DAG)

Updates from DAG 01 February & 08 February 2023

1. **Work-Off Plan:** Of 73 work-off items, 62 are now considered resolved. The remaining 11 were discussed at the DAG meetings held 01 & 08 February 2023, where resolution actions were agreed. All work-off resolutions will be issued in an updated M5 Work-Off Plan report, available here. Change marked Design artefacts reflecting Work-Off Plan amendments have been issued to DAG members to consult with constituents and provide final comments by close of business 14 February 2023.

2. **Work-Off Plan Completion:** An extraordinary DAG will be held 16 February 2023 to discuss any consultation responses received from constituents. The DAG will be asked to decide whether the M5 Work-Off Plan is considered complete and whether the Design Artefacts are rebaselined.

3. **Change Requests CR014 & CR017:** Two change requests were deferred for further development ahead of a decision on issuance to Impact Assessment (IA). The changes will return to a future DAG for decision on IA.

DAG papers available here

Cross-Code Advisory Group (CCAG)

Update from CCAG 25 January 2023

1. **Qualification Code Drafting –** A dependency on the Qualification Assessment Document (QAD) exists. The Programme are working with the BSC to develop this, and items will be tabled at the next Qualification and E2E Sandbox Working Group (QWG) on 14 February 2023.

2. **Performance Assurance Requirements –** Currently under development by the Elexon-led Performance Assurance Working Group (PAWG). Timelines for delivery of PA requirements are under close review.

3. **Horizon Scanning Log –** Latest updates were provided by Code Bodies. Several related cross-code changes are either due to be delivered to Ofgem for, or awaiting, decision (see BSC P432, DCUSA DCP414, REC R0015). BSC Issue 101 (DIP FGO) is ongoing and interested parties encourage to attend discussion group.

4. **Code Drafting –** The governance of consequential change code drafting was discussed and the Programme advised the first code drafting topic areas have commence (Data and Metering Services.

CCAG papers available here

Testing and Migration Advisory Group (TMAG)

Update from TMAG 15 February 2023

1. **Data Assessment Report –** The Programme updated on progress of the Data Assessment Report ahead of planned approval at an extraordinary TMAG on 28 February

2. **Environments Approach and Plan** – The TMAG reviewed and approved the uplifted draft v2.2 of the Approach and Plan

3. **TMAG future** – The TMAG agreed to maintain TMAG but to split the meeting in two halves for Test and Migration, with an option for constituencies to have co-representation for each

4. **Working group updates** – Updates were provided on activity at the Qualification, Systems Integration Testing and Non-Functional Testing Working Groups

TMAG papers available here

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Level 3 Advisory Groups – Agenda forward look

Design Advisory Group (DAG)

Meeting date	08-Feb	16-Feb (extraordinary)	08-March	12-Apr
Agenda items	• Work-Off Plan decision DAG ToR Review • Change Contrl • Design Authority update	• Work-Off Plan decision • Change Control	• Design change management • Change Control • DIP design • Migration design updates	• Design change management • Change Control • Migration design updates
Standing items	• Minutes and actions • Programme updates • CCIAG updates • Summary and next steps	• Summary and next steps	• Minutes and actions • Programme updates • CCIAG updates • Summary and next steps	• Minutes and actions • Programme updates • CCIAG updates • Summary and next steps

Cross-Code Advisory Group (CCAG)

Meeting date	22-Feb	22-Feb	26-Apr	24-May
Agenda items	• Ofgem Code Designation Update • Code Drafting Replan • Consequential Change Code Drafting	• Code drafting activity agenda items as required • Code drafting consultation process as required	• Code drafting activity agenda items as required • Code drafting consultation process as required	• Code drafting activity agenda items as required • Code drafting consultation process as required
Standing items	• Minutes and actions • Programme updates • Horizon scanning log • CDWG update • Code draft reporting	• Minutes and actions • Programme updates • Horizon scanning log • CDWG update • Code draft reporting	• Minutes and actions • Programme updates • Horizon scanning log • CDWG update • Code draft reporting	• Minutes and actions • Programme updates • Horizon scanning log • CDWG update • Code draft reporting

Testing and Migration Advisory Group (TMAG)

Meeting date	15-Feb	28-Feb (extraordinary)	15-Mar	19-Apr
Agenda items	• Test Data Approach and Plan Approval • Data Assessment Report part 1 approval • Environments Approach and Plan review • NFTWG mobilisation	• Data Assessment Report for approval	• Test Data Approach and Plan • Review of E2E Testing & Integration Strategy (scheduled after the replan and other documents have been baselined)	• Migration, Cutover & Data Strategy approval • CIT & Functional Test Approach and Plans approval • Data Assessment Report part 2 approval • Release and Configuration Management Approach
Standing items	• Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap		• Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap	• Minutes and actions review • Programme updates • Working group report • Next steps and agenda roadmap

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DB Readiness and Delivery Plans

- Of the participants that the PPC is holding bilaterals with, DBT progress is encouraging

- **62** plans were submitted from **75** responses in Replan R3 and the template plans have been seen as useful

- **Next steps:** PPC to continue asking questions around DBT progress in bilaterals

SIT Readiness

- Of the **75** responses to the Replan R3, **24** have volunteered for SIT and **27** are interested in doing so. .

- The PPC Team are working closely with participants and their software providers to ensure that they are aligned on SIT timelines.

- **Next steps:** PPC team to continue to identify ask about SIT in bilaterals and work with Testing team to communicate the benefits of SIT to participants
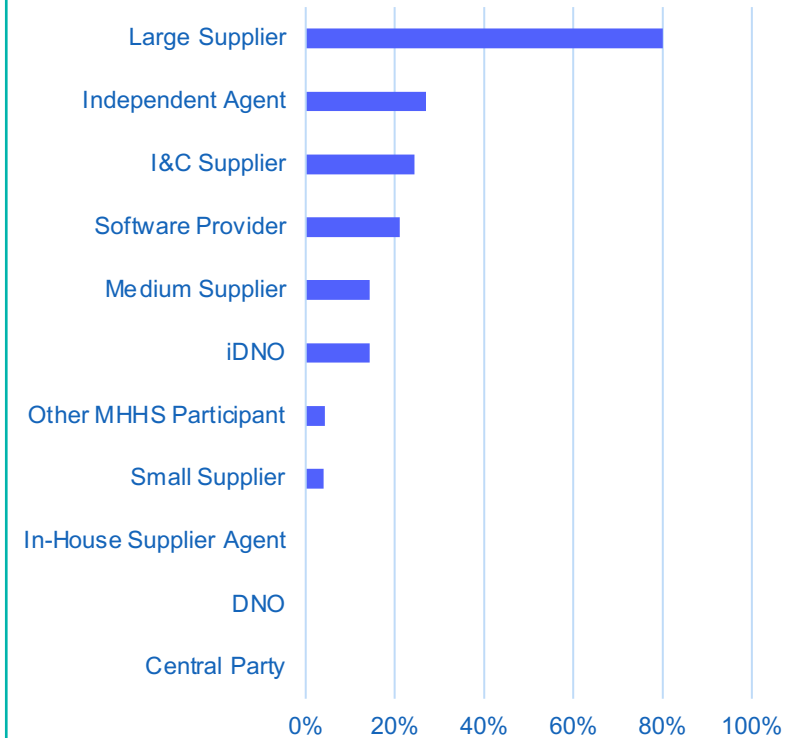
Communications channels

- Dates for next webinar have been set: SIT Benefits webinar (**23 Feb**) and, Introduction to DIP Provider webinar (**28 Feb**).

- So far both webinars appear to be popular with **88** and **119** sign ups for each respectively.

- The Collaboration Base team undertook an activity to remove inactive EI licenses. The team removed a total of **232** inactive E1 licenses after executing the agreed process.

- **Next steps:** Continue to survey participants via webinars and confirm the March/April webinars

Participant Engagement by Constituency

The PPC team held **34** bilateral meetings with Participants this month. The chart below shows the percentage of these Participants in each Constituency that were met.

% Participants met, by Constituency

Constituency	%
Large Supplier	~80%
Independent Agent	~27%
I&C Supplier	~25%
Software Provider	~22%
Medium Supplier	~15%
iDNO	~15%
Other MHHS Participant	~4%
Small Supplier	~4%
In-House Supplier Agent	
DNO	
Central Party	

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Dashboard Objective: To provide PSG with a progress update on in-flight and future planned assurance activities. Assurance themes and agreed actions will be shared with PSG on a quarterly basis with specific Work Package (WP) assurance reports shared in the lead up to key milestones.

Assurance Activities in Progress / Completed during month

Theme-Based Assurance

- *Ongoing Embedded Assurance Activities (WP1) - Monthly cadence of interactions with MHHSP to support embedded assurance - **In Progress - Reviewing assurance Work Packages and timings in line with the Programme Re-plan***

- *MHHS Programme Plan (WP3) - Embedded assurance in programme re-plan activity - **In Progress - IPA interim report shared with the Programme as part of the Round 3 Plan Consultation***

- *Design Documentation (WP4) - Embedded assurance in design activity - **In Progress - IPA report on design work-off plan presented to DAG on 8 February 20223***

- *Assure Conflicts of Interest are mitigated (WP 5) - Terms of Reference for forward assurance activity under development*

Stage-Based Assurance

- *Test Assurance (WP9, 10, 11) - Embedded assurance in testing activity - **In Progress - Terms of Reference for assurance activity under development. Targeted assurance activity underway over design points raised by LDSOs.***

Upcoming Assurance Activities

- *Revision of the Independent Programme Assurance Framework and assurance plan - To be reviewed and updated following baselining of the Programme Re-plan*

Assurance Action Status

- *IPA Actions / Recommendations are being logged and tracked on a weekly basis through the MHHSP Quality Manager*

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers

Status & Outlook

Progress last month:
- MDR Engagement day held with positive feedback
- R0044 Design received from Switching and reviewed by DCC.
- Design work on MP162 initiated

Progress expected in the coming month:
- Final costs presented following FIAs from SP's, relating to Capacity, expected end Feb.

Party Milestones & Deliverables	Original or ~~Baseline~~ Date	Forecast date & RAG
Ofgem approval	25-10-22	28-11-22
MP162 DBT complete	15-05-23	15-05-23
MP162 SIT complete	15-09-23	15-09-23
MP162 MDR UIT Start	17-07-23	17-07-23
MP162 Go-LIVE	20-06-24	20-06-24

Decisions required	From whom?	By when?
None	n/a	n/a

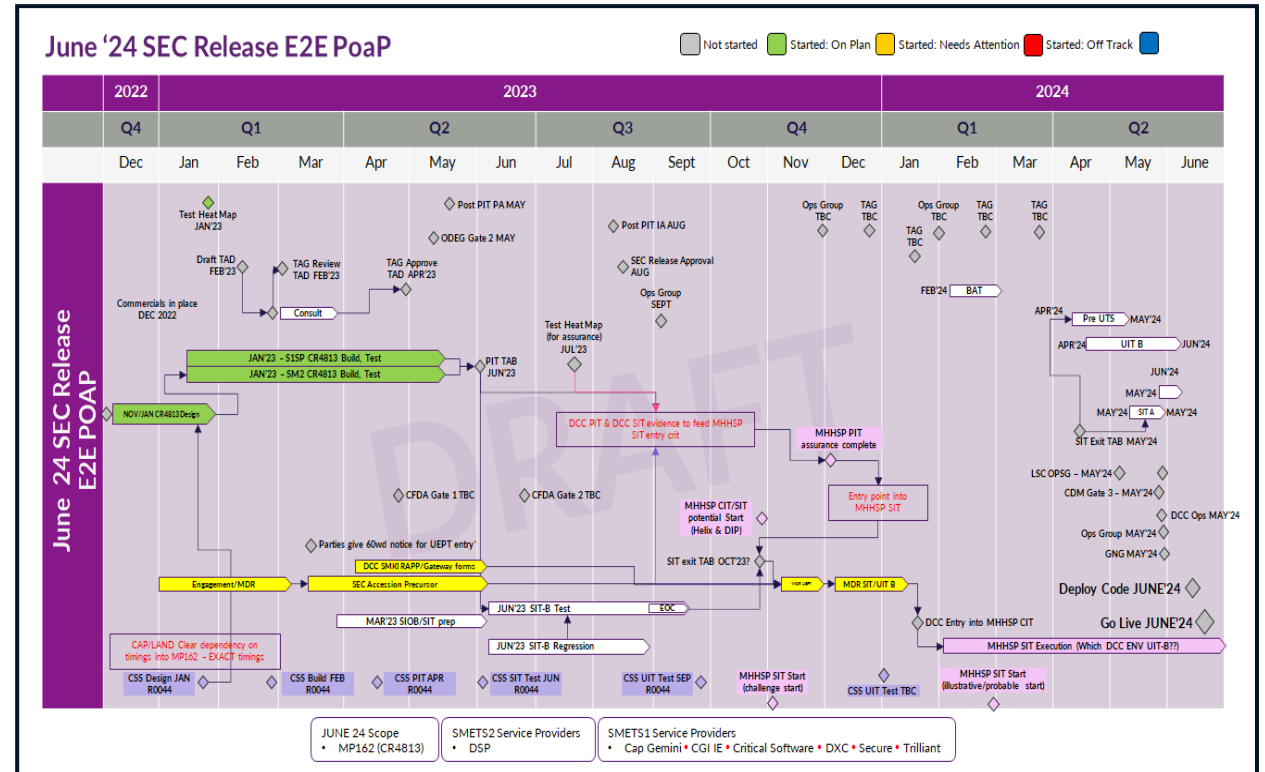| Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Interface Spec from R0044 is not ready for the start of MDR DB-PIT DCC testing.	Monitor, closely, the Landmark and Netcompany delivery of interface spec to ensure agreed milestones are met.	31-01-23 (Complete)	DCC

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
DSP Programme baselines against MP162/MHHS Programme requirements and go-live	Programme changes to be checked back against DSP Programme Assumptions	31-10-23	MHHSP

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
New MDR Party available for UIT testing	Liaise with MHHS Programme on upcoming parties	01-07-23	MHHSP
Switching design RECMOD R0044 is complete	DCC Internal programme liaises with REC Manager for delivery into MHHS	31-01-23 (Complete)	DCC/REC Manager
Registration data design	DCC need visibility and greater clarity on how MDR and SDS registrations will be modelled	31-01-23	MHHSP
UEPT Alignment	SECAS/UEPT processes are aligned and ready to support POAP timings	27-01-23 (Complete)	DCC/SECAS

June '24 SEC Release E2E PoAP

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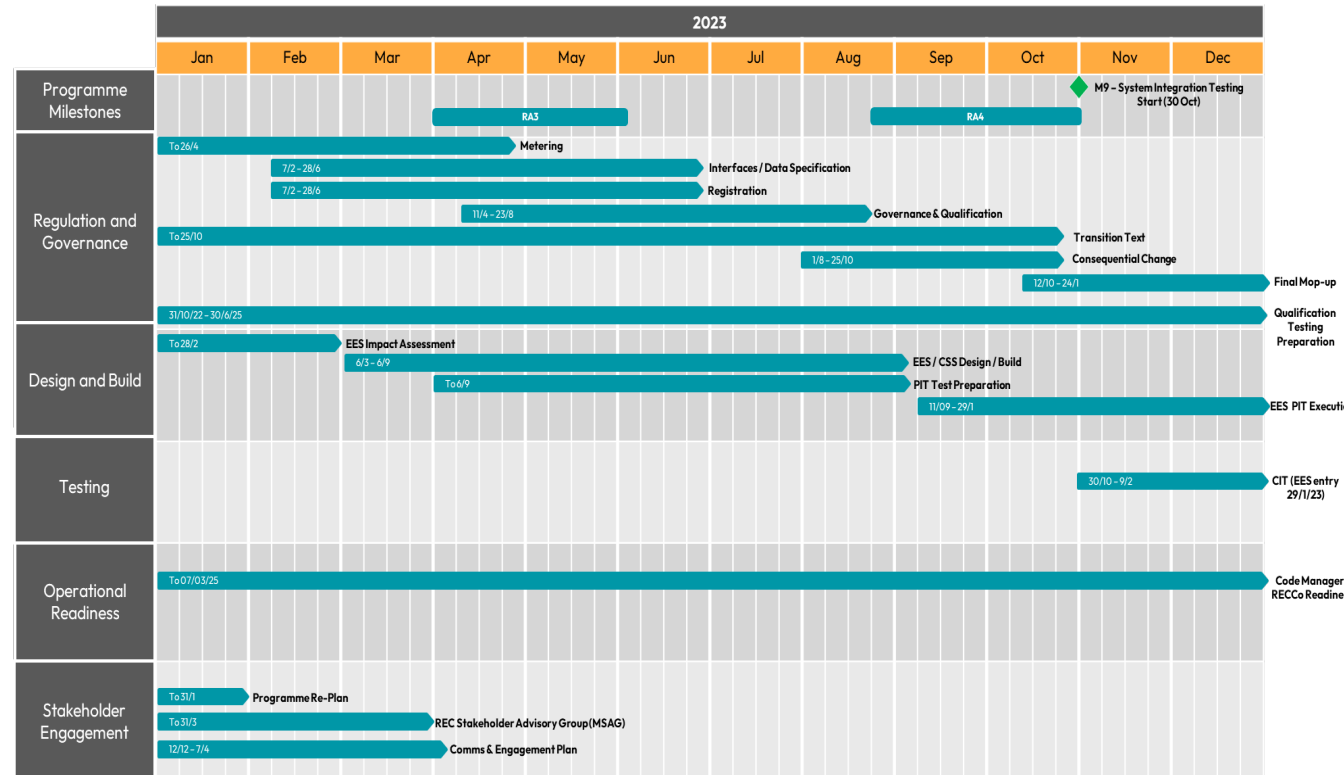| RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers

Status & Outlook

Progress last month:

- Further clarifications and refinement to Detailed impacted assessment from C&C for EES MHHS changes.
- Ongoing engagement with Elexon to agree roles, responsibilities and timescales for market qualification.
- Replan consultation #3 response submitted 30/1.
- Code Drafting:
  - Metering - Code Drafting completed, internal review complete, and issued for Industry Consultation 14/2.

Progress expected in the coming month:

- Ongoing engagement with programme on Qualification / Design work-off plan
- EES Detailed Impact Assessment completion
- Code Drafting:
  - Metering – Complete industry consultation and action comments in readiness for CDWG review
  - Registration – Code Drafting Activities
  - Interfaces / Data Specification – Code Drafting activities

Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
EES DBT Start	01/03/2023	01/03/2023
EES SIT Entry (CIT)	29/01/2024	29/01/2024
Code Drafting Complete	04/04/2024	04/04/2024
Code Drafting Implemented	07/03/2025	07/03/2025
RECCo Readiness	07/03/2025	07/03/2025
GO LIVE	07/03/2025	07/03/2025

Decisions required	From whom?	By when?
None		

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
[Issue] Roles and responsibilities for UIT and Qualification. The prog. has made assumptions that code bodies will be fully responsible for the operation and delivery of the MHHS UIT test phase	Tri-partite meetings established to agree roles and responsibilities. Regular meeting cadence now ongoing to define approach and plan.	February '23	Programme
[Issue] Change to interface code drafting timescales in Round 3 consultation cannot be delivered in proposed timescales.	Issue has been raised with the Programme and detailed in Round 3 consultation response.	February '23	Programme

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Transition Approach and associated design artefacts	Engagement in MDSG and MWG	March '23	Programme
Re-baselining of Programme Plan	Response to Round 3 Replan Consultation	April '23	Programme

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RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers

Status & Outlook

Progress last month:

- Responded to round 3 – re-plan – generally all good but with a few points of contention
- The mid PI solution demo was held with positive feedback from the attendees.
- Team aligning for the next PI planning session on the 27th Feb 23.
- CR 14 submitted, currently LSS items are being reviewed further.
- Submit response to CR 15
- Working through the migration work artefacts
- PAF approach defined and key requirements identified
- BSC Code review – Responded to the received documents within the agreed turnaround time.

Progress expected in the coming month:

- PI 6 Planning session
- PI 6 development
- Complete PI 5
- PAF code drafting and design to progress
- BSC Code review continue with feedback on documents received.
- BSC Code review, respond to consultation.

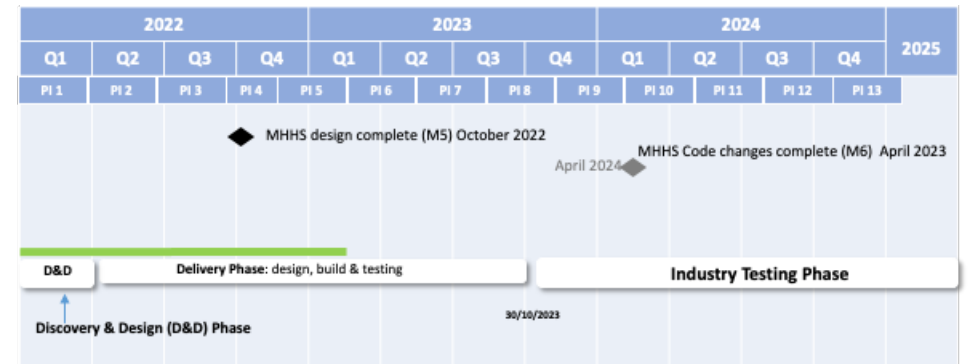| Party Milestones & Deliverables	R3 Target Date	Forecast date & RAG
Programme mobilised	17/01/22	Complete
Discovery & Design phase	22/04/22	Complete
Delivery phase start	20/04/22	Complete
Delivery phase ends (DBT End)	29/09/23	In Progress
Industry phase starts (CI Starts)	30/10/23	Not started
Industry phase ends (SIT End)	07/02/25	Not started
Helix changes go-live (M10)	07/03/25	Not started
Transition phase starts (M11)	04/04/25	Not started
Transition phase ends (M15)	05/10/26	Not started

Decisions required	From whom?	By when?
CR 14 to be approved	MHHS change board.	24/01

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
There is a risk of further change.	Implementation of a MHHS programme change control process when changes are essential	28/02/23	
There is a risk that the revised code documents are produced under pressure to meet a deadline and as a result are of poor quality.	Work with the Code authors to ensure quality documents are produced.	28/02/23	

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
SIT will commence at the end of October.	Re-plan 3, 30 Oct for SIT, once this is agreed then the assumption will be removed.	31/01/23	

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Migration design to be provided as early as possible but is needed for PI 6.	Review the migration design and assess the implications of any previous assumptions.	24/02/2023	
Work off items and CR approved by 24 Feb.	Working with the MHHS Programme to finalise.	26/02/2023	
Transition design artefacts required before PI 6 can commence	Encourage the delivery of the transition design and ensure the impacts are understood. Work on potential contingency plans	24/02/2023	

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MHHS - Monthly Delivery Report [*St Clements*]

Report Date: 20-02-23

Central party delivery
St Clements

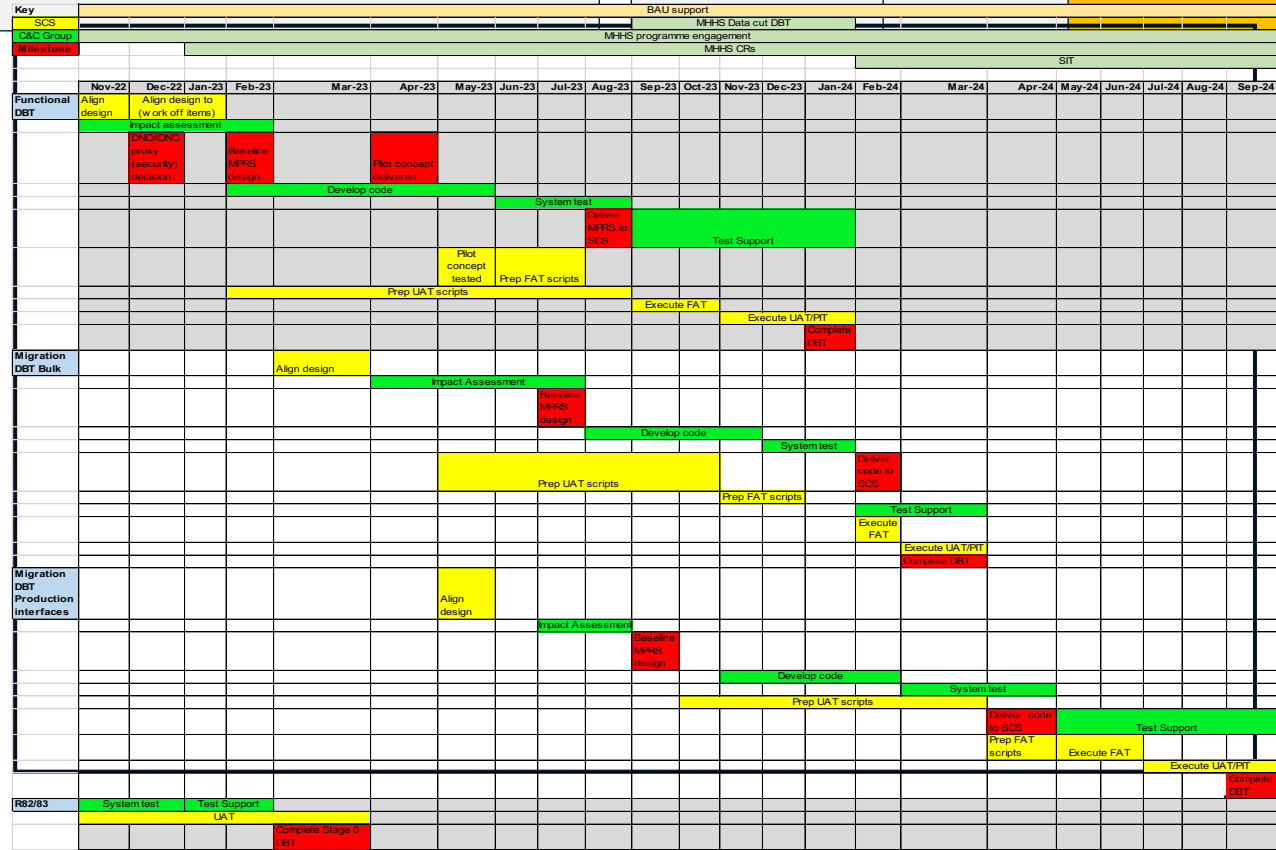| RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers

Status & Outlook

Progress last month:

- Planning discussions with MPRS SSP (C&C Group) and development of waterfall/agile hybrid model
- Providing list of unresolved design issues raised with the programme and liaising with the programme to resolve
- Migration design artefacts reviewed, and comments provided on
- Completed testing of tranche 2 of MPRS stage 0 and started testing of tranche 3
- Further work on MPRS Proof of Concept
- Working with the programme to understand what MPRS functionality is required for CIT

Progress expected in the coming month:

- Complete testing of MPRS stage 0 tranche 3. Require programme to determine how these data items are populated
- Continue developing Impact assessments by SSP
- Develop waterfall/agile hybrid development plan (including with MPRS SSP)
- Follow-up list of DIs raised
- Further develop ideas for MPRS involvement in CIT in conjunction with MHHS Programme

Party Milestones & Deliverables	Original or Baseline Date	Forecast date & RAG
Detailed plans for design and build	31-03-23	31-03-23
Detailed plans for PIT	31-03-23	31-03-23
PIT exit	31-01-24	31-01-24

Decisions required

Decisions required	From whom?	By when?
What is needed for SIT? MPRS or adapter/s	Programme had indicated only adapters are required for CIT but this has changed. Must agree to a workable approach for both the programme and MPRS	28-02-23
24/7 operation	Programme/DNOs to agree approach for next steps	31-01-23

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Work Off Plan contains items that impact MPRS design/delivery (migration)	Work off items impacting MPRS resolved quickly - ongoing	31-03-23	Programme
Assessing impact of migration design and the impact this may have on production interfaces	MPRS design cannot be baselined because migration is not baselined and production interfaces are being used	31-03-23	Programme
MPRS high level plan needs extending following detailed IA	IAs performed during hybrid waterfall/agile delivery approach. Iterative approach will extend the delivery of the full MPRS MHHS release	31-01-24	SCS
Is the role of SCS recognised correctly by the programme?	Programme and SCS to resolve apparent mismatch	30-11-22	Programme/SCS
24/7 operation decision on wider SCS/DNO programme test phases and enduring operation	Do the programme test phases need modifying to reflect the potential change to 24/7 operation?	31-01-23	Programme
Insufficient review time allowed for artefacts (<4 days for WO item)	Rushed reviewing of artefacts could lead to misunderstanding	28-02-23	Programme
Risk of programme CRs which require MPRS development impacting level 1 milestones	Unable to extend scope within existing timelines. Programme to understand this constraint.	Ongoing	Programme

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
MPRS high level plan broadly remains following detailed IA	Detailed IA to complete	30-04-23	SCS
Work off plan items resolved (migration)	Deliver work off items	31-12-22	Programme
Programme governance does not impact MPRS delivery activities	Light touch and targeted approach	30-11-22	Programme

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Dependency on Programme to confirm decisions on above	Prompt responses and decisions required		
Dependency on programme to define	Who, when and how is the process to manage the population of the required data occurring	Before June 2023	Programme

RAGs	Overall	Approach	Plan	Resources	Budget	Risk	Stakeholders	Suppliers

Status & Outlook

Progress last month:

- Signed contract with DIP Service Provider
- Service Provider mobilised all key workstreams::
  - Delivery & Change – team onboarding, planning and project initiation
  - Applications – initial proof of concept work to validate core design, started work on Portal design
  - Infrastructure – Azure DevOps set up, created Landing Zone design and issued for review
  - Security – inputs provided for Landing Zone security design
  - Testing – ways of working and standards defined
  - Service – high level approach to design and service introduction

Progress expected in the coming month:

- Progress across all key workstreams focused on DIP design, including:
  - Delivery & Change – plan baselined, PID approved, work with LDP on DIP Intro Webinar and engagement approach
  - Applications – complete required proof of concept work, provide required inputs for Design Deliverables
  - Infrastructure – create Environment Specification, Bill of Materials and begin drafting Environment Management Plan
  - Security – progress Security Management Plan, provide input required for Code of Connection
  - Testing – prepare Defect Management approach and start work on PIT Test Plan
  - Service – commence Service Design activities

| Party Milestones & Deliverables	Original or ~~Baseline~~ Date	Forecast date & RAG
Contract Signature	21/11/22	20/01/23
DIP 1 – Initialisation	30/01/23	17/02/23
DIP 2 – Design	28/04/23	28/04/23
DIP 3 – Build	11/08/23	11/08/23
DIP 4 – Test (PIT)	27/10/23	27/10/23
M9 – SIT start	01/11/23	01/11/23

Decisions required	From whom?	By when?
None	n/a	n/a

Risk or Issue & RAG	Mitigating or resolving action required	Date for action to be resolved	Action owner
Nothing to escalate			

Assumption & RAG	Action required to remove assumption	Date for action to be resolved	Action Owner
Nothing to escalate			

Dependency & RAG	Managing action required	Date for action to be resolved	Action Owner
Nothing to escalate			
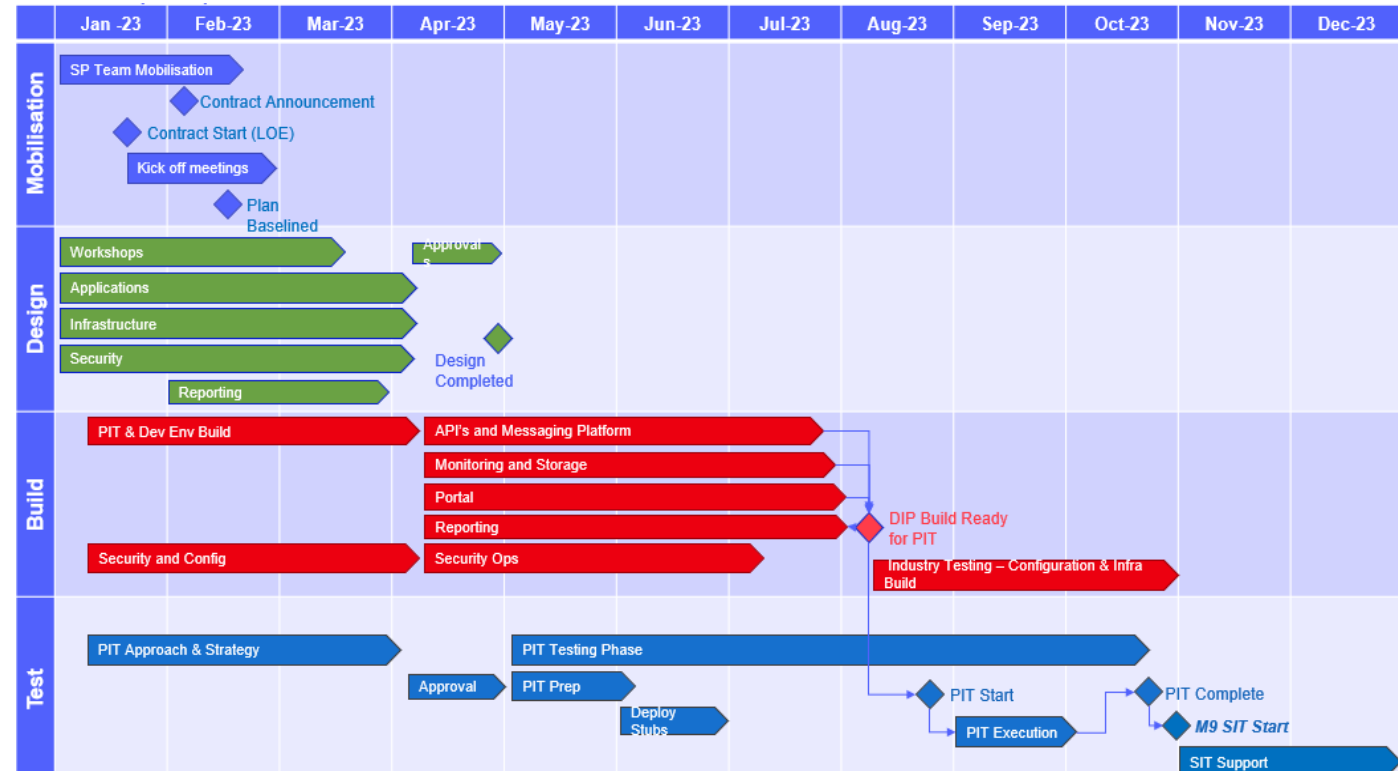
Overarching Costs for MHHS Central Parties FY 22/23

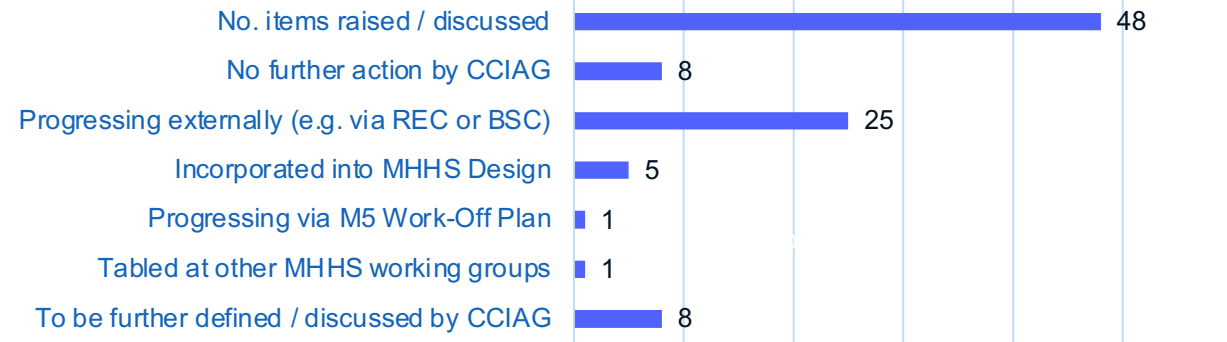| £M	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
MHHS Budget	1.16	1.17	1.21	1.21	1.22	1.64	1.57	1.59	1.58	1.58	1.58	3.96*	**19.47**
MHHS Actual/Forecast	1.03	0.92	1.10	1.09	1.23	1.12	1.44	1.45	0.91	2.61	1.26	5.32*	**19.48**
DCC Budget	0	0	0	0	0	0	0	0	0	0	0.52	0.52	**1.04**
DCC Actual/Forecast	0	0	0	0	0	0	0	0	0	0	0.52	0.52	**1.04**
Helix Budget	1.02	2.01	1.75	1.94	2.13	2.12	2.07	2.21	1.74	1.45	1.36	1.3	**21.1**
Helix Actual/Forecast	0.96	1.98	1.82	1.52	1.95	1.85	2.07	2.21	1.69	1.40	1.45	2.2	**21.1**
RECCo Budget	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	**0.45**
RECCo Actual/Forecast	0	0	0	0.01	0.03	0.02	0.01	0.05	0.03	0.08	0.08	0.08	**0.39**
Total Budget	**2.24**	**3.24**	**3.02**	**3.18**	**3.38**	**3.79**	**3.67**	**3.83**	**3.35**	**3.06**	**3.49**	**5.81**	**40.76**
Total Forecast/Actual	**1.99**	**2.90**	**2.92**	**2.62**	**3.21**	**2.99**	**3.52**	**3.71**	**2.63**	**4.09**	**3.31**	**10.12**	**39.81**

Please note:
- * : Includes contingency
- RECCo and DCC costs include only 3rd party costs (do not include internal resources)
- DCC data subject change alongside MP162 progression

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Document Classification: Public

52

Consequential change: Summarises activity at the Consequential Change Impact Assessment Group (CCIAG)

CCIAG metrics

The following graph summarises the status of consequential change topic under discussion at the CCIAG:

Category	Value
No. items raised / discussed	48
No further action by CCIAG	8
Progressing externally (e.g. via REC or BSC)	25
Incorporated into MHHS Design	5
Progressing via M5 Work-Off Plan	1
Tabled at other MHHS working groups	1
To be further defined / discussed by CCIAG	8

The latest CCIAG meeting papers and headline reports can be found here.
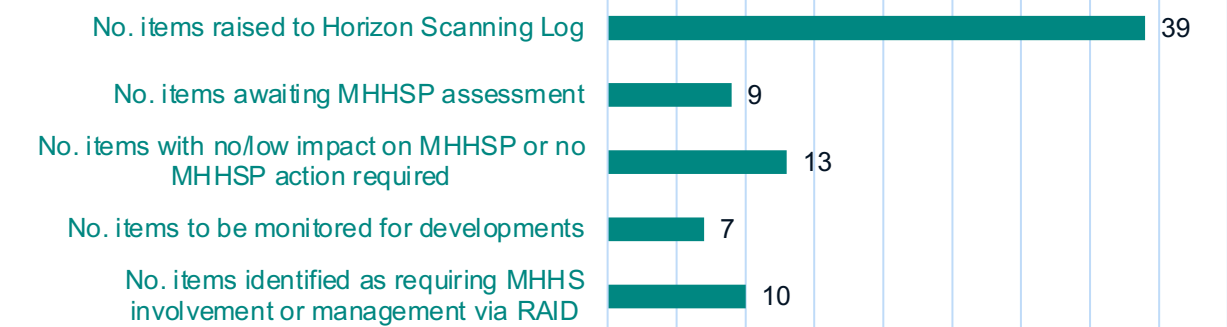
Updates from CCIAG
The deadline for the submission of items to be considered for inclusion in consequential change code drafting closed 31 January 2023. A significant number of new items were raised before the deadline, and the Consequential Change Log has now grown to a total of 48 items. Each item has been reviewed with Code Bodies for a decision on whether the item is believed to required consequential change code drafting, and the log now indicates where this is the case and records the Code Body who warrants that a given item is required to deliver MHHS and would require a standalone code change otherwise. Where solution development is required, this will be undertaken under the respective code's change development processes and the agreed solution then incorporated into MHHS code drafting. The Code Drafting Working Group will consult on all code drafting, and Code Bodies are expected to consult participants on any solutions developed. The list of consequential change code drafting items will be finalised at the CCIAG to be held 23 February 2023.

Magnitude of items
No matters have yet been raised which require significant change to MHHS Design Artefacts. Most items agreed for inclusion within the MHHS core design or CCAG-led code drafting relate to REC supplier-related processes.

Industry horizon scanning: Summarise items monitored via the Cross-Code Advisory Group (CCAG) horizon scanning process

The following graph summarises items being monitored via the Programme's horizon scanning process

Category	Value
No. items raised to Horizon Scanning Log	39
No. items awaiting MHHSP assessment	9
No. items with no/low impact on MHHSP or no MHHSP action required	13
No. items to be monitored for developments	7
No. items identified as requiring MHHS involvement or management via RAID	10

More information can be found via the CCAG meeting papers

Horizon Scanning Process
The CCAG collaborate to populate the Horizon Scanning Log and the Programme undertakes impact assessment of each change. Where a change requires actions by the Programme beyond simple monitoring or initial definition, this is entered into the Programme RAID framework with an appropriate action plan and owner put in place.

Industry code changes: 34 – REC: 14, BSC: 8, SEC: 4, DCUSA: 7, CUSC: 1

Wider industry changes: 5 – HH opt-out, DUoS SCR, code review, microbusiness def

Criticality of horizon scanning items – High: **4**, Medium to High: **3**, Medium: **3**, Low: **13**

Top RAID linked items:
- **SEC MP162** (R0011, R0083, R0113, R0115, R0116, R051, R0182, R0191, D0076, D0077)
- **BSC CP1558** (R0200, D0068) • **REC R0032** (D0068, D0069) • **REC R0044** (D0055)

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Summary and next steps

INFORMATION: Summarise actions and decisions.
Look ahead to next meeting

Chair and Secretariat

5 mins

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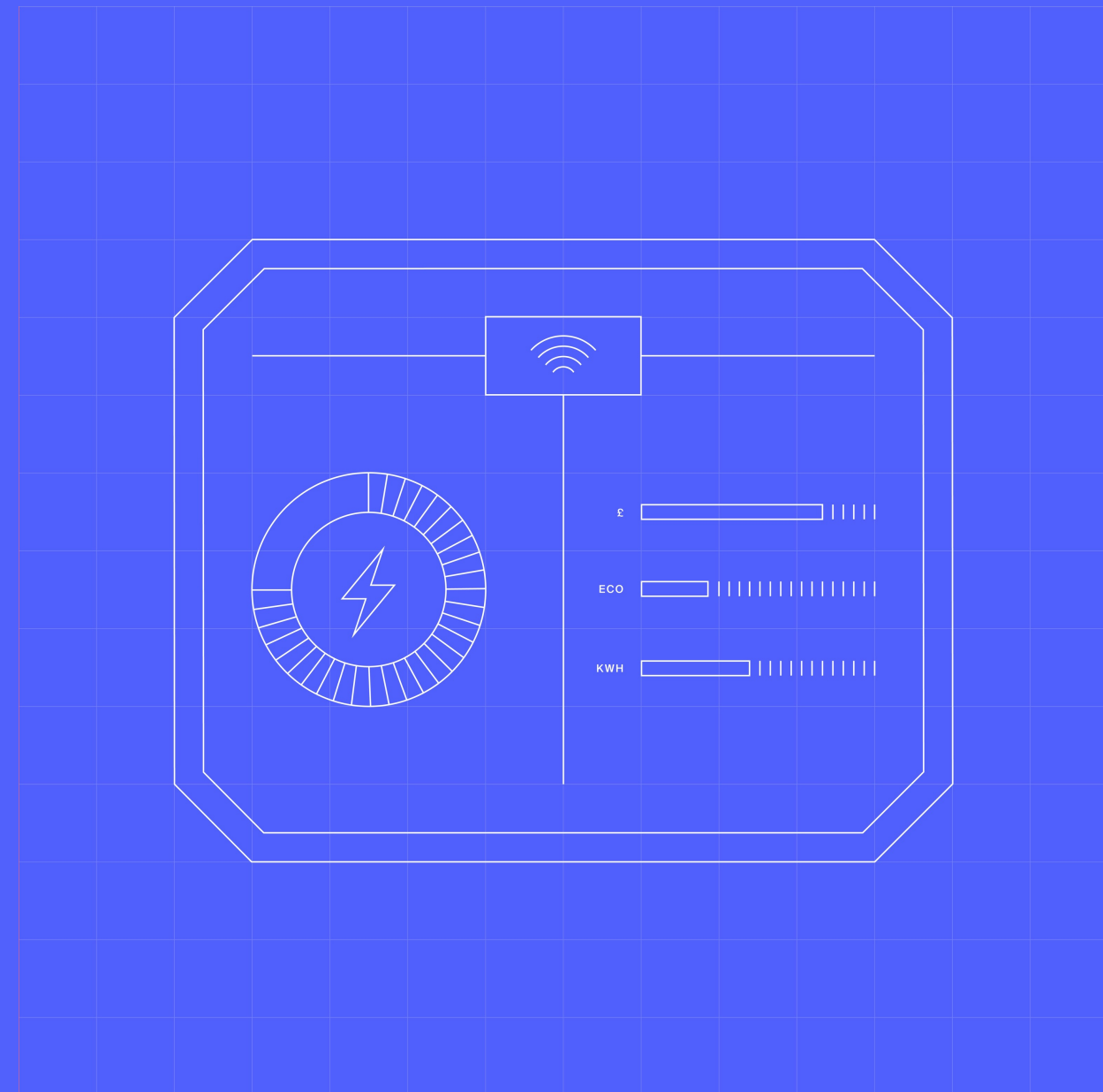
1. **Confirm actions and decisions from meeting**

2. **Date of next PSG: 05 April 2023 10:00 - 12:00**

Main agenda items	Standing items
• Programme replan • M9/SIT outlook and next steps • M11 outlook, including qualification testing update from Elexon	• Minutes and action review • Sponsor update • Delivery dashboards • Summary and next steps

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