



**MHHS
PROGRAMME**
Industry-led, Elexon facilitated

Programme Steering Group #8

08 June 2022

Version 1.1

MHHS-DEL435

Document Classification: Public

Agenda

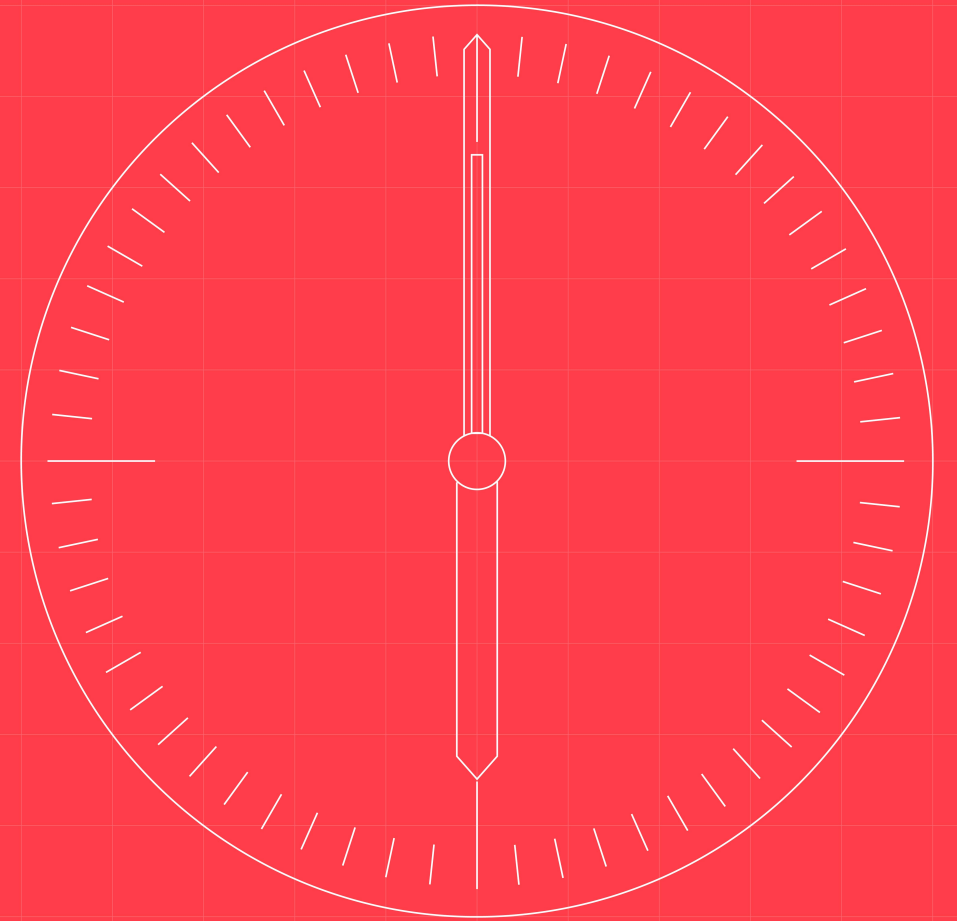
| # | Item | Objective | Type | Lead | Time | Page |
|----|---|---|-------------------------|--|-------------------------------|------|
| 1 | Welcome | | | Chair | 14:00-14:05 <i>5 mins</i> | |
| 2 | Minutes and Actions Review | Approve April minutes. Update on open actions, closing where appropriate | Decision | Chair and Secretariat | 14:05-14:10 <i>5 mins</i> | 3 |
| 3 | Programme Planning | <ul style="list-style-type: none"> Update on the next steps for Programme re-plan, including the status on volunteers Present the Programme interim plan | Information | Programme (Keith Clark) | 14:10-14:20 <i>10 mins</i> | 6 |
| 4 | Design Risk Deep-Dive | Review design risks (action PSG07-06) | Discussion | Programme (Warren Fulton) | 14:20-14:30 <i>10 mins</i> | 11 |
| 5 | Design Decisions | Discuss Design process concerns raised following May Design Advisory Group (DAG) | Discussion | Large Supplier Rep (Graham Wood) | 14:30-14:40 <i>10 mins</i> | 13 |
| 6 | Mobilisation and M3 | <ul style="list-style-type: none"> Hear feedback from PSG Constituency Reps on action PSG07-04. Discuss the Constituency Rep role in supporting constituency mobilisation Raise CR007 for impact assessment (action PSG07-06) | Discussion Decision | PSG Constituency Reps Programme (Jason Brogden) | 14:40-14:55 <i>15 mins</i> | 14 |
| 7 | Decision on CR008 | Review outputs of Impact Assessment for CR008 (RECCo Governance Framework changes). Make a decision to accept or reject the Change Request | Decision | Chair | 14:55-15:05 <i>10 mins</i> | 17 |
| 8 | Independent Programme Assurer updates | <ul style="list-style-type: none"> Approve the MHHS Independent Programme Assurance Framework (IPAF) Provide an overview of the IPA approach to Baseline Assurance Health Checks | Decision Information | IPA (Richard Shilton) | 15:05-15:15 <i>10 mins</i> | 20 |
| 9 | Programme Outcomes and KPIs | Present the approach to Programme Outcomes and KPIs to support benefits realisation (action PSG07-06) | Information | Programme (Jason Brogden) | 15:15-15:25 <i>10 mins</i> | 23 |
| 10 | Overview of E2E Testing and Integration Strategy | Present the E2E Testing and Integration Strategy, focussing on participant expectations and test phases (action PSG 07-06) | Information | Programme (Kate Goodman) | 15:25-15:35 <i>10 mins</i> | 28 |
| 11 | Programme Dashboards | Take questions from PSG members on Programme dashboards | Information | Chair | 15:35-15:45 <i>10 mins</i> | 34 |
| 12 | Summary and next steps | Summarise actions and decisions. Look forwards to July's PSG. | Information | Chair and Secretariat | 15:45-15:50 <i>5 mins</i> | 45 |
| | Appendix | Further Change Control detail including outputs of the internal review (action PSG05.1-02) | | | | 48 |
| | Attachments | <ol style="list-style-type: none"> Attachment 1 MHHS-DEL428 CR007 - Proposal to change M3 v1 270522 Attachment 2 MHHS-DEL385 Benefits Realisation Plan v0.6 | | | | |

Minutes and Actions Review

Objective: Approve April minutes. Update on open actions, closing where appropriate (DECISION)

Chair and Secretariat

5 mins



Minutes and Actions Review (1 of 2)

1. **Approval of Minutes** from PSG 04 May ([PSG Meeting Minutes – 04 May 2022](#))
2. **Open Actions and Actions from PSG 04 May 2022**
 - Actions will be discussed by exception. Please review the action updates ahead of the meeting

| Ref | Date | Action | Owner | Due Date | Status | Latest update |
|------------|------------|--|-----------------------------|---|------------------|---|
| PSG01-06 | 10/11/2021 | Programme to provide a more detailed understanding of the transition plan to programme participants. | Programme PMO | Q2 2022 (part of rebaselining exercise) | Open - ongoing | Information to be provided as part of full mobilisation and the rebaselining activities. The Programme is continuing to engage Programme Participants on the plan. This action will remain open until the re-plan. |
| PSG05.1-02 | 11/03/2022 | Review the Change Control process (e.g., Change Request form, Impact Assessment requirements, Change Board) using this first Change Request experience as a means of gathering feedback. Gain PSG member views as part of review process | Programme (SRO) | 04/05/2022 | Recommend Closed | Internal review completed, including incorporating feedback received through the CR001 and CR002 process. This is detailed in the meeting pack appendix. Updated documentation is to be published on the MHHS Website. Further updates will continue to be made as part of the Programme's continuous improvement processes. The Programme welcomes further feedback. |
| PSG06-05 | 06/04/2022 | Work with DCC, Elexon and RECCo to bring monthly finance reporting to PSG. Include a month-by-month view, how budgets change with Programme changes (e.g., new CRs), and budget performance against plan | Programme (Chris W) | 08/06/2022 | Recommend closed | Added to 08 June PSG dashboards |
| PSG06-06 | 06/04/2022 | Continue to improve the PSG dashboards | Programme (PSG leads) | 04/05/2022 | Recommend closed | Limited dashboard feedback received in May PSG. Dashboards will continue to be improved through Programme continuous improvement processes. |
| PSG07-01 | 04/05/2022 | Communicate M5 Acceptance Criteria to Programme Participants | Programme | 01/06/2022 | Recommend closed | M5 Acceptance Criteria will be communicated via the Design Advisory Group and shared subsequently to the PSG |
| PSG07-02 | 04/05/2022 | Speak offline regarding I&C engagement and forums to be established following learnings from RA1 | Andrew Margan, Gareth Evans | 01/06/2022 | Closed | Discussion held. GE has provided feedback to the PPC on how to structure the I&C session |

Minutes and Actions Review (2 of 2)

| Ref | Date | Action | Owner | Due Date | Status | Latest update |
|----------|------------|--|--------------------------------|------------|------------------|---|
| PSG07-03 | 04/05/2022 | Provide a definition of mobilisation to inform PPs on expectations ahead of DBT | Programme | 01/06/2022 | Recommend closed | To be discussed in 08 June PSG under agenda item on mobilisation and M3 |
| PSG07-04 | 04/05/2022 | Provide bullet points to the PMO on any additional support requested (above that already provided) by constituency members from the Programme that would further enable mobilisation and ensure Programme Participants are ready for their DBT | PSG Constituency Reps | 08/06/2022 | Open - ongoing | To be discussed in 08 June PSG under agenda item on mobilisation and M3 |
| PSG07-05 | 04/05/2022 | Action the decision PSG-DEC11 including updating the MHHS Programme Governance Framework | Programme (PMO, Jason Brogden) | 01/06/2022 | Recommend closed | Updated version of MHHS Governance Framework has now been uploaded to the MHHS website. This includes updates from CR004, CR005 and CR006 |
| PSG07-06 | 04/05/2022 | Add the following items to the agenda for June PSG: -Design risk deep dive -Programme outcomes and KPIs -Definition of mobilisation -E2E T&I strategy | Programme (PMO) | 01/06/2022 | Closed | Agenda items added |

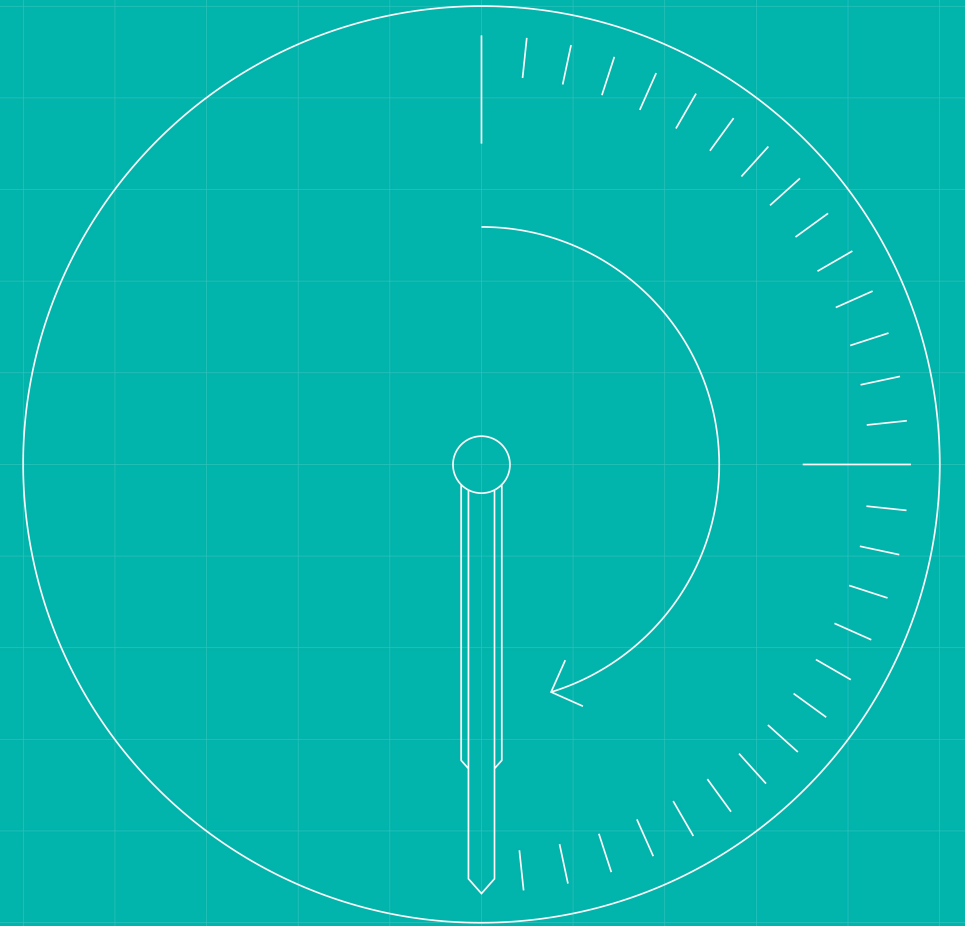
Programme Planning

Objectives:

- Update on the next steps for Programme re-plan, including the status on volunteers (INFORMATION)
- Present the Programme interim plan (INFORMATION)

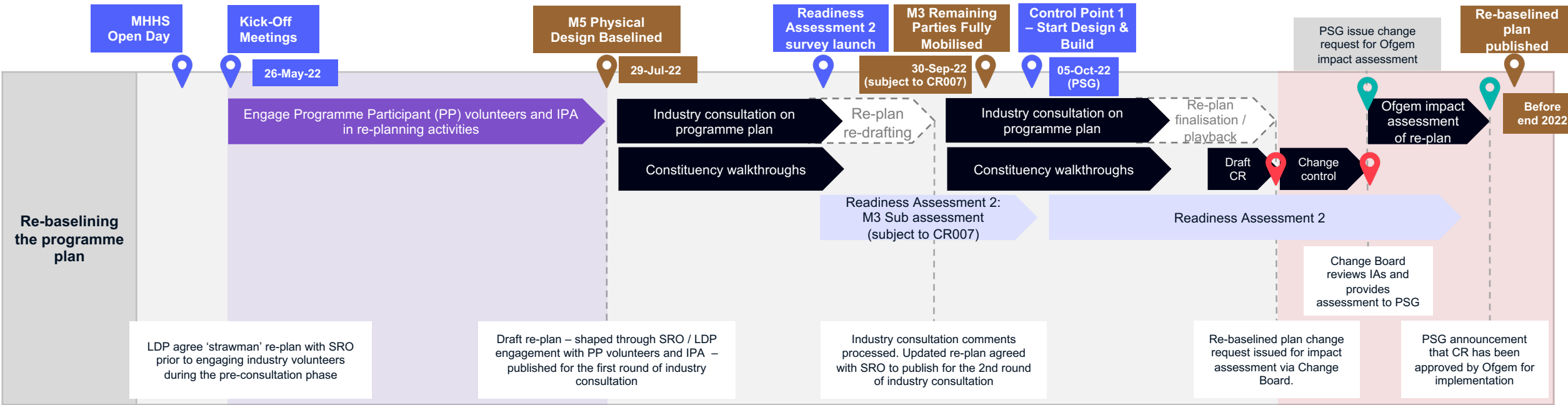
Keith Clark

10 mins



Approach to delivering the re-baselined plan

📍 Key points
 📍 Milestones
 📍 Change Board
 📍 PSG



- Between late-May and the end of July (M5), volunteers from industry will be engaged in a re-plan pre-consultation period where they will be given the opportunity to provide early input to the Programme Re-plan drafting process.
- Volunteers will be assigned – by agreement with the SRO – to one of two tracks, determined by the individual’s role within their organisation:
 - Track 1: Planning Working Groups**
 - Track 2: Planning Show & Tells**
- Kick-Off meetings for both tracks were held on 26-May-22.
- Formal engagement with both tracks will start w/c 6-Jun-22.

- Planning Working Group: Constituency Group Coverage:**
- Central Party: 3
 - DNO: 1
 - iDNO: 0
 - Small Supplier: 0
 - Medium Supplier: 0
 - Large Supplier: 2
 - I&C Supplier: 1
 - Software Provider: 3
 - Supplier Agent: 1
 - Other MHHS Participant: 0
 - Constituency Rep: 0

- Planning ‘Show and Tells’: Constituency Group Coverage:**
- Central Party: 0
 - DNO: 1
 - iDNO: 1
 - Small Supplier: 0
 - Medium Supplier: 1
 - Large Supplier: 7
 - I&C Supplier: 2
 - Software Provider: 1
 - Supplier Agent: 4
 - Other MHHS Participant: 2
 - Constituency Rep: 1

The PMO is working with the IPA and Ofgem to identify options for how the window for Ofgem review and approval of the re-plan CR might be condensed to bring forward the publication date.

Interim plan (1 of 3)

Indicative dates
 Key dates
 PSG
 DAG
 TMAG
 CCAG



Interim plan (3 of 3)

Indicative dates Key dates PSG DAG TMAG CCAG

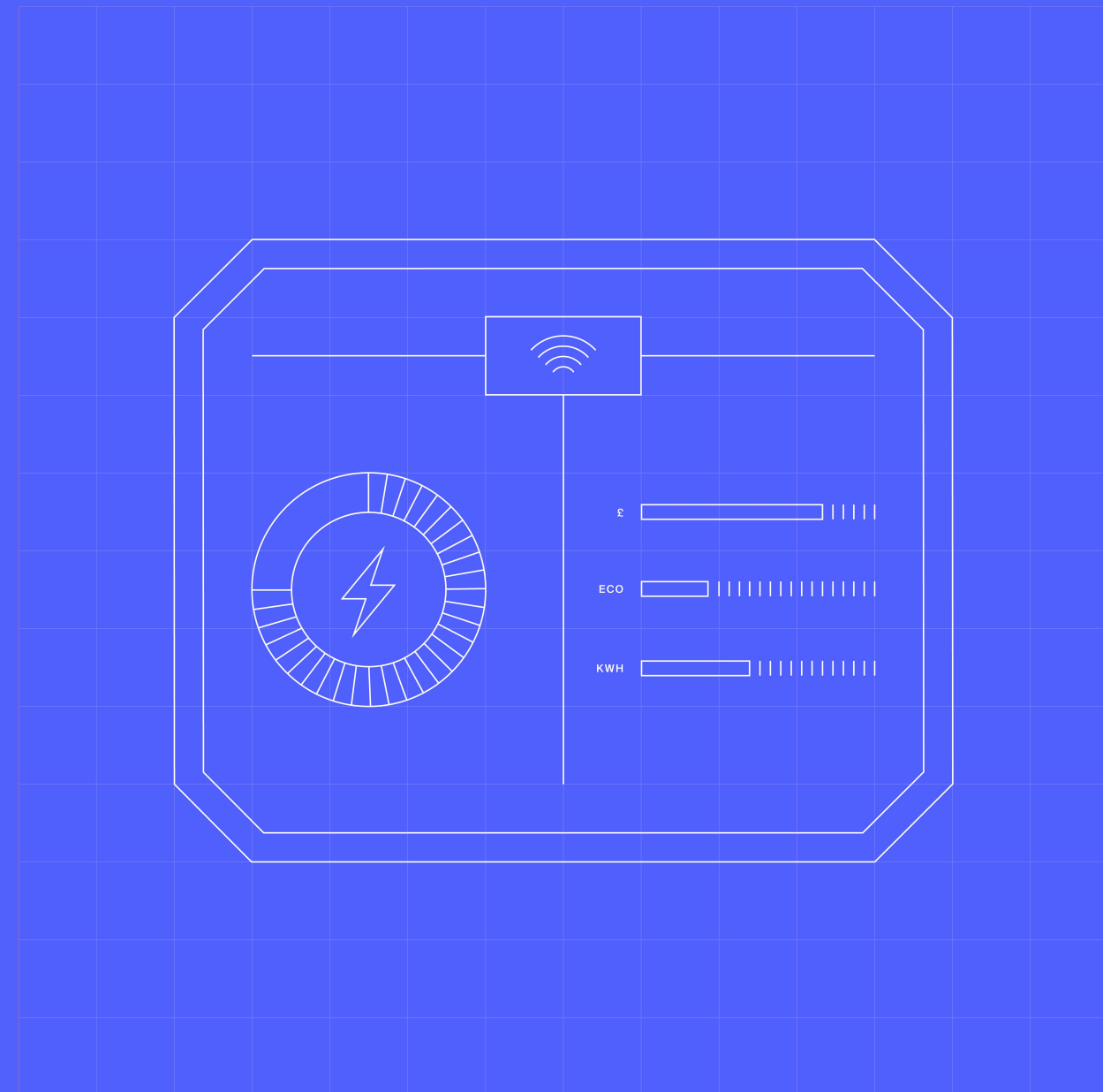


Design Risks Deep-Dive

Objective: Review design risks (action PSG07-06)
(DISCUSSION)

Warren Fulton

10 mins



Design Risks Deep-Dive

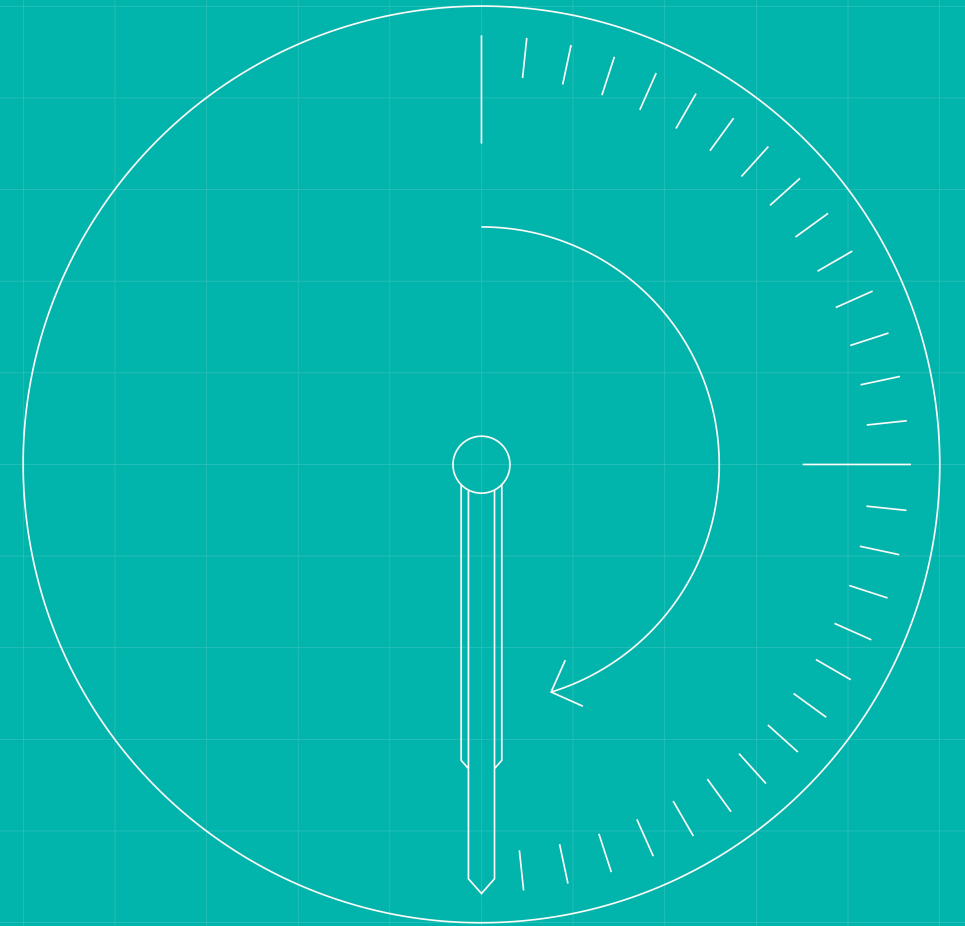
Please review the following design risks alongside the [fortnightly design progress report](#). Design RAID items for discussion:

| Risk | Impact description | Impact | Probability | Mitigation |
|--|---|--------|-------------|--|
| <p># comments generated by Participants cannot be addressed through in time. Tranche 1 and 2 generated 2000 comments. The design schedule was developed on the assumption that most comments would be raised and addressed in the Working Groups prior to the Artefact reviews. The higher than expected number of comments has diverted resources from the development of Tranche 4 (T4) Artefacts and impacted the T4 timeframes.</p> | Milestone 5 target date may not be met (29/7/22) | 5 | 4 | A detailed schedule manages key decisions, working group activities, drafting activities and dependencies per Artefact. The schedule is tracked daily and reviewed weekly and the impact of the comment responses has been incorporated into the schedule. Tranche 3 comment response numbers are currently not excessive, however, there is no contingency for a higher than expected comment response for Tranche 4. A high number of comments for T4 would impact the M5 timelines. |
| <p>Resolution of currently unknown issues in Tranche 4 could cause delays. There are certain areas that are still to be agreed in the Working Groups. Should consensus not be achieved expeditiously, these will impact timelines. Example areas: Settlement Queries/Disputes, Consumption Adjustment, MPAN Enquiry/Data Alignment, MPAN Enquiry, MPAN Enquiry Response, Network Charging</p> | Milestone 5 target date may not be met (29/7/22) | 5 | 4 | A detailed schedule manages key decisions, working group activities, drafting activities and dependencies per Artefact. The schedule is tracked daily and reviewed weekly and any risks / issues will be highlighted accordingly. There is no contingency for T4 should these key areas require multiple cycles of Working Group meetings. |
| <p>Participants not understanding the conditional approval approach and hence uneasy about sign-offs. The conditional approval process was insufficiently communicated prior to the Tranche 1 DAG meeting where conditional approval was sought. Several DAG members raised concerns regarding the process and there is a risk that DAG will not approve future Tranches until their queries are addressed.</p> | Milestone 5 target date may not be met (29/7/22) | 5 | 3 | The baseline governance processes, controls, severity categories and Dashboard have been shared with DAG for their review and feedback. |
| <p>The Design team loses a team member. There are several key person dependencies with specialist and subject matter expertise. Certain resources have been working excessive hours for an extended period of time.</p> | Milestone 5 target date may not be met (29/7/22) | 5 | 3 | The option to introduce additional SME resources was considered, however, it was agreed that introducing new resources at this crucial stage, and with only several weeks until M5, could risk being more of a distraction than value add for the team (due to handover time, support etc). Resources are being focussed on priority areas, and the running of Working Group meetings is being enhanced to focus on the sessions on reaching consensus as early as possible, and reporting dissensus to DAG to avoid multiple meetings discussing the same points. |
| <p>Number of items on the Design Baseline Issue Register. There are currently 32 Baseline Design issues. The issues are being addressed during the remaining tranches (3 proposed closed) and add additional demands on the design resources and timelines to resolve.</p> | Milestone 5 target date may not be met (29/7/22) | 5 | 3 | Agreed and implemented Severity categorisation, with thresholds defining which severities are non-negotiable for M5 baseline, and which can be addressed by means of approved work-off plans. The intention is to agree these severities with DAG and the approach would be to ensure there is sufficient Design content for Participants and Code Bodies to commence post M5 activities whilst the remaining lower severity issues are resolved, under the oversight of DAG. |
| <p>Latter tranches cause rework of earlier tranches. There is the risk that Tranche 4, and the resolution of Design Issues, will require rework in Artefacts already Conditionally Approved. This could result in Artefacts being resent for Participant review and impacting timelines</p> | Milestone 5 target date may not be met (29/7/22) | 5 | 3 | Where Artefacts that have been conditionally approved require subsequent updates, Participants will be requested to only review the updated sections, as opposed to the entire Artefact. This will reduce the effort and time for the Participants and the Programme. |
| <p>The Design Artefacts are not fit for purpose for Participant impact assessment and detail design activities</p> | Participants are unable to start their impact assessment and detailed design activities | 5 | 3 | The Design Artefacts have been written to be consumed by experienced technical personnel and playback support will be provided post M5 to support Participant consumption. The LDP SI are quality assuring the Design Artefacts for End to End completeness and the IPA are undertaking M5 assurance activities. |
| <p>The Design Artefacts are not fit for purpose for Code Drafting</p> | Code Bodies are unable to start code drafting | 5 | 3 | The SME's within the Design Team will be used to undertake the majority of the Code Drafting, and will be able to use their knowledge of the Design to mitigate any potential gaps. To further mitigate this risk, a prototyping exercise is scheduled to test the drafting of regulatory code using a component of the Design. |

Design Decisions

Graham Wood

10 mins



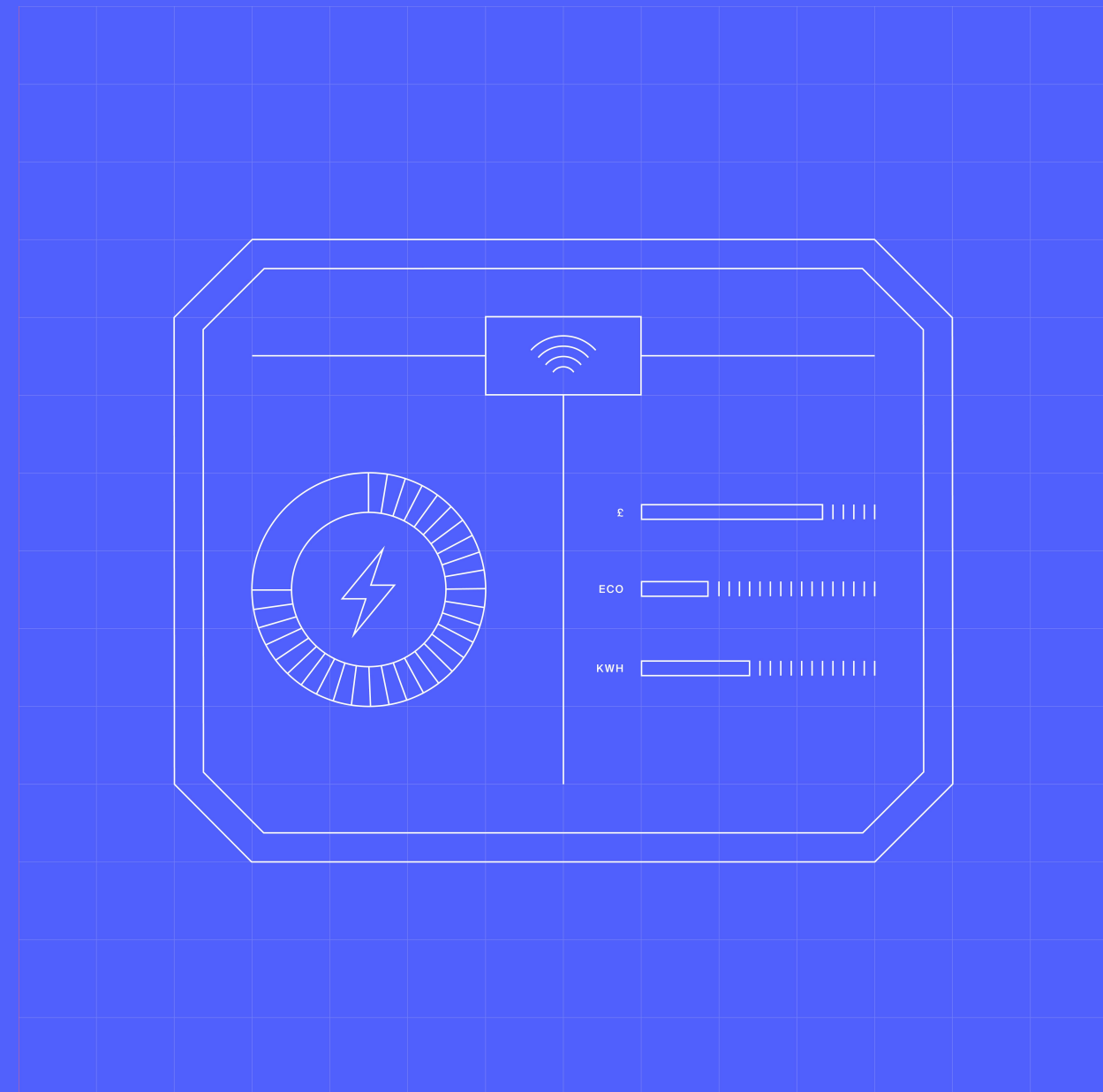
Mobilisation and M3

Objectives:

- Hear feedback from PSG Constituency Reps on action PSG07-04 and discuss the Constituency Rep role in supporting constituency mobilisation (DISCUSSION)
- Raise CR007 for impact assessment (action PSG07-06) (DECISION)

PSG Constituency Reps/Jason Brogden

15 mins



Mobilisation discussion

Relevant action:

| Ref | Date | Action | Owner | Due Date | Status | Latest update |
|----------|------------|--|-----------------------------|------------|-------------------|---|
| PSG07-04 | 04/05/2022 | Provide bullet points to the PMO on any additional support requested (above that already provided) by constituency members from the Programme that would further enable mobilisation and ensure Programme Participants are ready for their DBT | PSG Constituency Reps | 08/06/2022 | Open - ongoing | To be discussed in 08 June PSG under agenda item on mobilisation and M3 |

For discussion:

1. PSG Constituency Rep feedback from their constituencies on action PSG07-04
2. PSG Constituency Rep role in supporting Programme Participants in their constituencies to mobilise – what is the PSG constituency rep role?

CR007 overview

Objective: agree to raise CR007 for impact assessment

Proposals to change M3 for supplier mobilisation to start Design and Build

- **Status:** CR007 was raised to the Change Control process and validated by Change Board on 27-May-22
- **Issue Statement:** The M3 milestone definition in the current MHHS Implementation Transition timetable is as follows: The DB (Design and Build) phase will commence in August 2021 with Elexon's Central System, followed by DCC in Feb 2022 and other parties in May 2022. Change Request CR001 updated the design baseline M5 to July 29th 2022, therefore the May 2022 date for other parties to deliver M3 is unachievable.
- **Description of the change:** The MHHS Programme proposes to:
 - Move M3 to end September 2022 for parties other than Elexon's Central System and DCC. This is in line with the IPA recommendation for Change Request CR001 and is as directed by Ofgem in their decision on CR001
 - Define the conditions required to be met for M3, as requested by members at PSG on 04-May-22
- **Justification of the change:**
 - Ofgem's decision on CR001 stipulated that the MHHS Programme should implement the IPA recommendations on CR001. This included 'Recommendation 2' to include "a milestone following M5 and the subsequent design playback activity in September at which point all Programme Participants would be expected to be fully mobilised for DBT". This Change Request implements that recommendation to move M3 to end Sept 2022 in line with the IPA recommendation and as directed by Ofgem.
 - At completion of M5 (Physical Baseline Delivered), Programme Participants are expected to start their DB activities and therefore some Programme Parties will start the post-M3 activities identified above at that point. The Programme recognises that not all Programme Participants will be able to do this and will need more time. M3 is a checkpoint to ensure Programme Participants unable to commence DB immediately after M5 have been able to mobilise in order to commence their detailed DBT by end Sept 2022 at the latest.
- **Target date by which a decision is required:** 06-Jul-22 at PSG

Change Request Form

Change Request details

| Change Request details | |
|--------------------------------------|--|
| Change Request Title | Proposals to change M3 for supplier mobilisation to start Design and Build |
| Change Request Number | CR007 |
| Originating Advisory / Working Group | Programme Steering Group (PSG) |
| Risk/issue reference | There are several risks and issues in the Programme RAID management framework related to mobilisation. This includes supplier mobilisation, which has been reported to PSG as a key risk theme at previous meetings. The 'supplier mobilisation' risk theme included 10 risks and 2 issues reported to PSG in May. |
| Change Raiser | MHHS Programme |
| Date raised: | |

Form to be read in conjunction with:

| Title | Link |
|---|----------------------|
| Change Request Form Guidance for Programme Participants | Link |
| MHHS Change Control | Link |
| Ofgem's MHHS Transition Timetable | Link |

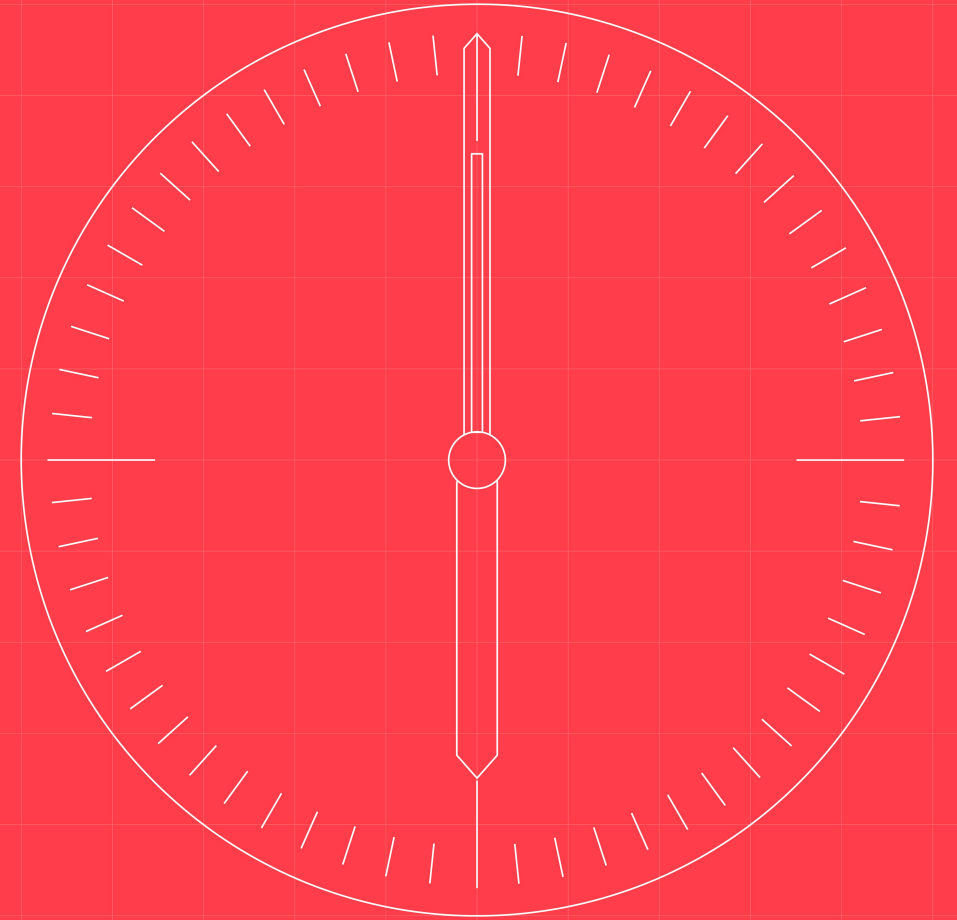
MHHS-DEL428 CR007

Decision on CR008

Objective: Review outputs of Impact Assessment for CR008 (RECCo Governance Framework changes).
Make a decision to accept or reject the Change Request (DECISION)

Chair

10 mins



Headlines

Objective of this session:

PSG to review the outputs of CR008 Impact Assessment and SRO to make a decision to approve or reject the CR.

Headlines:

- **A significant majority of respondents supported the request** to add RECCo as a representative at Programme Steering Group (PSG), Design Advisory Group (DAG) and Testing and Migration Advisory Group (TMAG).
- The overall response rate for CR008 (11%) was lower than the last Impact Assessment for CR005 *Programme Cooperation Principles* in April (19%).
- The majority of responses (**13 out of 18 with 2 abstentions**) **agreed with the change with unqualified support.**
 - One respondent (Large Supplier) stated the change will allow better assessment of risks and issues outside of the MHHS scope and ensure alignment with current and future RECCo processes. This will benefit the programme as it will enable faster and more reliable decision making.
 - One respondent (DNO) considers RECCo as an integral part of MHHS delivery and as such should be fully engaged in the decisions that they will be expected to deliver against.

We are bound to make a decision on the basis of the Change Request that has been raised, but there are opportunities to use Programme Participant feedback to inform future replanning activities if this change is approved.

- **Two respondents** (BUUK Infrastructure and DCC) **supported the change, but highlighted the following considerations:**
 - Greater involvement of essential service providers (such as St Clements Services) that hold an expert role in the provision of MPRS services is essential to MHHS discussions.
 - Clarification is needed regarding the process RECCo will follow in engaging with industry and REC parties to ensure that they are truly representing those stakeholders.
 - Any proposed changes to CSS will need to be impact assessed at a technical level. Whilst the programme is design led, these impact assessments will need to take place at the right time and RECCo involvement in the decision-making arrangements will support this.
- **One respondent (Software Provider) rejected the change by supporting RECCo as a key stakeholder in the programme, but raised concern there is insufficient detail in the Change Request on the impacts to M5 (Physical Baseline Delivered) and how RECCo would support the milestone with late involvement.**

CR008 Submitted Impact Assessments

| Programme Parties | CR005 Recommendations | | | | Market Share* (where applicable) | | | |
|-------------------|-----------------------|----|-----------|-------------|----------------------------------|----|-----------|-------------|
| | Yes | No | Abstained | Not Replied | Yes | No | Abstained | Not Replied |
| Large Suppliers | 3 | - | - | 2 | 59% | - | - | 41% |
| Medium Suppliers | 1 | - | - | 5 | 20% | - | - | 80% |
| Small Suppliers | 1 | - | - | 33 | 0% | - | - | 100% |
| I&C | 3 | - | 1 | 37 | 47% | - | 0% | 53% |
| DNOs | 3 | - | - | 3 | 52% | - | - | 48% |
| iDNOs | 1 | - | - | 12 | | | | |
| Ind. Agents** | - | - | - | 48 | | | | |
| Supplier Agents** | - | - | - | 5 | | | | |
| S/W Providers | - | 1 | - | 1 | | | | |
| National Grid | - | - | - | 1 | | | | |
| Code Bodies | - | - | - | 3 | | | | |
| Consumer | - | - | - | 1 | | | | |
| Elexon (Helix) | 1 | - | - | - | | | | |
| DCC | 1 | - | - | - | | | | |
| SRO / IM & LDP | - | - | 1 | - | | | | |
| IPA | 1 | - | - | - | | | | |

*According to the latest Meter Point Administration Number (MPAN) data held by the Programme. Market Share has not been provided for constituencies where MPAN data is not currently available.

**The classification of Independent and Supplier Agents is maintained by the Programme Party Coordinator and is subject to change.

Rationale for being marked down as 'abstained'

- One respondent declined to formally respond
- One respondent stated CR008 had no impact on their activities and therefore did not formally respond.

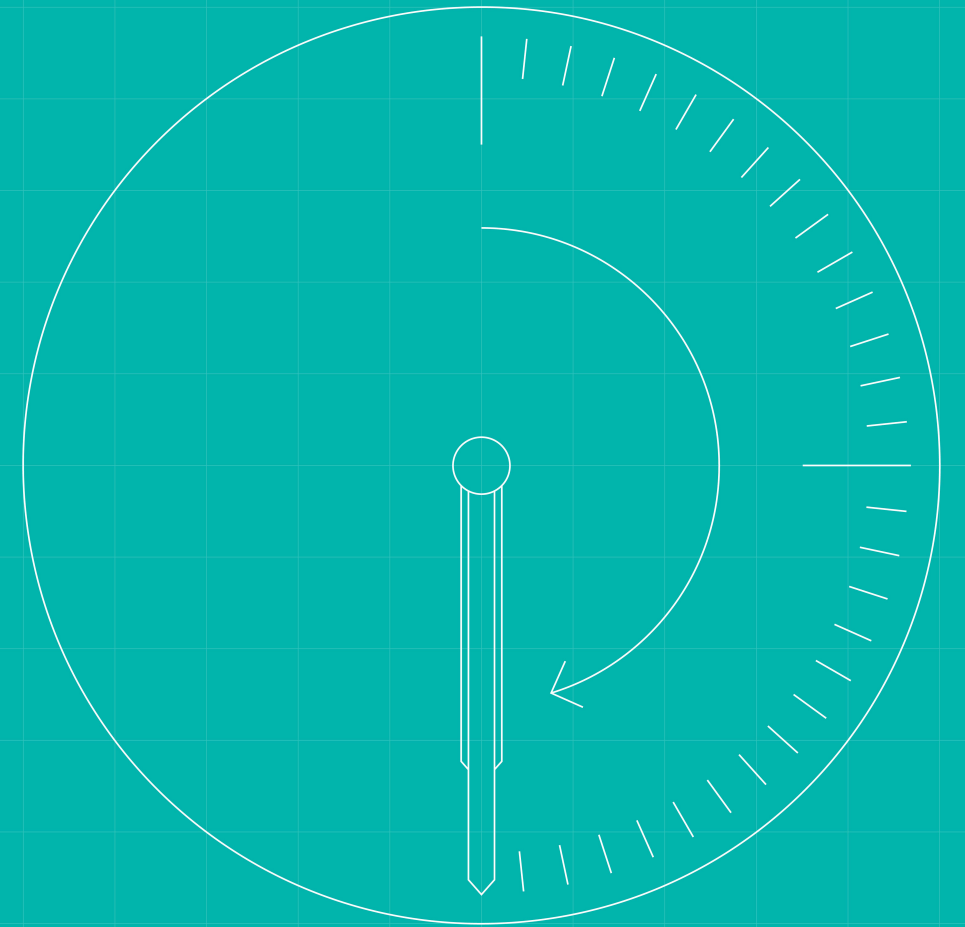
Independent Programme Assurer updates

Objectives:

- Approve the MHHS Independent Programme Assurance Framework (IPAF) (DECISION)
- Provide an overview of the IPA approach to Baseline Assurance Health Checks (INFORMATION)

Richard Shilton

10 mins



The IPA is seeking **approval of the MHHS IPAF** by the PSG on 8 June 2022. The document was shared with PSG members on the 25 May 2022 with the opportunity to provide feedback and comments to the IPA.

- The IPAF sets out the **framework and approach** that the Independent Programme Assurance (IPA) will operate to deliver end-to-end assurance over the MHHS Programme.
- The IPAF has been developed by the IPA in collaboration with the MHHS Programme and Ofgem, and includes the **objective, principles, scope, roles and responsibilities, governance and approach** for IPA activities across the duration of the programme.
- As communicated in the IPA introduction at PSG on 2 March, the approach **combines:**
 - **Theme-Based Assurance** to build trust, transparency and confidence in the ongoing delivery of the programme
 - **Stage-Based Assurance** in the lead up to key milestones and 'Control Points' to support quality decision-making by the programme.

The IPAF can be found [here](#) on the MHHS Website



The objective of the Health Check is to provide an assurance baseline of the end-to-end programme to assess and build confidence that it is set up for success and help inform future assurance activity.

The scope of the Health Check, as captured on the right-hand side, aims to address the original intent of the IPA Work Packages (WP) due to be delivered over the initial phases of the programme prior to programme participant DBT. It has been scoped, delivered and reported as a single assurance review to drive efficiency.

The Health Check fieldwork is currently underway with the final report planned to be shared with PSG at the 3 August 2022 PSG meeting. As part of the fieldwork, we will be seeking to meet with a sample of Programme Parties, who we will notified accordingly.

Baseline Assurance Health Check

Lead: Richard Shilton

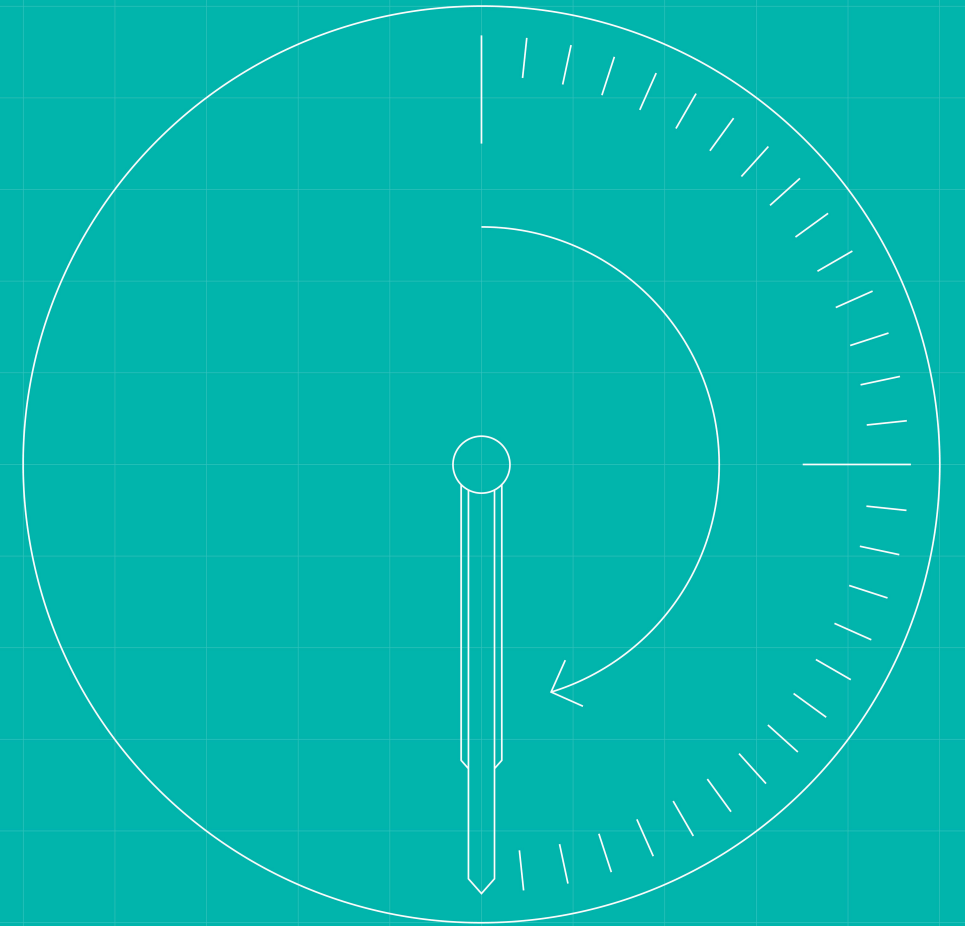
| | Baseline Assurance Health Check Lead: Richard Shilton | | | | |
|-----------------------------------|--|--|---|--|--|
| 1 Scope Area |  <p>Programme Set-up and Engagement Lead: Richard Shilton</p> |  <p>Programme Plan Lead: Steve Mullins</p> |  <p>Design Lead: Colin Bezant</p> |  <p>Conflicts of Interest Lead: Martin Crozier</p> |  <p>Assurance Mapping Lead: Rhiannon Harrison</p> |
| 2 Key Exam Question | Is the end-to-end programme set-up for success with the appropriate forums, engagement mechanisms, processes and resources in place? | Is there a clear plan for all delivery activities between now and the PM2 full plan baseline milestone, including the approach to develop and baseline the overall plan? | Is the end-to-end design clear and robust with appropriate governance and engagement across programme participants? | Are appropriate processes in place to identify and track conflicts of interest between Elexon and the MHHS Programme? | What quality mgmt and assurance activities are embedded in the programme delivery structure and what level of reliance can be placed on these by the IPA going forwards? |
| 3 Associated Work Packages | WP2: Assure Mobilisation WP7: Assure CPF Readiness for D&B | WP3: MHHS Programme Plan | WP4: Design Documentation WP7: Assure CPF Readiness for D&B | WP5: Conflicts of Interest | WP1: Develop and Maintain IPAF WP2: Assure Mobilisation |

Programme Outcomes and KPIs

Objective: Present the approach to Programme Outcomes and KPIs to support benefits realisation (action PSG07-06) (INFORMATION)

Jason Brogden

10 mins



Context, Background and Scope

- In considering how the MHHS Programme realises benefits, we started by looking at the benefits from the Ofgem Business Case and Final Impact Assessment [see Appendix] and identifying what the Programme will deliver to realise these benefits
- As set out in the Appendix, these benefits are generally expected to be realised by industry after the Programme has been successfully completed and the delivery of these benefits will need to be monitored after the Programme, which we expect to be the responsibility of Ofgem
- **The Programme must deliver the outputs, capabilities and outcomes that enable these industry benefits to be realised, and therefore in this document we have focused on identifying when and how these Key Programme Outcomes will be delivered and monitored**
- The LDP is responsible for the delivery, monitoring and reporting of Key Programme Outcomes
- The Programme Initiation Document (PID) sets out the framework and charter for the overall delivery of the Programme and includes the Key Programme Outcomes mapped to Success Criteria and Success Measures, as can be seen in the next slide. The PID establishes 10 Control Points through the Programme to maintain focus on the successful delivery of Key Programme Outcomes
- We have used the 17 Success Measures set out in the PID as our starting point since this is an agreed baseline. We have enhanced these measures, defined how we will demonstrate their achievement and established interim outcomes and monitoring to build confidence of their achievement through the lifetime of the programme
- The measurement of consumer engagement in the Programme is reflected in successful ongoing consumer representation and input into the Programme through Citizens Advice. Direct monitoring of consumer satisfaction is outside the scope of the Programme as an Ofgem responsibility
- This plan will evolve as the Programme progresses and will be subject to iterative development

6

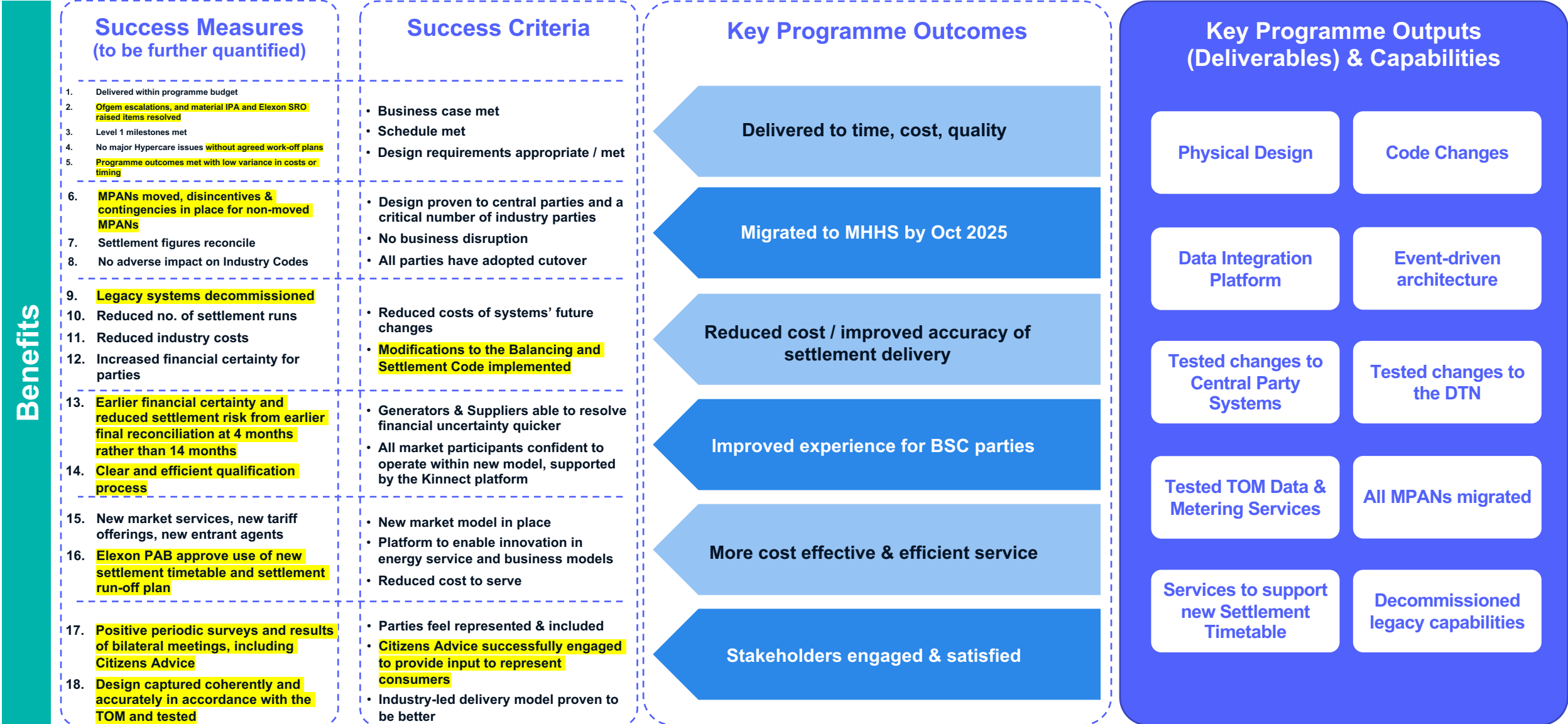
Key Programme Outcomes

17

Success Measures

1

Proposed Additional Success Measure



Benefits

Success Measures (to be further quantified)

1. Delivered within programme budget
2. **Ofgem escalations, and material IPA and Elexon SRO raised items resolved**
3. Level 1 milestones met
4. No major Hypercare issues **without agreed work-off plans**
5. **Programme outcomes met with low variance in costs or timing**
6. **MPANs moved, disincentives & contingencies in place for non-moved MPANs**
7. Settlement figures reconcile
8. No adverse impact on Industry Codes
9. **Legacy systems decommissioned**
10. Reduced no. of settlement runs
11. Reduced industry costs
12. Increased financial certainty for parties
13. **Earlier financial certainty and reduced settlement risk from earlier final reconciliation at 4 months rather than 14 months**
14. **Clear and efficient qualification process**
15. New market services, new tariff offerings, new entrant agents
16. **Elexon PAB approve use of new settlement timetable and settlement run-off plan**
17. **Positive periodic surveys and results of bilateral meetings, including Citizens Advice**
18. **Design captured coherently and accurately in accordance with the TOM and tested**

Success Criteria

- Business case met
- Schedule met
- Design requirements appropriate / met
- Design proven to central parties and a critical number of industry parties
- No business disruption
- All parties have adopted cutover
- Reduced costs of systems' future changes
- **Modifications to the Balancing and Settlement Code implemented**
- Generators & Suppliers able to resolve financial uncertainty quicker
- All market participants confident to operate within new model, supported by the Kinnect platform
- New market model in place
- Platform to enable innovation in energy service and business models
- Reduced cost to serve
- Parties feel represented & included
- **Citizens Advice successfully engaged to provide input to represent consumers**
- Industry-led delivery model proven to be better

Key Programme Outcomes

- Delivered to time, cost, quality
- Migrated to MHHS by Oct 2025
- Reduced cost / improved accuracy of settlement delivery
- Improved experience for BSC parties
- More cost effective & efficient service
- Stakeholders engaged & satisfied

Key Programme Outputs (Deliverables) & Capabilities

- Physical Design
- Code Changes
- Data Integration Platform
- Event-driven architecture
- Tested changes to Central Party Systems
- Tested changes to the DTN
- Tested TOM Data & Metering Services
- All MPANs migrated
- Services to support new Settlement Timetable
- Decommissioned legacy capabilities

- Mapped Success Measures to final Programme Outcome(s) and Deliverables
- Identified interim Programme Outcome(s) and Deliverables that contribute towards the final achievement of each Success Measure
- Considered how the delivery of each Programme Outcome and Deliverable will be measured and monitored, using existing monitoring where it exists and identified new monitoring where it doesn't

| Key Programme Outcome | Success Measure | Quantified Achievement of Success Measure | Final Measurement | Interim Monitoring |
|------------------------------|--|--|-------------------|--|
| Migrated to MHHS by Oct 2025 | 6. MPANS moved, disincentives & contingencies in place for non-moved MPANS | <ul style="list-style-type: none"> • 100% of meter points migrated in line with the Migration Strategy and exit criteria from programme phases • All meter points migrated and operating under the new arrangements (existing programme outcome) | M15 | <ul style="list-style-type: none"> • Migration Strategy, Approach and Plan to outline the criteria for successful completion of migration activities with disincentives and contingencies • Successful completion of Migration Testing to exit criteria (including any Migration Testing in qualification) |
| | 7. Settlement figures reconcile | <ul style="list-style-type: none"> • No material issues exist within Settlement reconciliation (part of existing programme outcome) | M16 | <ul style="list-style-type: none"> • Approach to testing settlement accuracy included in Testing and Migration Strategies, and affected approaches and plans to ensure exit criteria appropriately defined (e.g., from parallel running) |
| | 8. No adverse impact on Industry Codes | <ul style="list-style-type: none"> • No material Code defects at programme exit and all outstanding changes captured in Code Modifications or Change Requests | End of M16 | <ul style="list-style-type: none"> • Monitoring against plan for Code delivery (as per CR003 or re-plan output) • Approval of Code Changes at M6 and implementation at M8 • Any material issues to be raised into RAID for monitoring and resolution |

- Also show this pictorially over time



The following steps are already laid out in the PID and provide the mechanism for managing successful achievement of Programme Outcomes:

- A periodic Programme Strategy Review will be conducted:
 - To happen at each identified Control Point (as a minimum)
 - Will be chaired by MHHS SRO function (Programme Director)
 - To include the IPA and the results of the review will be reported to Ofgem and the PSG
 - Will include a full review of the PID and the associated strategies
- Reporting on the plan for (and progress towards) achievement of Key Programme Outcomes will be provided to the Elexon Board, Ofgem and the PSG

In addition to what is already set out in the PID, as part of the iterative development of the Benefits Realisation Plan, the MHHS Programme will:

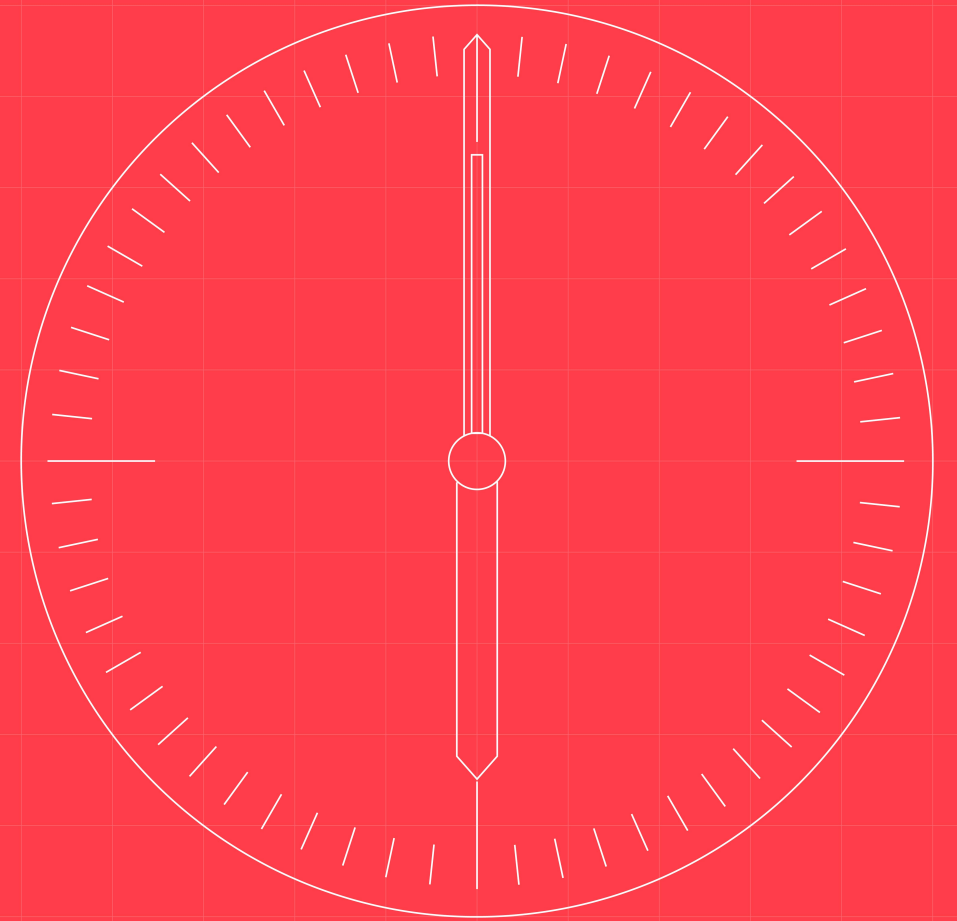
- Include a full review of the milestone acceptance criteria in the strategy review
- Following agreement of this document, update the programme PMO tools and processes, e.g., RAID items, change control form updates to explicitly reference impact on Programme Outcomes, etc. to reflect the Key Programme Outcomes and associated Success Measures
- Ensure measure of Citizens Advice input included in monitoring (not just attendance at meetings)
- Consider how adaptability might be reflected in future programme outcome development as per the success criterion on enabling innovation
- Consider how to track change over the lifetime of the programme and how this might impact programme outcomes
- Consider what interim monitoring might be able to be put in place towards post-go live benefits realisation in Control Points

E2E Testing and Integration Strategy

Objective: Present the E2E Testing and Integration Strategy, focussing on participant expectations and test phases (action PSG 07-06) (INFORMATION)

Kate Goodman

10 mins



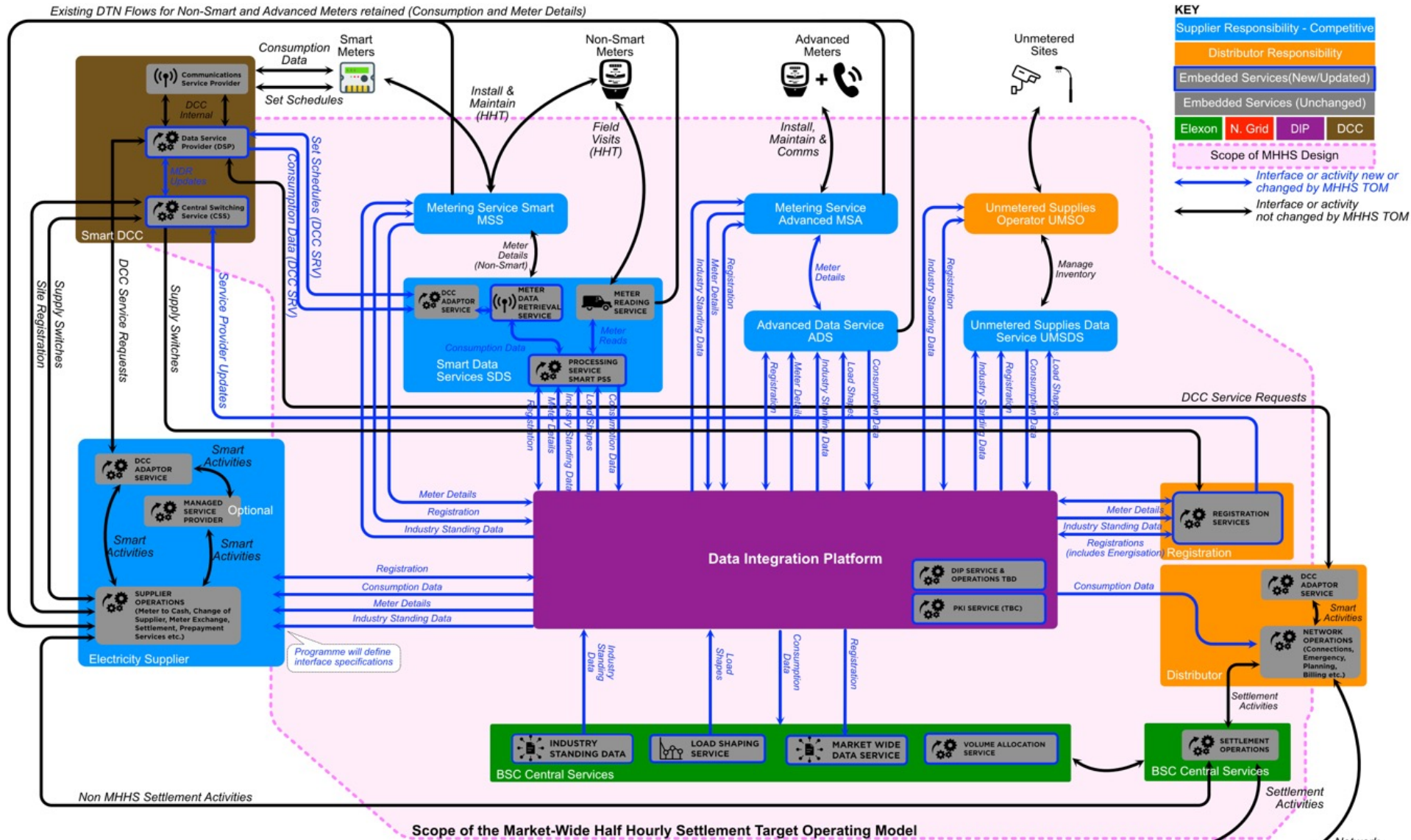
Overview of this section

- The following slides provide an **overview of the E2E Testing and Integration (E2E T&I) Strategy**, focusing on participant expectations and test phases
- All content in **the E2E T&I Strategy has been reviewed and approved through the Testing and Migration Advisory Group (TMAG)**. A review of the Strategy is planned after M5
- **The TMAG has been travelling at pace**, with the Test Data Strategy now signed off and the Environments and Configurations Management Working Group (EWG) shortly being mobilised

TMAG Constituency Representation

- **Some constituencies at TMAG have open seats:**
 - Medium Supplier Representative
 - Small Supplier Representative
 - I&C Supplier Representative
 - National Grid ESO
- We have an **ask for PSG members to help fill these open roles**

Overall Test Scope



Scope of MHHS testing corresponds to the MHHS Design scope and is shown in the light pink shaded area

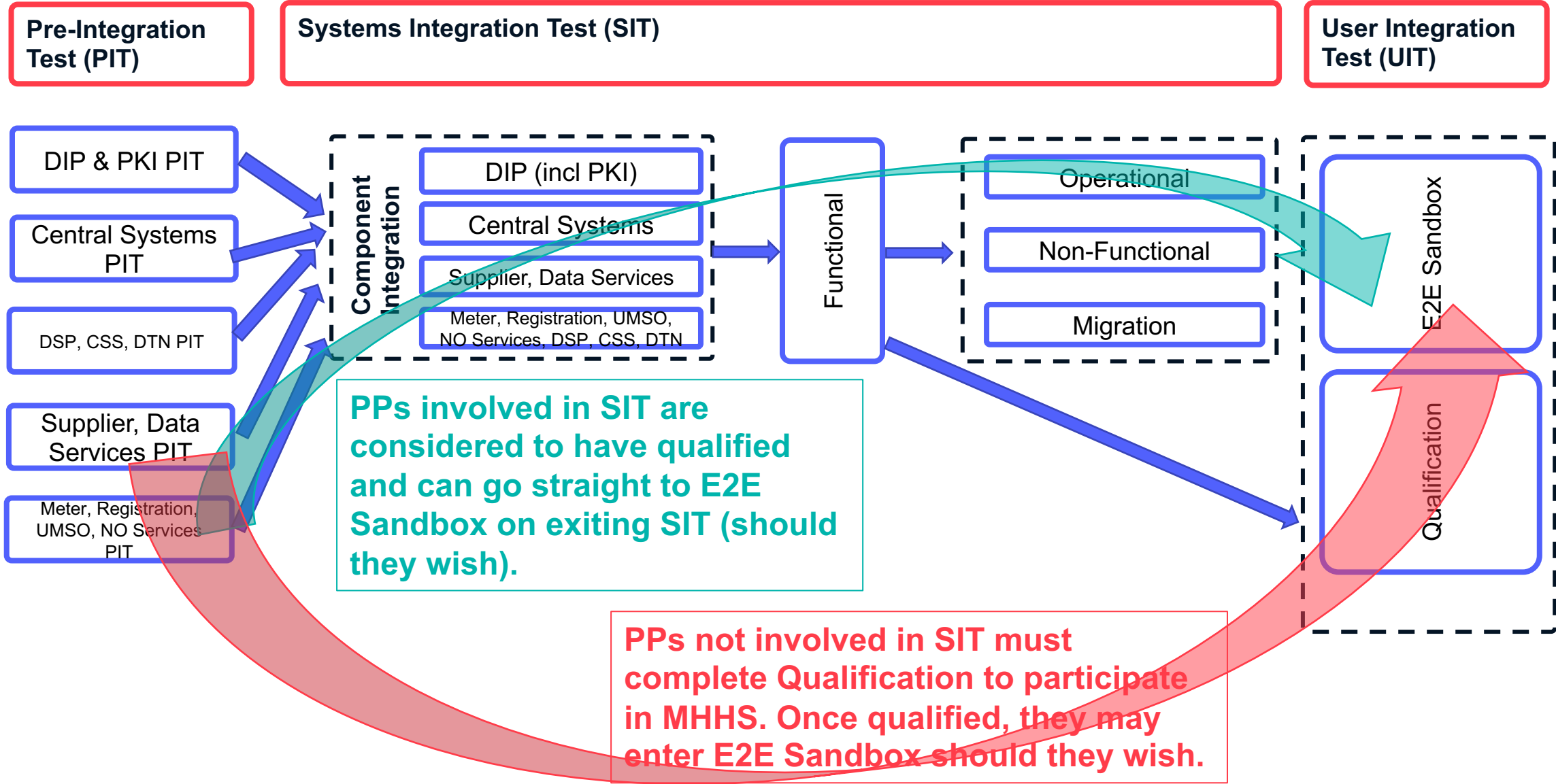
Note that where the scope partially covers a component (eg Network Operations Services), the interfaces to/from that component are within the scope of testing.

MHHS SIT will test the end-to-end function where the systems act together. Verification of the detailed functionality of each component is however not in the scope of MHHS and is the responsibility of the component's service provider.

MHHS Test Phases & Stages

| Phase | Stage | Purpose (verifies that...) | Under test | Involved |
|--------------------------------|--|--|--|----------------------------|
| Pre-Integration Test (PIT) | Pre-Integration | Systems work as designed when running in a standalone manner | PP's own systems | |
| Systems Integration Test (SIT) | <div style="border: 1px dashed black; padding: 5px;"> Component Integration DIP (incl PKI) Central Systems Supplier, Data Services Meter, Registration, UMSO, NO Services, DSP, CSS, DTN </div> | | DIP, Elexon Central Systems, Supplier Services, Data Services, Meter Services, Registration Services, UMSO Service, NO Services, DSP, CSS, DTN | |
| | | | | |
| | | | | |
| | | | | |
| | Functional | Systems support full E2E business processes | | |
| | Operational | Systems support full operational processes | | |
| | Non-Functional | Systems' NF characteristics are as designed | | |
| | Migration | Migration processes give correct business outcome | | |
| User Integration Test (UIT) | Qualification | Systems support requirements for qualification | Supplier, Data, Meter, Registration, UMSO, NO Services | DIP, Elexon, DSP, CSS, DTN |
| | E2E Sandbox | Systems support full business & operational processes | | |

Test Phases & Stages – participant paths and dependencies



Participants in each test stage

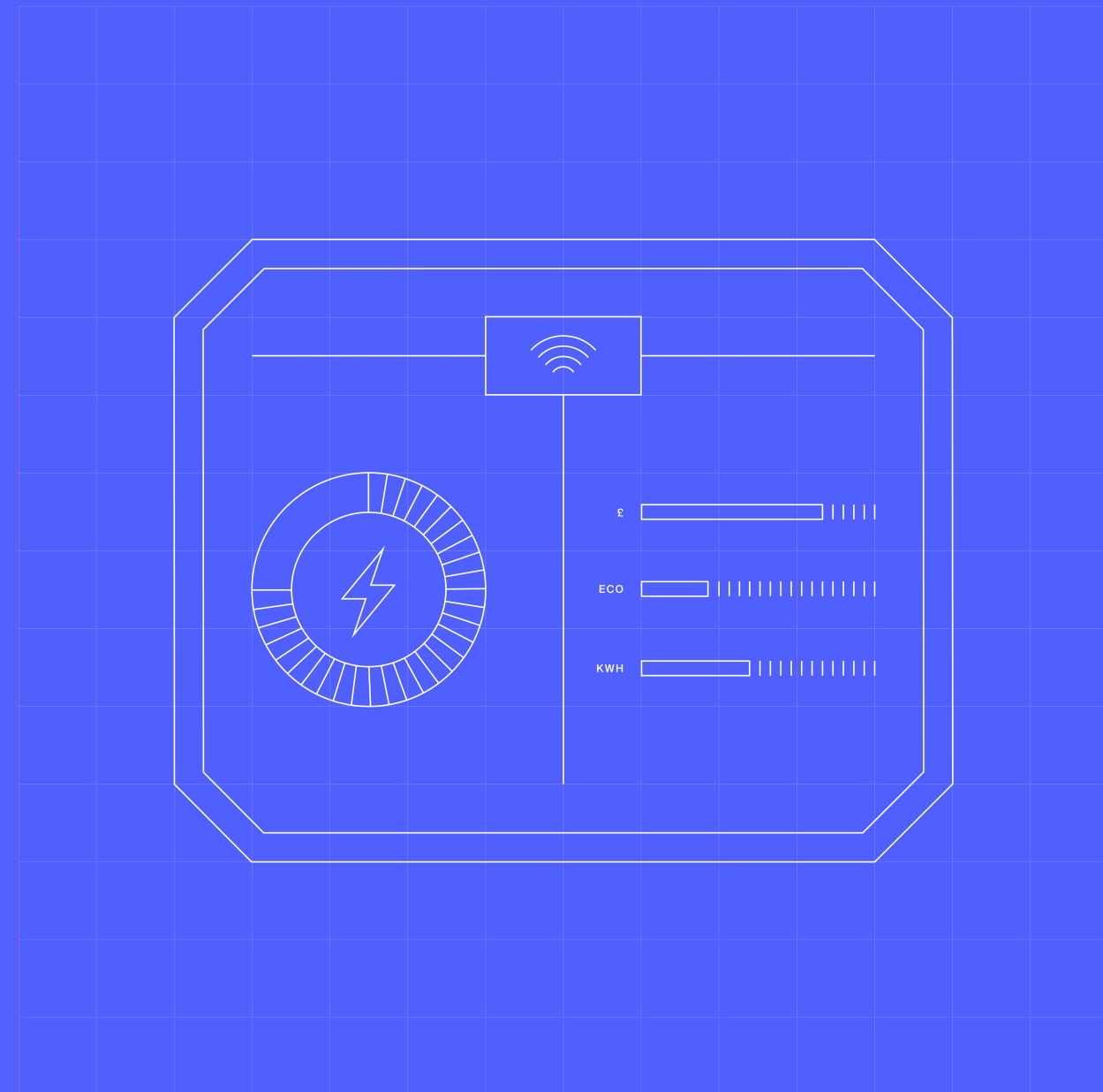
| BSC Role | Responsible Organisation(s) | Body(ies) currently governing qualification | PIT | SIT | | | | | UIT | | |
|--|-----------------------------|---|--------------|-----------------------|-----------------|-----------------|---------------------------------------|-----------------|-----------------|-------------------|-------------|
| | | | PIT | Component Integration | Functional | Operational | Migration (incl migration-related NF) | Non-Functional | Qualification | E2E Sandbox | |
| MSS (Metering Service Smart) | service provider | BSC, REC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| SDS (Smart/Non-Smart Data Service) | service provider | BSC, REC, SEC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| MSA (Metering Service Advanced) | service provider | BSC, REC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| ADS (Advanced Data Service) | service provider | BSC, REC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| UMSDS (UMS Data Service) | service provider | n/a | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| domestic supplier | supplier | BSC, REC, SEC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| non-domestic supplier | supplier | BSC, REC, SEC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| SmartDCC - DSP | DCC | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| SmartDCC - CSS | DCC | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| ISDS (Industry Standing Data Service) | Elexon | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| LSS (Load Shaping Service) | Elexon | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| MDS (Market-wide Data Service) | Elexon | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| VAS (Volume Allocation Service) | Elexon | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| Settlement Operations | Elexon | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| UMSO | (I)DNOs | BSC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| Network Operations | (I)DNOs | BSC | Y (all) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| Registration Services | (I)DNOs | BSC, REC | Y (SCS only) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (selected) | Y (if not in SIT) | Y |
| DIP | MHHS | n/a | Y | Y | Y | Y | Y | Y | Y | Y (service) | Y (service) |
| PKI | MHHS | n/a | Y | Y (test certs?) | Y (test certs?) | Y (test certs?) | Y (test certs?) | Y (test certs?) | Y (test certs?) | Y (service) | Y (service) |

Programme Dashboards

Objective: Take questions from PSG members on Programme dashboards (INFORMATION)

Chair

10 mins



The MHHS Programme is using a number of dashboards to monitor the status and progress of the Programme and its core workstreams

| | Dashboard title | Purpose | Page |
|------------------|---|--|------|
| Programme Level | MHHS Milestone Status | Provide an overview of Programme progress against planned milestones | 36 |
| | Risk Themes | Provide a high-level view of Programme Risks | 37 |
| | MHHS Central Programme Finance | <ul style="list-style-type: none"> Provide an overview of forecast and actual Central Programme expenditure against plan Provide an overview of Central Party forecasts against plan | 39 |
| | Change Control | Provide an update on open Change Requests | 41 |
| Workstream Level | Design | Provide an overview of the progress of the tranches of the MHHS Design against the Design plan (please refer to the fortnightly design progress report) | N/A |
| | Level 3 Advisory Group Updates | Provide an update on key discussion items and outcomes from this month's Level 3 Advisory Groups | 42 |
| | PPC Overview | Provide information on PPC activity and participant engagement | 43 |
| | Data Integration Platform (DIP) Procurement | Provide an update on the progress of DIP procurement | 44 |

MHHS Milestone Status

Red Date has not been met or is expected not to be met

Amber Date may not be met

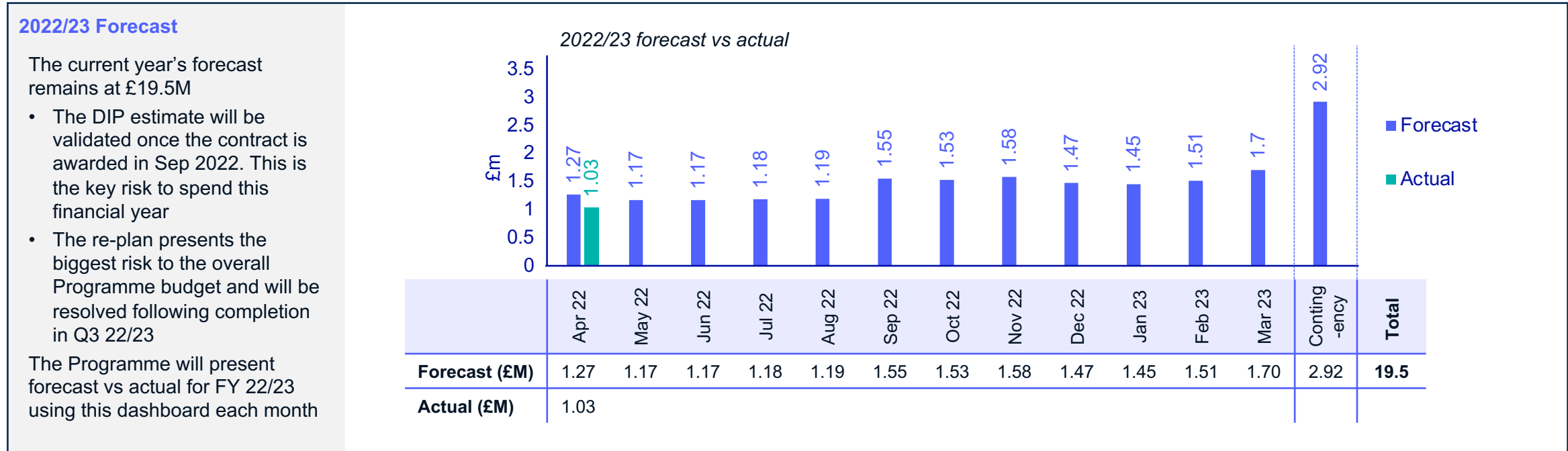
Green Date expected to be met

Milestones
May 2022

| Level | Milestone | | Milestone Date | | Status | Path to Green – Actions (& related impacts) | Previous RAG May PSG | Current RAG Jun PSG | Forecast RAG Jul PSG |
|-------|----------------------------------|--|----------------|---|---|---|-------------------------|------------------------|-------------------------|
| | | | Baseline | Forecast | | | | | |
| 1 | M5 | Physical baseline design delivered | 29-Apr-22 | 29-Jul-22 | <ul style="list-style-type: none"> Tranche 2 will go to DAG on 08-Jun-22 for conditional approval Tranche 4 is behind schedule | <ul style="list-style-type: none"> Overall design delivery plan is under review | Green | Red | Red |
| | 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 | CR007 | <ul style="list-style-type: none"> Engaged with design activities | | Green | Green | Green |
| | M3 | Design, Build Start (iDNOs) | 31-May-22 | CR007 | <ul style="list-style-type: none"> Considering triggers for DBT start (triggered by design or Code baseline) | <ul style="list-style-type: none"> CR007 proposes all parties mobilised for DBT by or before 30-Sep-22 as per Ofgem CR001 decision | Amber | Amber | Amber |
| | M3 | Design, Build Start (Agents) | 31-May-22 | CR007 | <ul style="list-style-type: none"> Majority have engaged with design activities | | Green | Green | Green |
| | M3 | Design, Build Start (Suppliers) | 31-May-22 | CR007 | <ul style="list-style-type: none"> Suppliers generally not yet fully mobilised (with some exceptions), although engagement from many is happening in design activities Confidence in CR007 date is not yet supported by supplier mobilisation plans | <ul style="list-style-type: none"> Suppliers to reach full mobilisation for DBT by 30-Sep-22 (preferably earlier) if CR007 approved and as per Ofgem CR001 decision If this is not done, re-baselining of the plan (and subsequent major milestones) is likely to be delayed Readiness Assessment 2 is planned to verify status at M3. | Red | Red | Amber |
| | M5 + 3 | Industry re-plan | 29-Jul-22 | TBD – to be before end of 2022 | <ul style="list-style-type: none"> This milestone not in Implementation Timetable; programme has suggested re-plan to be agreed 3 months after M5 Proposed 3-month lag after M5 is still to be verified by agreement to approach | <ul style="list-style-type: none"> Approach to re-planning, with dates, to be agreed with PSG Volunteers now engaged in developing 'strawman' plan from May-22 to M5 'Strawman' plan to be published at M5, for consultation If plan not baselined within 2022, the associated uncertainty is likely to dilute focus on delivering MHHS and cause delivery delays | Amber | Amber | Amber |
| M4 | PMO/PPC/SI/IPA fully functioning | 31-Jan-22 | 06-Apr-22 | <ul style="list-style-type: none"> PMO/PPC/SI fully functioning IPA started work; full mobilisation to be completed | <ul style="list-style-type: none"> IPA Framework (IPAF) and IPA Ways of Working agreed with Elexon SRO team IPA requesting PSG approval of IPAF to complete mobilisation | Red | Green | Met | |
| 1 | M9 | Cross-Industry Integration Testing Start | 31-Aug-23 | TBD | <ul style="list-style-type: none"> To be determined during the programme re-planning activity to be conducted after M5 | <ul style="list-style-type: none"> Based on programme identified risks, there is a likelihood of pressure on the current date for M9 – this status will remain Amber until validated by programme re-baselined plan | Amber | Amber | Amber |
| 1 | M6 | Code changes baselined | 29-Apr-22 | 28-Apr-23 | <ul style="list-style-type: none"> Current baseline date will not be met – this milestone is dependent on M5 Awaiting PSG decision | <ul style="list-style-type: none"> CR003 approved Date will be reviewed again during plan re-baselining. | Red | Green | Green |
| | M7 | Smart Meters Act powers enabled | 31-May-22 | 31-May-23 | <ul style="list-style-type: none"> Current baseline date will not be met – this milestone is dependent on M6 | <ul style="list-style-type: none"> CR003 approved Date will be reviewed again during plan re-baselining. | Red | Green | Green |
| | M8 | Code changes delivered | 30-Nov-22 | TBD | <ul style="list-style-type: none"> Due to the intention of CR001, CR002 and CR003 this date will be delayed | <ul style="list-style-type: none"> Per CR003 proposal, a change to M8 will be included in the programme re-planning activity after M5. No impact expected | Red | Red | Red |

| # | Theme | Description | Mitigation Approach | No. of Items | RAG Status |
|---|---|---|--|----------------------|--------------|
| 1 | Supplier engagement and mobilisation | Suppliers may not be mobilised early enough to support the forward delivery approach | <ul style="list-style-type: none"> CR001 has been approved; IPA recommendation is that all remaining un-mobilised suppliers are fully mobilised (for DBT) by or before 30-Sep-22 If mobilisation is delayed, re-baselining of the plan (and subsequent major milestones) are likely to be delayed Progress on mobilisation will be verified via CR007 impact assessment; PPC activities (including Readiness Assessment 2) are planned to verify status at M3. | 15 Risks 2 Issues | Red |
| 2 | Ability to meet the M5 timetable as planned | The amount of work – due to design complexity and / or ability to continue to attract adequate participant engagement – may cause difficulty in reaching an agreement on the design by end of July-22 | <ul style="list-style-type: none"> Encourage adequate engagement from all Participants – via the provision (during working groups) of a clear timetable for all artefact pathways to ultimate DAG approvals Communicate the plan to resolve open design issues and report on the status, whilst also utilising the design change and design issue processes to treat 'issues' arising as new items to manage against the established design scope Confirm alignment of the Cross-Code Advisory Group (CCAG) / DAG code drafting expectations Ensure that the design assurance activities and findings capture evidence on how the design delivers the TOM In line with IPA recommendations: reconfirmation of the design delivery plan; continual monitoring and identification of areas of risk in the design that require further validation by Programme Participants; tracking of progress against the Tranches to DAG and monthly checkpoints reported to PSG between now and M5 to review progress of design activity against plan and confidence indicators/acceptance criteria. | 11 Risks 2 Issues | Amber |
| 3 | 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 timetable | <ul style="list-style-type: none"> Engage industry volunteer parties to develop a 'strawman' plan in advance of M5 Issue the 'strawman' plan at the earliest opportunity – at M5 – for formal consultation, to provide the most time for Programme Parties to review plan timelines in line developing with their technology strategies and impact assessments Undergo 2 rounds of industry consultation to capture all industry feedback possible before approval through PSG (and Ofgem). | 7 Risks | Amber |

Headline: April Actual was below forecast due to outsourced contracts coming in below forecast.



Note: this includes MHHS Central Programme costs only. This includes IPA and LDP resource and the DIP

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 | 1.22 | 1.21 | 1.20 | 1.14 | 1.16 | 1.16 | 1.15 | 1.15 | 1.15 | 6.55* | 19.5 |
| MHHS Actual/Forecast | 1.03 | 1.17 | 1.17 | 1.18 | 1.19 | 1.56 | 1.53 | 1.58 | 1.47 | 1.45 | 1.51 | 4.63* | 19.5 |
| 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 | 0.97 | 2.02 | 1.72 | 2.04 | 2.09 | 2.03 | 3.05 | 2.11 | 2.06 | 1.45 | 1.34 | 1.52 | 22.40 |
| Helix Actual/forecast | 0.96 | 2.02 | 1.72 | 2.04 | 2.09 | 2.03 | 3.05 | 2.11 | 2.06 | 1.45 | 1.34 | 1.52 | 22.39 |
| 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 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.28 |
| Total Budget | 2.19 | 3.25 | 3.00 | 3.28 | 3.32 | 3.20 | 4.24 | 3.30 | 3.24 | 2.63 | 3.04 | 8.62 | 43.31 |
| Total Forecast/Actual | 1.99 | 3.19 | 2.91 | 3.24 | 3.31 | 3.62 | 4.61 | 3.72 | 3.56 | 2.93 | 3.40 | 6.7 | 43.18 |

Please note:

- * : Includes contingency
- RECCo and DCC costs include only 3rd party costs (do not include internal resources)
- Helix budget is approved to July
- DCC data subject change when service providers are contracted after Change Board decision.

Change Request status

| Ref. | Key Detail | Change Raiser(s) | Change Type | Decision | Status | Action If approved | Change Owner(s) If approved |
|-------|--|------------------|------------------------|--|----------|---|--------------------------------|
| CR001 | M5 to July 2022 | Jason Brogden | Full Impact Assessment | Ofgem Approved (21/04) | Complete | Updated MHHS Transition Timetable | Jason Brogden |
| CR002 | M5 to November 2022 | Emily Wells | Full Impact Assessment | Ofgem Rejected (21/04) | Complete | | |
| CR003 | M6 to 9 months after M5 and M7 to 10 months after M5 | Lawrence Jones | Full Impact Assessment | Ofgem Approved (18/05) | Complete | Updated MHHS Transition Timetable | Martin Cranfield |
| CR004 | Changes to TAG and Governance Framework | Jason Brogden | Housekeeping | Change Board approved (24/03) | Complete | Updated MHHS Governance Framework | Jason Brogden |
| CR005 | Programme Cooperation Principles | Jason Brogden | Full Impact Assessment | PSG approved (04/05) | Complete | Updated MHHS Governance Framework | Jason Brogden |
| CR006 | Changes to DAG and Governance Framework | Fraser Mathieson | Housekeeping | Change Board approved (26/04) | Complete | Updated MHHS Governance Framework | Jason Brogden |
| CR007 | Moving the M3 date to 30 September 2022 | MHHS Programme | TBC | Awaiting PSG review and next steps (08/06) | Open | | |
| CR008 | RECCo membership of PSG, DAG, TMAG | Jonathan Hawkins | Full Impact Assessment | Awaiting PSG review of Full Impact Assessment and decision (08/06) | Open | | |

Discussion summary from this month's Advisory Groups

Design Advisory Group (DAG)

Update from DAG 11 May 2022

1. **Tranche 1 design artefacts** – The Tranche 1 design artefacts were submitted for approval following review cycles undertaken via the Business Processes and Requirements Working Group (BPRWG). The artefacts were conditionally approved, subject to the resolution of outstanding issues and dependencies. Further information is available in the [DAG Headline Report](#).
2. **Data Integration Platform (DIP)** – The DIP Functional Specification and Non-Functional Requirements documents were issued to DAG members for final comment prior to release as version two. Requirements were approved by DAG on 20 May 2022. The documents can be found within the [DAG Meeting Papers](#).
3. **Review cycles** – The scheduled design artefact approvals are as follows:
 - Tranche 2 – Artefacts released for review 18 May 2022, discussed at BPRWG 01 June 2022, and approval considered at DAG 08 June 2022.
 - Tranches 3 & 4 are due for submission to DAG for approval on 06 July and 20 July 2022 respectively.
4. **Consequential Change Implementation Assessment Group (CCIAG)** – The draft CCIAG Terms of Reference have been issued for review, with the group to mobilise late June/July 2022.

Cross-Code Advisory Group (CCAG)

Update from CCAG 25 May 2022

1. **Code Drafting Planning** – The CCAG have developed a detailed plan for code drafting. The plan sets out the sequence of topic areas and timeframes for the drafting of legal text, including review cycles.
2. **Code Drafting Principles** – The CCAG have developed a series of principles to guide code drafting work. These include principles such as code drafting reflecting the design, a lean approach to documentation, referencing of design artefacts, and consideration of transitional, consequential, performance assurance, qualification, and migration requirements.
3. **Data Services** – The CCAG have considered how data services should be governed. The Programme have advised there is no evidence a change to the status quo is required to deliver the MHHS Target Operating Model (TOM) and as such, the Programme is agnostic to any change in this area.
4. **Code Drafting Working Group (CDWG)** – The Terms of Reference for new CDWG were approved, with the first meeting to be held at the end of June or beginning of July. The CDWG is tasked with reviewing code drafting prior to it being issued for consultation.

Testing and Migration Advisory Group (TMAG)

Update from TMAG 18 May 2022

1. **Test Stubs and Harnesses** – The TMAG discussed tooling to support pre-integration testing (PIT) and systems integration testing (SIT)
2. **Test Data Strategy** – Following updates from the DWG, TMAG approved the Test Data Strategy. The strategy will be subject to further refinement following M5.
3. **E2E Testing and Integration Strategy** – An update will be provided on the strategy, which has now been released as version one. This will also be subject to further refinement following M5.
4. **TMAG Working Groups** – an update was provided on the discussion from the third Migration Working Group (MWG) held 12 May 2022.
5. **Environments working groups** - The TMAG discussed mobilising an Environments and Configuration Managements Working Group (EWG) in the first week of July. Notice will be issued via the Clock and to TMAG, DWG, and MWG distribution lists in due course.



Participant mobilisation

- Large suppliers and agents are increasingly active in the Design process.
- Many small/medium suppliers continue to cite FSP and market conditions as reasons to delay engagement.
- Feedback from the Open Day is that small and I&C suppliers need more bespoke support.
- **Next steps:** Participants to continue engaging with Design. PPC considering bespoke forums for small & I&C suppliers.



Volunteers for Replanning

- PPC sought volunteers to support PMO with the Programme replanning exercise.
- Participants have volunteered in all constituencies with the exception of small suppliers.
- **Next step:** Commence replanning exercise. PPC & PMO to seek additional volunteers as/when required.



Webinars & Open Days

- Webinar on Programme Management facilitated alongside the PMO on 26 May 22.
- Design & Re-plan Open Days to be held in late August and early September to support understanding of the TOM and detailed design, and planning for DBT timetable.
- **Next step:** Finalise dates for Open Days and plan out useful Design-oriented webinars for coming months.



Rationalisation of Participants

- A total of 15 Participants have been removed from the Programme.
- 6 of these were Meter Operators (MOps) who act as meter installers and do not operate their own systems.
- 9 of these were small suppliers who have not yet entered the market and are not expected to do so soon.
- **Next step:** Continue to meet with Participants who have not engaged to assess MHHS impact.

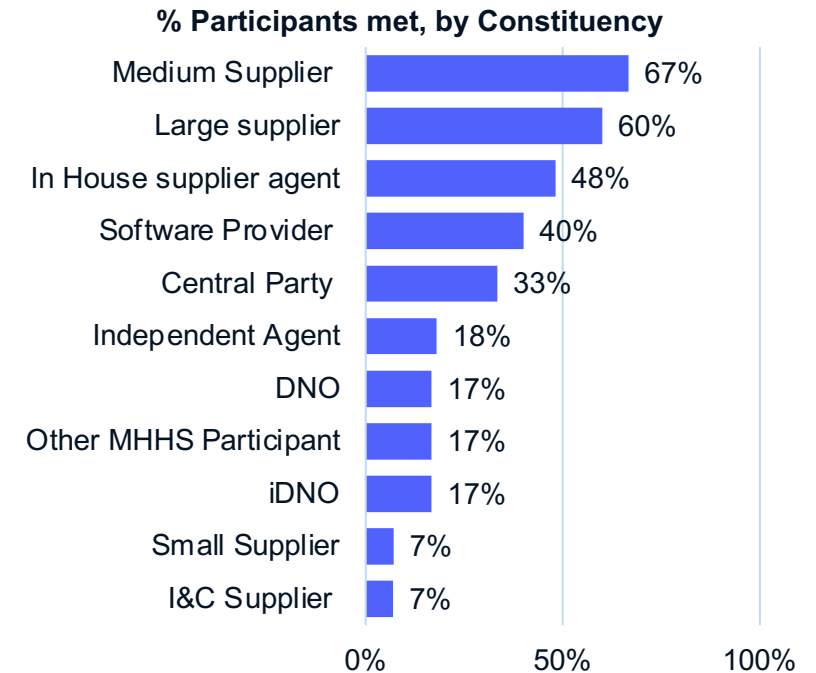


Understanding of Software Providers

- The PPC continues to map Participants to their Software Providers in order to understand dependencies and risks.
- 40% of Software Providers have confirmed which Participants they work with.
- **Next step:** PPC to continue this mapping exercise through their bilateral conversations.

Engagement by Constituency

The PPC team held **47** bilateral meetings with Participants this month. The chart below shows the percentage of these Participants in each Constituency. The total number of meetings is up by 27 compared to last month.



Summary

- The DIP procurement remains on track
- There continues to be a healthy and engaged response from bidders
- The DIP technical requirements were approved by DAG on 20 May
- Given a material change to the message encryption requirements, a short extension has been granted for bidders to submit their Proposals from 23 May to 7 June (after Queen's Jubilee Bank Holiday)

Key dependencies

- Code changes for Elexon to be the enduring DIP service owner are required to be in place by June 2022 to support the dialogue sessions and BAFO

Risks

- No material risks at this time

Next milestone

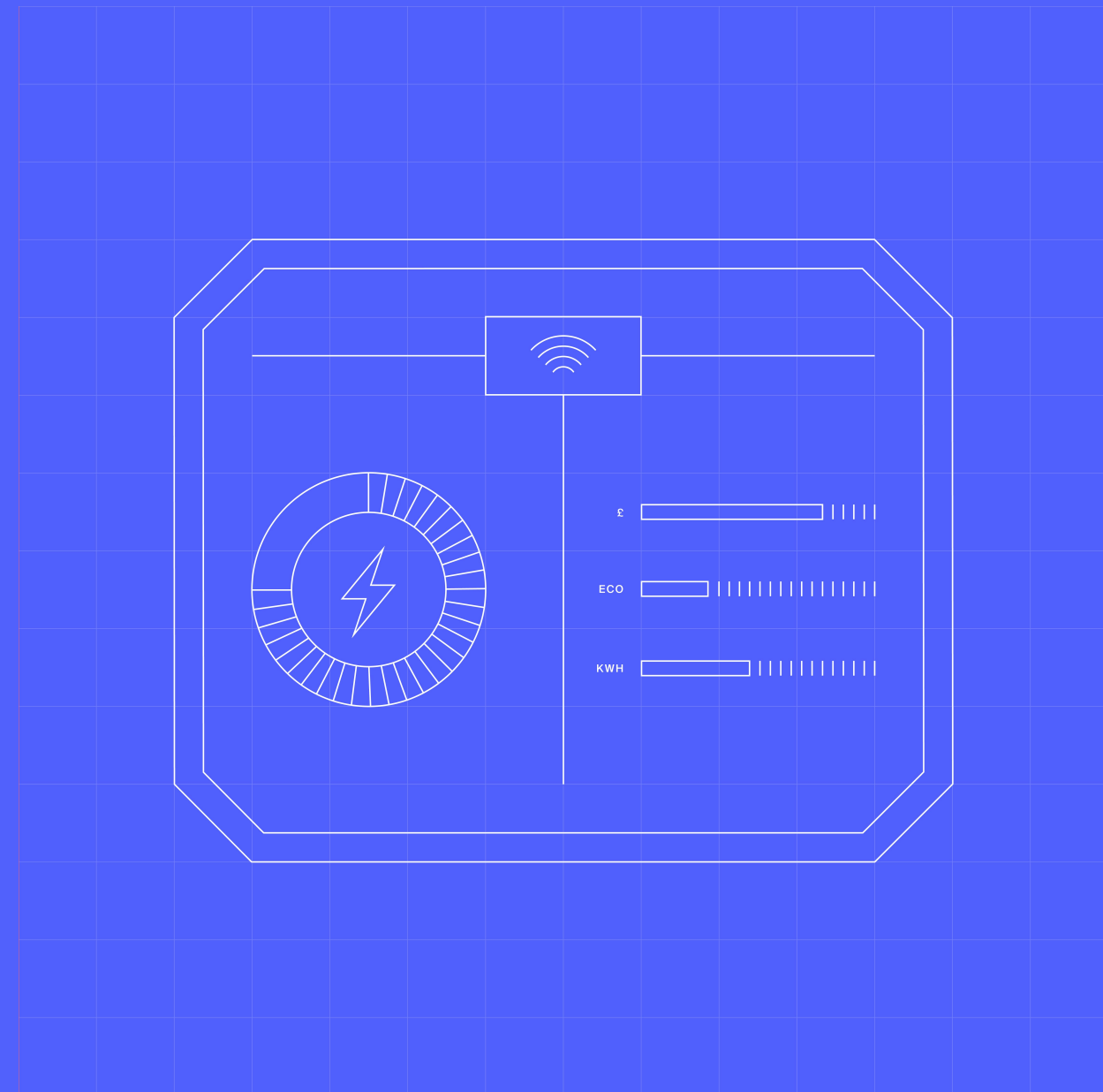
- 7 June - Receive all bidder responses

Summary and Next Steps

Objective: Agree actions. Look forwards to July's PSG (INFORMATION)

Chair and Secretariat

5 mins



1. Confirm actions and decisions from meeting

2. Date of next PSG: 06 July 2022 1000-1200

Current agenda items:

1. Minutes and Actions Review
2. Rebaselining of the plan (to include playback from re-plan volunteer sessions)
3. Building a delivery mindset
4. Design progress ahead of M5
5. CR007 next steps
6. Programme Dashboards

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

Contact

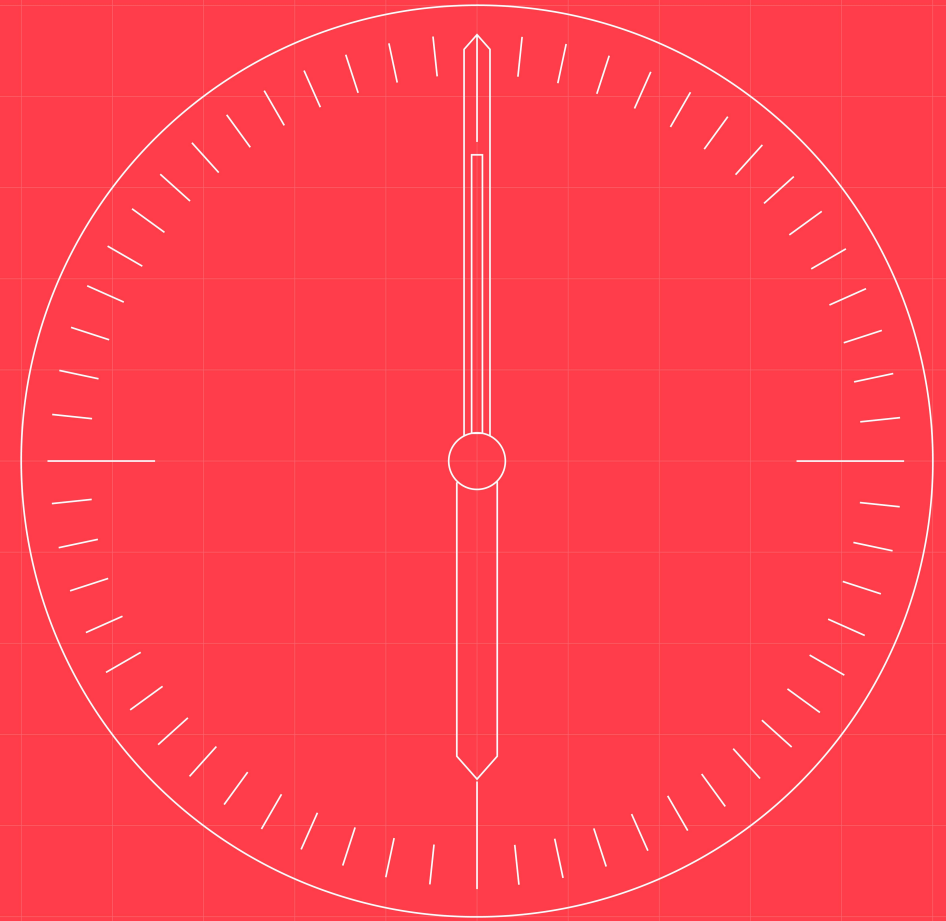
PMO@MHHSProgramme.co.uk

Thank you

Appendix

Change Control updates:

1. Programme actions following CR001 approval by Ofgem
2. Programme actions following CR003 approval by Ofgem
3. Governance Framework updated following CR004, CR005 and CR006
4. Outputs of Change Control internal review



CR001 and CR002 decision from Ofgem

- Following 06-Apr-22 PSG, the **MHHS Programme SRO** submitted the recommendation to Ofgem that Ofgem approve CR001 and reject CR002
- On 21-Apr-22 Ofgem formally approved CR001 and rejected CR002. Ofgem's decision included two specific next steps for the Programme:
 1. MHHS should re-issue the new baselined Implementation Timetable in accordance with this decision and ensure that all MHHS Participants are aware of the change
 2. MHHS should also implement the IPA's recommendations. MHHS will provide progress reports to the PSG on the implementation of those recommendations.

Programme next steps

- Per the Programme's Change Control Process, **the MHHS PMO has actioned the decision**. This includes:
 - a) **Formally re-confirming the design delivery plan** to reach M5 at the end of July-22
 - b) **Updating the Ofgem Implementation Timetable** with the changed milestone date (published on MHHS website and via The Clock on 18-May-22)
 - c) **Communicating the decision** to Programme Participants. The decision was communicated via:
 - i. **The Clock** on 27-Apr-22
 - ii. **The MHHS Website**, where updated Change Control documentation is shared (e.g. completed Change Request forms)
 - iii. All MHHS L2-L3 **governance groups**
 - d) Addressing recommendations from the IPA (see next slide)

Progress Update on IPA recommendations on CR001 (M5 move to 29 July 2022)

| IPA Recommendation | Action being taken by the Programme | Dates |
|--|---|---|
| <p>Overall Recommendation 1 - The MHHS programme should develop and communicate the detailed plan to get to the PM2 full plan baseline milestone. This should consolidate all activities currently being planned to that point (e.g., design, design playback/participant engagement, readiness for DBT and activities to develop the full plan baseline) and should be used as the 'reporting baseline' for PSG.</p> | <p>Develop 'strawman' plan with input from volunteer participants</p> <p>Publish 'strawman' plan for 1st consultation upon approval of M5 milestone</p> <p>Re-baseline plan (after 2 cycles of consultation).</p> | <p>May-22 to Jul-22</p> <p>At M5</p> <p>Before end / 2022</p> |
| <p>Overall Recommendation 2 - The full plan baseline should consider how end-to-end delivery outside of the Programme's defined TOM will be coordinated and delivered to provide clarity and identify any potential gaps in delivery.</p> | <p>Consequential Change Impact Assessment Group (CCIAG) is being set up as planned.</p> | <p>Jun-22</p> |
| <p>CR001 Recommendation 1 - MHHS Programme should develop, communicate and track against a set of confidence indicators over design (linked to the M5 acceptance criteria). This should incorporate the planned IPA design assurance activity to be performed under IPA 'WP4 Design Documentation'.</p> | <p>A fortnightly status report is now being published to report on progress to the schedule, including M5 acceptance confidence indicators, risks and the latest intelligence from the tranche reviews.</p> | <p>May-22 to Jul-22</p> |
| <p>CR001 Recommendation 2 - As part of 'Overall Recommendation 1', the detailed plan to the get to the PM2 full plan baseline milestone should include:</p> <ul style="list-style-type: none"> The definition of the plan milestones/phases and what is expected to be delivered at each with respect to the design to ensure alignment across parties Formal design playback activity within the plan during August (where feasible) and September to enable understanding and consumption of the design by Programme Participants A milestone following M5 and the subsequent design playback activity in September at which point Programme Participants would be expected to be fully mobilised for DBT Continual monitoring and identification of areas of risk in the design that require further validation by Programme Participants either prior to M5 or immediately after, during design playback Tracking of progress against the Tranches to DAG and monthly checkpoints reported to PSG between now and M5 to review progress of design activity against plan and confidence indicators/acceptance criteria. | <p>A detailed interim plan has been developed to detail activities through to the end of 2022 as is included in this PSG pack.</p> <p>The delivery schedule per artefact has been published and the fortnightly status report is in place to report on progress to the schedule, including M5 acceptance confidence indicators, risks and the latest intelligence from the tranche reviews.</p> | <p>Before end / 2022</p> <p>May-22 to Jul-22</p> |
| <p>CR001 Recommendation 3 - Suppliers to fully impact assess the resources required to support the design activity and put in place a plan to enable engagement prior to Jul-22, wherever possible, or how they will engage in design playback whilst fully mobilising for DBT.</p> | <p>This action is for suppliers. The Programme will work with suppliers to define the playback session plan.</p> | <p>May-22</p> |

CR003 decision from Ofgem

- Following 27-Apr-22 CCAG, **the MHHS Programme SRO submitted the recommendation to Ofgem that Ofgem approve CR003**
- On 18-May-22 **Ofgem formally approved CR003**. Ofgem's decision included one specific next steps for the Programme:
 1. MHHSP should re-issue the new baselined Implementation Timetable in accordance with this decision and ensure that all MHHS Participants are aware of the change.

Programme actions

- Per the Programme's Change Control Process, **the MHHS PMO has now actioned the decision**. This includes:
 - a) **Publishing the updated Ofgem Implementation Timetable** with the changed milestone date on 18-May-22
 - b) **Communicating the decision** to Programme Participants. The decision was communicated via:
 - i. **The Clock** on 18-May-22
 - ii. **The MHHS Website**, where updated Change Control documentation was shared on 25-May-22 (e.g. completed Change Request form)
 - iii. All MHHS L2-L3 **governance groups**
 - c) Addressing recommendations from the IPA (**see next slide**)

Next steps to address the IPA recommendations on CR003 (Move of M6 & M7)

| IPA Recommendation | Action being taken by the Programme | Dates |
|---|---|------------------|
| Recommendation 1 - CCAG and MHHSP to actively monitor plan of the activities that need to take place to deliver M6 and M7 and the RAID log, reflecting any proposed changes as necessary in the Programme re-baseline plan process. | The Programme and CCAG are reviewing the plan and activities needed to deliver M6 and M7 and these have been incorporated (where appropriate) into the interim plan and programme strawman plan that will be consulted on | May-22 to Oct-22 |
| Recommendation 2 - As part of the re-baselining exercise after M5, MHHSP to validate the assumption that CR003 will not have an impact on the Programme end date of October 2025. | This will be reviewed in line with consultation on activities and timelines with industry participants | Aug-22 to Oct-22 |
| Recommendation 3 - As part of the detailed planning that it is being undertaken before M5, CCAG to examine the risk flagged by MHHSP that more resource than is currently planned might be required to deliver the code drafting in the timescales provided. | Resource requirements will be assessed through the CCAG meetings | May-22 to Jul-22 |
| Recommendation 4 - MHHSP must explicitly validate the assumptions that CR003 will have no impact on the timing of the delivery of MP162. If those assumptions are found not to be valid it will be important to identify mitigating action to ensure that MP162 delivery can proceed as currently planned. | This assumption will be reviewed regularly and assessed with CCAG and other impacted parties | Jul-22 |
| Recommendation 5 - MHHSP should validate with programme participants their expectations about the level of detail to be provided by the design baseline as a basis for programme party design and build without any supporting code text to avoid any potential mismatch of expectations. The programme should also validate with the CCAG that the design baseline will provide a sufficient level of detail from which to derive the subsequent code drafting. | Level of detail within the design baseline to be validated through review of design artefacts in each tranche | May-22 to Jul-22 |
| | Detail to be reviewed with CCAG to confirm expectation that design baseline is detailed enough to enable subsequent code drafting | Jun-22 |
| Recommendation 6 - MHHSP should re-issue the new baselined Implementation Timetable in accordance with this decision and ensure that all MHHS Participants are aware of the change. | An updated Transition Timetable reflecting changes to M6 and M7 as a result of CR003, as well as changes due to CR001 has been republished by the Programme | May-22 |

MHHS Governance Framework updates as a result of CR004, CR005 and CR006

Summary

CR004: Approved changes made to the role, membership and mode of operation of TMAG, as set out in the updated Terms of Reference

CR005: The Cooperation Principles of **Delivery Focus, Relationship & Trust** and **Participation & Proactivity** have been documented in the MHHS Governance Framework. Further principles were included to apply to Central Parties and the MHHS Programme. Overall, the objectives of these principles are to:

- Set the principles of efficient interaction and cooperation for all MHHS Programme Parties and ensure they are fair, appropriate and proportionate
- Set some additional commitments for the MHHS Programme and Central Parties to help cooperation work optimally between them
- Ensure that all MHHS Programme Parties are treated equitably, as the MHHS Programme and Central Parties are likely to be the organisations that Programme Parties approach for information and advice.

The principles mitigate the following risks:

- Inefficient or unclear ways of working for MHHS Programme Parties with the MHHS Programme and between each other
- Actions of MHHS Participants to deliver their own BSC objectives to the detriment of others or the MHHS Programme as a whole
- Inequitable treatment of MHHS Programme Parties with access/information given to some that has not been made available to others (e.g. if some are more proactive).

CR006: Approved changes made to the role, membership and mode of operation of DAG, as set out in the updated Terms of Reference

A [new version of the MHHS Governance Framework](#) has now been issued

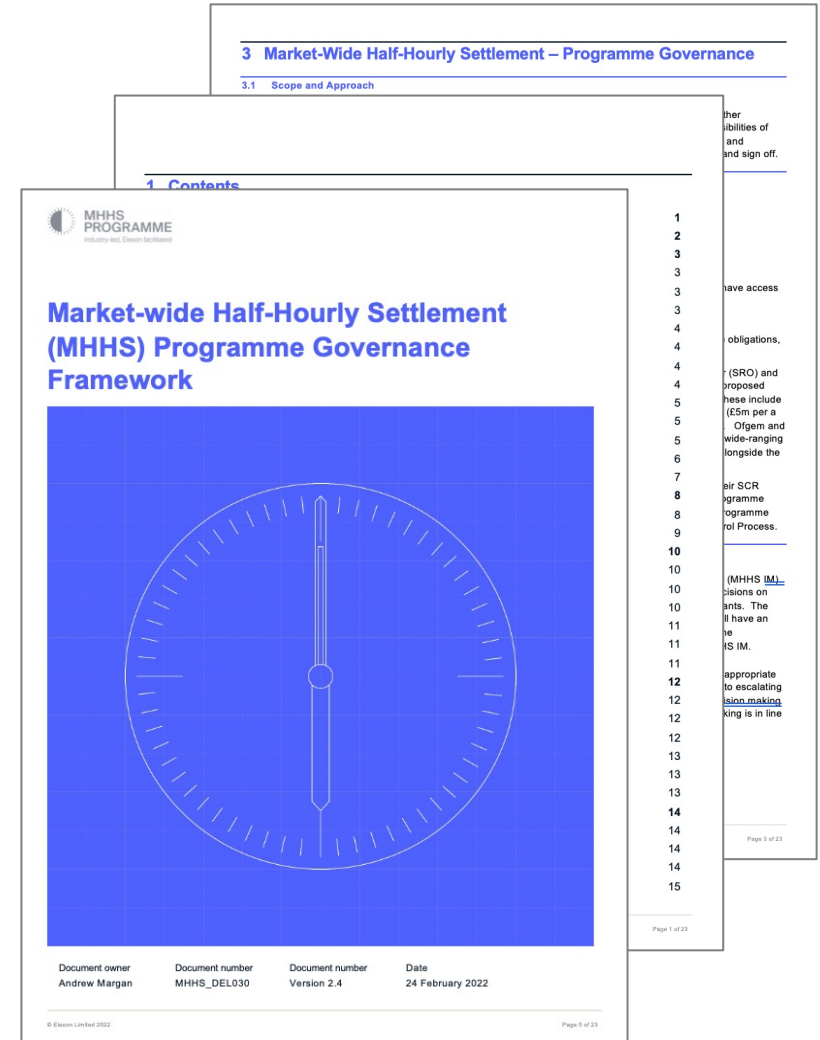


Figure 1: DEL030 MHHS Governance Framework

Summary

- Context:** The Programme held an internal review of Change Control framework and associated guidance materials on 25-Apr-22. The review session comprised of representation from LDP and SRO teams and invited feedback from all levels regarding the processing of future Impact Assessments and updating guidance materials. The intention was to understand what learnings could be taken from CR001 and CR002
- Outcomes:** A summary of the session was generated to capture follow on actions. Various updates were made to the Change Request Form (DEL173) and accompanying guidance document (DEL174), which include, but are not limited to:
 - A table on the *Cover Page* linking the form with key programme documents, such as Ofgem’s MHHS Transition Timetable and MHHS Governance Framework
 - A table in *Part B* which requests the Change Raiser to reference any additional documentation the change relates to
 - Reformatting of *Part C* –the recommendation response is now in a stand along table. This is because several participants were missing out a response to the overall recommendation, which is the key reporting metric to governance boards
 - ‘No Impact’ has been changed to ‘Abstain’. This now aligns with the way Impact Assessments are reported to governance boards.
- Next steps:** Ofgem was notified of the latest updates made to guidance material on 12-May-22. The Programme awaits Ofgem acknowledgement before publishing the latest versions on the MHHS website
- The IPA recommends that, as the programme progresses, the change control process be revisited periodically to identify any further enhancements that might emerge through more regular use, and once the planned move to the portal is completed

Change Request Form – Guidance for Programme Participants

Change Request details

| Change Request details | | |
|--------------------------------------|------------------------------------|---------------------------|
| Change Request Title | <To be completed by Change Raiser> | |
| Change Request Number | <To be completed by MHHS PMO> | |
| Originating Advisory / Working Group | <To be completed by Change Raiser> | |
| Risk/issue reference | <To be completed by Change Raiser> | |
| Change Raiser | <Raiser name / organisation> | Date raised: <dd/mm/yyyy> |

Key

| | |
|------------------------------------|-----------------------|
| Guidance for PMO | <Instruction in grey> |
| Guidance for Change Raiser | <Instruction in blue> |
| Guidance for Programme Participant | <Instruction in red> |

Form to be read in conjunction with:

| Title | Link |
|---|----------------------|
| Change Request Form Guidance for Programme Participants | Here |
| MHHS Change Control Approach | Here |
| MHHS Governance Framework | Here |
| Ofgem’s MHHS Transition Timetable | Here |

Figure 1: DEL174 Change Control Guidance