



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

---

# MHHS Open Day

Please note that this event will commence at 10.00

---

13 June 2023

Document Classification: Public

MHHS-DEL1320



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

---

# Introduction & Housekeeping

---

Claire Silk, *MHHS Programme*

### Restrooms

Restrooms are located in reception next to the lifts

### In case of an emergency

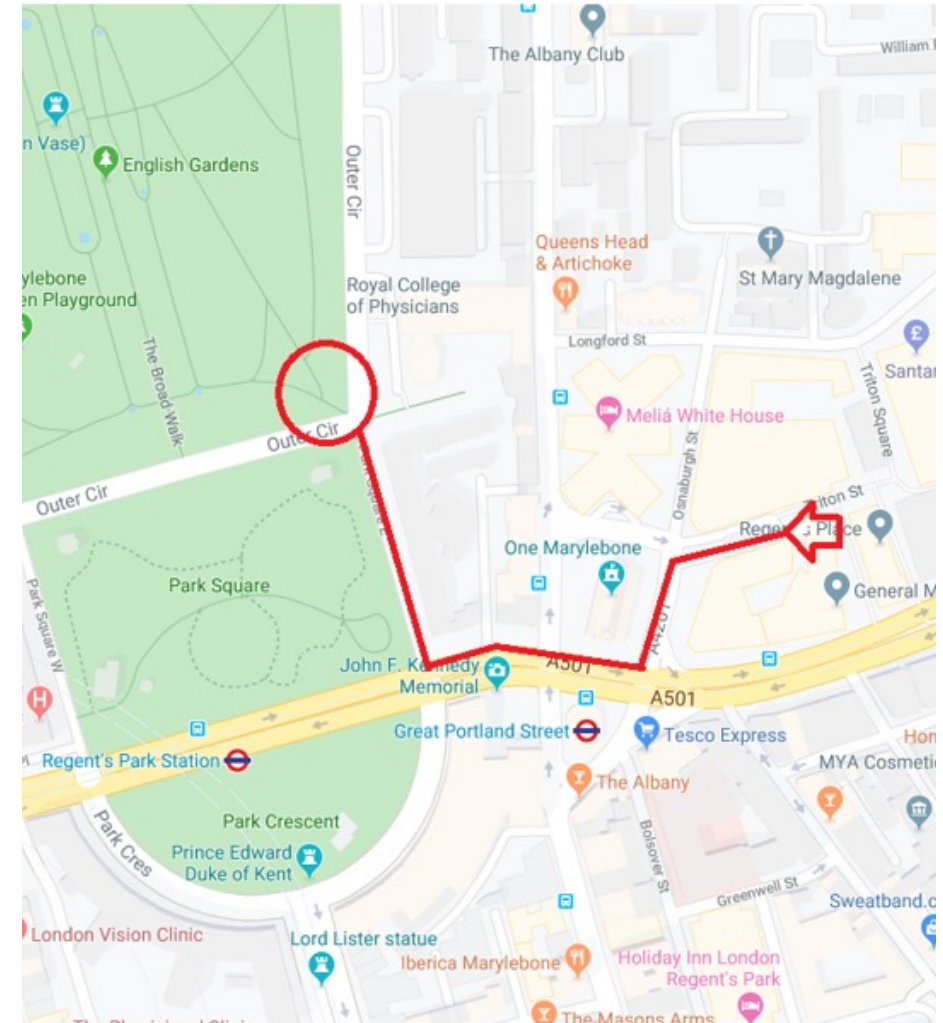
- An alarm will sound to alert you

### Evacuating 350 Euston Road

- If you discover a fire, operate one of the fire alarms next to the four emergency exits
- Please do not tackle a fire yourself
- If you hear the alarm, please leave the building immediately
- Evacuate by the nearest signposted fire exit and walk to assembly point
- Please remain with a member of Elexon staff and await further instruction from a fire warden
- For visitors unable to use stairs, a fire warden will guide you to a refuge point and let the fire brigade know where you are

### When evacuating please remember

- Do not use the lifts
- Do not re-enter the building until the all clear has been given by the fire warden or ground floor security
- **Our team on reception is here to help you, if you have any questions, please do ask them**



## Introduction & Housekeeping - Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
Break & coffee			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
Lunch & stalls			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes



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

---

Please send in your questions using  
sli.do  
**#MHHS**

---



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

---

# Welcome

---

Helen Tipton, *MHHS Programme*

## Introduction & Housekeeping - Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
<b>Delivery philosophy</b>	<b>Chris Harden</b>	<b>MHHS Programme</b>	<b>10:20 – 10:35</b>	<b>15 minutes</b>
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
<i>Break &amp; coffee</i>			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
<i>Lunch &amp; stalls</i>			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes



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

---

# Delivery Philosophy

---

Chris Harden, MHHS Programme



We are all in this together to deliver savings to customers and industry **ASAP** during this cost-of-living crisis

We are adopting a different delivery philosophy to be able to achieve this...

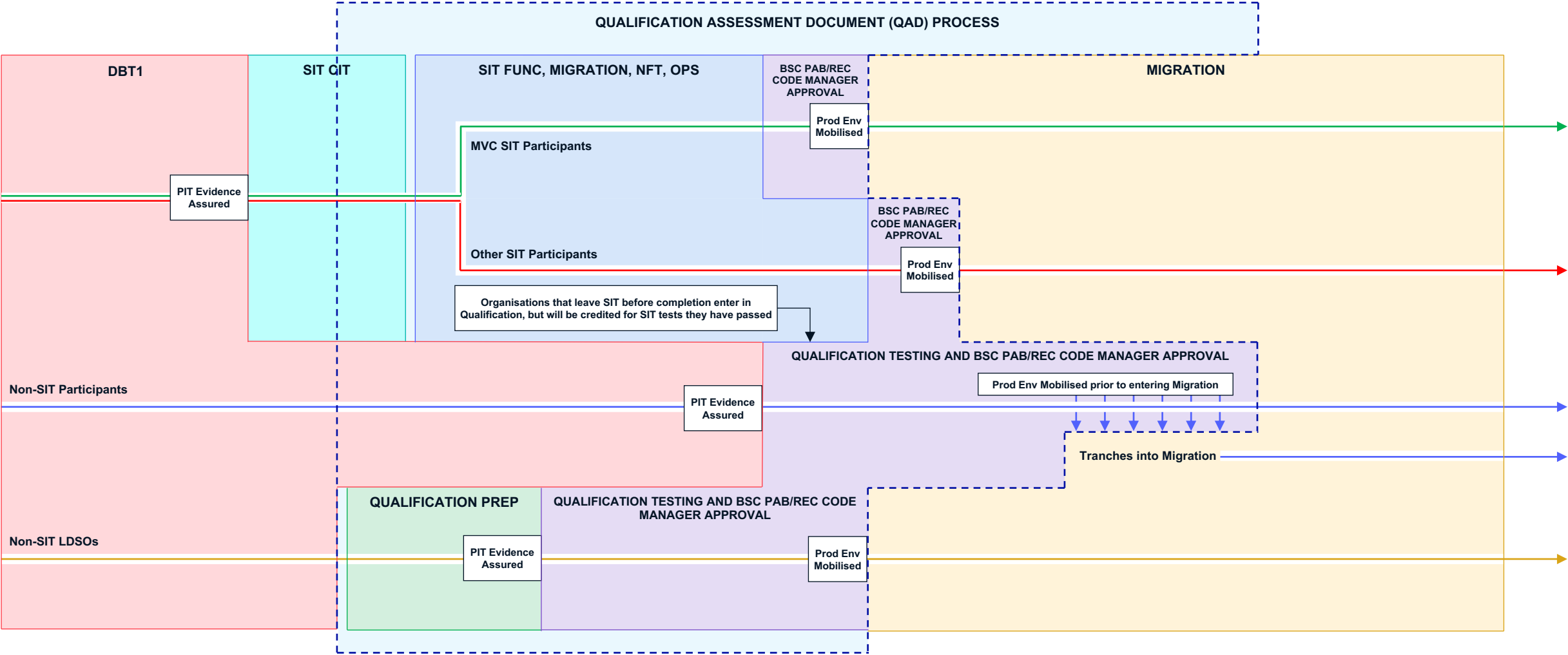
- Risk-based delivery focus
- We are consciously accepting that there are / will be outstanding issues as we progress through the Programme
- We will proceed with **manageable risk**
- We won't be waiting to resolve all outstanding issues and "dot the i's and cross the t's"
- The re-plan timescales require us to adopt this approach to be successful

Looking forward...

- There will be change required and defects to fix – let's be **collaborative** in resolving these
- Pragmatism (e.g., entry/exit criteria)
- Materiality / proportionality – is it really necessary?
- Change – would it pass the consumer '**how does that benefit me**' test?

**Let's all work together and deliver these consumer savings as quickly as possible**

# Programme Participant Journey Overview



## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
<b>Qualification update</b>	<b>Anna Millar, Vaishnavi Sharma</b>	<b>Elexon, REC</b>	<b>10:35 – 11:00</b>	<b>25 minutes</b>
<i>Break &amp; coffee</i>			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
<i>Lunch &amp; stalls</i>			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes



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

---

# Qualification Update

---

Anna Millar & Vaishnavi Sharma  
*Elexon & REC*

# What we'll cover today



## Qualification Overview



## Timeline for MHHS Qualification



## Qualification Testing Tranches



## Qualification Deliverables – QA&P and QAD



## Placing Reliance

### Principles behind Qualification

- MHHS will change many processes that are governed under the Balancing and Settlement Code (BSC) and Retail Energy Code (REC)
- Qualification assesses whether participants planning to operate in MHHS have the appropriate systems, processes and controls in place to undertake the BSC and the REC requirements for MHHS Design
- BSC Section C 12.12.7 requires BSC Parties and Party Agents to complete MHHS Qualification and comply with the MHHS Qualification Plan

### Qualification Process & Responsibility

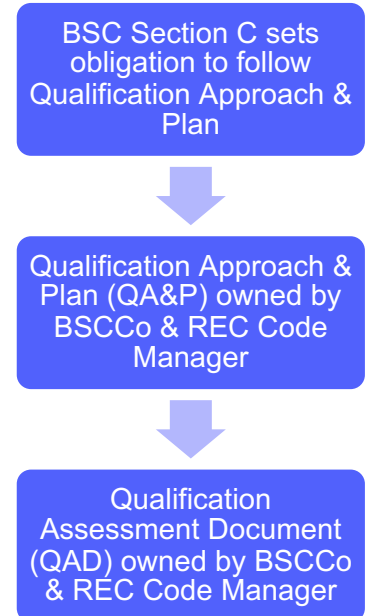
- The MHHS Programme does not deliver Qualification activities – this responsibility remains with BSCCo and REC Code Manager
- Code Bodies are jointly developing the Qualification process in consultation with participants, through the [Qualification Working Group \(QWG\)](#). If you are interested in joining this working group as a subject matter expert, please contact [PMO@mhhsprogramme.co.uk](mailto:PMO@mhhsprogramme.co.uk).

### Key Dates

Participants will be required to complete MHHS Qualification to operate within the MHHS arrangements

- Suppliers are required to have completed Qualification in order to accept Metering Systems into the new TOM arrangements by **16 March 2026 (Milestone 14)**
- As all MPANs are due to have moved to the new arrangements by the end of the migration period, agents will be unable to continue to operate within the Supplier Volume Allocation (SVA) arrangements if they have not completed MHHS Qualification by **05 October 2026 (Milestone 15)**

*Code requirements for participants to complete MHHS Qualification and comply with the MHHS Qualification Plan:*

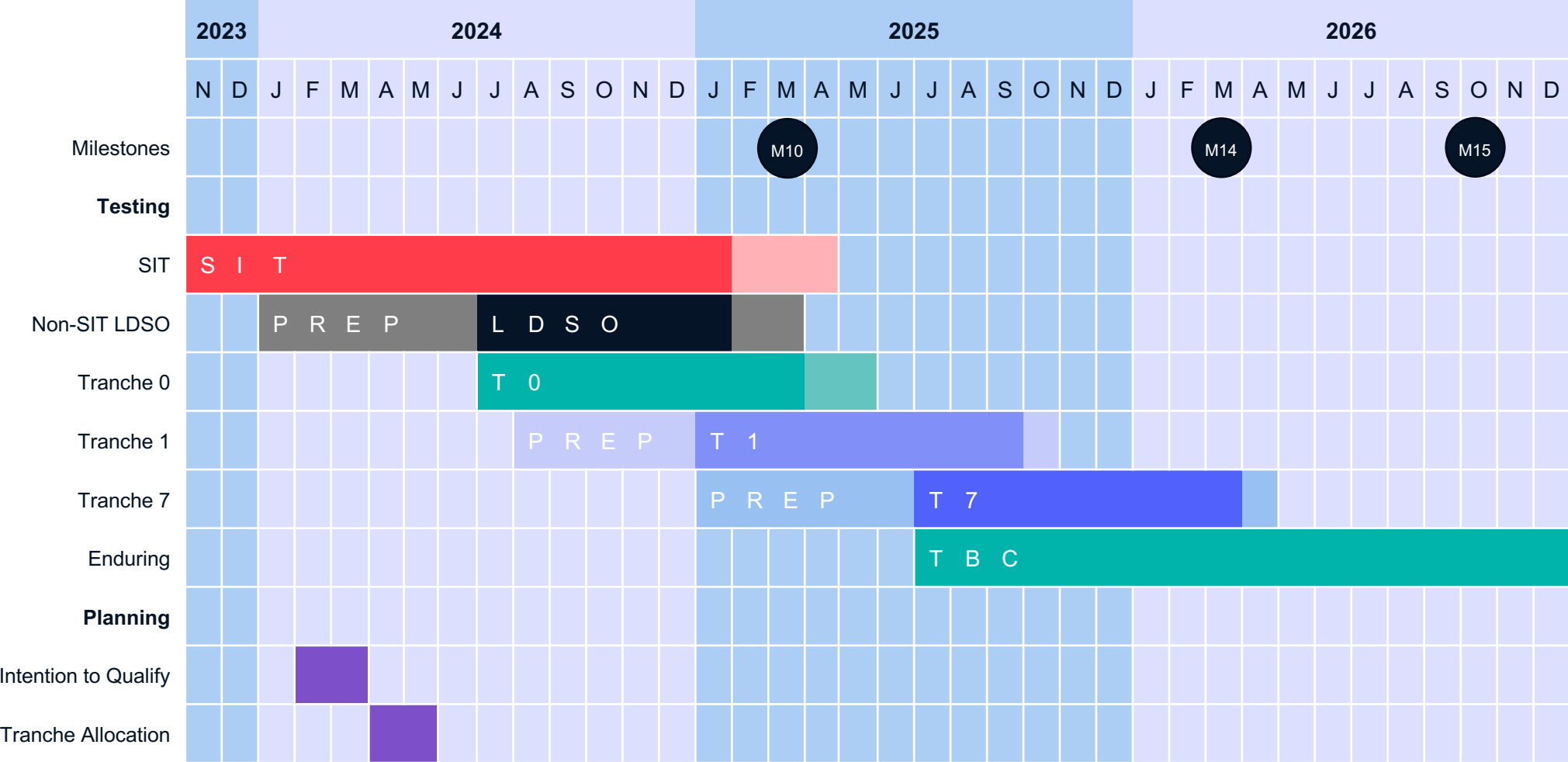


Programme participants can follow the System Integration Testing (SIT) or non-SIT route for each of their roles to become MHHS Qualified:

Route	Entry Requirements <sup>1</sup>	MHHS Qualification		
SIT participants	<b>PIT DBT1 Completion</b> <i>(reviewed by MHHS Programme)</i>	<b>SIT</b> <i>(reviewed by MHHS Programme)</i>	<b>Security and Organisational Controls Evidence</b> <i>(Developed by Code Bodies)</i>	<b>DBT 2 PIT as required to meet Code Body requirements</b>
Non-SIT participants	<b>PIT DBT 1 Completion</b> <i>(reviewed by Code Bodies)</i>	<b>Qualification Testing</b> <i>(accountability of Code Bodies but dependent on SIT development)</i>	<b>Security and Organisational Controls Evidence</b> <i>(Developed by Code Bodies)</i>	<b>DBT 2 PIT as required to meet Code Body requirements</b>

<sup>1</sup> Programme participants will also need to connect to the test environments as noted in the Environment Approach and Plan; details will be provided in further iterations of QA&P

Timeline for MHHS Qualification





## Tranche Approach for SIT-Equivalent Testing

### Considerations

**Whilst determining the SIT-Equivalent Qualification tranches, the Code Managers will ensure they approach they take will:**

- Be fair and non-discriminatory
- Support a mixed eco-system during transition
- Take participant readiness into account
- Recognise participant preferences (e.g. group companies together or separate depending on resources)
- Consider Code Body resources



### High-level overview

- **Intention to Qualify:** Code Bodies will require Participants to assert their intention to undertake MHHSP Qualification
- **Tranche Allocation:** Code Bodies will allocate a tranche to each participant based on a first-come, first serve basis, considering the participant's tranche preference, and the maximum permissible tranche size. This will be done at least 6 months ahead of the tranche execution
- **Participant Readiness:** Tranches will be confirmed 2 months' ahead, and will consider the participant's Readiness Assessment reports and PIT progress to determine readiness for SIT-equivalent testing
- **Tranche Dropouts:** If a participant drops out of their allocated SIT-equivalent tranche during testing, the Code Manager cannot guarantee a space in another tranche, and will need to reassess based on tranche capacity



### Concern raised

- Some large suppliers responded to the first draft of the plan commenting that the non-discriminatory approach should prioritise large suppliers in the first tranche, as these participants have a far greater number of metering systems to get through the migration period
- These large suppliers argued that not doing so would be discriminating against them during migration

### Response

- Elxon legal advice confirms that the approach requested by the large suppliers would particularly favour one type of participant, and so would discriminate against others. Large suppliers have as much likelihood of being successful under the “first come first serve” approach
- Elxon will maintain the approach set out regarding tranche allocation
- Participants that seek a different approach could consider raising a Modification to BSC C12.11.2 (c)

### Concern raised

- Some participants were concerned that the allocation to tranches was taking place too late (between February 2024 and May 2024)
- Their view was that this should be completed as soon as possible, to provide participants with more certainty within planning activities

### Response

- Code Bodies requested participant feedback on the two options and received 7 responses (4 to keep current allocation, 3 to move earlier)
- Further comments were received around flexibility to reassign tranches if there are drop-outs, to ensure consideration for participant preferences
- We have other dependencies such as environment constraints, which the Code Bodies are discussing with Programme
- We have taken onboard comments and will keep the current tranche allocation approach and timelines, though we continue to reassess between now and the next version of the QA&P

- The QA&P outlines the purpose of Qualification during the MHHS Programme and the high-level plan and requirements for participants in relation to the BSC and REC
- As Code Bodies are responsible for MHHS Qualification, BSCCo and the REC Code Manager have worked together on this joint approach and plan, and will continue to work closely for the duration of the Programme
- Further updates to the QA&P will be made when the Programme release further information on the SIT Approach and Plans
- Qualification artefacts will be taken to PAB for approval at least 6 weeks after the release of the corresponding SIT artefact or dependency
- The following dates have been recently amended and are subject to further discussion and agreement between the Programme and Code Bodies

Iteration	Dependency following SIT Approach and Plans	Expected SIT Artefact Issue Date
Current version	N/A	N/A
Second version	SIT Component Integration Testing and Functional Testing	19/07/2023 and 16/08/2023
Third version	SIT Migration	20/12/2023
Fourth version	SIT Non-Functional	20/03/2024
Final version	SIT Operational	15/05/2024

Summary of QA&P	
Current Version	Future Iterations
Purpose and Principles	DIP Onboarding interactions
Qualification Routes	Service Activation
Scope of MHHS Qualification	QT requirements (developed from SIT)
Roles and Responsibilities	Placing reliance process
Qualification Planning	Qualification Approach Document (QAD) timeline
High level Qualification Evidence	Summary of more detailed QAD requirements
Qualification Approval	

- The QAD will set out the detailed evidence required for MHHS Qualification. All participants are required to complete the QAD and provide supporting evidence for assessment
- BSCCo and REC Code Manager will use this to assess whether participants have met the Qualification requirements, and are therefore able to be registered or appointed to MHHS migrated metering points
- Qualification artefacts will be taken to PAB for approval at least 6 weeks after the release of the corresponding SIT artefact or dependency
- The following dates have been recently amended and are subject to further discussion and agreement between the Programme and Code Bodies

Iteration	Programme Dependencies	Expected Dependency Date	Expected Approval from TMAG and PABs	Expected QAD Issue Date
Baseline	SIT Requirement to Test Traceability Matrix SIT Functional Test Scenarios and Test Cases	01/09/2023	November 2023	30/11/23
Final Version	All SIT Test Scenarios and Test Cases Start of Code Drafting Mop-Up Consultation Final version of the QA&P	17/04/2024	June 2024	28/06/24

Structure of QAD	
Organisation-specific sections	Role-specific sections
Company information	Operational solution
Programme governance	Technical solution
Change management	Processes and controls
Information security arrangements	Testing requirements and evidence

## Qualification Deliverables – QAD Roles

- To become qualified in an MHHS Role, a participant must complete all elements of the QAD relevant to that role
- The QAD must be approved by all Code Bodies that have governance over that role, specifically the BSC PAB and REC Code Manager where relevant

MHHS Roles	Nearest Equivalent Legacy Roles	Code Body
Smart Data Service (SDS)	New role but nearest comparator: Non-Half Hourly Data Collector (NHHDC) for traditional and smart metering systems and Half Hourly Data Collector (HHDC) for elective smart metering systems.	BSC
Metered Data Retriever (MDR) <sup>1</sup>	None	SEC Current assumption- not BSC
Advanced Data Service (ADS)	Half Hourly Data Collector (HHDC)	BSC
Unmetered Supply Data Service (UMSDS)	Meter Administrator (MA)	BSC
Unmetered Supplies Operator (UMSO)	Unmetered Supplies Operator	BSC
Licensed Distribution System Operator (LDSO)	Licensed Distribution System Operator (i.e. Distribution Network Operator; DNO)	BSC REC
Supplier Meter Registration Agent (SMRA) / Electricity Retail Data Agent (ERDA)	SMRA / ERDA	BSC REC
Supplier	Supplier	BSC REC
Metering Equipment Manager (Advanced)	Metering Equipment Manager (MEM)	REC
Metering Equipment Manager (Smart)	Metering Equipment Manager (MEM)	REC

Purpose

- Some participants use third-party providers to deliver technology components
- Participants may wish to split responsibility and place reliance on the testing done by those service providers or other participants using common technology solutions
- Code Bodies need to ensure that appropriate assurance is obtained over the ability of every participant to meet MHHS requirements

MHHS Placing Reliance Policy

- A high-level Placing Reliance Policy was developed by the MHHS Programme, in consultation with the Code Bodies
- This policy has been approved by TMAG, plus BSC & REC PABs
- The overarching Placing Reliance principles will be further discussed in the testing section later today

System Integration Testing (SIT)

- The MHHS Programme have outlined the specific criteria and process for SIT participants to place reliance within the Placing Reliance Policy
- The specific interaction with Code Bodies will be published in a future iteration of the QA&P

Qualification Testing (QT)

- Participants will need to include the details of how they plan to place reliance in their Intention to Qualify submission
- The specific criteria and processes for placing reliance will be published in a future iteration of the QA&P

### QWG and Testing WGs

- The Qualification Working Group (QWG) is an open group responsible for defining the approach to Qualification Testing
- Other relevant groups cover Migration, Data, Environments, SIT, and Non-Functional Testing
- See the [Testing Governance](#) page for more information on what these groups cover, who is eligible to join, and how to sign-up.

### PPC Bilaterals

- The PPC Team is available for monthly bilateral sessions with all Programme participants
- The sessions are used to enable a two-way conversation between the participants and the Programme – wider Programme team members can join these sessions as requested
- Contact [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) to schedule your next meeting

### MHHS Website

- The [MHHS website](#) provides access to publicly available information on the Programme.
- It includes the latest information on the Programme workstreams, governance, news and upcoming events.
- There is a specific [Qualification](#) page that notes the latest updates regarding MHHS Qualification

### Qualification Queries & Technical Support

- For Qualification queries, please contact the Testing mailbox: [testing@mhhsprogramme.co.uk](mailto:testing@mhhsprogramme.co.uk)
- For technical support, including access to the Collaboration Base, please contact our IT Helpdesk at [ITHelp@mhhsprogramme.co.uk](mailto:ITHelp@mhhsprogramme.co.uk)

### Newsletter

- The Clock is the Programme's weekly newsletter
- It provides you with updates and key information to support delivery of the Programme
- It signposts events, plans, reporting, and documents to assist in planning, design, development, testing and delivery
- To sign up, please contact the PPC team [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) or register by clicking in the footer of any page on the [MHHS website](#)



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

---

# Break 11:00 – 11:30

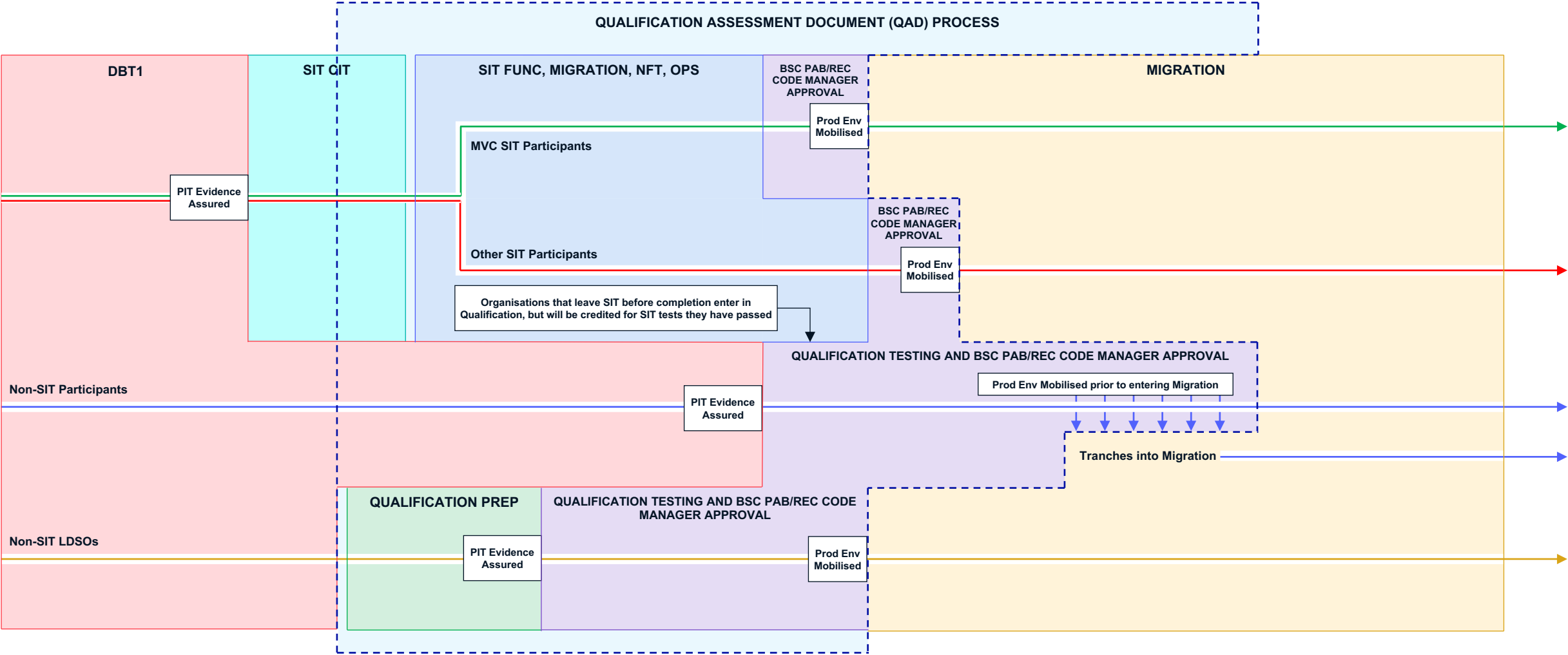




## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
<i>Break &amp; coffee</i>			11:00 – 11:30	30 minutes
<b>Key testing updates</b>	<b>Lee Cox &amp; Dominic Mooney</b>	<b>MHHS Programme</b>	<b>11:30 – 12:10</b>	<b>40 minutes</b>
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
<i>Lunch &amp; stalls</i>			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes

# Programme Participant Journey Overview





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

---

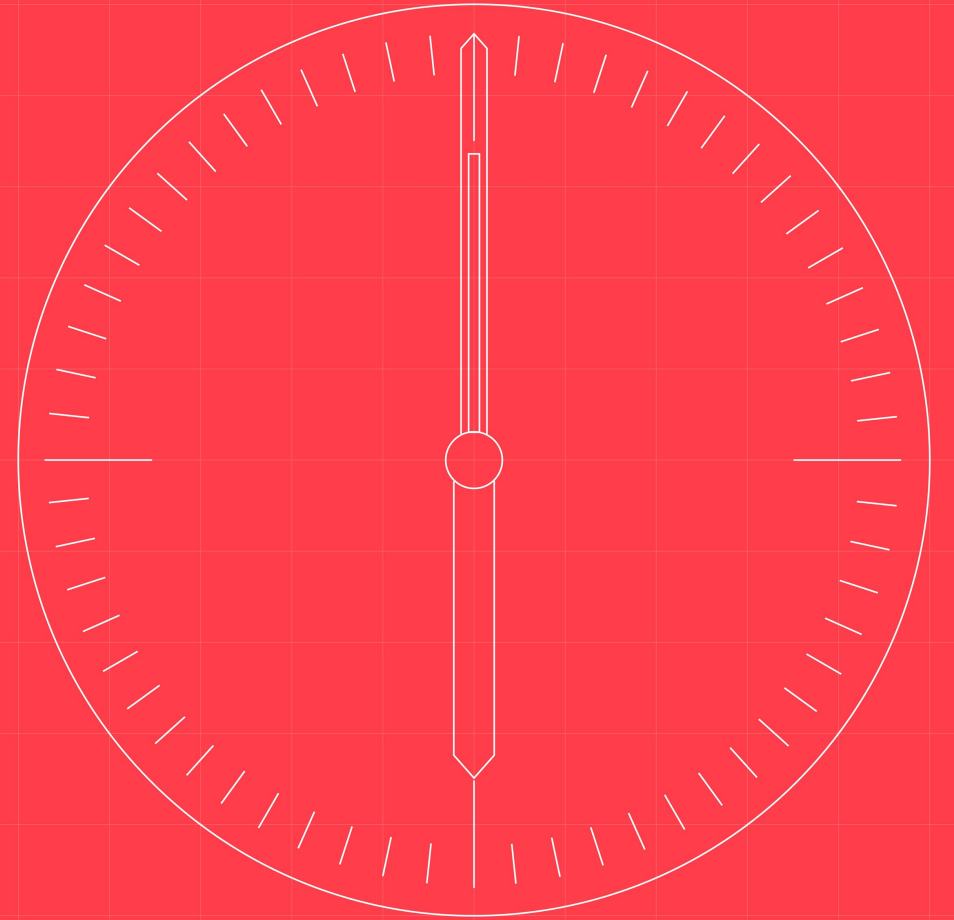
# Key Testing Updates

---

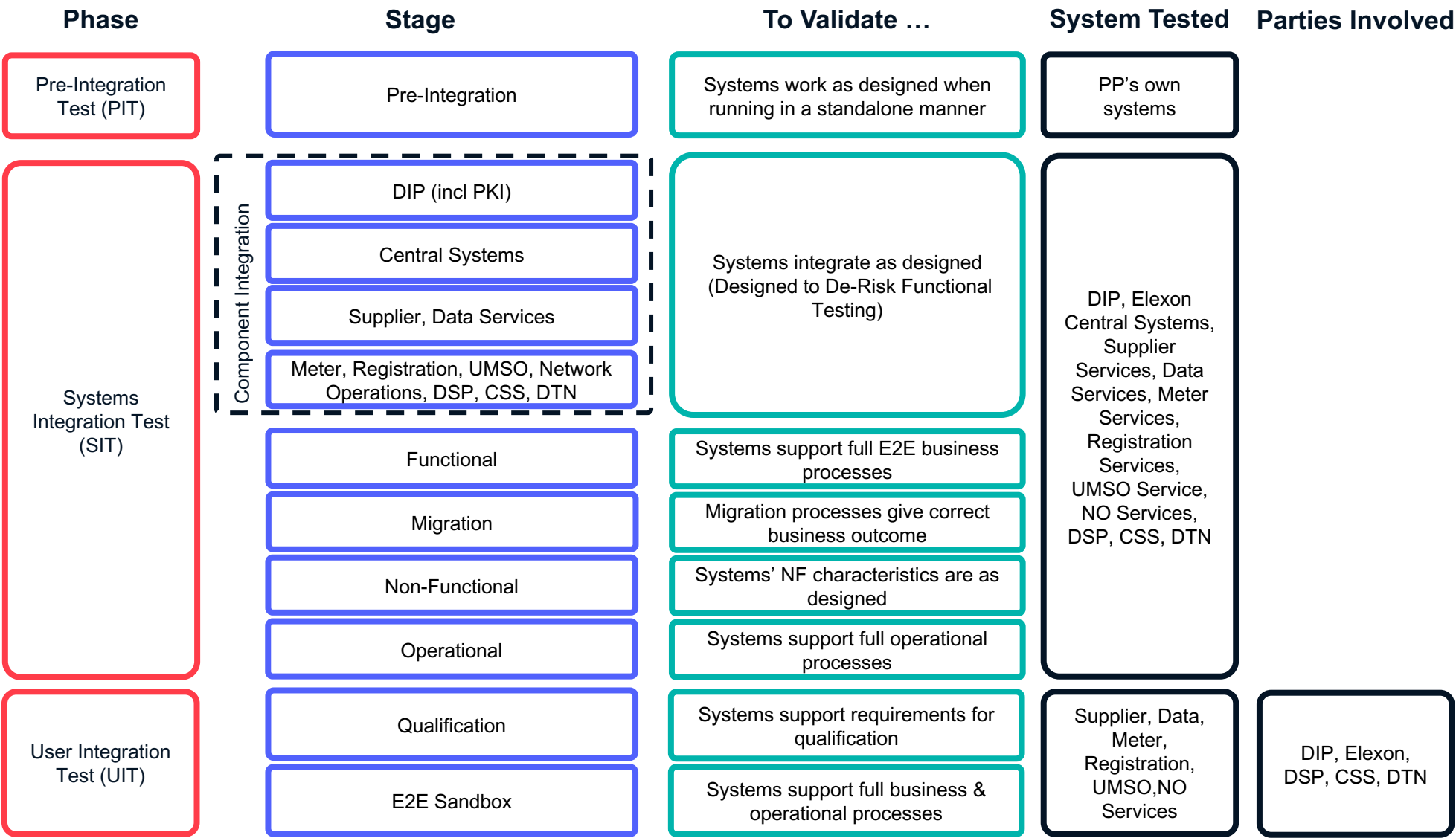
Lee Cox & Dominic Mooney, *MHHS Programme*

<div>Introduction</div> <div>Lee Cox</div> <div>5 minutes</div> <div></div>	<div>Key Testing Phases</div> <div>Lee Cox</div> <div>10 minutes</div> <div></div>	<div>Placing Reliance</div> <div>Dominic Mooney</div> <div>10 minutes</div> <div></div>	<div>Q&amp;A</div> <div>Facilitated by Claire Silk</div> <div>15 minutes</div> <div></div>
--	---	--	---

# Introduction

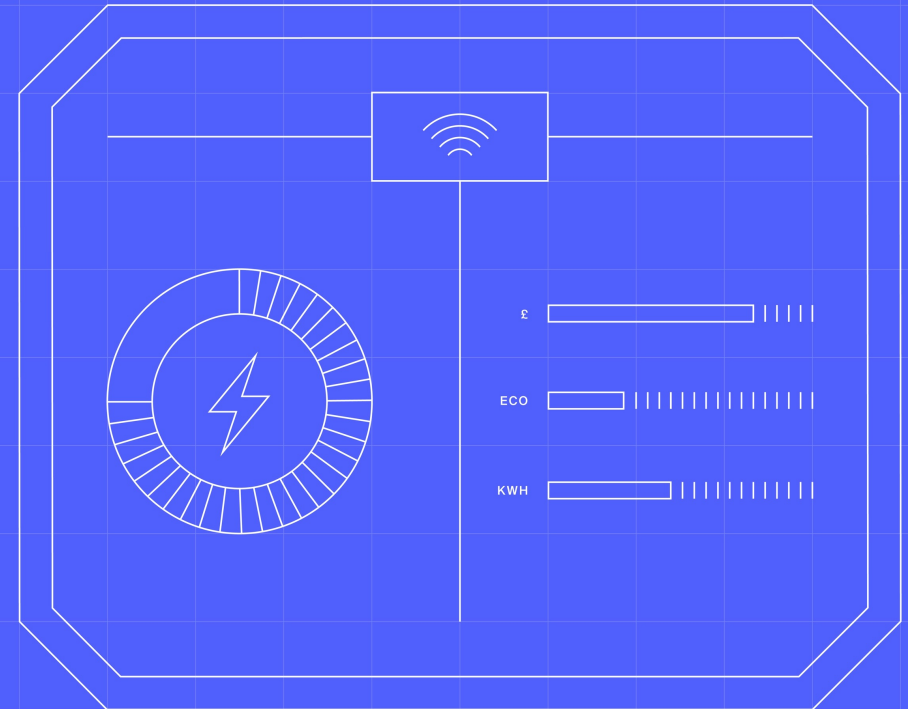






# Key Testing Phases

## PIT, CIT & SIT





Key information

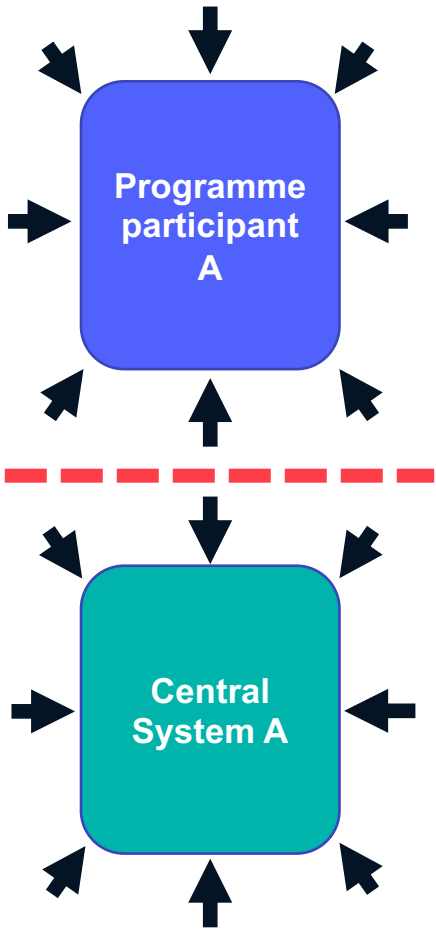
- ✓ **PIT:** to be performed by **all** users of the new settlement arrangements to validate every system or service that is included in the End-to-End (E2E) MHHS design
- ✓ PIT will be performed by all participants, whether this is via the SIT route or Qualification route
- ✓ Participants and central systems own testing in isolation – must prove that they have designed, developed and tested their systems, aligning to the requirements of MHHS E2E Design
- ✓ Responsibility of each individual participant using their own Systems, Test Environments, Test Data, Test Scenarios/Cases, Test Processes and Tools
- ✓ Exit from PIT will be assured by the MHHS SI Test Assurance Team and Code Delivery Bodies
- ✓ MHHSP has adopted a model for a phased approach for PPs PIT via entry into 5 Phases of SIT

Test deliverables

Test deliverables to be provided by those undertaking PIT	
PIT Approach and Plan	
Requirements to test traceability matrix (RTTM)	
PIT Test Scenarios	
PIT Test Readiness Reports	
PIT Test Execution Progress Reports (including test issues and defects)	
PIT Test Completion Report (draft and approved)	

Key documents

- ✓ [E2E Testing & Integration Strategy](#)
- ✓ [PIT Guidance Document](#)



**Key information**

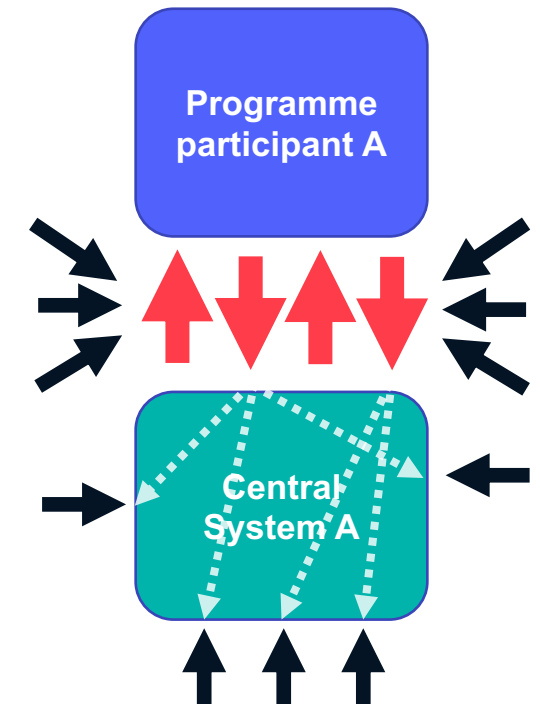
- ✓ **SIT Component Integration Testing (CIT)** is the first SIT stage. This is designed to de-risk future SIT Functional Testing. The deadline to volunteer for SIT participation has now passed
- ✓ Participants forming part of the Programme Minimum Viable Cohort (MVC) complete PIT, and prepare to test their systems integrated with other elements of the MHHS ecosystem
- ✓ Interfaces between Systems and the Data Integration Platform (DIP) is proven to have been built correctly, through verification of the ability to send and receive Interface IF/PUB messages
- ✓ DIP Message routing is also tested
- ✓ Testing will focus on the ability to send and receive files and messages, and not to interrogate or assess completeness of the file
- ✓ CIT is Test managed by the MHHS SI Test Team

**Consultations update**

- ✓ CIT Test Approach and Plan and associated CIT Test Data Approach and Plan currently undergoing Industry Consultation between 09 to 22 June
- ✓ [SIT CIT Test Approach and Plan](#) and the [SIT CIT Test Data Approach and Plan](#)

**Distinct entry points into CIT**

Interval	Entry Date	Systems / Services
Interval 1	30 Oct 23	DIP, VAS, Settlement Operations, LSS, MDS
Interval 2	13 Nov 23	MPRS (Drop 1)
Interval 3	27 Nov 23	SDS and ADS
Interval 4	11 Dec 23	Metering Services
Interval 5	15 Jan 24	Suppliers, Network Operations, UMSO
Interval 6	29 Jan 24	UMSDS, EES, MPRS (Drop 2)

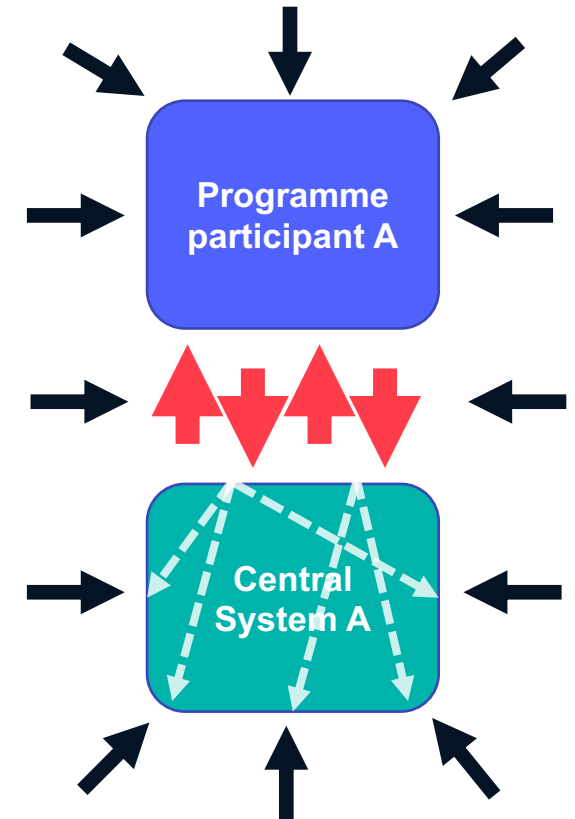


**Key information**

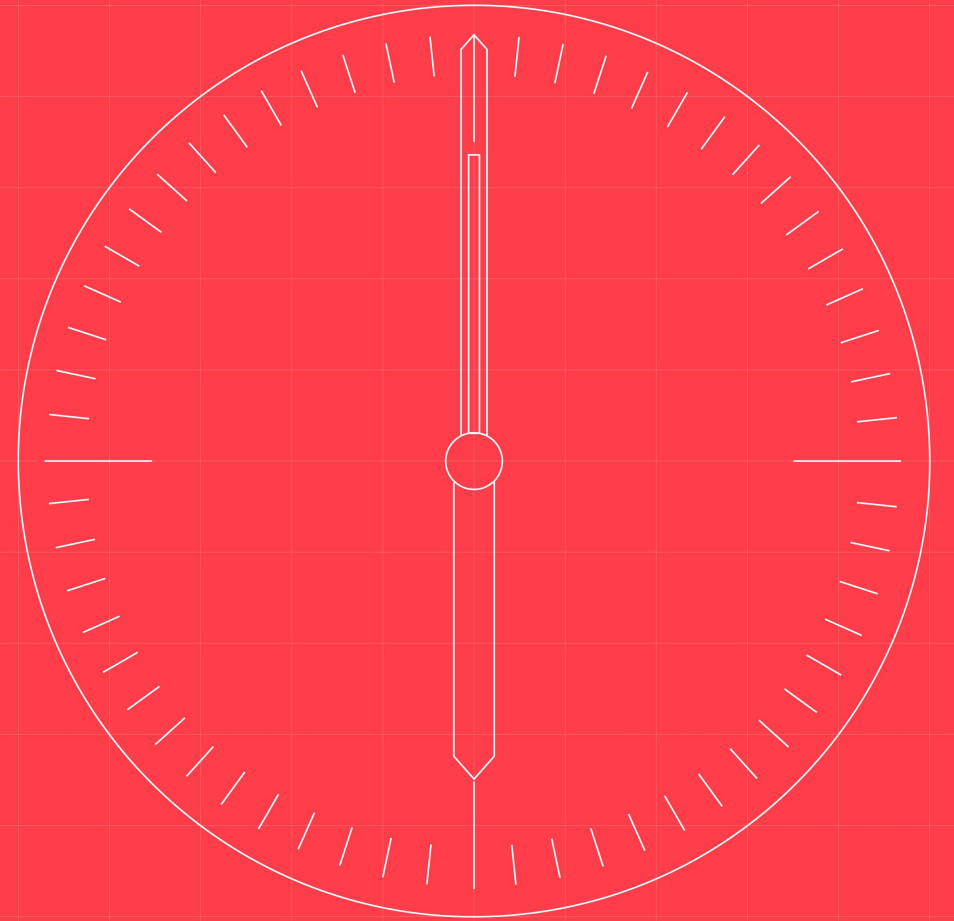
- ✓ **Systems Integration Testing (SIT) Functional** : performed by service providers of the central systems and other parties to test E2E operations
- ✓ Continuing from SIT-CIT, participants and central systems functionally test E2E systems. This will enable full E2E functional proving of the MHHS solution
- ✓ The scope of SIT Functional will align with Qualification Testing so that:
  1. MVC/SIT Volunteers on successful completion of their SIT Testing will qualify to participate on the MHHS market
  2. Participants opting to verify their systems in Qualification Testing will exercise an equivalent set of SIT Functional tests
- ✓ SIT proves the E2E design works through testing using multiple roles; while Qualification proves individual roles comply with the E2E design
- ✓ SIT Functional is due to commence on 11 March 2024

**Consultations update**

- ✓ SIT Functional Test Approach and Plan and associated SIT Functional Test Data Approach and Plan due for Industry Consultation on 07 July 2023
- ✓ Documents will be developed within the relevant Working Groups



# Placing Reliance



# Key points to note on placing reliance

## Principles

- Ensuring no unnecessary duplication of effort for participants in achieving the programme testing objectives (either in SIT or Qualification)

## Key information

- If your software or service provider has successfully completed SIT, the Programme intend **to allow reliance to be placed on that testing**, subject to verification that system and service arrangements are the same as those on which reliance is being placed
- Qualifying Organisations (and not their 3<sup>rd</sup> party providers) are accountable for executing (or organising the execution of) and evidencing their own completion of MHHS Programme industry testing

## Requirements

- The Programme will ask participants (in conjunction with software/service providers) to provide **a clear statement** of the software architecture, to demonstrate that all configurations in use have been tested

## Key Documents

- The criteria for when Reliance can be placed was developed by the programme and Code Delivery Bodies
- The ['MHHS Placing Reliance Policy'](#) document was approved by the Programme and PAB governance in April 2023

### Testing Queries & Technical Support

- For Testing queries, please contact the Testing mailbox: [Testing@mhhsprogramme.co.uk](mailto:Testing@mhhsprogramme.co.uk)
- For technical support, including access to the Collaboration Base, please contact our IT Helpdesk at [ITHelp@mhhsprogramme.co.uk](mailto:ITHelp@mhhsprogramme.co.uk)

### PPC Bilaterals

- The PPC Team is available for monthly bilateral sessions with all Programme participants
- The sessions are used to enable a two-way conversation between the participants and the Programme – wider Programme team members can join these sessions as requested
- Contact [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) to schedule your next meeting

### MHHS Website

- The [MHHS website](#) provides access to publicly available information on the Programme.
- It includes the latest information on the Programme workstreams, governance, news and upcoming events.

### The Collaboration Base

- The Collaboration Base is the window to the Programme, providing access to documents for information, collaboration and review
- The dPMO tool provides participants with a set of interactive and user-friendly dashboards that display core Programme information

### Newsletter

- The Clock is the Programme's weekly newsletter
- It provides you with updates and key information to support delivery of the Programme
- It signposts events, plans, reporting, and documents to assist in planning, design, development, testing and delivery
- To sign up, please contact the PPC team [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) or register by clicking in the footer of any page on the [MHHS website](#)



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

---

Please send in your questions using  
sli.do  
**#MHHS**

---

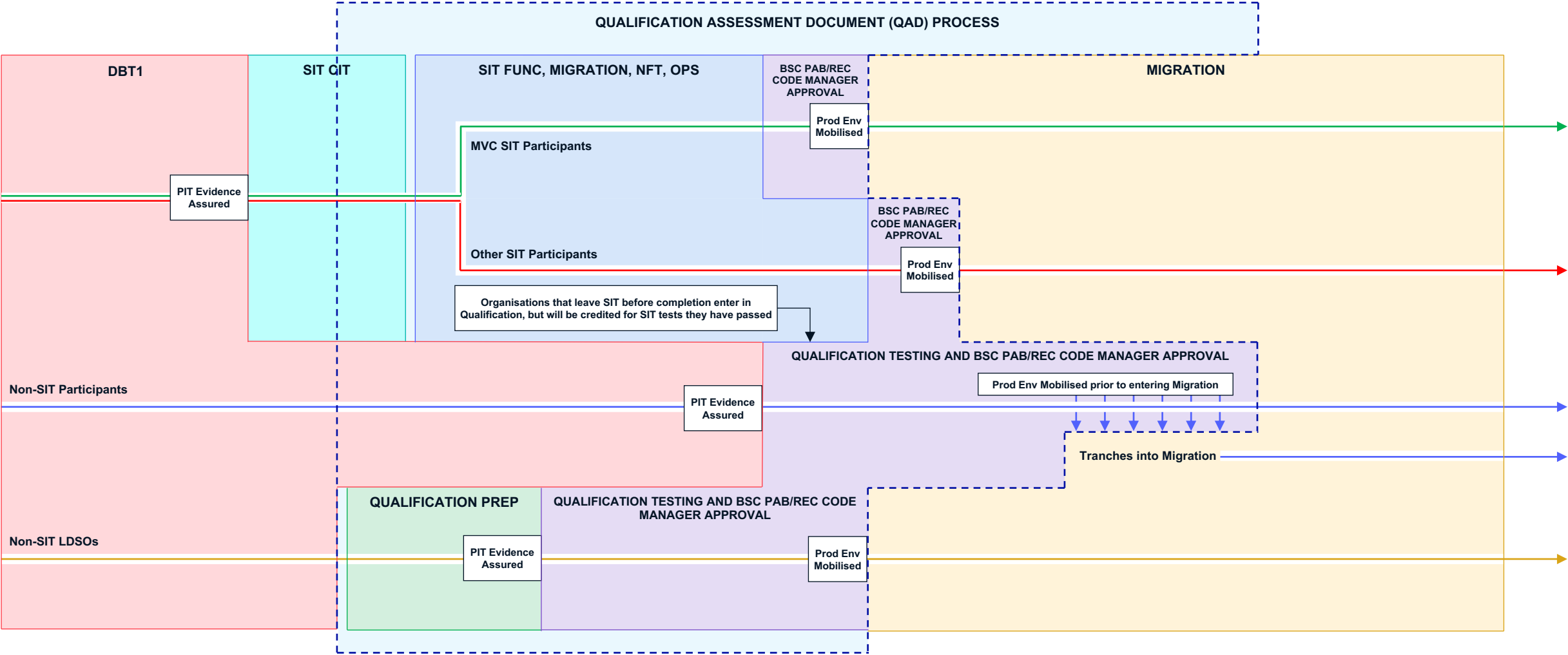
# Thank you



## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
<i>Break &amp; coffee</i>			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
<b>Test data &amp; data cleanse</b>	<b>John Wiggins</b>	<b>MHHS Programme</b>	<b>12:10 – 12:50</b>	<b>40 minutes</b>
<i>Lunch &amp; stalls</i>			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close*	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes

# Programme Participant Journey Overview





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

---

# Test Data & Data Cleanse

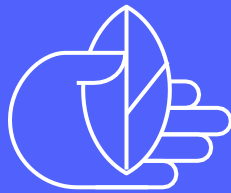
---

John Wiggins, *MHHS Programme*

## Introduction

John Wiggins

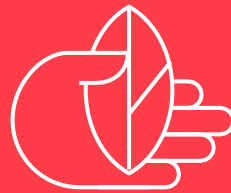
5 minutes



## Data Cleanse and Population Activities

John Wiggins

10 minutes



## Test Data Cut Activities

John Wiggins

10 minutes



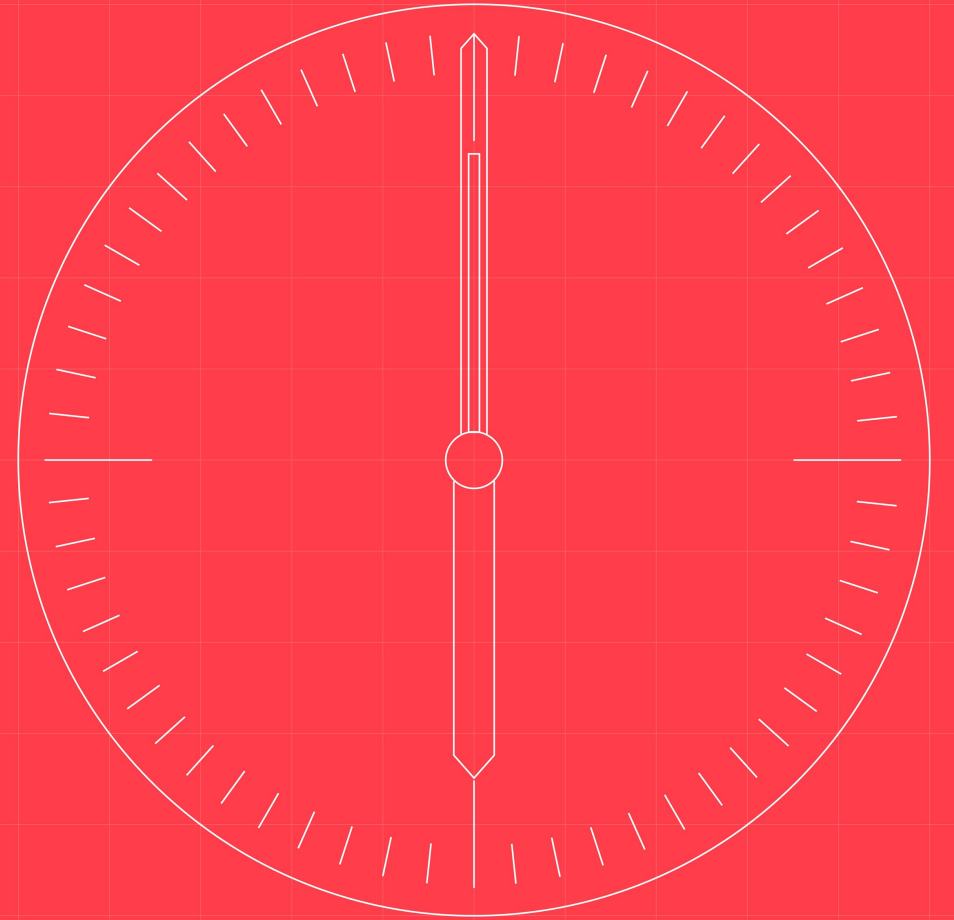
## Q&A

Facilitated by Claire Silk

15 minutes



# Introduction



# What we'll cover today



Why do we need to cleanse data and how will we populate new MHHS data?

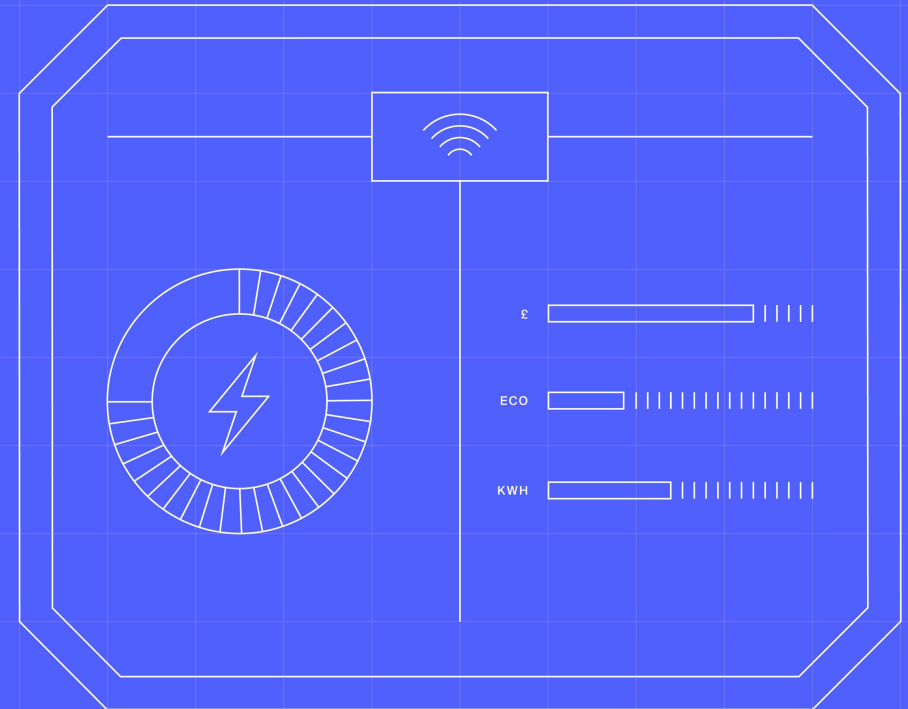


What responsibilities will individual parties have to cleanse / populate data and how will the Programme govern progress?



How and when will participants take a data cut for testing?

# Data cleanse & population activities



The data cleansing and population approach for the Programme is based on the following principles:

- Data cleansing activities must be practical and proportionate to meet Programme requirements. This means that data should be cleansed **prior to migration start** in order to avoid greater costs caused by complexity
- Data cleansing activities will be prioritised so that those which realise the greatest value to participants are undertaken
- Each activity will have its own set of quality criteria which must be achieved at an industry level. Criteria will be set by the Programme using a risk-based approach, to ensure that the correct balance is achieved between Programme delivery and quality outcomes
- Planning and targets will be aligned to Programme milestones and achievable targets will be set
- Participants will be obligated to meet individual targets, set out in the **Data Cleanse Plan**, which in turn is a defined programme artefact within **section C.12 of the BSC**
- The Programme will provide a centralised reporting function where performance will be measured, and impact to Programme milestones assessed



## Introduction to the Data Cleanse Plan

- The Data Cleanse Plan is set out in section C of the BSC
- The plan identifies, in detail, each activity that needs to be completed to support the new arrangements and builds on the recommendations in the **Data Assessment Report**
- Each Activity is supported by a clear plan describing:
  - Responsibility of each participant
  - Target end state and means of measurement and monitoring approach
  - Dates for commencement and completion (and any other required milestones)
  - Reliance on other industry initiatives

## Review and approval of the Plan

### Migration Working Group (MWG)

- Plan development has been undertaken within MWG and several supporting technical working groups, to explore the key issues in detail
- Consensus has been reached within these groups which has allowed the activities, timescales and measurement requirements to be defined
- The Plan is currently out for industry consultation (ending 23 June 23)

### Testing & Migration Advisory Group (TMAG)

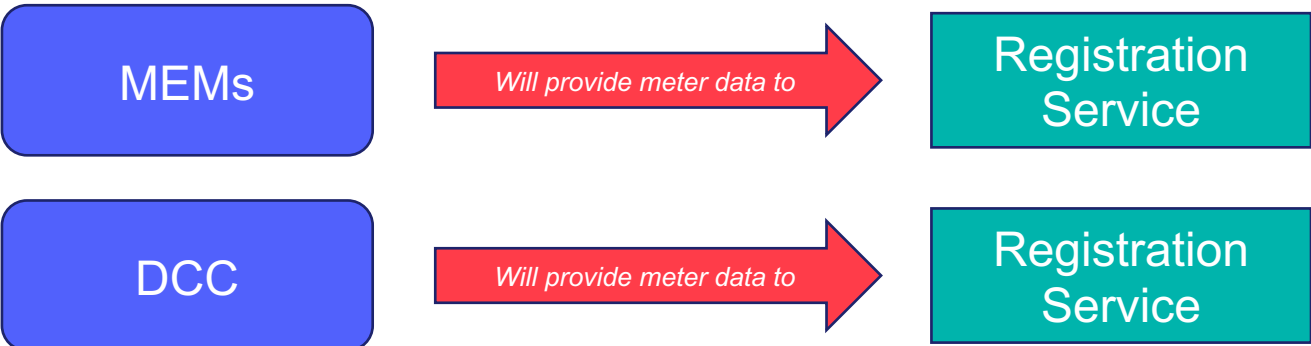
- Following consultation, the TMAG will approve the plan in July 2023
- On an ongoing basis participant performance against the plan will be monitored by the Programme and reported, by exception, to TMAG

Association of Import MPANs and Export MPANs (following CP1558 implementation in June 2023)



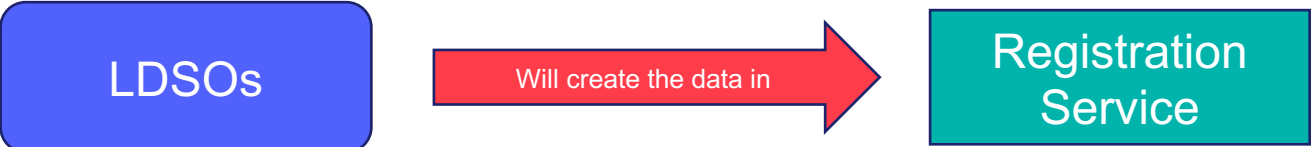
- LDSOs, using data which already exists in the Registration Service will create associations between import and export MPANs (those MPANs which share the same physical Metering Point / Meter)
- Export Suppliers and MEMs will support this activity for MPANs that the LDSO is not able to associate

Population of Smart Meter Data (following R0032 implementation in June 2023)



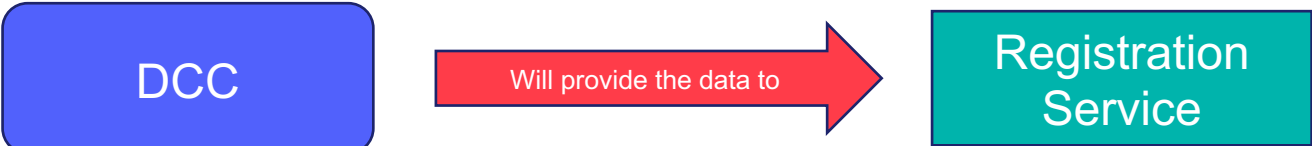
- MEMs will extract data from their systems and provide to LDSOs to load into their Registration Services so that 'D0312' data is populated for smart meters
- DCC will extract EMSE ID data and provide to LDSOs to load into their Registration Services

Creation of Connection Type (following CP1558 implementation in June 2023)



- LDSOs, using data which already exists in the Registration Service will create Connection Type for all MPANs – which will state if the MPAN is WC, LV CT, LV HV, LV EHV or Unmetered
- Suppliers and MEMs will support this activity for MPANs that the LDSO is not able to derive a value for

Population of Domestic Premises Indicator (at M10)

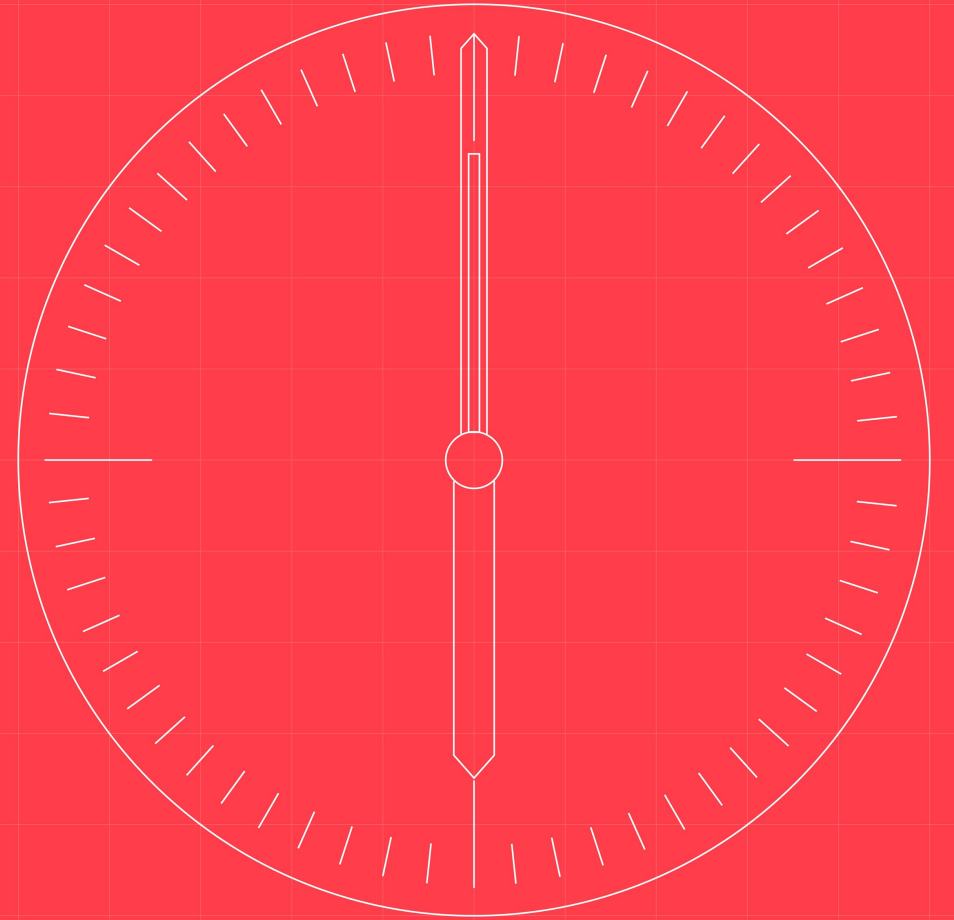


- The DCC will extract Domestic Premises data and provide it to LDSOs to load into their Registration Services. This will be undertaken at **M10** when the new MHHS systems go live

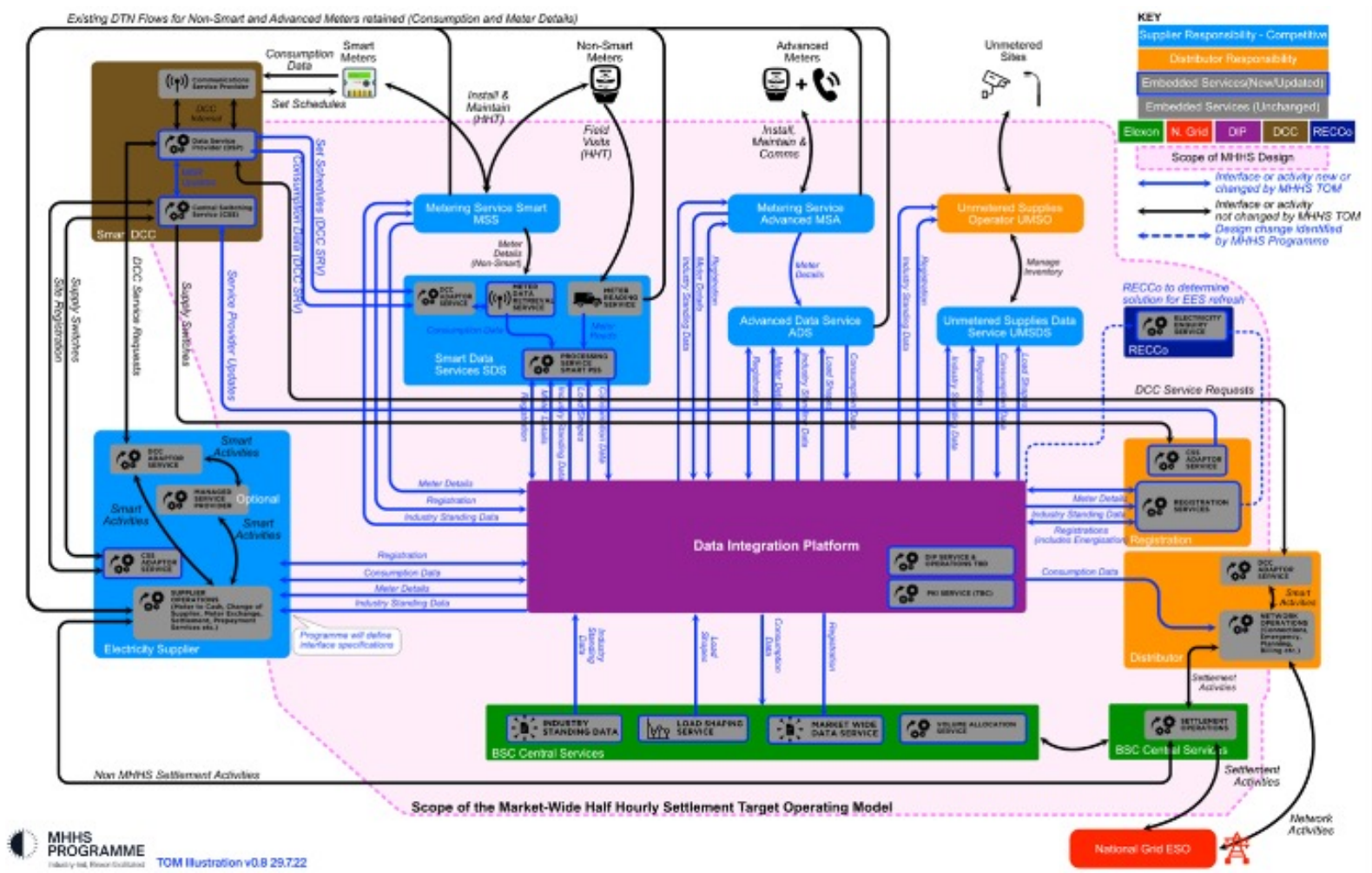
Data Cleanse and Population Activities

Activities	2023	2024	2025
<b>Association of Import / Export MPANs</b>			
<b>Stage 1:</b> LDSOs match Import / Export MPANs based on matching addresses			
<b>Stage 2i:</b> LDSOs report on unmatched Export MPANs & Export Suppliers inform DNOs of corresponding Import MPANs			
<b>Stage 2ii:</b> LDSOs validate data from Export Suppliers & LDSOs report on unmatched Export MPANs			
<b>Stage 3:</b> LDSOs to perform site visits to determine site is correctly metered and an Import MPAN exists			M10
<b>Connection Type Population</b>			
<b>Stage 1i:</b> Assigning Unmetered Measurement Classes to an Unmetered Connection Type			
<b>Stage 1ii:</b> Assigning Whole Current Measurement Classes to a Whole Current Connection Type			
<b>Stage 2:</b> Assigning Site Specific Line Loss Factor Classes to CT Connection Types			
<b>Stage 3:</b> Assigning NHH Metering Systems to the correct Connection Types			
<b>Stage 4:</b> Any MPANs that have a Null connection type are populated with 'W' (Whole Current)			M10

# Test Data Cut Activities



How can we provide consistent test data for integrated tests?





### Who is impacted?

Test data cut activities impact **all SIT Programme participants**



### What is required?

Each SIT participant to obtain a “**Production Back Up**” of their own relevant test systems / databases due to be tested on the MHHS Programme



### Why is this needed?

In order to provide **consistent Test Data** for Integrated Tests:

- CIT
- SIT Functional



### When is this required?

This data cut is required to be completed on **19 August 2023**

## Consultation with industry

- In recent weeks our Overall Test Data Approach and Plan has been under Industry Consultation
- The approach defines a stepped approach to how we will obtain sufficient and appropriate Test Data to support Test Execution throughout the Programme's System Integration Test Phase. This was to be done via a **single Data Cut**
- **In response to Industry feedback, the Programme now wishes to tailor the provision of Test Data, by introducing a Data Cut specifically for SIT, and additional Data Cuts for later test phases**

## Timing of data cuts

- In response to industry feedback, the Programme now wishes to tailor the provision of Test Data, by introducing a **Data Cut specifically for SIT**, and additional Data Cuts for later test phases
- Data Cut #1 will take place on **19 August 2023**. The Programme is requesting that **SIT participants only** take a data back up of their systems, and provide a data cut
- The timing and amount of additional data cut(s) for later test phases is TBC



### Data Cut #1 will require:

- Each participant must obtain a **Production Back Up** of their own relevant test systems / databases due to be tested on the MHHS Programme
- Each participant must store the data obtained in a form suitable for it to be loaded into its own test systems / databases ahead of the start of SIT
- Each participant is required to provide, within one week of the Data Cut, a subset of the data obtained to the MHHS SI team via a secure solution set up by the Programme. The details of the Secure Solution will be communicated to industry by **19 July**
- The data items requested will only be the ones which need to be aligned across all participants' systems in order to have a coherent data set for SIT

## Next steps

- **19 June – 19 July 2023:** MHHS SI Test Team will conduct bi-laterals with each SIT participant to discuss specifically what subset of Data is required
- MHHS SI team will conduct cleansing, augmentation and transformation as required, and will allocate the manipulated data (e.g. MPANs) to the relevant participants (allocation will look to match MPANs to existing active suppliers)
- Once manipulated, MHHS SI team will return the augmented data to each participant (over the same secure solution). Participants must then upload to their relevant test systems / databases prior to the start of their entry into the relevant SIT test stage. This date will align to the SIT Readiness check completion dates agreed with each participant

## Augmented data

Participants should expect to receive at least two sets of augmented data:

- **1<sup>st</sup> set:** support CIT Test Execution (ahead of CIT)
- **2<sup>nd</sup> set:** to support SIT Functional Test Execution (ahead of SIT Functional)
- Additional sets, should circumstances dictate following testing, that exceeds the estimated amount of testing, retesting and regression testing

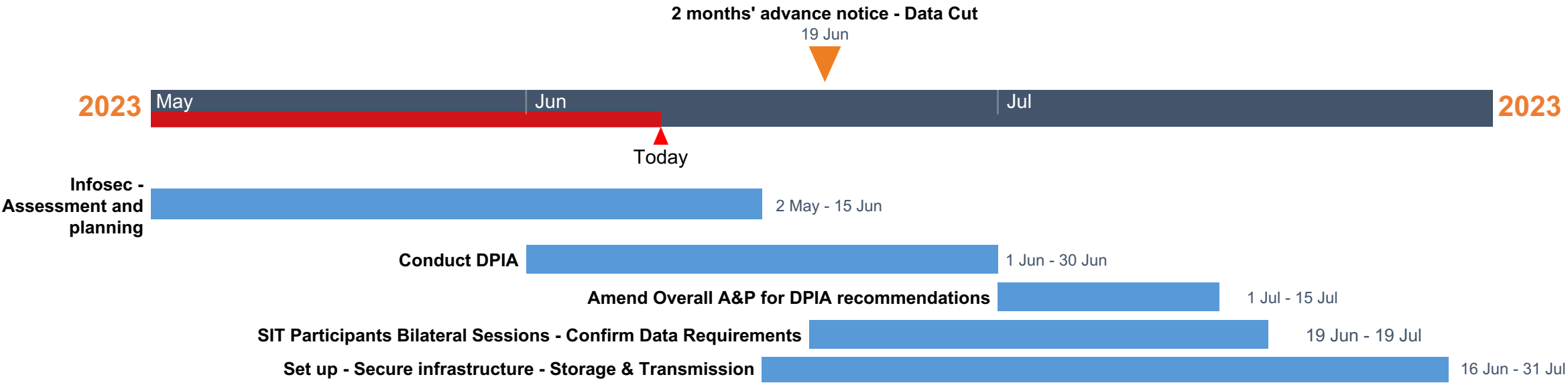
## Responsibilities of participants

Each participant to retain the responsibility of:

- Obtaining or developing appropriate means for conducting the Production Back Up
- Storing that data
- Extracting and transferring the subset data required by the MHHS SI Team
- Loading the data cut into its own test systems / databases
- Updating its own test systems / databases with the augmented data provided by the MHHS SI Team

### Key points to note

- SIT testing will utilise production data
- Elexon are undertaking a Data Protection Impact Assessment (DPIA) to assure that this activity will be undertaken with a clear understanding of the security risks, plus the controls required to mitigate these risks
- SIT participants will be required to **accept data sharing agreements** with Elexon to support the use of this data
- MPAN, Address and Meter Serial Number are considered to be **personally identifiable information** and are covered within the scope of GDPR
- Real personal data related to consumption will not be utilised



### Testing Queries & Technical Support

- For Testing queries, please contact the Testing mailbox: [Testing@mhhsprogramme.co.uk](mailto:Testing@mhhsprogramme.co.uk)
- For technical support, including access to the Collaboration Base, please contact our IT Helpdesk at [ITHelp@mhhsprogramme.co.uk](mailto:ITHelp@mhhsprogramme.co.uk)

### PPC Bilaterals

- The PPC Team is available for monthly bilateral sessions with all Programme participants
- The sessions are used to enable a two-way conversation between the participants and the Programme – wider Programme team members can join these sessions as requested
- Contact [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) to schedule your next meeting

### MHHS Website

- The [MHHS website](#) provides access to publicly available information on the Programme.
- It includes the latest information on the Programme workstreams, governance, news and upcoming events.

### The Collaboration Base

- The Collaboration Base is the window to the Programme, providing access to documents for information, collaboration and review
- The dPMO tool provides participants with a set of interactive and user-friendly dashboards that display core Programme information

### Newsletter

- The Clock is the Programme's weekly newsletter
- It provides you with updates and key information to support delivery of the Programme
- It signposts events, plans, reporting, and documents to assist in planning, design, development, testing and delivery
- To sign up, please contact the PPC team [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) or register by clicking in the footer of any page on the [MHHS website](#)



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

---

Please send in your questions using  
sli.do  
**#MHHS**

---

# Thank you



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

---

# Lunch & Stalls 12:50 – 14:20

*Please visit the stalls for a chance to view a demonstration of the Data Generator, along with the opportunity to meet the IPA, DIP, Testing & PPC Teams*





## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
Break & coffee			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
Lunch & stalls			12:50 – 14:20	90 minutes
<b>DIP onboarding overview</b>	<b>Richard Gwatkin, Robert Golding &amp; Kevan Gleeson, Chris Wood</b>	<b>MHHS Programme, Elexon</b>	<b>14:20 – 14:50</b>	<b>30 minutes</b>
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes



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

---

# DIP Onboarding Overview

---

Richard Gwatkin, Robert Golding & Kevan Gleeson, *MHHS Programme*

Chris Wood, *Elexon*

**Introduction to the DIP**

**Richard Gwatkin**

5 minutes



**DIP Onboarding Overview**

**Chris Wood, Robert Golding,  
Kevan Gleeson**

20 minutes



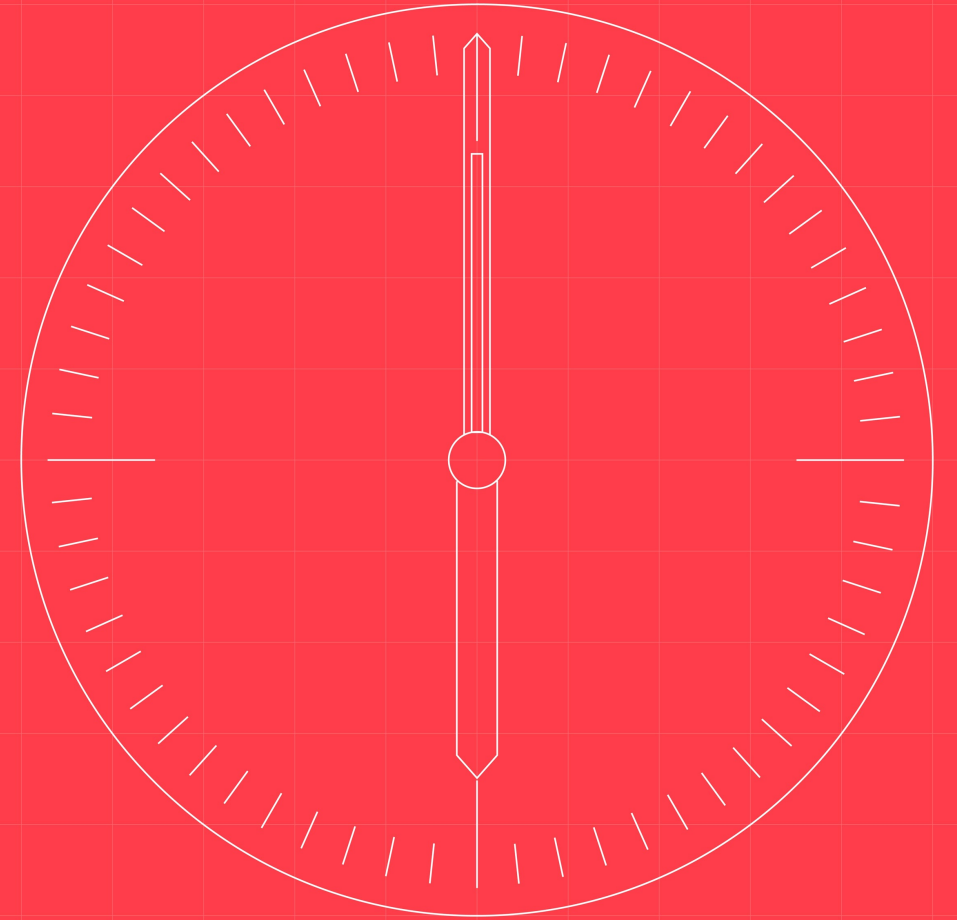
**Finding out more about DIP**

**Richard Gwatkin**

5 minutes



# Introduction to the DIP



# Introduction to the Data Integration Platform (DIP)

## What is the DIP?

- The DIP is a cloud hosted Event Driven Architecture (EDA) middleware component and is the central capability in the MHHS Target Operating Model (TOM)
- The DIP will be a key enabler to realising the benefits associated with the Programme

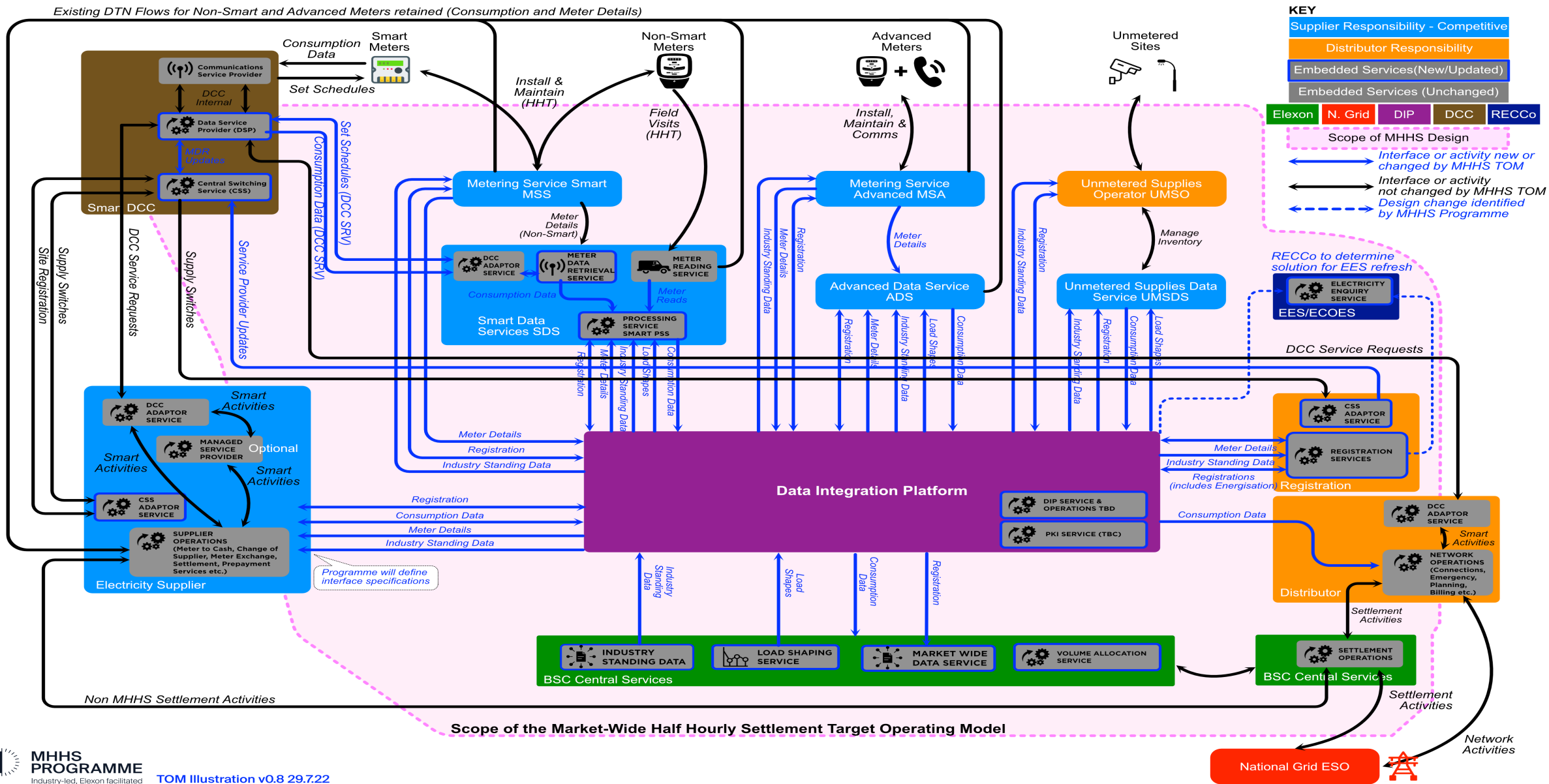
## Why do we need the DIP?

- We need the DIP to act as a core component and process the flow of industry messages between participants

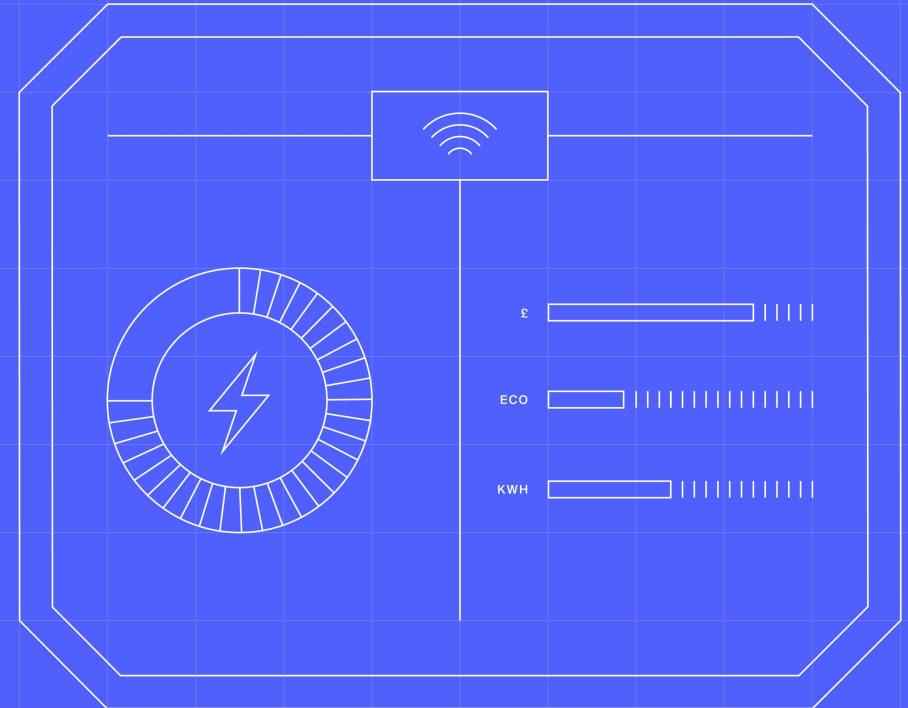
## Key points to note

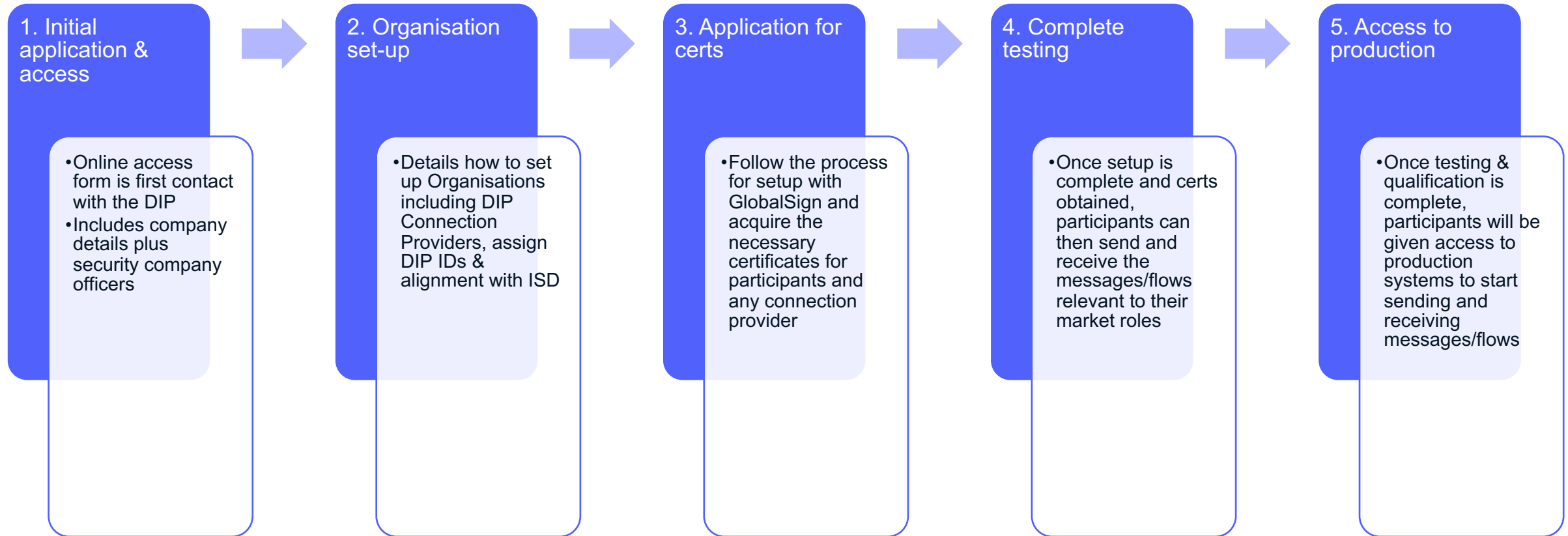
- Avanade were appointed as the DIP service provider in January 2023 to Design, Build, Test, Implement, Run and Maintain the DIP
- Avanade have subsequently been working through their initial phases of mobilisation and design
- With the Design phase complete, Build has started in order to hit the M9 milestone
- A number of participant-impacting deliverables have been through the consultation process recently, namely the Code of Connections and PKI Policy

Introduction to the DIP

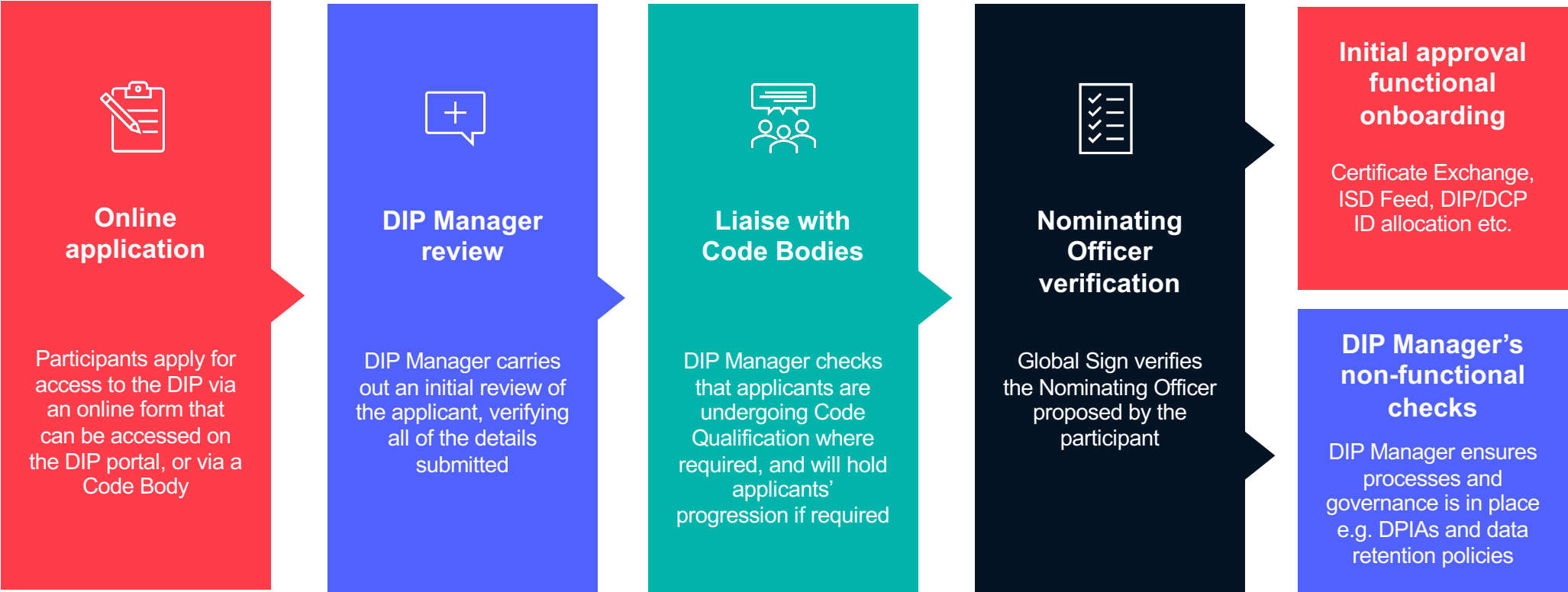


# DIP Onboarding Overview









DIP Access Request Form

DIP Service User Company

Company Number:

Company Name:

Address:

+

MPID/Market Roles (if known) ...or..

+

Requested DIP Roles

☒

DIP Connection Provider

Supporting information:

Company details as they appear on Companies House

For organisations already active within the market declare their existing MPIDs/Market Roles

For new organisations can state the DIP roles they are applying for (if applicable)

Organisations wanting to act as a DCP check the box

+

Company Officials - need to appoint (Nominating Officer/SRO/ARO/TC)

Name:

Position:

Role :

☒

NO/SRO/ARO/TC

telephone:

e-mail:

Company Officials completed for each of the NO/SRO/ARO/TC

+

Market Participant (additional to above)

Company Number:

Company Name:

Address:

+

MPID/Market Roles (if known)

+

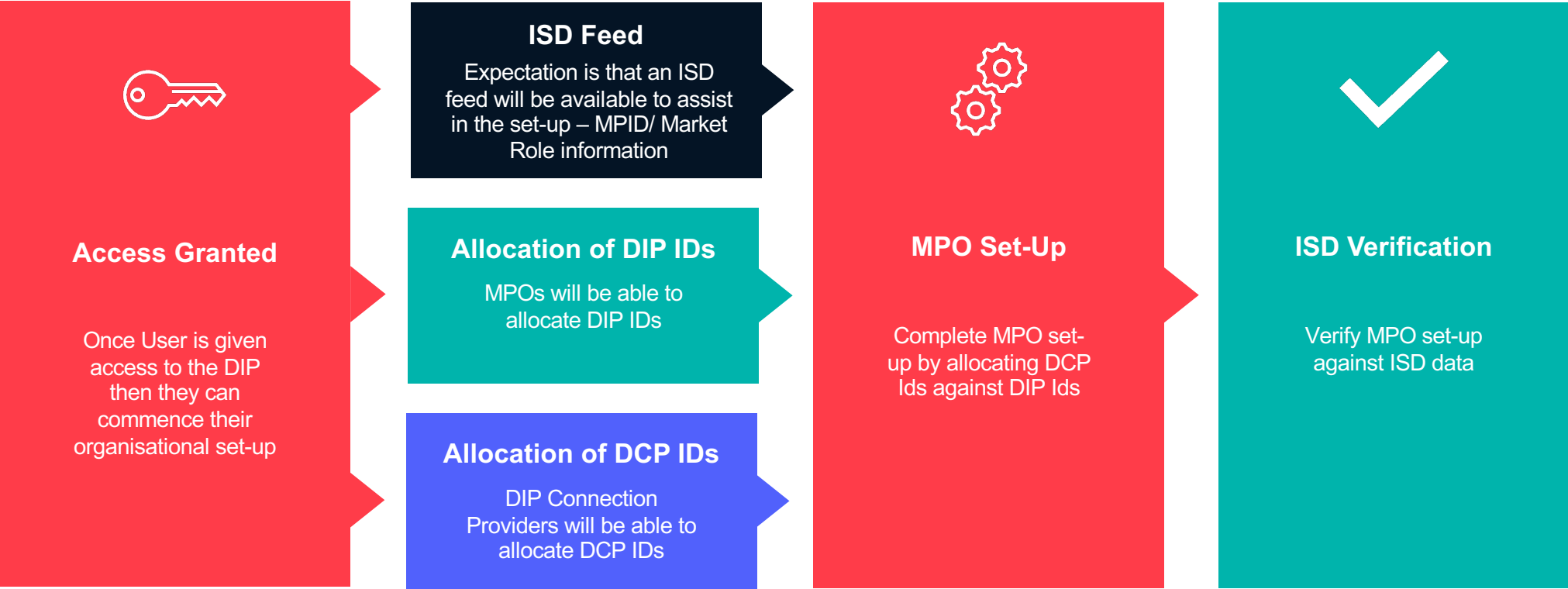
Requested DIP Roles

+

Company Contacts (if applicable)

Market Participant sub form completed for any child MPOs that fall within the scope of the parent. Also provides the opportunity to provide contact details for officers relating only to those MPOs

Mock-up of the DIP access request form, detailing what type of information may be required at the application stage



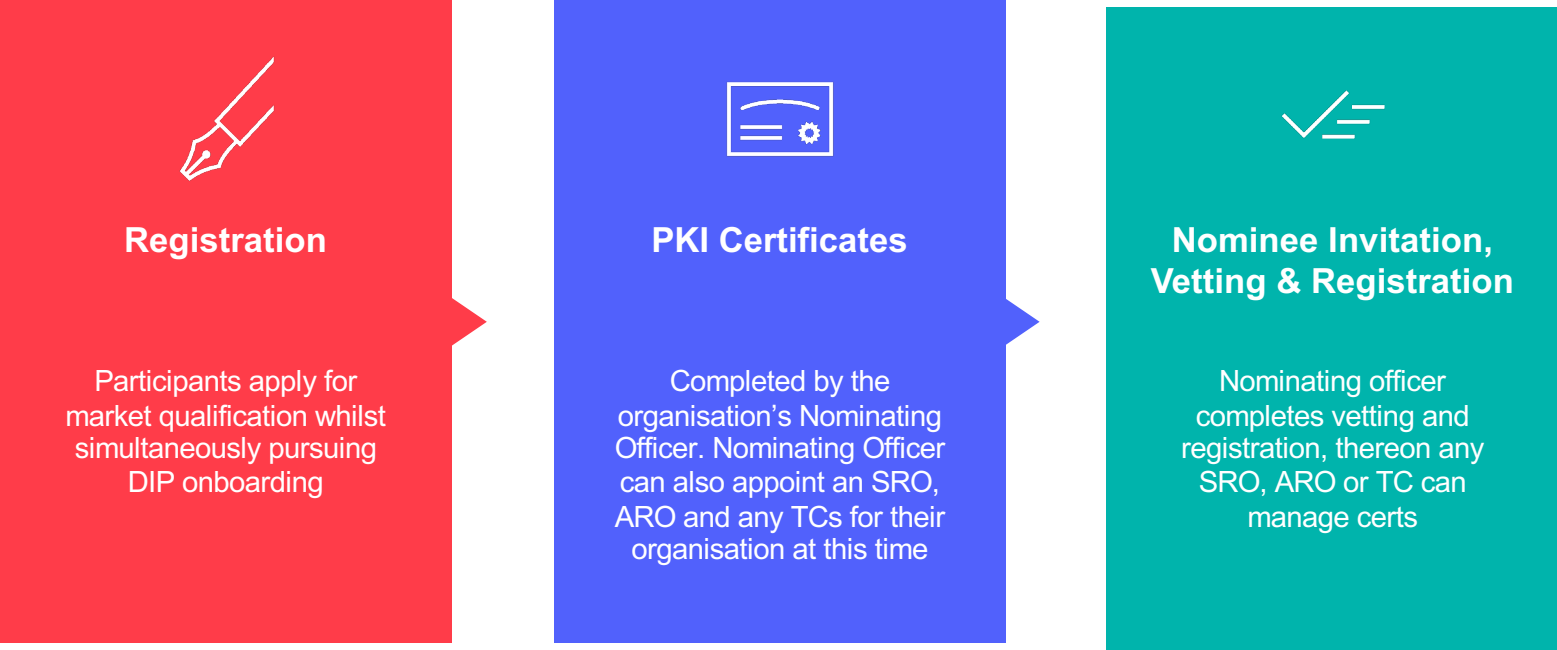
Market Participant

0123456789

A POWER TRADING COMPANY LIMITED

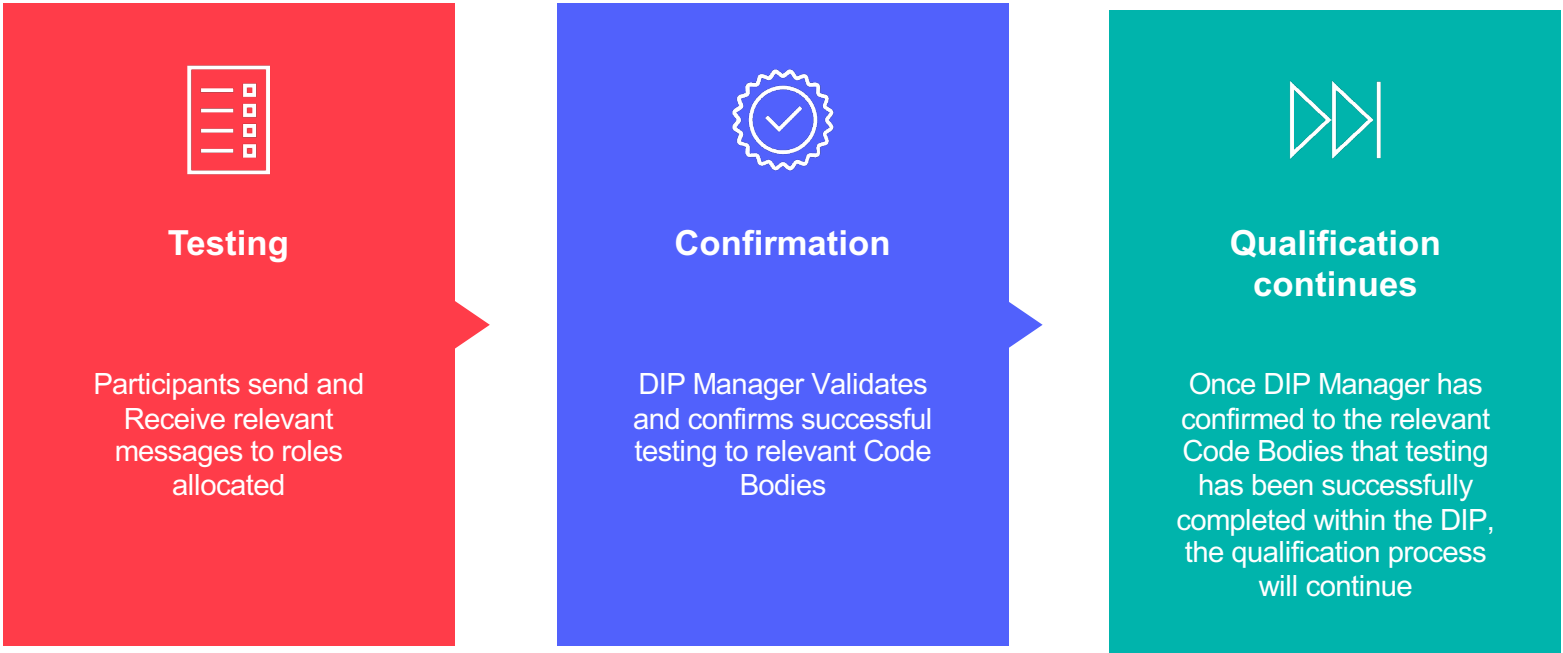
MPID	Market Role	DIP ID		DIP Role Code		Eff From	Eff To	DCP Id
AAAA	X	1123456789	Request	SUP	<input checked="" type="checkbox"/>	01/06/2006		
AAAB	X		Request	SUP	<input checked="" type="checkbox"/>			
AAAC	X		Request	SUP	<input checked="" type="checkbox"/>			
			Request		<input checked="" type="checkbox"/>			

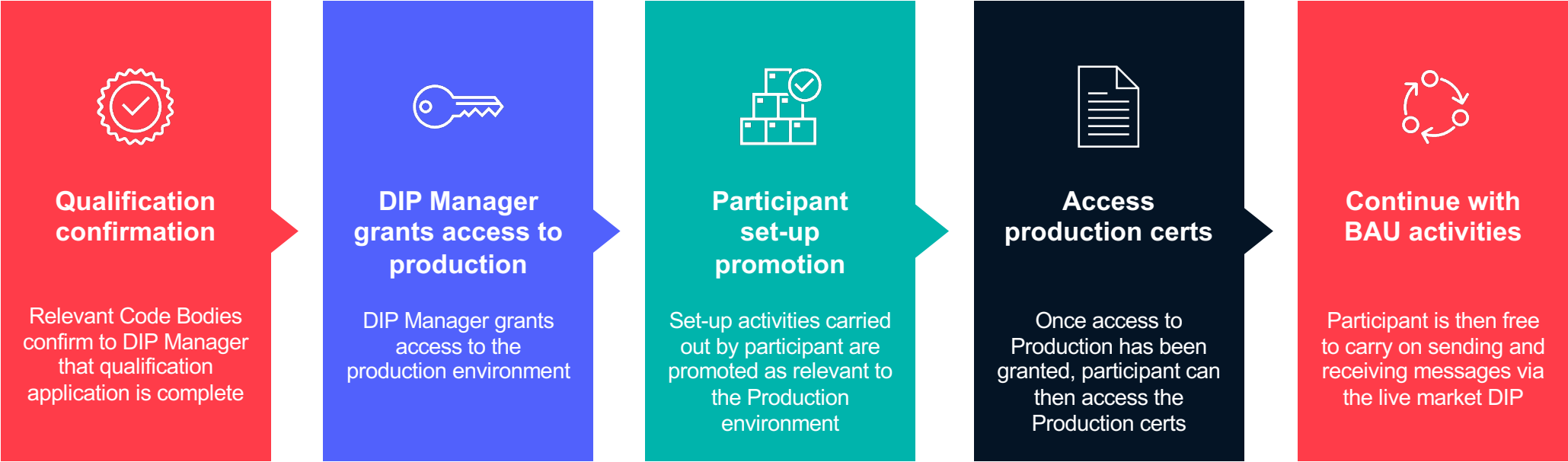
Mockup of the type of information required during the “Organisation Set-up” stage. This has two purposes; to generate DIP IDs, and to allocate DCP IDs against DIP IDs



Stage 4: Complete Testing

The DIP needs to ensure participants can successfully send and receive the relevant messages, on channels appropriate to the market roles applied for.





### DIP queries & Technical Support

- If you have a query in relation to the DIP, either contact your PPC representative – or email the PPC team at [PPC@MHHSProgramme.co.uk](mailto:PPC@MHHSProgramme.co.uk)
- For technical support, including access to the Collaboration Base, please contact our IT Helpdesk at [ITHelp@mhhsprogramme.co.uk](mailto:ITHelp@mhhsprogramme.co.uk)

### PPC Bilaterals

- The PPC Team is available for monthly bilateral sessions with all Programme participants
- The sessions are used to enable a two-way conversation between the participants and the Programme – wider Programme team members can join these sessions as requested
- Contact [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) to schedule your next meeting

### MHHS Website & Collaboration Base

- The [MHHS website](#) provides access to publicly available information on the Programme. It includes the latest information on the Programme workstreams, governance, news and upcoming events
- The Collaboration Base is the window to the Programme, providing access to documents for information, collaboration and review
- The Code of Connection and PKI Policy are available to view on the [Data Integration Platform \(DIP page on the Collaboration Base\)](#).

### Working Groups

- For information about enduring arrangements being designed through Issue 101, please contact [bsc.change@elexon.co.uk](mailto:bsc.change@elexon.co.uk)
- There are also a number of active L4 Working Groups which are key for engaging across all elements of the Programme impacted by the DIP
- This includes the **Security Design Working Group (SDWG)** and the **Technical Design Working Group (TDWG)**
- If you'd like to attend please email [PMO@MHHSProgramme.co.uk](mailto:PMO@MHHSProgramme.co.uk)

### Newsletter

- The Clock is the Programme's weekly newsletter
- It provides you with updates and key information to support delivery of the Programme
- It signposts events, plans, reporting, and documents to assist in planning, design, development, testing and delivery
- To sign up, please contact the PPC team [PPC@mhhsprogramme.co.uk](mailto:PPC@mhhsprogramme.co.uk) or register by clicking in the footer of any page on the [MHHS website](#)



# Thank you

## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
Break & coffee			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
Lunch & stalls			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
<b>IPA update</b>	<b>Richard Shilton &amp; Saima Sabir</b>	<b>IPA</b>	<b>14:50 – 15:05</b>	<b>15 minutes</b>
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes



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

---

# IPA Update

---

Richard Shilton & Saima Sabir, *IPA*

The purpose of this update is to provide industry with an **overview of the IPA approach to test assurance**, which will be performed throughout SIT. This activity operates in conjunction with the Programme's test assurance activities to minimise disruption to participants whilst providing an independent view.



**Overall objective** - To provide an independent view of **test readiness and completion across the end-to-end Programme**. The assurance activity incorporates two main areas of focus:

- Assurance of the overall Programme's testing activities and coordination
- Assurance of individual Programme participants' testing readiness and completion.



**Scope** - The scope of assurance activities will include preparation, readiness and completion of testing by the Programme and Programme participants, as applicable, across the following phases:

- PIT
- SIT (Functional, Migration, Non-Functional, Operational)
- Non-SIT LDSO



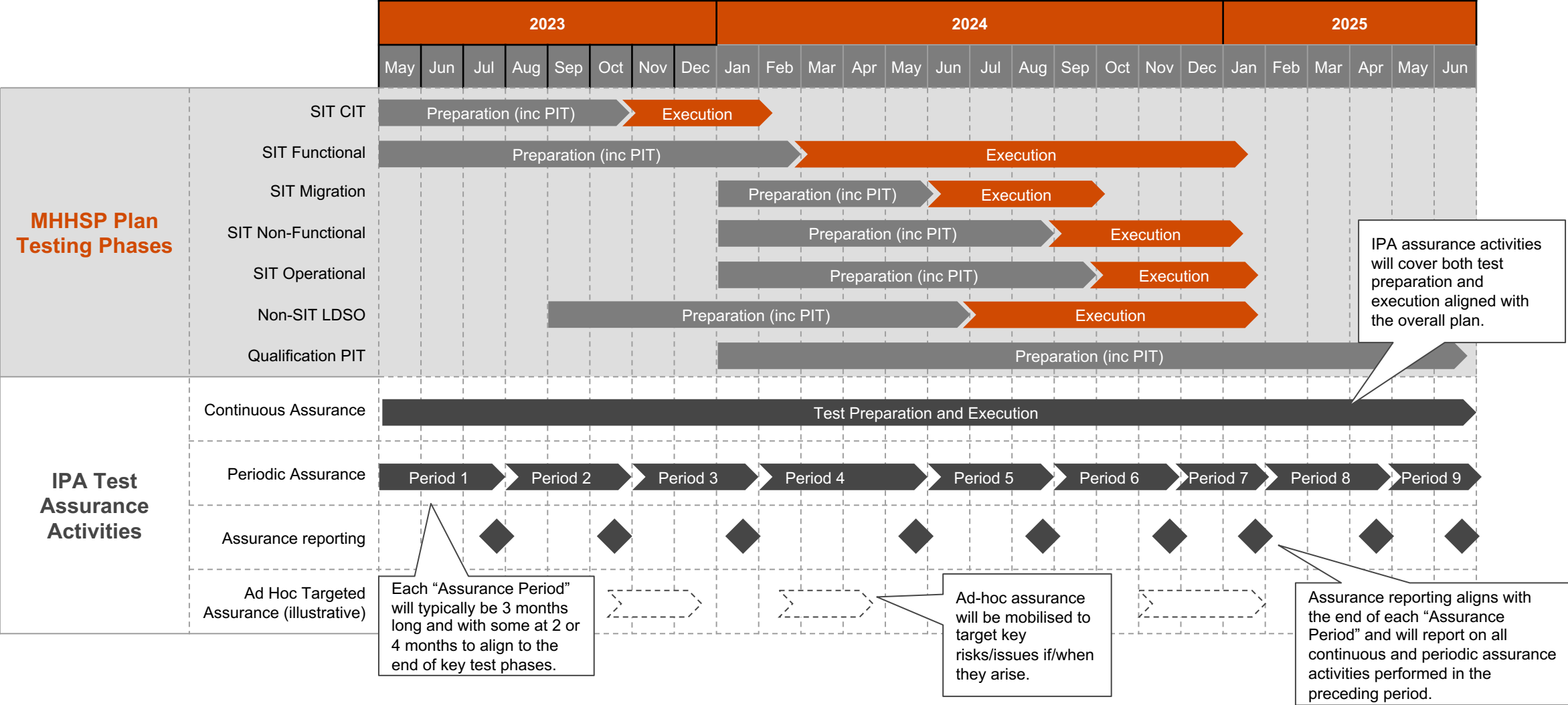
**Approach** - Assurance activities are now commencing and will be performed throughout SIT using the following approaches:

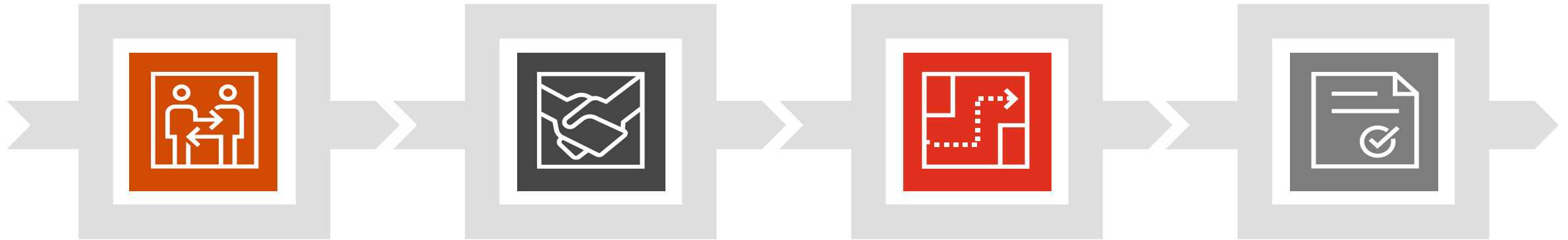
- **Continuous Assurance** over central Programme testing activities and coordination throughout the duration of SIT
- **Periodic Assurance** typically performed in a quarterly cycle (termed "**Assurance Period**") throughout SIT, where a sample of participants will be selected for review to assess their progress in line with their individual plan and the overall Programme plan.
- **Ad-hoc Assurance** where target assurance activities are required over an emerging risk/issue.



**Reporting** - An IPA assurance report will be produced at the end of each "Assurance Period", which provide an overall view on test progress, key risks/issues and associated recommendations.

Assurance activities have been aligned to the test phases within the overall MHHSP plan. Regular meetings are being held with the LDP to align on test assurance activities to minimise any duplication.





## Sampling

### IPA will:

- Select a sample of participants for assurance from across constituency groups

### PPC will:

- Contact selected participants via email

## Preparation

### IPA will:

- Conduct a briefing session to explain scope and exam questions at least one week before fieldwork

### Participants will:

- Share requested artefacts with IPA (e.g. POAP, testing approach and delivery model)

## Fieldwork

### IPA will:

- Meet with participants either in person or by video call to understand progress
- Review relevant artefacts
- Validate any findings with Participants

## Outputs

### IPA will:

- Provide individual feedback reports and recommendations to participants
- Produce anonymised thematic report and recommendations for the Programme

**Assurance Period 1 (P1)** has been mobilised and assurance fieldwork is taking place during **June 2023**:

## What?



- Key assurance exam questions:
  - Is the programme on track to complete PIT Functional
  - Is the programme on track to start SIT-CIT?
- Scope agreed with Programme and Ofgem, and presented to TMAG, and activities aligned with LDP delivery assurance

## When?



- Mobilised, with fieldwork during June 2023
- Overarching themes and findings will be shared with PSG on an anonymised basis in August

## Who?



- Programme participants being asked to take part in P1 have been contacted and briefed
- Participant sample selection includes representation from a number of constituency groups with focus on central party readiness for SIT

## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
Break & coffee			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
Lunch & stalls			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
<b>Ofgem address</b>	<b>Jenny Boothe</b>	<b>Ofgem</b>	<b>15:05 – 15:15</b>	<b>10 minutes</b>
Feedback & close	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes





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

---

# Ofgem Address

---

Jenny Boothe, *Ofgem*

## Agenda

Item	Speaker	Team / Organisation	Time	
Introduction & housekeeping	Claire Silk	MHHS Programme	10:00 – 10:10	10 minutes
Welcome	Helen Tipton	Elexon SRO	10:10 – 10:20	10 minutes
Delivery philosophy	Chris Harden	MHHS Programme	10:20 – 10:35	15 minutes
Qualification update	Anna Millar, Vaishnavi Sharma	Elexon, REC	10:35 – 11:00	25 minutes
Break & coffee			11:00 – 11:30	30 minutes
Key testing updates	Lee Cox & Dominic Mooney	MHHS Programme	11:30 – 12:10	40 minutes
Test data & data cleanse	John Wiggins	MHHS Programme	12:10 – 12:50	40 minutes
Lunch & stalls			12:50 – 14:20	90 minutes
DIP onboarding overview	Richard Gwatkin, Robert Golding & Kevan Gleeson, Chris Wood	MHHS Programme, Elexon	14:20 – 14:50	30 minutes
IPA update	Richard Shilton & Saima Sabir	IPA	14:50 – 15:05	15 minutes
Ofgem address	Jenny Boothe	Ofgem	15:05 – 15:15	10 minutes
Feedback & close*	Claire Silk	MHHS Programme	15:15 – 15:30	15 minutes

# Thank you

