MHHS PROGRAMME

Industry-led, Elexon facilitated

Cross Code Advisory Group #1
24 November 2021

Version 1.0

In case of an emergency

An alarm will sound to alert you.
The alarm is tested for fifteen seconds every Wednesday at 9.20am.

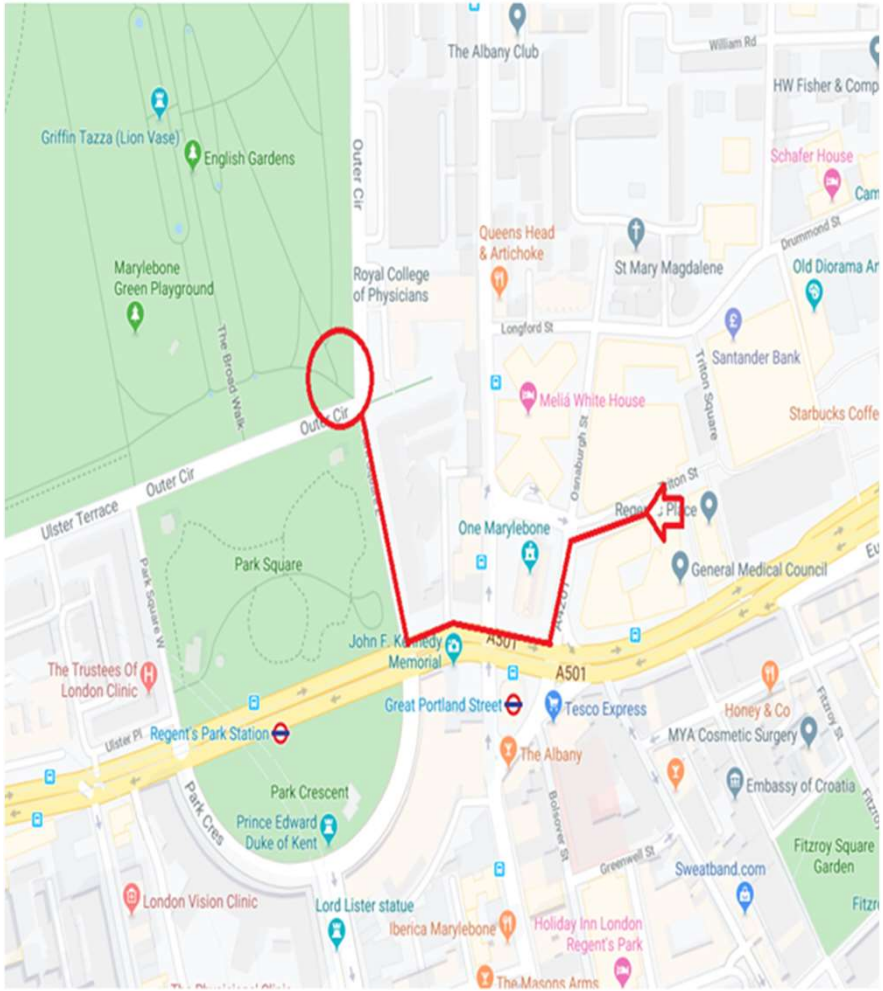
Evacuating 350 Euston Road

- 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 heard 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.

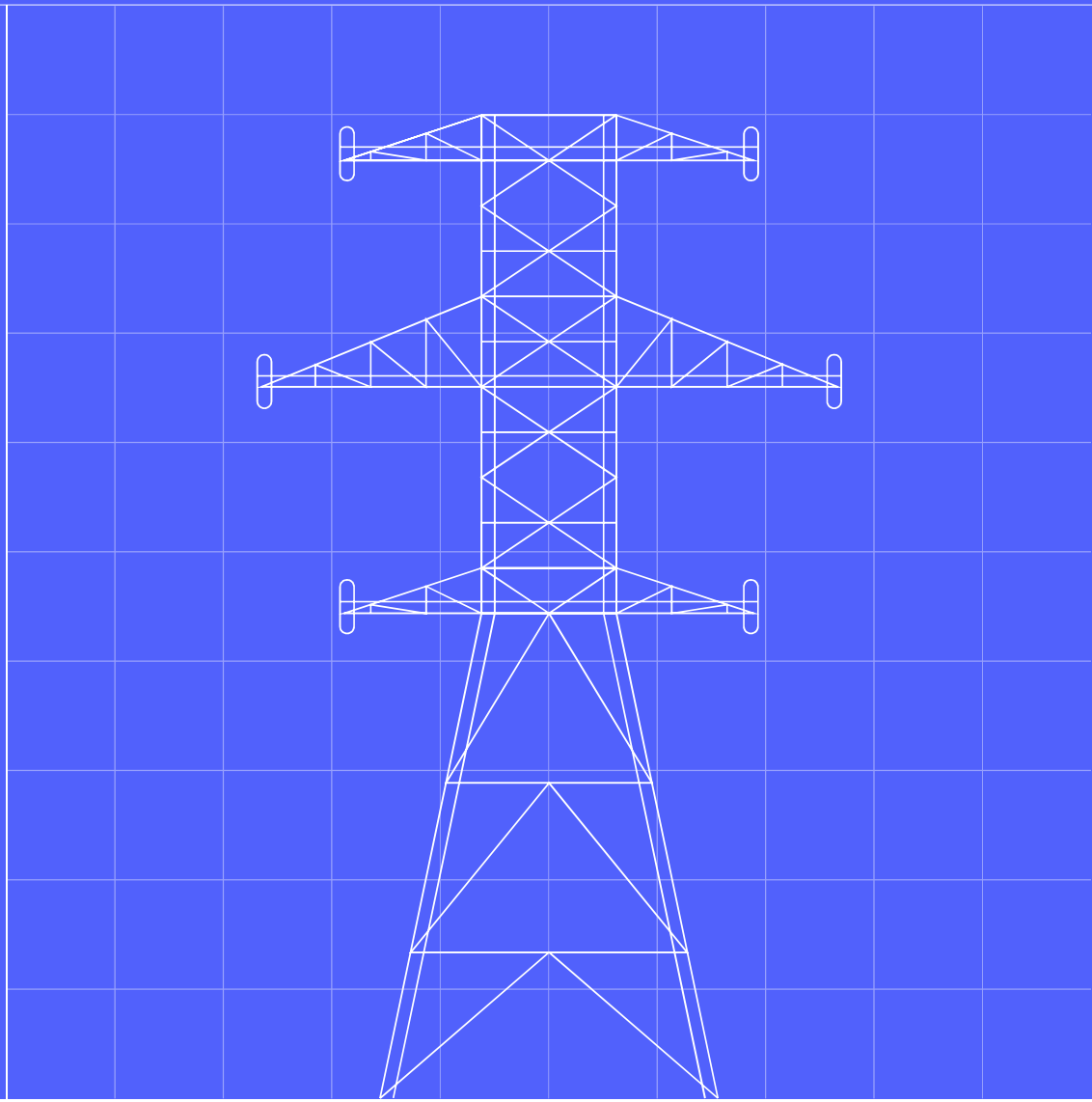
Our team on reception is here to help you, if you have any questions, please do ask them.



Agenda

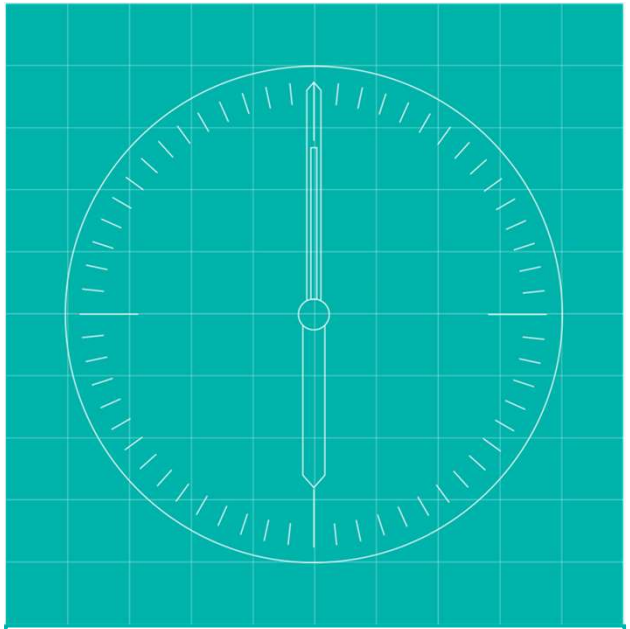
1. Welcome and Introductions
2. Progress Made
3. CCAG Terms of Reference
4. CCAG Ways of Working
5. Next Steps
6. Appendices

Welcome & Introductions



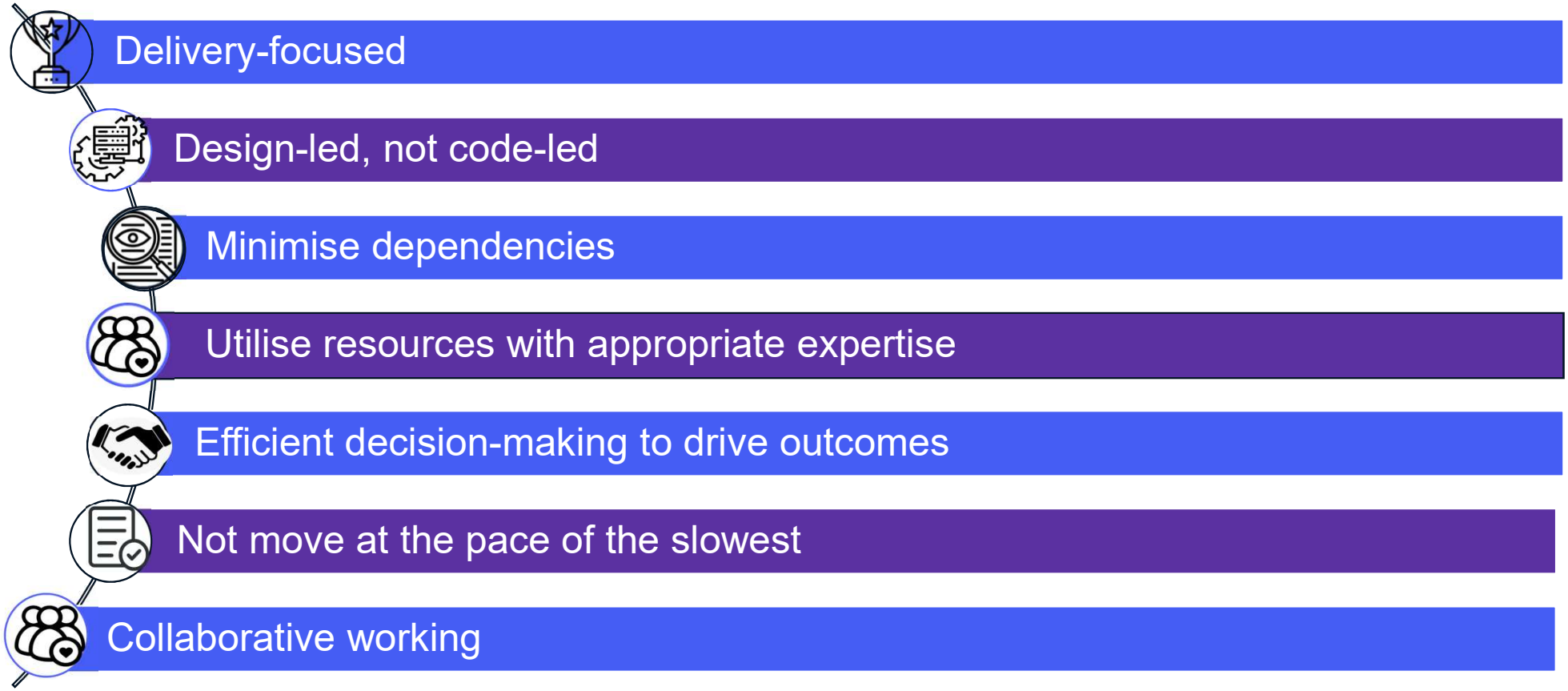
MHHS Programme Objective

To develop and then implement an enduring process for MHHS that delivers benefits for consumers by maximising the opportunities provided by smart metering in enabling an intelligent, flexible energy system by October 2025



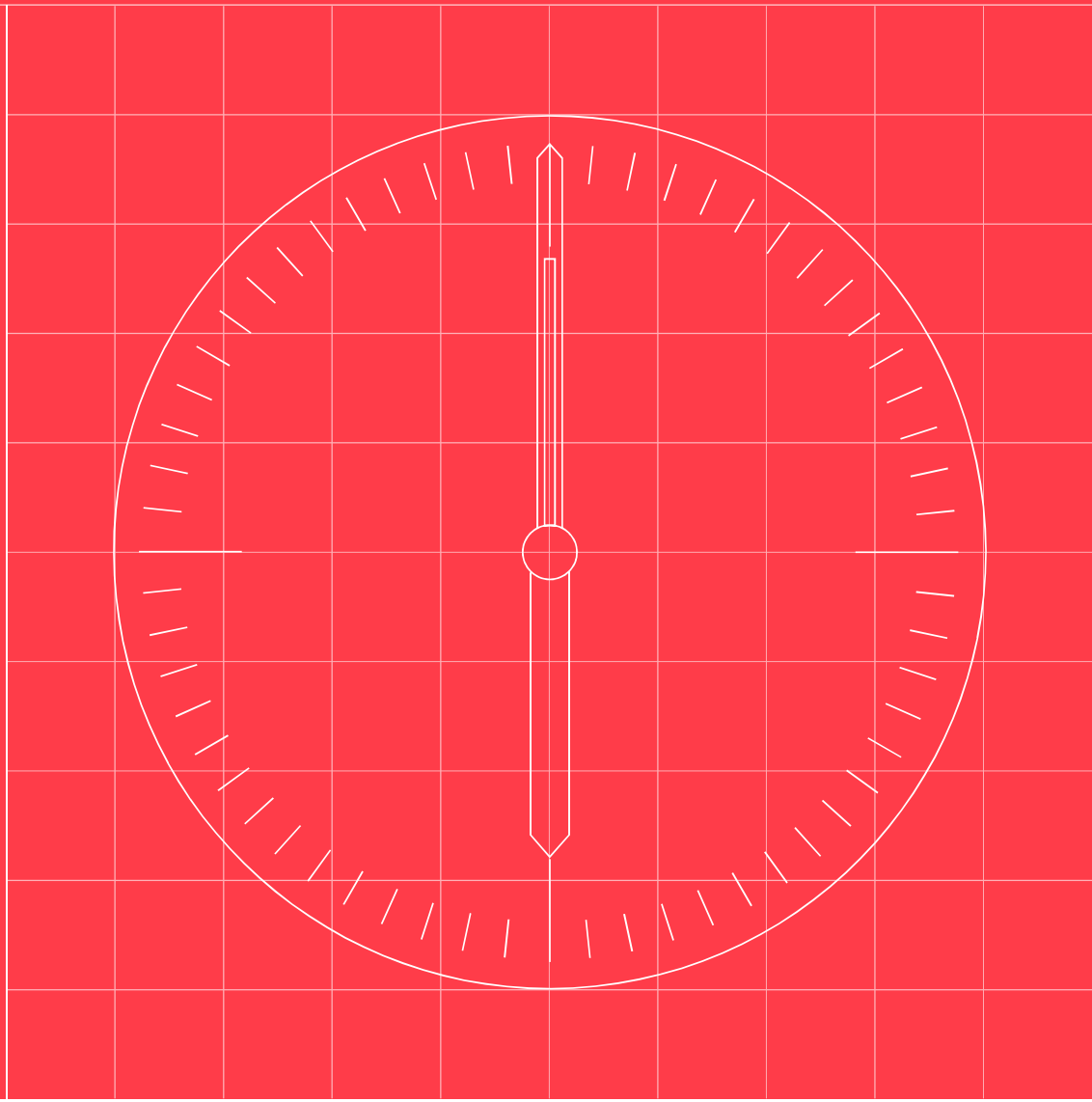
Delivering outcomes to support a more cost effective electricity system

MHHS Mobilisation Stage – Programme Principles



MHHS IM Objectives

Progress Made - What we have achieved so far



What we have achieved so far

1 Programme Structure	We have defined the Central Programme structure
2 LDP Procurement	We are in the final stages of procuring a Lead Delivery Partner (LDP)
3 Design	We have consolidated existing design groups into a new Design workstream
4 Communications	Our communications strategy is in place
5 Separation	We have listened to participants and defined a solution for implementation
6 Governance	We have consulted on the Programme Governance Framework and completed the nominations & appointment process

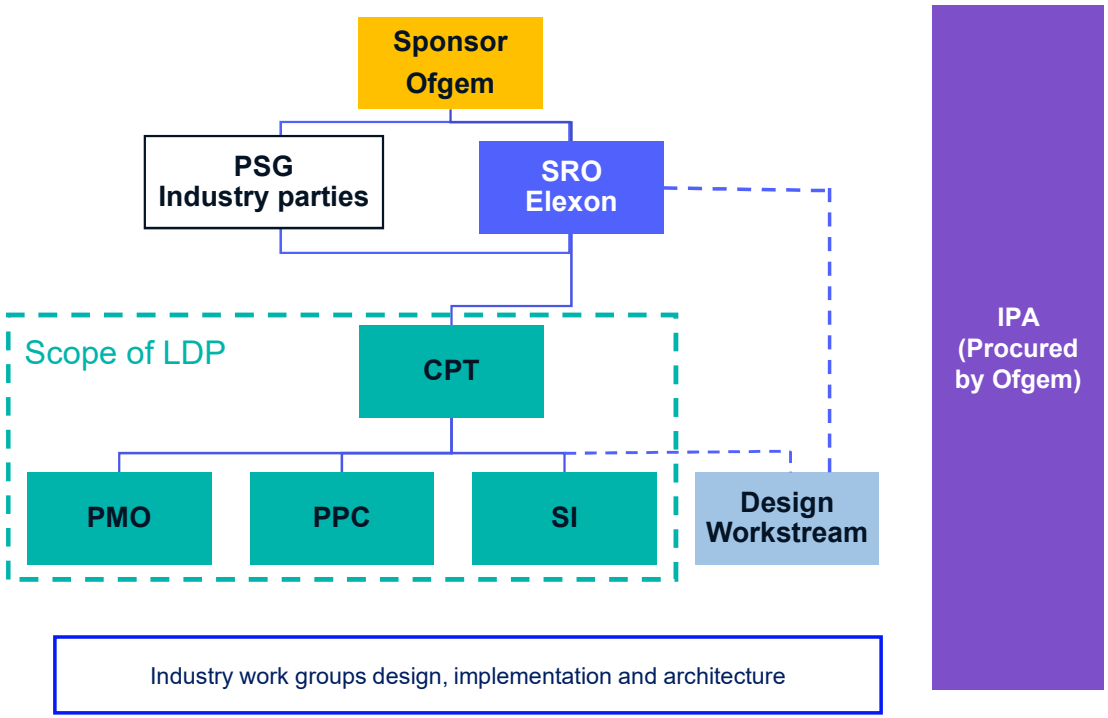
Programme Structure Definition

Lead Delivery Partner (LDP) required to deliver four key service roles:

I. Central Programme Team (CPT);
II. Programme Management Office (PMO);
III. Programme Party Coordinator (PPC); and
IV. Systems Integrator (SI)

Independent Programme Assurance (IPA)

Providing independent oversight appointed by Ofgem



Ofgem's role as Programme Sponsor

- New way of implementing industry change programmes.
- Ofgem remains accountable for securing the outcomes that we have set out in our decision, and the overall costs, benefits and timelines, but industry is responsible for delivery.
- Thresholds established where Ofgem decision is required:
  - adherence to the TOM
  - delivery of benefits and costs
  - timeliness of delivery
  - impact on competition or market stability; and
  - consumer impact?
- Will be present in the programme to ensure we are well placed to take decisions that meet those thresholds on a well informed basis and with minimal delay.
- Will not generally be making statements on programme matters that fall below those thresholds.
- Expect only limited number of decisions to meet the thresholds for intervention.
- Ofgem retains role in approval of code mods or use of SCR or SMA powers.
- Will be supported in role as Sponsor by the Independent Programme Assurance provider.

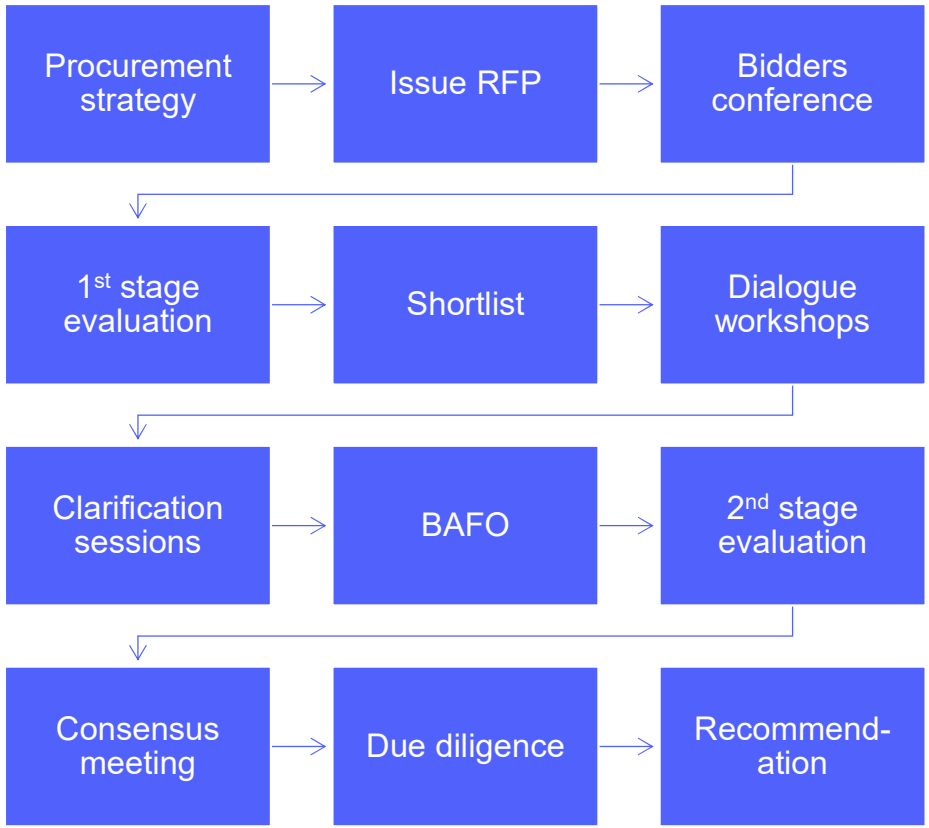
Role of the IPA

- The IPA will provide independent assurance across the programme, reporting to the SRO, PSG and to Ofgem as Programme Sponsor.
- Ofgem is procuring the IPA and will be contracting with them. MHHSP will be responsible for paying the bills and we will work with MHHSP on a balanced approach to management of the IPA, in particular in relation to programme milestone assurance.
- The IPA can be asked to do work by PSG as well as the SRO or Ofgem. We expect the IPA to provide confidence to all programme participants on programme progress, reporting and information.
- The IPA will advise Ofgem on where thresholds for intervention are met, and make recommendations for action where decisions come to Ofgem.
- The IPA will carry out assurance of programme participant readiness for milestones via sampling.
- The IPA also has role in ensuring any conflicts of interest between Elexon roles are well managed.
- The procurement process is currently underway and we hope to have a provider in place by the end of the year.

What we have achieved so far

1 Programme Structure	We have defined the Central Programme structure
2 LDP Procurement	We are in the final stages of procuring a LDP
3 Design	We have consolidated existing design groups into a new Design workstream
4 Communications	Our communications strategy is in place
5 Separation	We have listened to participants and defined a solution for implementation
6 Governance	We have consulted on the Programme Governance Framework and completed the nominations & appointment process

LDP Procurement Process



- BAFOs received from 3 shortlisted bidders
- Recommendation report issued to Elexon Board
- Recommendation approved by Elexon Board imminently
- Contract award expected November
- LDP onboard December
- LDP fully mobilised January 2022

What we have achieved so far

1 Programme Structure	We have defined the Central Programme structure
2 LDP Procurement	We are in the final stages of procuring a LDP
3 Design	We have consolidated existing design groups into a new Design workstream
4 Communications	Our communications strategy is in place
5 Separation	We have listened to participants and defined a solution for implementation
6 Governance	We have consulted on the Programme Governance Framework and completed the nominations & appointment process

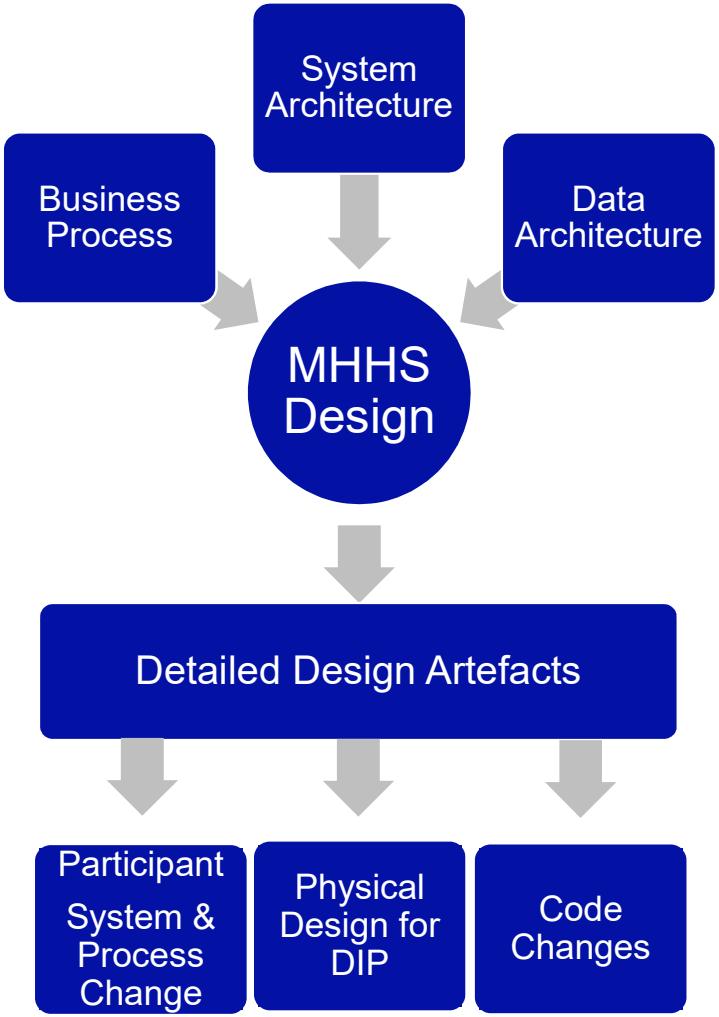
MHHS Programme Design Delivery - Objective

The objective of the MHHS Design is to develop a complete set of design artefacts that enable the following:

- Provide clarity around the business processes, system, and data architecture to deliver a detailed system design that enables all market participants to design, build and test their individual system and business changes.

- Define requirements and connection patterns to enable procurement and subsequent detailed physical design for the Data Integration Platform.

The approach will be a design-led exercise rather than code-led due to the breadth of change across industry parties and challenging timescales. As such the design will feed into the code changes.



MHHS Programme Design Delivery - Background

Prior to the mobilisation stage of the MHHS Programme, an initial set of working documents were created by the existing industry working groups.

Design Working Group

DWG (2017 - 2019) designed the MHHS Target Operating Model (TOM) and the high-level transition approach from the current Settlement arrangements.

Code Change & Development Group

CCDG (2019 - 2021) further developed DWG's TOM design and transition approach and identified the changes needed to Industry Codes and subsidiary documents to enable the TOM.

Architecture Working Group

AWG (2019 - 2021) developed the reference architecture that will set the framework for suitable data integration that is appropriate to the new MHHS services.

It is acknowledged that, whilst an initial high level design was agreed, the existing design material does not comprise an integrated cross referenced set of design artefacts that are fit for purpose to enable industry parties to commence their system and business process design.

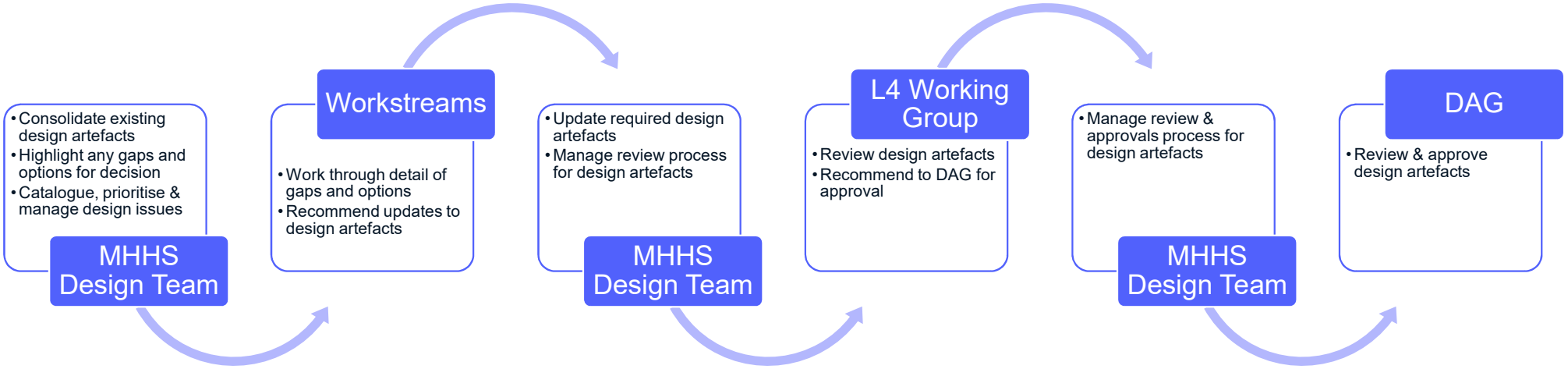
MHHS Programme Design Delivery - Approach

- We appreciate that the constraint within the design process will be availability of industry expertise, therefore, the approach proposed looks to make the best use of this time by not placing any administrative burden on industry resource that can be managed within the MHHS programme.

- On this basis we intend to follow the below process for each of the areas comprising the solution.

- The MHHS Design team will be responsible for producing and maintaining all design artefacts, capture, prioritisation and resolution of all design issues, and management of the review and approval processes.

- L4 Working Group members will be responsible for working through design gaps and issues and reviewing design artefacts
  - First two working groups established and meetings held w/c 1/11/21; Business Process & Requirements and Technical Design
  - 60+ programme participants involved in Design Working Groups
  - We will not be issuing the final design for Industry consultation. Industry needs to be involved throughout the process.



What we have achieved so far

1 Programme Structure	We have defined the Central Programme structure
2 LDP Procurement	We are in the final stages of procuring a LDP
3 Design	We have consolidated existing design groups into a new Design workstream
4 Communications	Our communications strategy is in place
5 Separation	We have listened to participants and defined a solution for implementation
6 Governance	We have consulted on the Programme Governance Framework and completed the nominations & appointment process

Communications Strategy

There are four co-ordinated communications pillars -

MHHS Website	MHHS Newsletter	Industry Roadshows	Participant Webinars
Website went live end September with baseline content and structure Website developed & content updated ongoing to support the Programme	Named: 'The Clock' Weekly issue on Wednesdays via email Sign up option on MHHS website	SRO roadshow to build awareness of participant roles & actions	Webinar series for Q4 for industry participants to build awareness of participant roles & actions

What we have achieved so far

1 Programme Structure	We have defined the Central Programme structure
2 LDP Procurement	We are in the final stages of procuring a LDP
3 Design	We have consolidated existing design groups into a new Design workstream
4 Communications	Our communications strategy is in place
5 Separation	We have listened to participants and defined a solution for implementation
6 Governance	We have consulted on the Programme Governance Framework and completed the nominations & appointment process

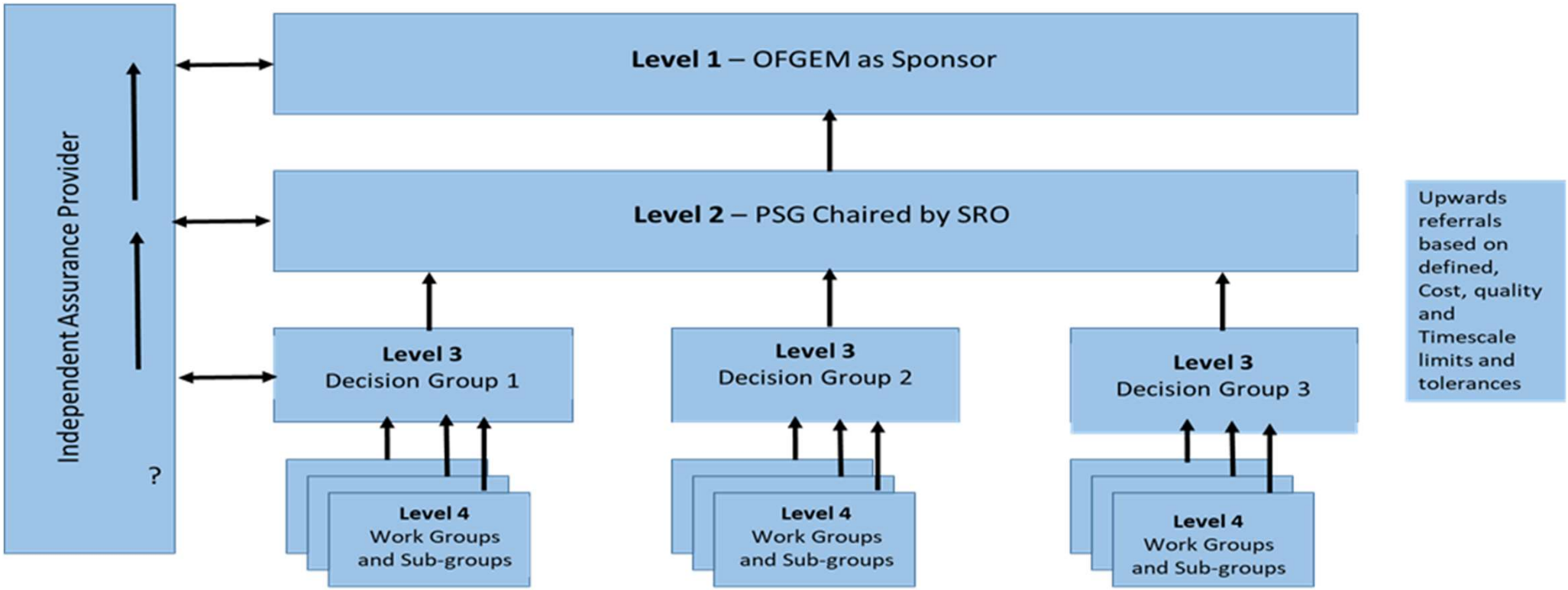
Separation Solution

- To enable Elexon to fulfil its obligation, it is critical to avoid a conflict of interest and to be able to demonstrate to Ofgem and the industry that this has been managed effectively
- A Business Separation Plan has been agreed in principle between Elexon and Ofgem, formal approval due imminently
- Key COI controls
  - The Elexon Executive committee is excluded from MHHS IM information and decision-making
  - The Elexon Board has delegated its MHHS IM oversight responsibilities to Angela Love. Angela is not involved with decision making on Project Helix
  - All information shared with Angela and the Elexon Board, and decisions taken, will be shared with the IPA
  - The PMO, PPC and SI roles are being outsourced to a Lead Delivery Partner
  - The Programme has a separate office space, email, website and a data directory
  - A communications and online training programme plan will raise the awareness of the potential conflict of interest to all Elexon and MHHS IM resources and educate them on how to managing the risk with audited training
  - The IPA will monitor compliance with the Business Separation Plan and report to the PSG and Ofgem accordingly

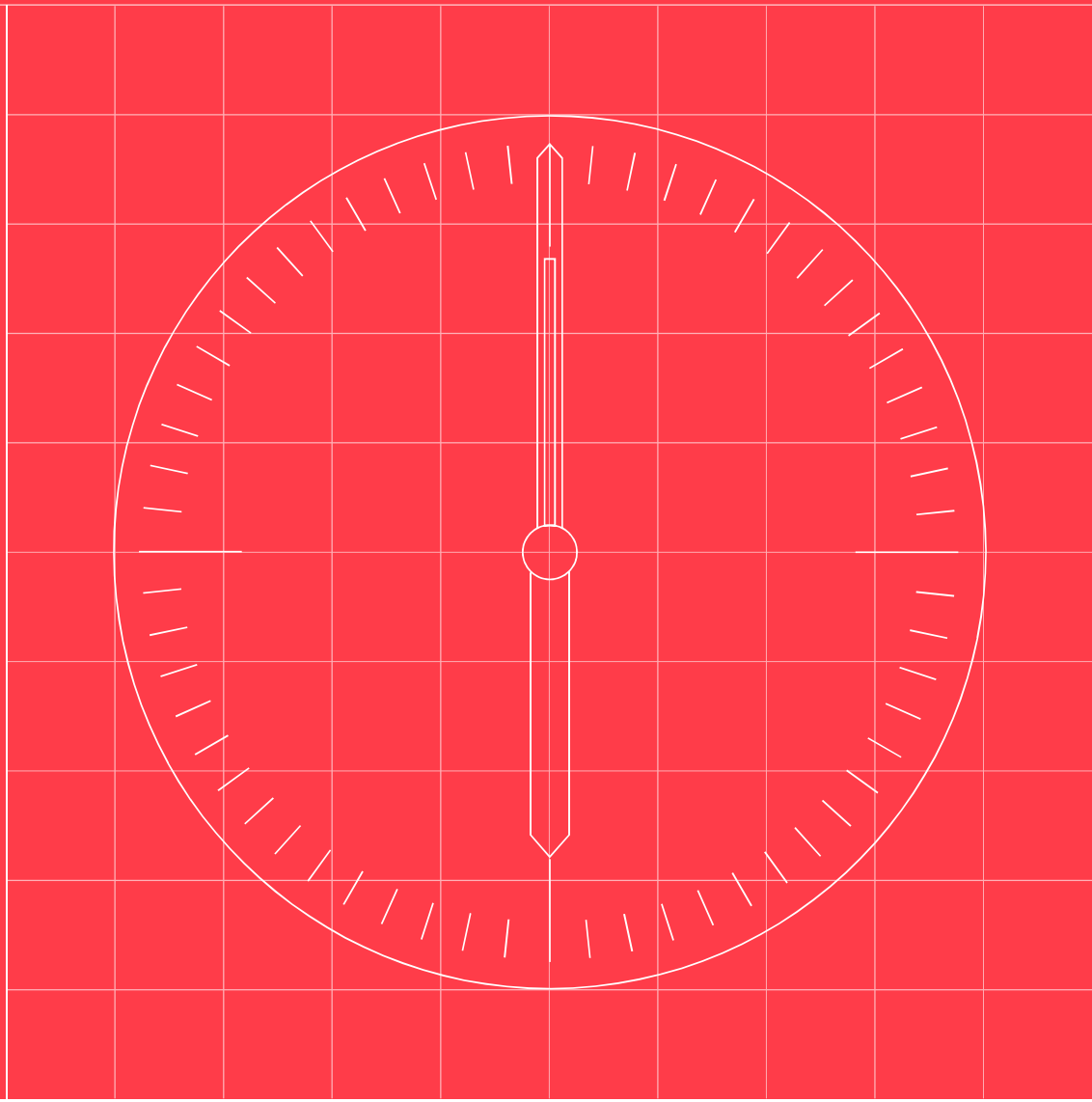
What we have achieved so far

1 Programme Structure	We have defined the Central Programme structure
2 LDP Procurement	We are in the final stages of procuring a LDP
3 Design	We have consolidated existing design groups into a new Design workstream
4 Communications	Our communications strategy is in place
5 Separation	We have listened to participants and defined a solution for implementation
6 Governance	We have consulted on the Programme Governance Framework and completed the nominations & appointment process

Governance Framework



CCAG Terms of Reference



Approval required

CCAG are requested to approve CCAG Terms of Reference:

- Role
- Objectives
- Membership
- Scope, deliverables, roles and responsibilities
- Decision making

[MHHS Programme Governance Framework (mhhsprogramme-production-cdn.s3.eu-west-2.amazonaws.com)]

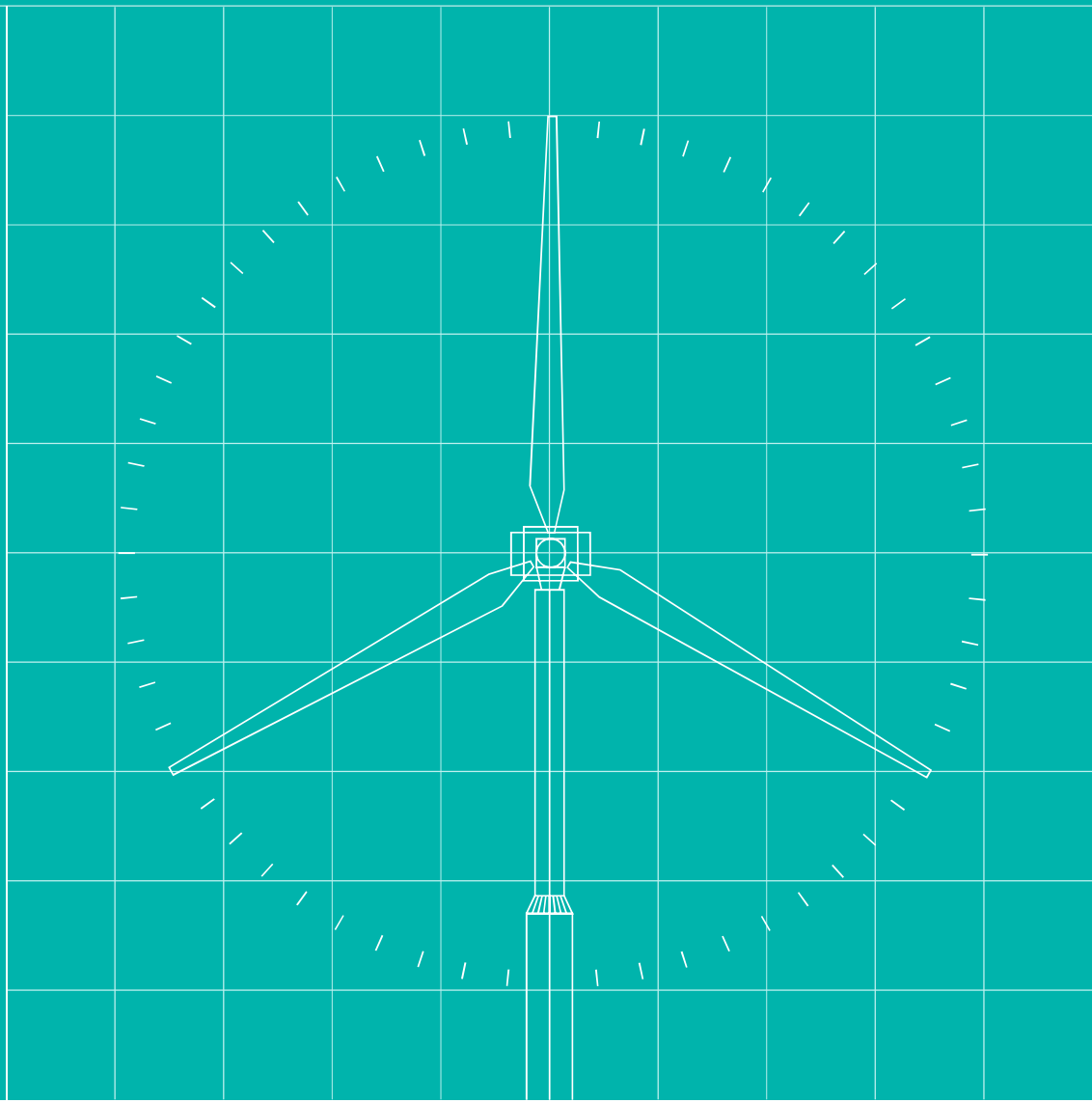
Approval required

Constituency representatives must:

- Engage and consult their constituency members in a timely manner
- Be representative of all constituency members and mediate differing positions
- Be empowered to make decisions on behalf of their constituency
- Attend standing and ad hoc meetings or send alternate (constituency approval for alternates is required)
- Support SRO and Programme decision making
- Be meeting ready

CCAG Members should be a mix of Code Body and regulatory experts

CCAG Ways of Working



Approval required

The role of CCAG is essential for ensuring the MHHS design is enacted correctly in all Codes and reflect the new TOM, systems, processes, data and flow designs and advise the MHHS Programme of Code impacts which could impact the MHHS Programme.

CCAG Principles are:

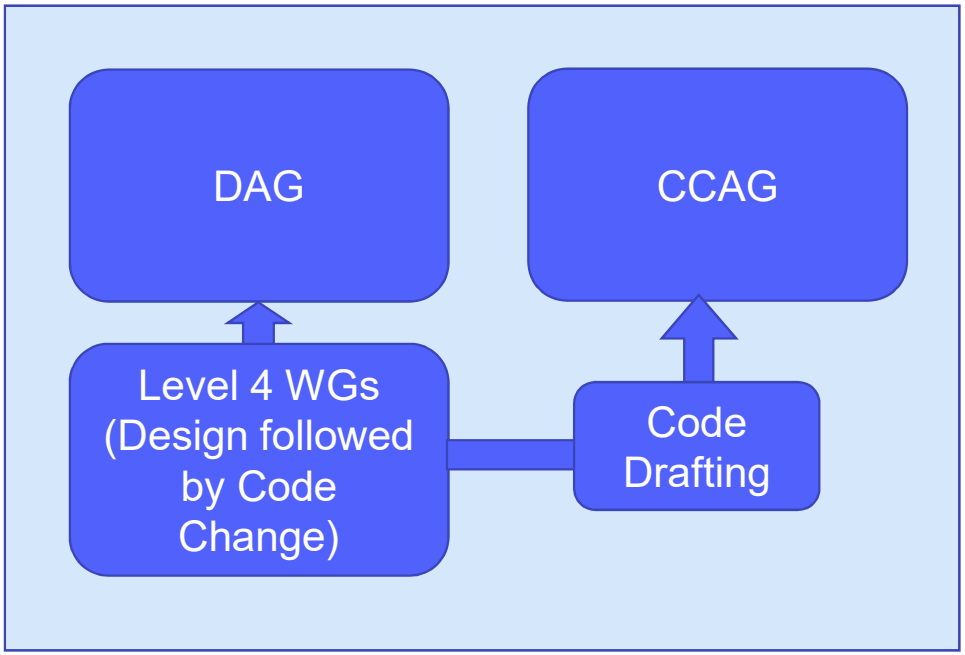
1. Code Bodies support a design-led model; not a Code-led model requiring Code Bodies to be involved in the end-to-end Design work immediately
2. CCAG will make the Code recommendation for Ofgem's Smart Meter Act designation following Code development within the Programme
3. If you choose to undertake Code consultation it should not be a process to review the design
4. Code Bodies are responsible for highlighting their Code roadmap impacts to the MHHS Programme; specific horizon scanning

Approval required

Code Bodies support a design-led model; not a Code-led model requiring Code Bodies to be involved in the end-to-end Design work immediately

Level 4 Governance

- Development of the end-to-end Design is under DAG with Code Body support
- Code changes are developed sequentially, once the Design is approved under DAG



Approval required

The role of CCAG is essential for ensuring the MHHS design is enacted correctly in all Codes and reflect the new TOM, systems, processes, data and flow designs and advise the MHHS Programme of Code impacts which could impact the MHHS Programme.

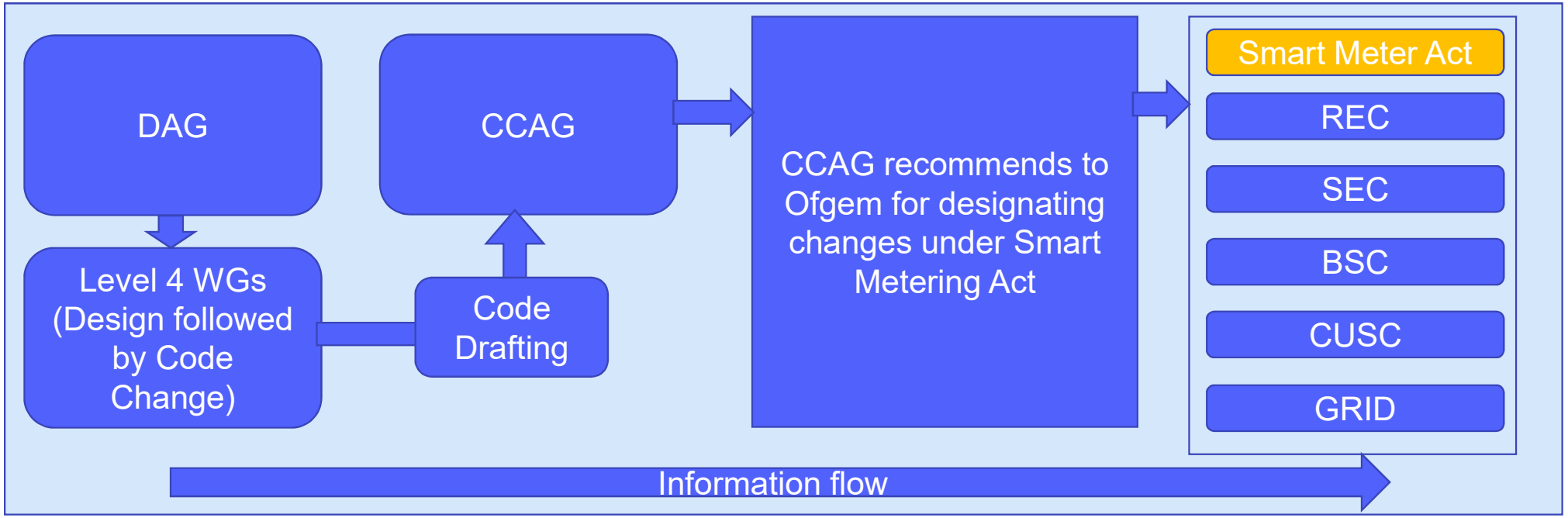
CCAG Principles are:

1. Code Bodies support a design-led model; not a Code-led model requiring Code Bodies to be involved in the end-to-end Design work immediately
2. CCAG will make the Code recommendation for Ofgem's Smart Meter Act designation following Code development within the Programme
3. If you choose to undertake Code consultation it should not be a process to review the design
4. Code Bodies are responsible for highlighting their Code roadmap impacts to the MHHS Programme; specific horizon scanning

Approval required

CCAG will make the Code recommendation for Ofgem's Smart Meter Act designation following Code development within the Programme

Modification development within the MHHS Programme, before Smart Meter Act designation



Approval required

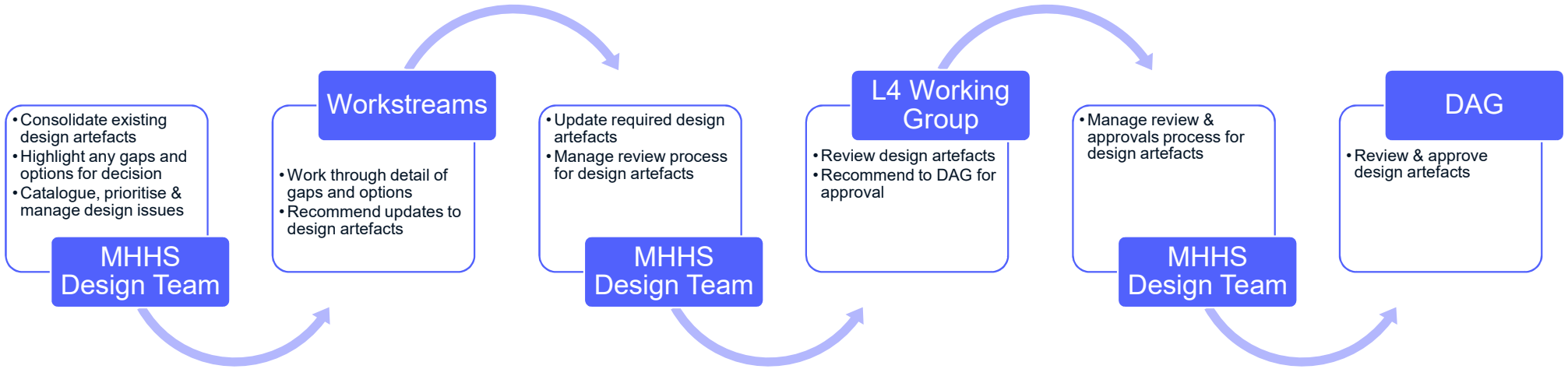
The role of CCAG is essential for ensuring the MHHS design is enacted correctly in all Codes and reflect the new TOM, systems, processes, data and flow designs and advise the MHHS Programme of Code impacts which could impact the MHHS Programme.

CCAG Principles are:

1. Code Bodies support a design-led model; not a Code-led model requiring Code Bodies to be involved in the end-to-end Design work immediately
2. CCAG will make the Code recommendation for Ofgem's Smart Meter Act designation following Code development within the Programme
3. If you choose to undertake Code consultation it should not be a process to review the design
4. Code Bodies are responsible for highlighting their Code roadmap impacts to the MHHS Programme; specific horizon scanning

Approval required

If you choose to undertake Code consultation it should not be a process to review the design



Approval required

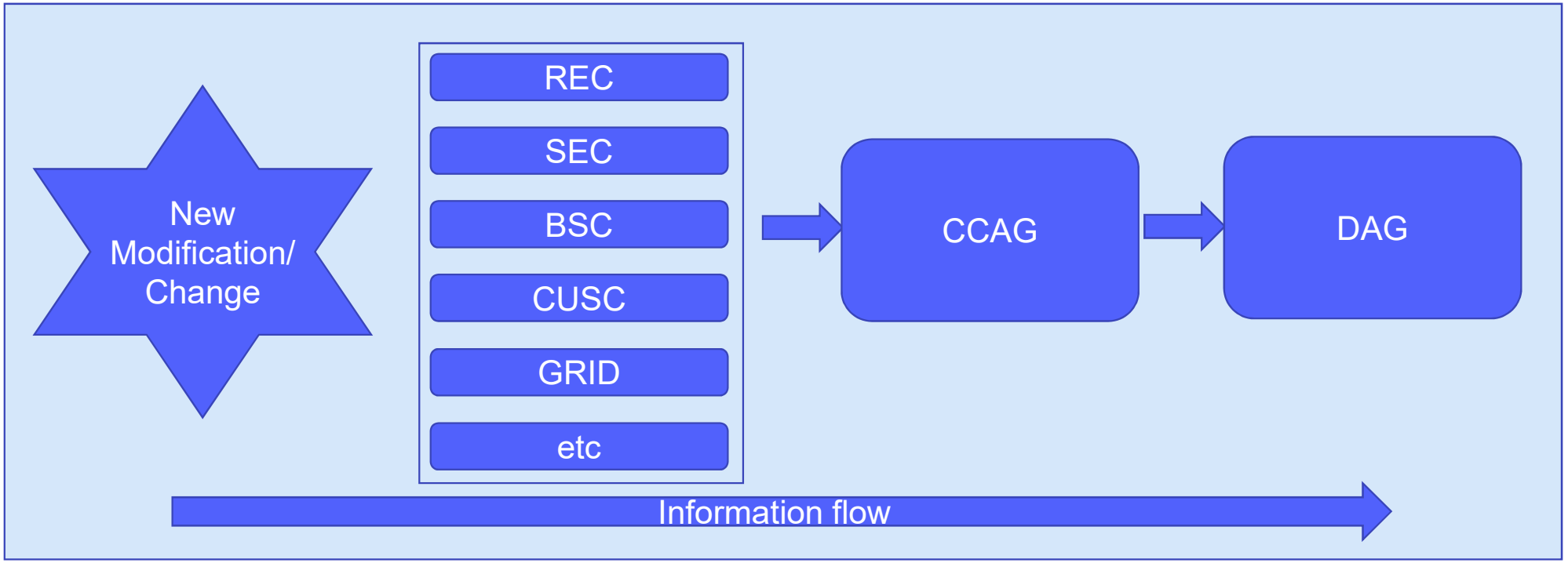
The role of CCAG is essential for ensuring the MHHS design is enacted correctly in all Codes and reflect the new TOM, systems, processes, data and flow designs and advise the MHHS Programme of Code impacts which could impact the MHHS Programme.

CCAG Principles are:

1. Code Bodies support a design-led model; not a Code-led model requiring Code Bodies to be involved in the end-to-end Design work immediately
2. CCAG will make the Code recommendation for Ofgem's Smart Meter Act designation following Code development within the Programme
3. If you chose to undertake Code consultation is should not be a process to review the design
4. Code Bodies are responsible for highlighting their Code roadmap impacts to the MHHS Programme; specific horizon scanning

Approval required

Code Bodies are responsible for highlighting their Code roadmap impacts to the MHHS Programme; specific horizon scanning



Information only

When does Code drafting start and finish?

Code drafting will start sequentially some time after end-to-end Design completion

Milestone	Milestone type	Milestone Name	Ofgem Plan Date	Description	Proposed revised baseline date from MHHS Mobilisation Activities	Reasoning
M6	Level 1	Code change and detailed design recommendations delivered	Apr-22	The CCDG will deliver the recommendations aimed at addressing any outstanding areas of the DWG's TOM design, and will deliver the recomendations for the changes to the Industry Codes and subsidiary documents necessary to enable the TOM.	TBC	The Programme will be design-led not code-led therefore the code change milestone will come at a later date. This will not impact the impact critical path. **For Information**

Information only

MP162 - SEC changes required to deliver MHHS

Background

- April 2021 - Letter from Ofgem to DCC formally agreeing SEC Modification Arrangements / DCC and Ofgem roles and responsibilities.
- May 2021 – DCC Raised DP162
- 5 Working Groups (so far)
- DCC Preliminary Assessment (Aug/Sep21)

Business Requirements

1. A new DCC User Role will be created for MDR Users.
2. MDR Users will need to accede to the SEC / UEPT.
3. There shall be Access Control for MDR Users.
4. The applicable Service Requests will have extended TRTs. when submitted to obtain MHHS data.
5. Only Eligible Users shall have access to retrieve specified data.
6. The end-to-end security arrangements for HH settlement will be put in place.
7. MDR User will be subject to the SEC privacy rules.

Update 17/11/21

- Functional Requirements are understood.
- Non Functional Requirements are **LESS** clear.
- Significant Non-functional requirements relating to User Demand is the key factor that needs resolving.
- Potential Cross Code Impacts: REC – MDD & Registration Process, BSC – Smart Process.

Next Steps

- MP162 Refinement Consultation in Progress, closes 19th Nov 2021 (will inform FIA).
- Final Impact Assessment 13th Dec 21 – 11th Feb 22.
- Industry Consultation 16th Mar 22 – 5th Apr 22.
- Change Board Vote 20th April 22.
- Anticipated Authority Approval 27th May 22.
- Targeted for implementation – SEC Release – Nov 23.

Approval required

Future meeting dates need to be agreed

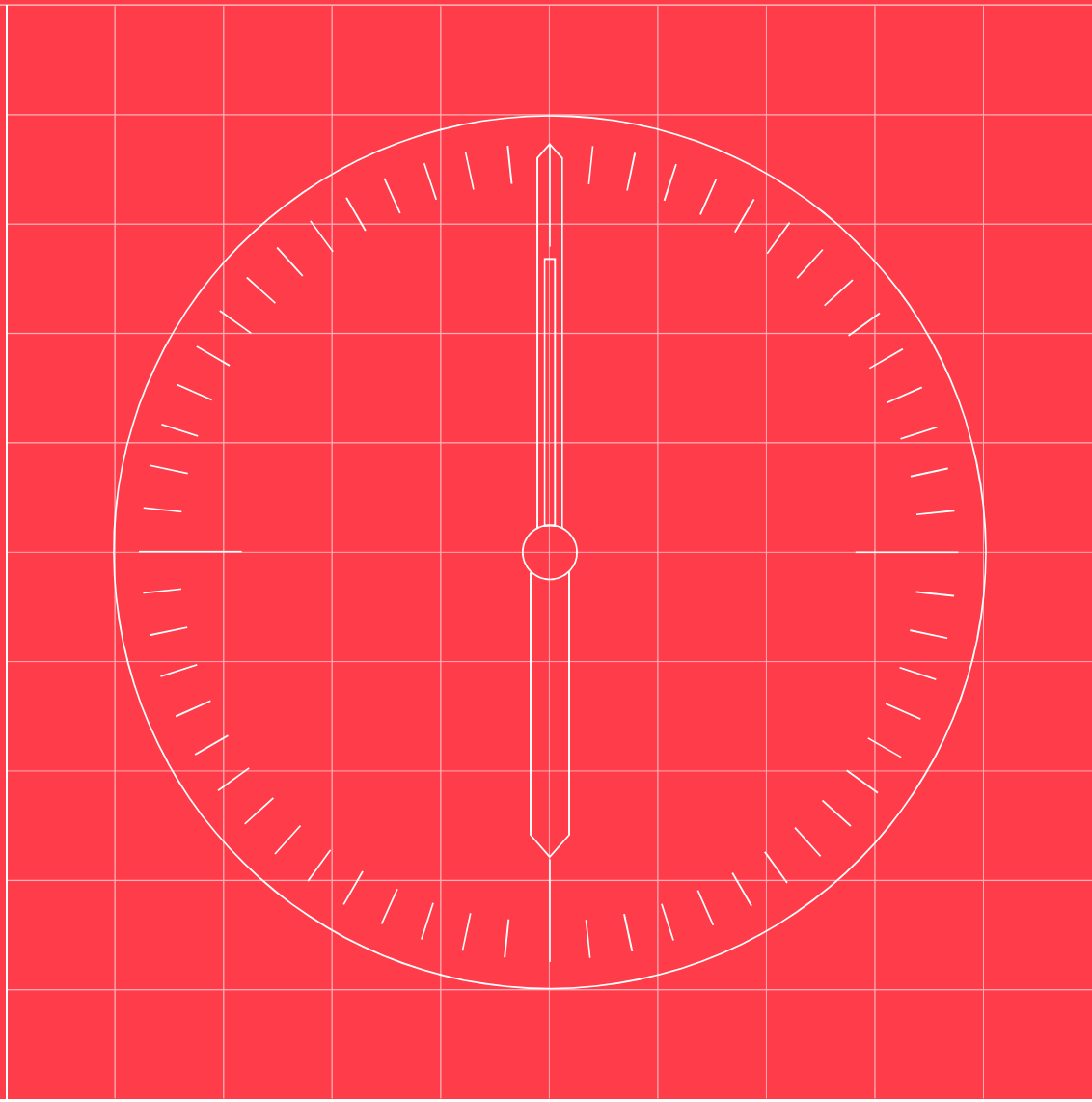
- PSG agreed a monthly drum beats of meetings.

2022 - Enduring dates				
	Week 1	Week 2	Week 3	Week 4
PSG	X			
DAG		X		
CCAG				X
*Meetings hosted on Wednesday				

- The next CCAG meeting is on the 28th January 2022

5

Next Steps



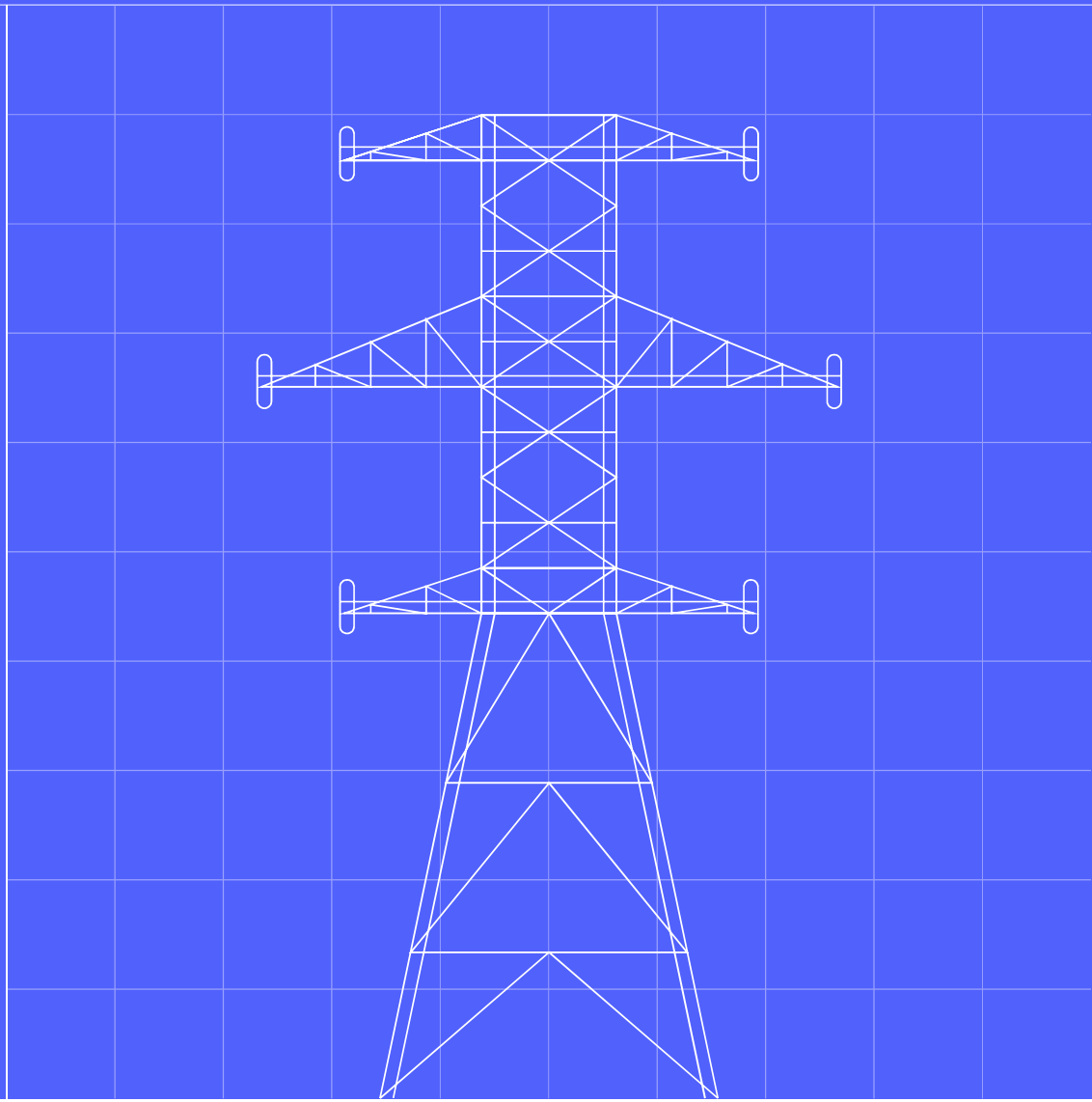
Next Steps

Meeting Actions
- Confirm meeting actions

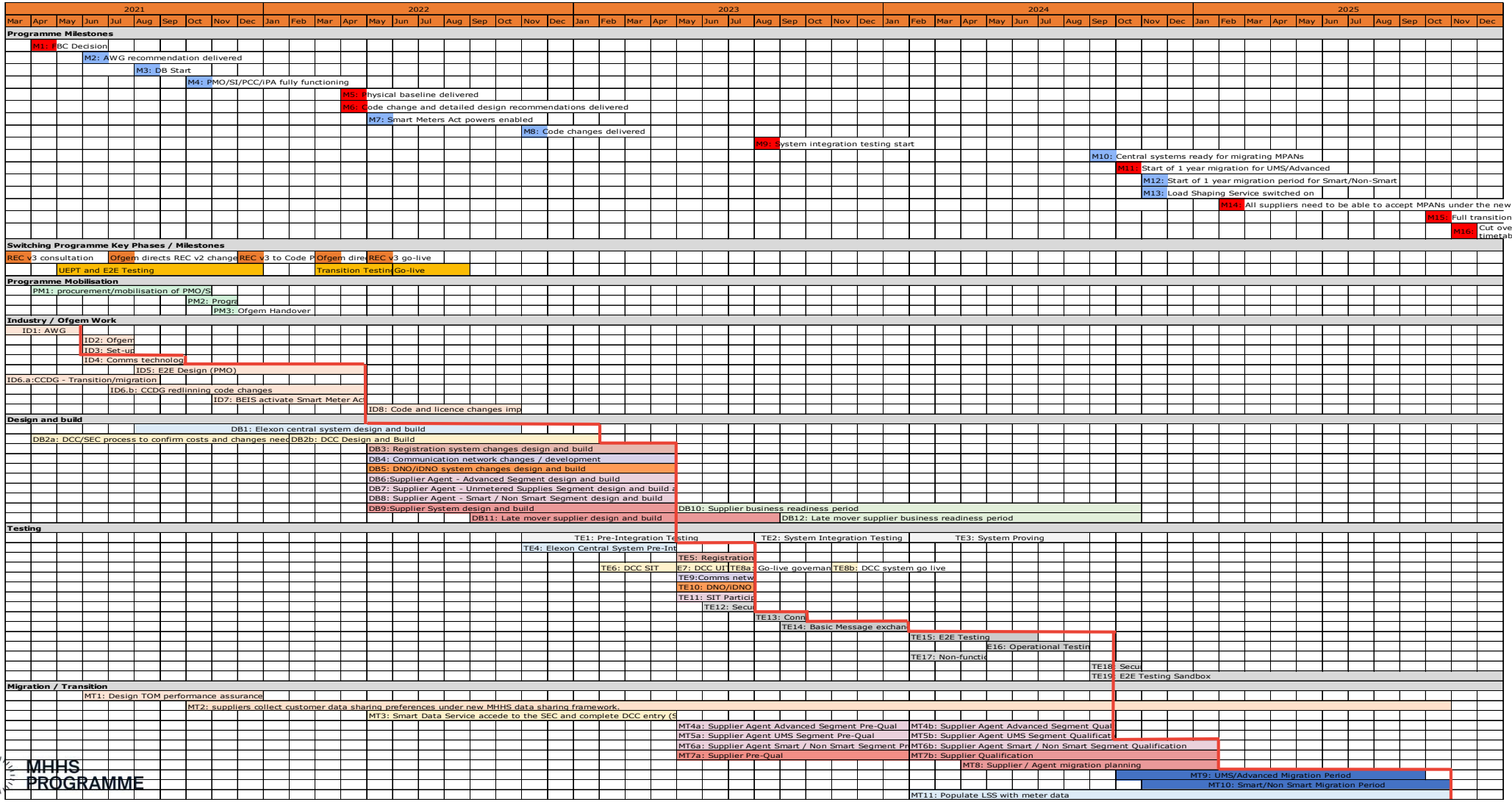
Constituency Reps
- Ensure your parties know there is no consultation period following completion of design
- Encourage participation in Level 4 working groups
- Consult your constituencies to understand optimum Code change timelines
- Confirm Code Body resources
- Horizon scanning

Next meeting
- Introduce Lead Delivery Partner (LDP)
- Provide update on your Code roadmap to specifically include any changes that may impact this Programme

Appendices



Appendix 1: Ofgem Transition Plan



Appendix 2: CCAG Terms of Reference (extracted from MHHS-DEL031 MHHS Programme Governance Framework v1.1)

Cross Code Advisory Group (CCAG) Terms of Reference (Level 3)

The CCAG Terms of Reference ("ToR") sets out the role, membership and mode of operation.

CCAG Role

The CCAG role is to oversee the development, management and implementation of MHHS Programme related Code changes to all MHHS impacted Codes to ensure Code reflects how the new MHHS TOM process and systems operate.

CCAG Objectives

To be the primary authority for coordinating, monitoring and managing MHHS impacted Code changes, unless a decision is above Ofgem thresholds.
To oversee the Programme Code change management and progression against objectives, that ensures compliance with MHHS system and operational changes.
Ensure different programme participant, especially Code body perspectives are appropriately represented.
Enable transparency of Code changes for all impacted parties and stakeholders and ongoing monitoring of relevant Code Body Code change management and Code change implementation.
Delegate appropriate tasks and activities to Level 4 Cross Code Working Group.
Receive escalations from lower level workgroups and reach consensus on decisions, so the Programme Code changes progresses to plan.
Escalate to the PSG issues and decision making when consensus cannot be reached at the CCDG.
Provide detailed advice to the SRO, PSG and other groups if required.

Membership

The CCAG Membership is constituted from senior management representatives from each Programme impacted Code Body, programme participant constituency representatives, Ofgem as an observer and the MHHS Programme –

SRO - Chair
SRO Governance Manager
Lead Delivery Partner (LDP) Programme/Design Manager
Independent Programme Assurance (IPA) Manager
Elexon Representative (as central systems provider)
Elexon Representative (as BSC/BSCCo Manager)
DCC Representative (as smart meter central system provider)
SEC Representative
REC Representative
CSUC Representative
DCUSA Representative
National Grid ESO
Supplier Representative (Domestic Representative)
Supplier Representative (I&C Representative)
Supplier Agent Representative (Independent Supplier Agent)
Supplier Agent Representative
DNO/iDNO Representative
Consumer Representative
Ofgem (Observer, to attend as appropriate)
The PMO will attend to act as meeting secretariat.

Appendix 2: CCAG Terms of Reference (extracted from MHHS-DEL031 MHHS Programme Governance Framework v1.1)

Purpose and Duties of Cross-Code Advisory Group

CCAG purpose is to oversee the central coordination, monitoring and management of 'farmed-out' Code change requests and modifications to all impacts MHHS impacted Code Bodies.

CCAG duty is to ensure MHHS impacted Codes are updated and comply with the new MHHS arrangements.

CCAG Scope, Deliverables, Roles and Responsibilities

CCAG is responsible for overseeing the development of the Code Modifications and redlined legal text production that delivers MHHS Code compliance.

The SRO (or someone delegated by the SRO from within the MHHS Implementation Manager function) will chair the meetings.

The PMO will maintain and communicate up to date meeting documentation.

The PMO will maintain an up to date Programme plan, RAID log and actions log.

The PMO will centrally monitor and provide related Code change programme management.

The PMO will provide all meeting management services and deliver all regular and ad hoc meetings.

CCAG Members (or nominated alternatives) will attend every meeting.

CCAG Members will be fully meeting prepared before the meeting starts.

CCAG Members should be a mix of Code Body and regulatory experts.

Decision Making

The CCAG will make Level 3 decisions and Level 2 decisions when delegated from the PSG. (Level 1 decisions will be escalated to Ofgem by the SRO or IPA via the PSG).

The CCAG can delegate decisions to another Level 3 group or a lower level work group.

The CCAG will ensure that any decisions are based on full transparency with programme participants and appropriate consultation.

Where parties raise significant concerns with a CCAG decision, the concern should be escalated to the PSG via their constituency representative or the SRO.

Consultation will be carried out on an ongoing basis, with the CCAG taking decisions based on information developed by the Cross Code Working Group.

Where the CCAG is presented with recommendations from lower level Cross Code Working Group(s) they will have the ability to:

- Accept the recommendation – the proposal/recommendations are aligned to the TOM and overall objectives.
- Reject the recommendation – the proposal/recommendations does not align to the TOM, programme principles or requires further work/clarity.
- Refer the recommendation for additional work or analysis.
- Accept the recommendation, subject to additional work being completed.
- Refer to the PSG when the recommendation meets the threshold for Ofgem intervention or CCAG cannot reach consensus.

Decisions and outputs of the CCAG will be published within 10 working days of the meeting.

Thank you