# Project Nexus

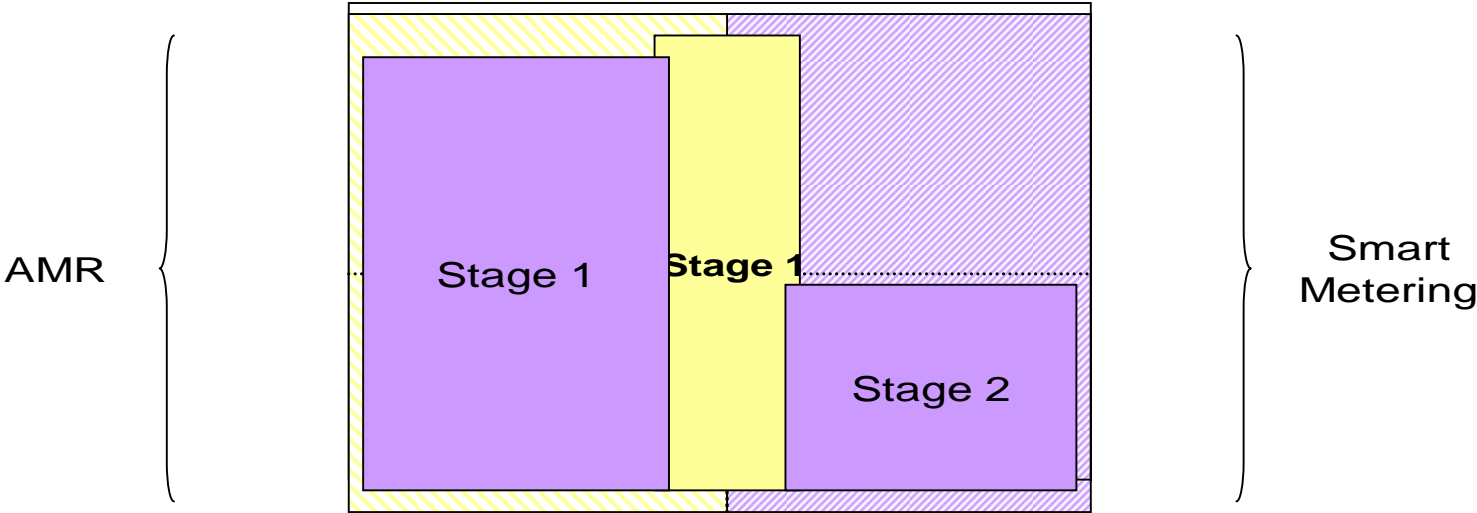## Re-Launch of Topic Workgroups

Steve Nunnington

# Background

- DECC have yet to decide how the UK energy market (Gas & Electricity) will look after the introduction of Smart Metering.

- Some members of PNAG were concerned that Project Nexus was not fully considering the impact of Smart Metering.

- Other members believed that Project Nexus should continue work aimed at facilitating the use of AMR in the marketplace.

- The Project Nexus UNC Topic Workgroups were temporarily suspended in August whilst the industry explored a way forward.

- Work on Market Differentiation is almost complete. Although it may be necessary to re-convene after the other Workgroup areas are finalised.

XO serve

# Background (2)

- PNAG discussed various options.
- PNAG supported the following process:-
  - Establish Principles. (Which do not fetter the discretion of the anticipated Smart Metering Programme.)
  - Establish requirements for AMR arena.
  - Complete requirements for Smart Metering when more information received from DECC on Market Model.
- 5 Scoping Meetings to be established before Workshops commence.
  - 3 for Principle Settings
  - 2 for AMR
- It is imperative that UNC Governance surrounding Project Nexus and the Smart Metering Programme work closely together to ensure an efficient industry solution.
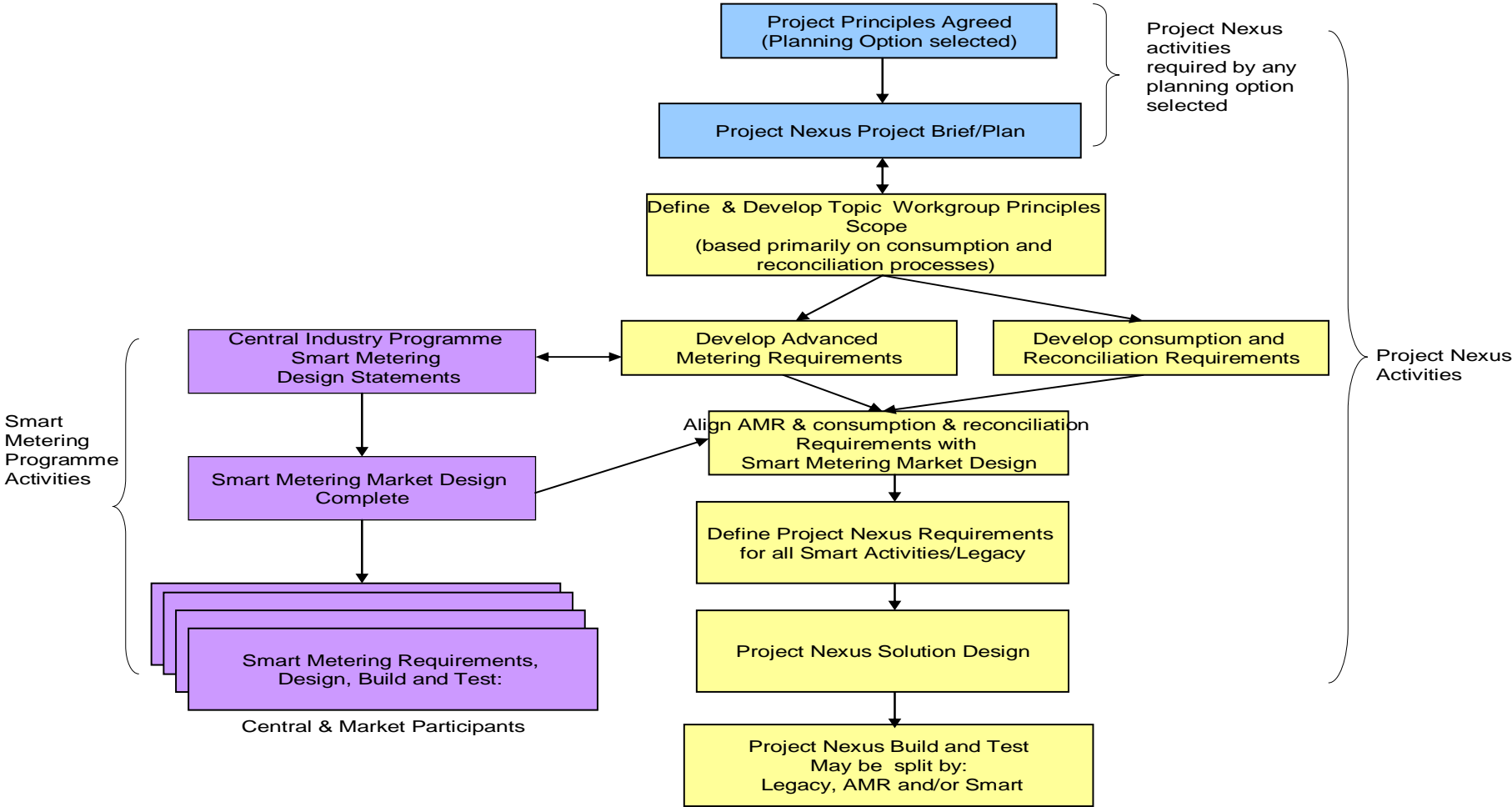
# Project Nexus Scope
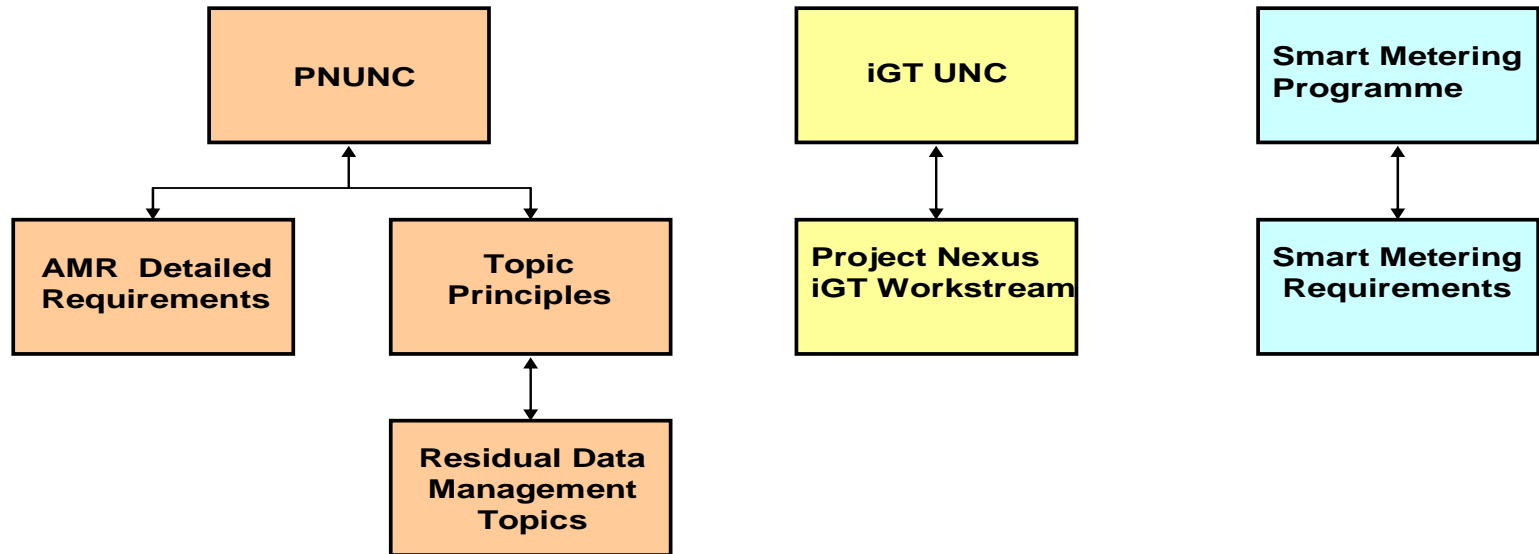
### Define Principles & AMR Requirements



AMR

Stage 1

Stage 1

Stage 2

Smart Metering

**Project Nexus Original Scope**

# Schematic of Re-structured Project Nexus

Project Principles Agreed
(Planning Option selected)

Project Nexus Project Brief/Plan

Project Nexus activities required by any planning option selected

Define & Develop Topic Workgroup Principles Scope
(based primarily on consumption and reconciliation processes)

Central Industry Programme Smart Metering Design Statements

Develop Advanced Metering Requirements

Develop consumption and Reconciliation Requirements

Project Nexus Activities

Smart Metering Programme Activities

Smart Metering Market Design Complete

Align AMR & consumption & reconciliation Requirements with Smart Metering Market Design

Define Project Nexus Requirements for all Smart Activities/Legacy

Project Nexus Solution Design

Smart Metering Requirements, Design, Build and Test:

Central & Market Participants

Project Nexus Build and Test
May be split by:
Legacy, AMR and/or Smart

5

xoserve

# Governance



PNUNC

AMR  Detailed Requirements

Topic Principles

Residual Data Management Topics

iGT UNC

Project Nexus iGT Workstream

Smart Metering Programme

Smart Metering Requirements

# Proposed Principle Workgroups

1. **Supplier Switching (L)**
2. **Allocations (M)**
3. **Annual Quantity Review (M)**
4. **Small Supply Point Reconciliation (L)**
5. **AMR Drift Reconciliation (S)**
6. **Retrospective Updates (M)**
7. **Residual Data Management (M)**

- IGT SPA not included in the plan until mandate from IGT UNC is received.

# Proposed Principle Workgroup Dependencies.
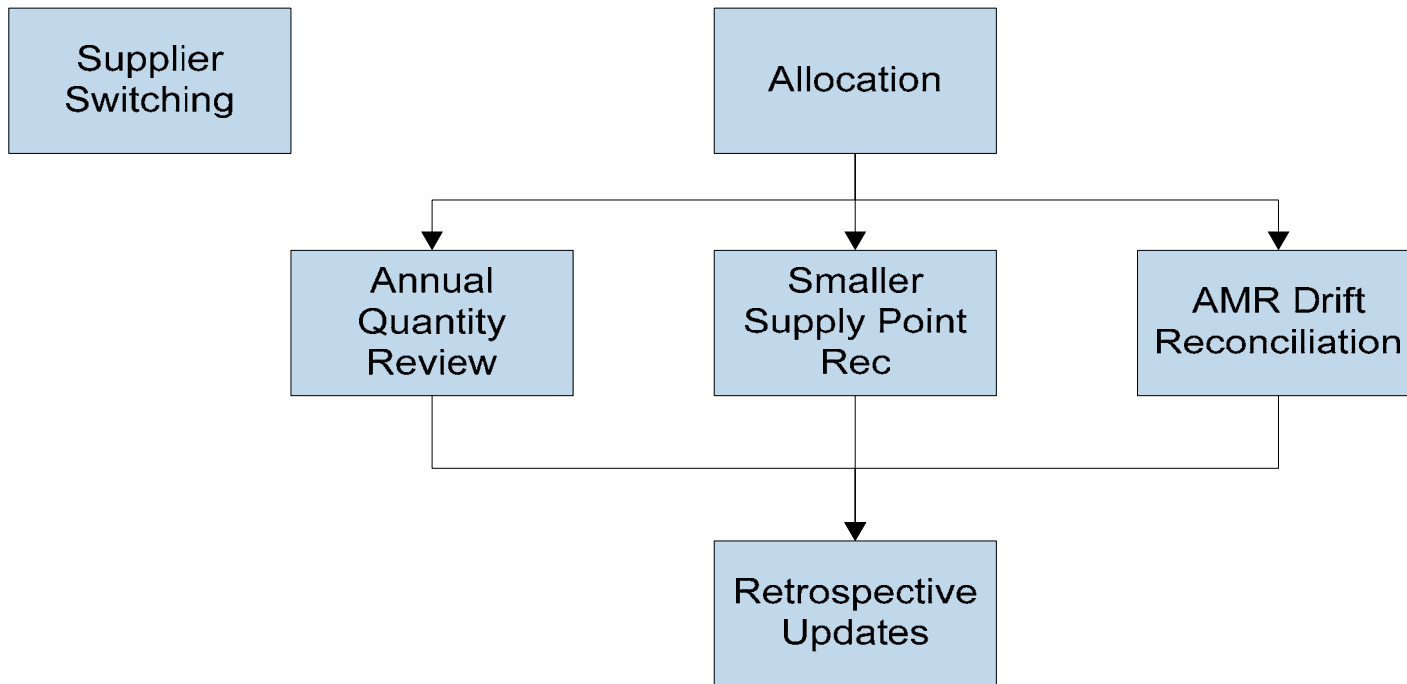
# Number of Principle-Setting Workshops Required

- The following planning assumption has been made about the number of workshops required.
  - Actual duration will be set by each Principle Workgroup, as it develops.
  - Set Up and TORs will be set in the Scoping Meetings.

|  | Small | Medium | Large |
|---|---|---|---|
| As-Is (Current Principles) | 1 (combined) | 1 | 1 |
| Present all Options | | 1 | 2 |
| Discuss and Select Preferred Outcome | 1 | 2 | 3 |
| Discuss and Approve Final Report | 1 | 1 | 1 |
| **Total Per Workshop Type** | **3** | **5** | **7** |
| Number of Principle Workshops in category | 1 | 4 | 3 |
| **Total Workgroups** | **3** | **20** | **21** |

X◇serve

# Residual Data Management

- Review key data related themes that were identified during the Consultation Phase, not logically covered by other groups. Potential examples include:-
  - Ownership.
  - Custodianship of key industry data.
  - Quality assurance
- Rationale
  - There were a large number of similar consultation responses in this area.
  - The AMR community may diverge from Smart due to the different industry models and business relationships.
  - The Scope of the Smart Metering programme be important to certain aspects of the Data Management debate.

XOserve

# Proposed AMR Workgroups

1. **New Connections (M)**
2. **Volume Capture/Meter Reading (M)**
3. **Annual Quantity/Allocation (M)**
4. **SPA (M)**
5. **Invoicing (S)**
6. **Reconciliation (S)**
7. **Retrospective Updates (S)**
8. **Non-Functional Requirements (S)**
9. **Market Differentiation (Sweep Up) (S)**

# AMR Topic Dependencies
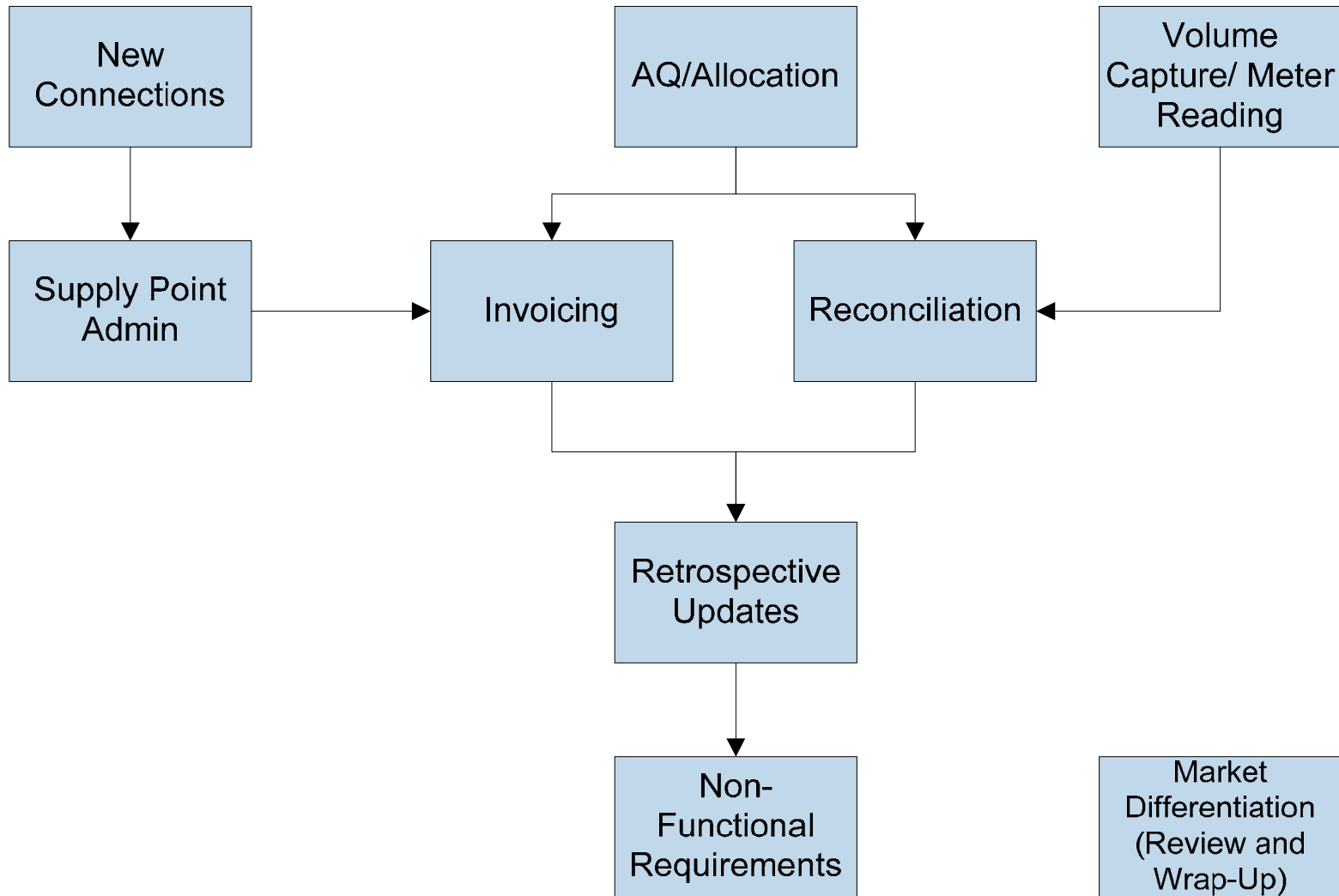
# Number of AMR Topic Workshops Required

- The following planning assumption has been made about the number of workshops required.
  - Actual duration will be set by each Topic Workgroup, as it develops.
  - Set Up and TORs will be set by PNUNC in the Scoping Meetings.
  - Due to reduced scope there are no large topics.

|  | Small | Medium |  |
|---|---|---|---|
| Set Up Meeting | 1 | 1 |  |
| As-Is Processes | 1 | 2 |  |
| To-Be Processes | 1 | 3 |  |
| Penultimate Meeting | 1 | 1 |  |
| Final Meeting | 1 | 1 |  |
| **Total Per Workshop Type** | **5** | **8** |  |
| Number of AMR Workshops in each category | 3 | 4 |  |
| **Total Workshops** | **15** | **32** |  |

XOserve

# Potential CCP Models - Summary

| Model A | Model B | Model C | Model D |
|---|---|---|---|
| <u>Access control</u><br>CCP is a user of Registration data | Model A **plus** | Model B **plus** | *Model D has now been de-scoped* |
| SPA, Registration, AQ, Allocation, Reconciliation, Invoicing & Adjustment, Gas Energy Balancing, Data Queries | <u>Supply point registration</u><br>Holds and manages data to support Registration / processes | | |
| | AQ, Allocation, Reconciliation, Invoicing & Adjustment, Gas Energy Balancing, Data Queries | <u>Data collation</u><br>Aggregation, AQ, Data Queries | |
| *xoserve prevailing services* | | Allocation, Reconciliation, Invoicing & Adjustment, Gas Energy Balancing | |
| *xoserve services provided with a change in scope* | Existing services for larger meters<br>Legacy processes for smaller meters during the transition from dumb to Smart | | |

xoserve

# Smart Metering Design Processes

- DECC will decide upon the shape of the Smart Metering Programme.

- The working assumption is that a Smart Metering programme will be established commensurate with Model C.

- This will mean 1 combined Workgroup as follows:-

- Combined Workgroup
  - Invoicing
  - Reconciliation
  - Retrospective Adjustments
  - Allocation

- Should DECC decide on any other version of the market model this will necessitate a re-planning exercise for this phase of Project Nexus.

# Additional Meetings

- 5 Scoping Meetings at the start of Phases.
  - 3 Principle Settings
  - 2 AMR Processes
  - A number to be defined for Smart Metering Topics
- Residual Data Management issues will be dealt with at the end of the Principle setting phase.
- Non-Functional meetings at the end of the requirements gathering process.
- Possible re-convening of Market Differentiation dependent on whether or not the ideas put forward are adopted by the Workgroups.
- 2 End Stage meetings at the end of the Principles Setting Workgroups.

# Project Nexus Interactions

- ## Responsibilities of UNC Project Nexus Workstream
  - Prioritisation & grouping of Principles, AMR Topics and issues.
  - Recommend approval or rejection of proposals.
  - Provide guidance to Principle & AMR Topic Workgroups.
  - Review Workgroup update reports.
  - Refer back to the Workgroup where further analysis or information is required.
  - Review details of any new topics or issues raised within the Workgroups and carry out an impact assessment to decide if a new Workgroup is required.
  - Ensure adequate publicity is given to proposals, as appropriate.
  - Seek views of the Authority or affected bodies (e.g. DECC, IGT UNC, SPAA etc.) on matters connected to any proposal.
  - Define assumptions and principles to support the business rule or principle development.
  - Track cross Topic Workgroup inter-dependencies.
  - Workstream to initiate legal drafting where appropriate.
  - Manage change control.

xoserve

# UNC Project Nexus Workstream Proposals

- Topics from the consultation will still form the basis of the discussions although new ones can be added.

- Project Nexus UNC Workstream formed to debate and develop the UNC Topics which inform the definition of requirements.

- Topics to be raised formally as per normal UNC Workstream governance.

- Any new Topics or issues to be raised in this way.

- It is important that Topics are raised by the consultation respondee in the Workgroups. Failure to do so may mean that the Topic is not discussed.

- Proposal to employ Topic Workgroups similar in structure to UNC Development Workgroups.

- Workstream to review current topics and decide which should be debated within a workgroup.

- Topics could be added/removed from the UNC discussions dependant on the scope of the Smart Metering Programme.

# Resources Available

- Requirements Register – From the Consultation phase.

- xoserve's review of topics.

- List of relevant Mods. (Live and closed)

- Interdependencies of Topic Workgroups.

- Contractual obligation Impacts.

- Outline Terms Of Reference for Topic Workgroups.

- Industry participant benefit matrix.

- xoserve existing Business Process Models.

**xoserve**

# Proposed Principles Management

- **Governance**
  - TOR for each Workgroup
  - All documentation available on JO website at least 5 days before meetings
  - JO to chair meetings
  - Minutes to be produced within 5 days
  - Agenda available at least 5 days prior to meeting
  - Monthly report to be sent to Workstream charting progress
  - Any new Topics to be approved by Workstream and allocated to a Workgroup
- **Scoping Meeting**
  - Review appropriateness of principles and their scope
  - Decide on attendees
  - Venue
  - Dates and times of meetings (10AM – 3PM)
  - TOR signed off
  - Creation of Workplan
  - Re-alignment of plan after scoping meeting

# Proposed Principles Management cont.

- **As Is Meeting(s)**
  - xoserve to document current 'As Is' Principles.
  - Baseline current process and obtain consensus
  - Outside the meeting stakeholders will identify issues
  - The number of 'As Is' meetings may vary dependent on size of Workgroup.

- **Options Meetings**
  - Opportunity for consultation respondents to air their views and develop their ideas into a tangible proposition.
  - Other stakeholders to present their issues & improvement opportunities.
  - Again the number of Options Meetings will vary by Workgroup size.

# Proposed Principles Management cont.

- **Preferred Outcome Meetings.**
  - Group to examine and discuss options & proposals.
  - Consider impacts of in-flight Mods.
  - Consider determinations made to closed Modifications. (Joint Office)
  - Costs & Benefits should be the main driver to take issues forward.
  - Further analysis may be needed.
  - This process may be helped by the production of Process Models.
  - Workgroup to decide which options and proposals are to be taken forward.

- **Final Approval Meeting.**
  - This will be the final meeting to ratify previous discussions.
  - This will involve Final Report writing and the creation of any necessary Modification proposals.
  - It is anticipated that this will be a single workshop.

xoserve

# Proposed AMR Topic Management

- **Governance**
  - TOR for each Workgroup.
  - All documentation available on JO website.
  - JO to chair meetings.
  - Minutes to be produced within 5 days.
  - Agenda available at least 5 days prior to meeting.
  - Monthly report to be sent to Workstream charting progress.
  - Any new Topics to be approved by Workstream and allocated to a Workgroup.
- **Set Up Meeting**
  - 1 meeting per Topic.
  - Review appropriateness of Workgroup topics.
  - Decide on attendees.
  - Venue.
  - Dates and times of meetings. (10AM – 3PM)
  - TOR signed off.
  - Creation of Workplan.
  - Possible re-alignment of plan.

# Proposed AMR Topic Management cont.

- **AS IS  Meetings**
  - xoserve to produce 'As Is' Process Model.
  - Baseline current process and obtain consensus.
  - Outside the meeting stakeholders will identify issues.
  - The number of 'As Is' meetings may vary dependant on size of Workgroup.
- **To Be Meetings**
  - Opportunity for consultation respondents to air their views and develop their ideas into a tangible proposition.
  - Other stakeholders to present their issues & Improvement Opportunities.
  - Any new topics to be referred to PNUNC.
  - Consider impacts of in-flight mods.
  - Consider determinations made to closed modifications. (Joint Office)
  - Costs & Benefits should be the main driver to take issues forward.
  - Further analysis may be required.
  - Workgroup to decide which options and proposals are to be taken forward.
  - The group will produce updated To Be Process models.

xoserve

# Proposed AMR Topic Management cont.

- **Penultimate & Final Approval Meetings.**
  - These will be required to ratify previous discussions.
  - They will involve Final Report writing and the creation of any necessary modification proposals.
  - Business rules will be written .
  - 2 meetings have been allocated for this process.

XOserve

# Proposed Workgroup Outputs

- Re-draw Process Models after the discussions have concluded to produce 'To Be' Maps where appropriate.

- xoserve will maintain a register to ensure that all Principle areas are discussed and ensure traceability

- Produce a report for every Workgroup including a justification for their outcome to be co-ordinated by JO.

- Raise any UNC Mod as appropriate & pass to Workstream again this will be administered by JO.

- Capture Requirements in a tool to be defined by xoserve.

- Produce a set of business rules sufficient to aid design.

- Where consensus cannot be reached escalation will be.
  1. Workstream
  2. Modification Panel

- If a decision to change is not agreed the status quo remains.

# UNC Project Nexus Planning Assumptions

- Workgroups cannot all be worked concurrently.
    - Resources
    - Dependencies
- Experience of Market Differentiation shows that 3 day Workgroups are not practical.
    - Analysis usually required
- There will be fewer Workgroups for each topic and no more than 2 days in length.
- As a consequence of there being fewer Workgroups there will be less administration for all parties.
- Review of Requirements to ensure that they are all still relevant.

XOserve

# Workshop Effort Required

| | Principle Workshops | | | AMR Detailed Requirements | | |
|---|---|---|---|---|---|---|
| | **No. of Workgroups** | **No. of Topic Workgroups** | **Sub-Total** | **No. of Workgroups** | **No. of Topic Workgroups** | **Sub-Total** |
| Small | 3 | 1 | 3 | 5 | 3 | 15 |
| Medium | 5 | 4 | 20 | 8 | 4 | 32 |
| Large | 7 | 2 | 14 | N/R | | |
| Scoping | 3 | | 3 | 2 | | 2 |
| Sub-Total | | | 41 | | | 49 |
| End Stage | | | 2 | | | |
| Total | | | 42 | | | 49 |

- Planning assumption only. To be confirmed after Scoping Workgroups.