

Open Networks Project Work Plan Consultation Webinar

February 4th 2021



Thank you for joining this Open Networks Project Webinar on the 2021 Workplan consultation.

- This webinar will commence at 10:03.
- If you are unable to play the audio through your device, you can **dial in by calling +44 20 3855 5885 and using access code 353 758 276**. All microphones have been set to mute to avoid background noise. Please ask questions or make comments **via the chat function** throughout the meeting. We will pause for a Q&A in the middle & end.
- We will address as many of these as possible during the presentation and will make the recording available online.
- If you would like to receive information about the Open Networks Project or have any feedback you would like to submit, please get in touch with us at opennetworks@energynetworks.org.

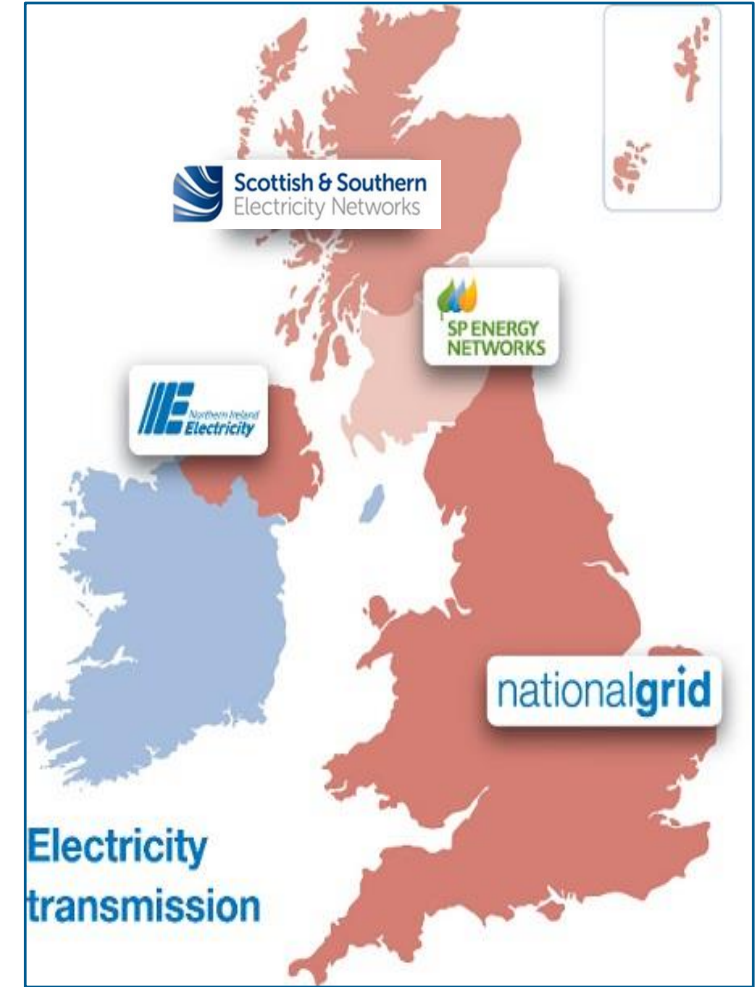
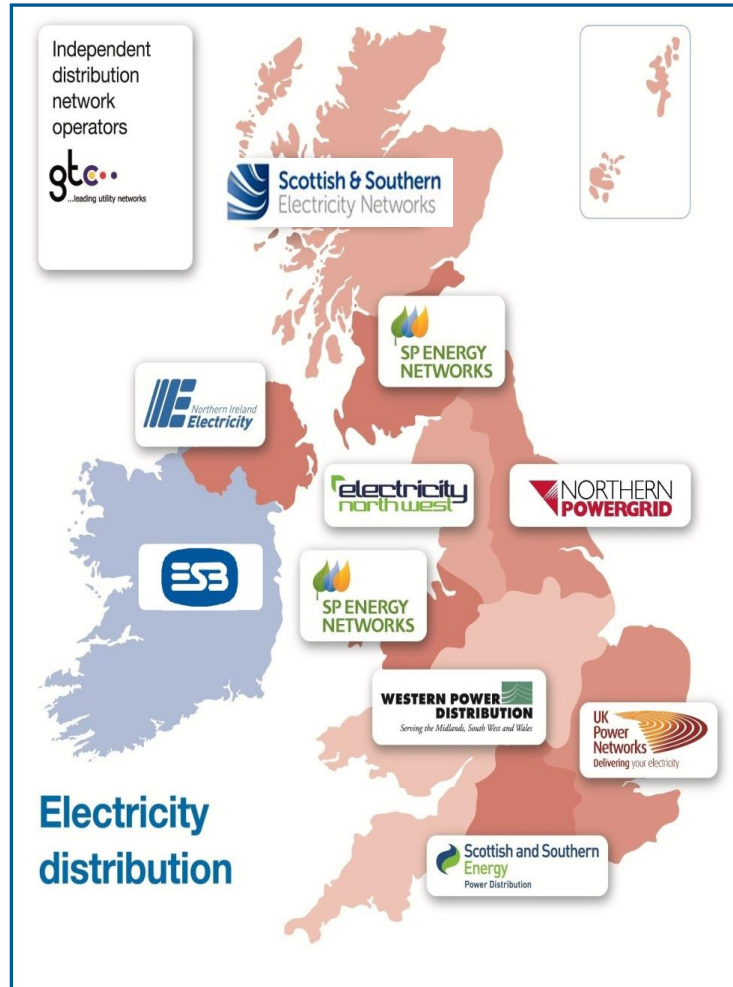
Agenda

	Topic	Duration	Presenter	Time
1	Introduction & Background	10m	Farina Farrier (ENA) Jason Brogden (ENA)	10:00 – 10:10
2	WS3 DSO Transition	10m	Steve Atkins (SSEN)	10:10 – 10:20
3	WS4 Whole Energy System	10m	Mark Herring (NG ESO)	10:20 – 10:30
4	WS1A Flexibility Services	10m	Sotiris Georgiopoulos (UKPN)	10:30 – 10:40
5	Q&A	10m	Farina Farrier (ENA)	10:40 – 10:40
6	WS1B Whole Electricity Systems & T D Coordination	10m	Ian Povey (ENWL)	10:50 – 11:00
7	WS2 Customer Connections and Information Provision	10m	Jim Cardwell (NPG)	11:00 – 11:10
8	2020 Year End Review & Stakeholder Engagement	10m	Emily Jones (ENA) Dan Clelland (ENA)	11:10 – 11:20
9	Q&A and Wrap-up	10m	Farina Farrier (ENA)	11:20 – 11:30

About ENA

Energy Networks Association (ENA) represents the ‘wires and pipes’ transmission and distribution network operators for gas and electricity in the UK and Ireland.

ENAs overriding goals are to promote the UK and Ireland energy networks ensuring our networks are the safest, most reliable, most efficient and sustainable in the world.



Open Networks – Delivering a Smart Grid



ENA's The Open Networks Project is a major industry initiative that is powering Britain forward to Net Zero by enabling homes, businesses, and communities to provide clean energy back to the networks. Open Networks is delivering a smart grid by opening up new markets, and building an all inclusive energy system



The Open Networks Project will help customers connect and break down barriers, enabling customers to access multiple markets to provide services; all the while reducing cost for consumers through more cost effective planning



Making a positive difference
for energy consumers



HM Government

Late last year Government launched the Prime Minister's Ten Point Plan, the Climate Change Committee's Sixth Carbon Budget and the Energy White Paper. The publication of these plans means we now have clear policy pathways for UK decarbonisation, and the Project is now better positioned than ever before to tackle the important and ambitious target of achieving Net Zero by 2050.



We are taking a 'learn-by-doing' approach; we are using innovation funding to trial and test aspects of the various future electricity system options to drive the key changes needed to transition to a Net Zero emissions smart grid.

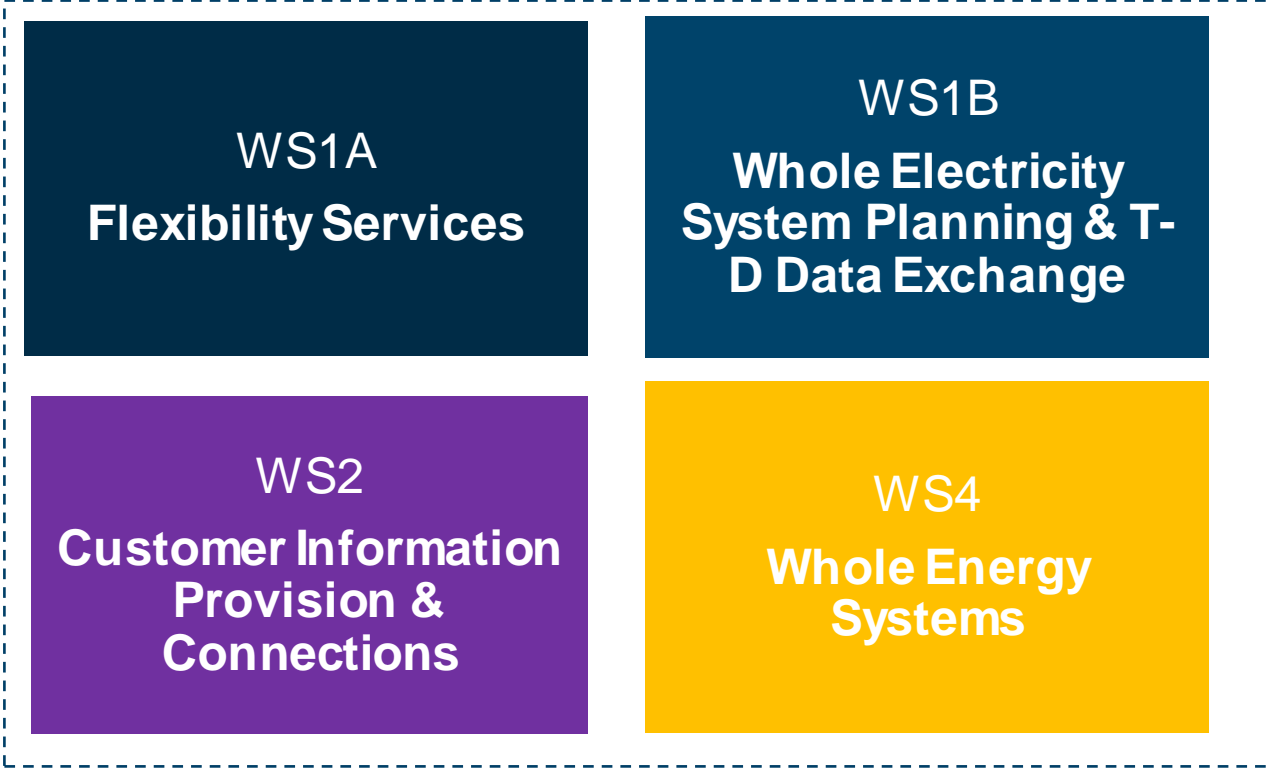
A short animation on the Project can be found at: https://youtu.be/te_d34zldJ8

2021 Areas of Work

Longer term focus.

Taking ownership of the overarching DSO Implementation Plan.

WS3
DSO Transition



Progressing short to medium term developments for DSO

WS5
Comms & Stakeholder Engagement

Overseeing stakeholder engagement and comms across the project.

Key Priorities

Flexibility remains the largest area of work with highest priority

As well as defining our body of work, we have identified key dependencies, particularly RII02

With more clarity from Government through the 10 point plan and the Energy White Paper, Open Networks will continue to enable delivery of Net Zero by:

- a) **opening local flexibility markets to demand response, renewable energy and new low-carbon technology and removing barriers to participation**
- b) **providing opportunities for these flexible resources to connect to our networks faster**
- c) **opening data to allow these flexible resources to identify the best locations to invest**
- d) **delivering efficiencies between the network companies to plan and operate secure efficient networks**

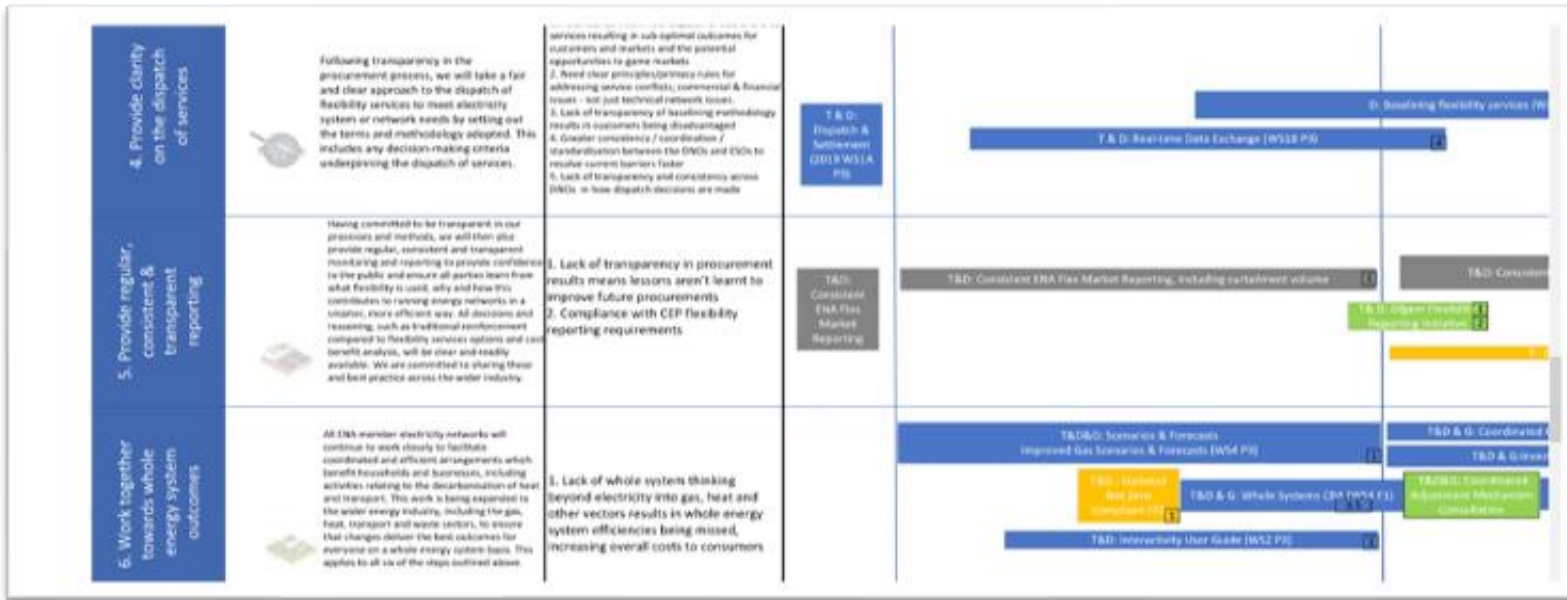
Flexibility Roadmap

We have published a Flexibility Roadmap which links our development work to our Flexibility Commitments and Next Steps for Implementation as well as a consolidated list of key stakeholder issues

Providing a forward looking view of work beyond 2021 and signposts key industry developments that are feeding into our work.



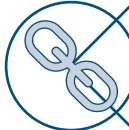
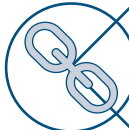
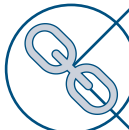
In Jun 2019, Electricity Networks committed to six steps for making these emerging flexibility markets work in practice



ENA launched a 6-week consultation on its 2021 workplan, open from Jan 18th – March 1st

We are keen to hear views from the industry on this ambitious programme of work and have asked for any comments in any format to make it easy to respond.

More information on this consultation including the full PID can be found on our website

-  [2021 Consultation Document](#)
-  [2021 Workplan](#)
-  [Flexibility Roadmap](#)

Workstreams & Products

WS3 DSO Transition - The journey so far

2017

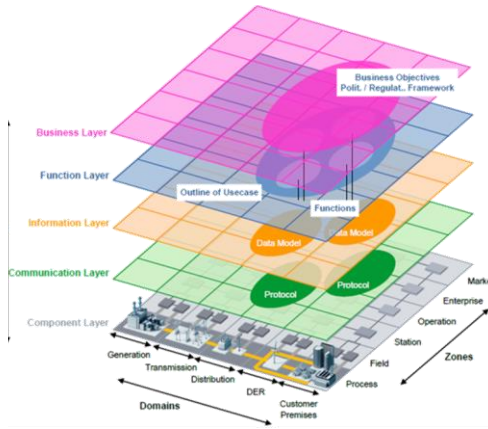
Foundations for "Future Worlds"

- DSO Definition & Functions
- Principle of neutral market facilitation
- Commercial Principles paper 2017



2018

Detailed SGAM modelling

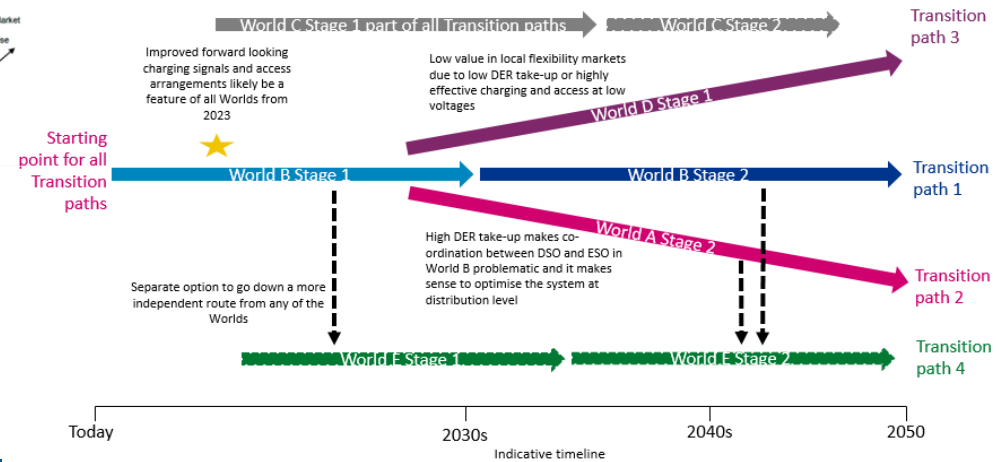


Modelled 5 different Future Worlds with different attribution of roles and responsibilities for DSO Functions.

2019

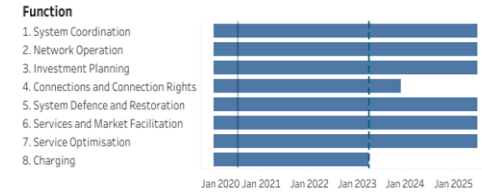
Impact Assessment & Pathways

Independent assessment set out a pathway in the short term on a model of stronger coordination between DNOs and ESO and allows for future changes to roles and responsibilities to deliver the most effective mode.



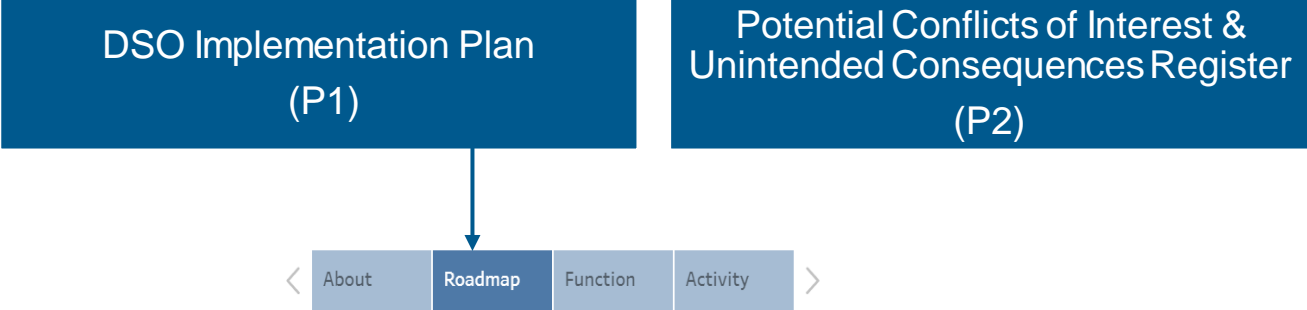
2020 & 2021

DSO Implementation Plan



DSO Transition

Setting out a clear plan giving visibility of actions as well as key decisions that are required to progress the development and implementation of the least regrets pathway to Distribution System Operation.

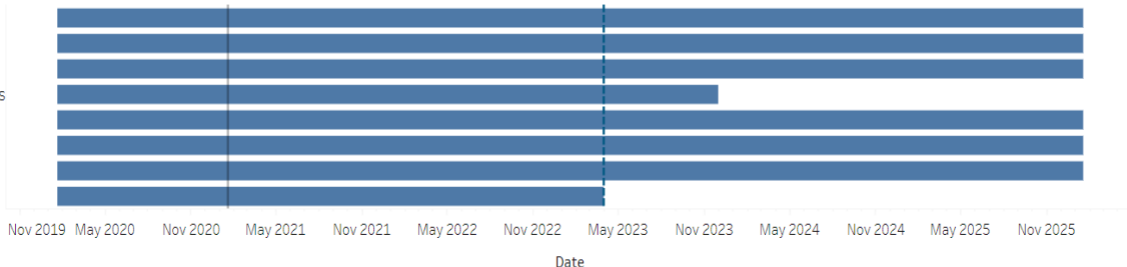


ENA DSO Implementation Plan

Purpose:
The aim of the DSO Implementation Plan visualisation is to provide visibility of actions and implementation of change for all electricity network and system operators that are required to progress the least regrets pathway to Distribution System Operation (DSO).

Time frame
Medium term

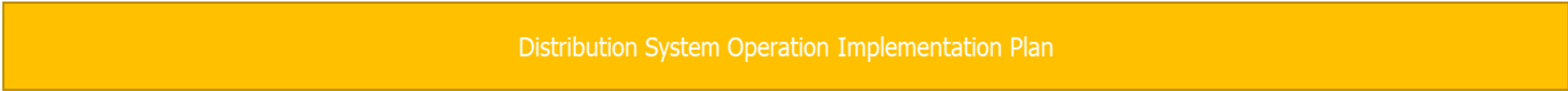
- Function**
1. System Coordination
 2. Network Operation
 3. Investment Planning
 4. Connections and Connection Rights
 5. System Defence and Restoration
 6. Services and Market Facilitation
 7. Service Optimisation
 8. Charging



Developed by

The DSO Implementation Plan is an interactive tool that shows all the actions that networks companies are undertaking to progress the transition.

WS3 2021 – Key milestones



Publish first iteration



Publish second iteration



Publish findings of independent audit of DSO Roadmap

Making accessibility improvements & enabling data extraction

Increasing granularity and publishing company level data for more transparency

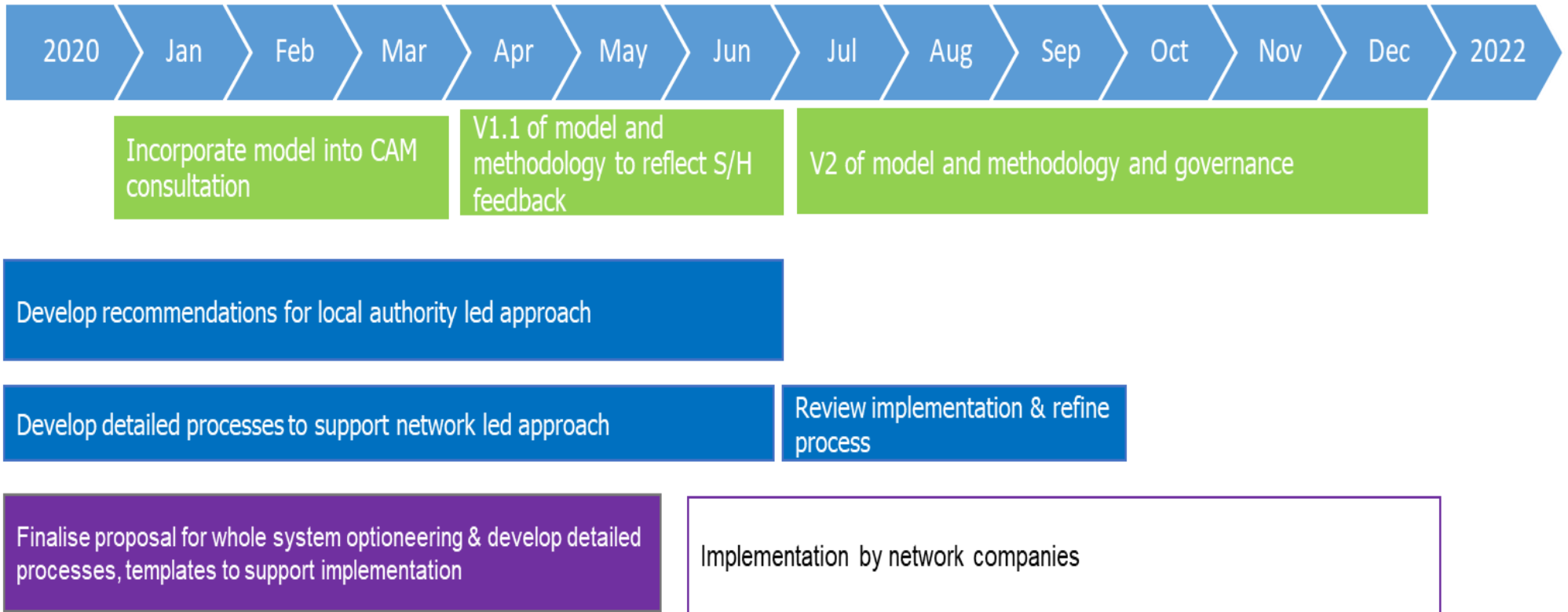
Independent audit to review and challenge activity

Whole Energy System

Delivering benefits for customers and consumers by realising more cost-effective network investment and operation across the electricity and gas networks.

Product	Description
Whole System CBA (P1)	Further development of the CBA methodologies defined in 2020.
Investment Planning (P4)	Building on 2020 optioneering proposals for implementation.
Coordinated Gathering of Regional Data (P3)	Driving short term network led and long term local authority led approaches.

WS4 Timeline



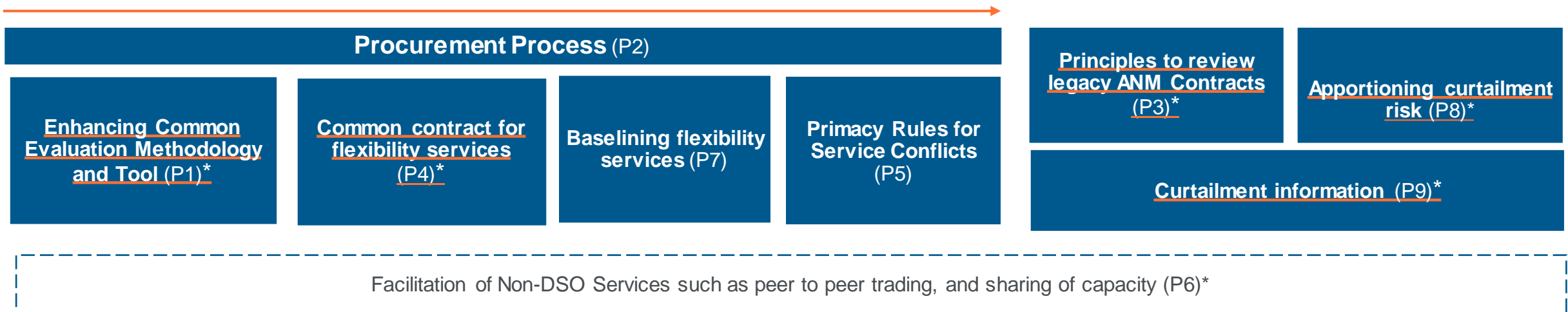
WS1A - Flexibility Services

Developing **transparency** and **standardised** approaches across DNOs flexibility procurement, delivering consistency with the ESO.

Enabling **new markets and platforms** for flexibility (e.g. peer-to-peer trading).

Reducing reliance on Flexible Connection **ANM** contracts

* Indicates key products prioritised for resourcing and delivery



WS1A - High Priority Products

Product	Description
Common Evaluation Methodology (P1)	Enhancing the areas of optionality and carbon assessment.
Common contract for flexibility services (P4)	Building on standard agreement to incorporate liability, indemnity and insurance.
Principles to review legacy ANM Contracts (P3)	Reduce reliance on ANM by offering improved choices.
Non-DSO Services (P6)	Facilitation of Non-DSO Services such as peer to peer trading, and sharing of capacity
Apportioning curtailment risk (P8)	Options for how the risk of curtailment might be more equitably spread across ANM connections
Curtailment information (P9)	Improve information to enable participation in flexibility markets

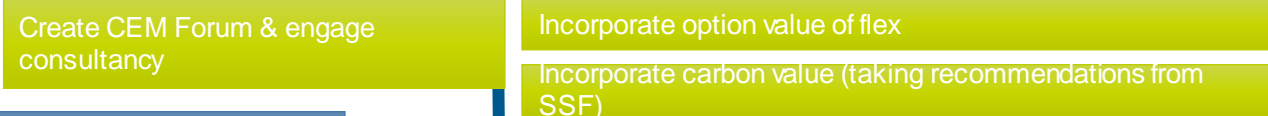
WS1A - Other Products

Product	Description
Procurement Process (P2)	Further alignment of DNO and ESO procurement timescales (including consideration of the Capacity Market).
Primacy Rules for Service Conflicts (P5)	Helping economic and efficient management
Baselining flexibility services (P7)	Implementation of a common baseline for all DNOs

WS1A Timeline



P1 – CEM



P2 – Procurement Process



P4 – Common Contract



P5 – Primacy Rules for service conflicts



P6 – Non-DSO services



P7 – Baselineing



P3 (ANM) – Principles to review legacy ANM contracts



P8 (ANM) – Apportioning curtailment risk



P9 (ANM) – Curtailment info



Q&A

Whole Electricity System Planning & T-D Data Exchange

Optimising existing processes and **data exchange** across T & D boundary.

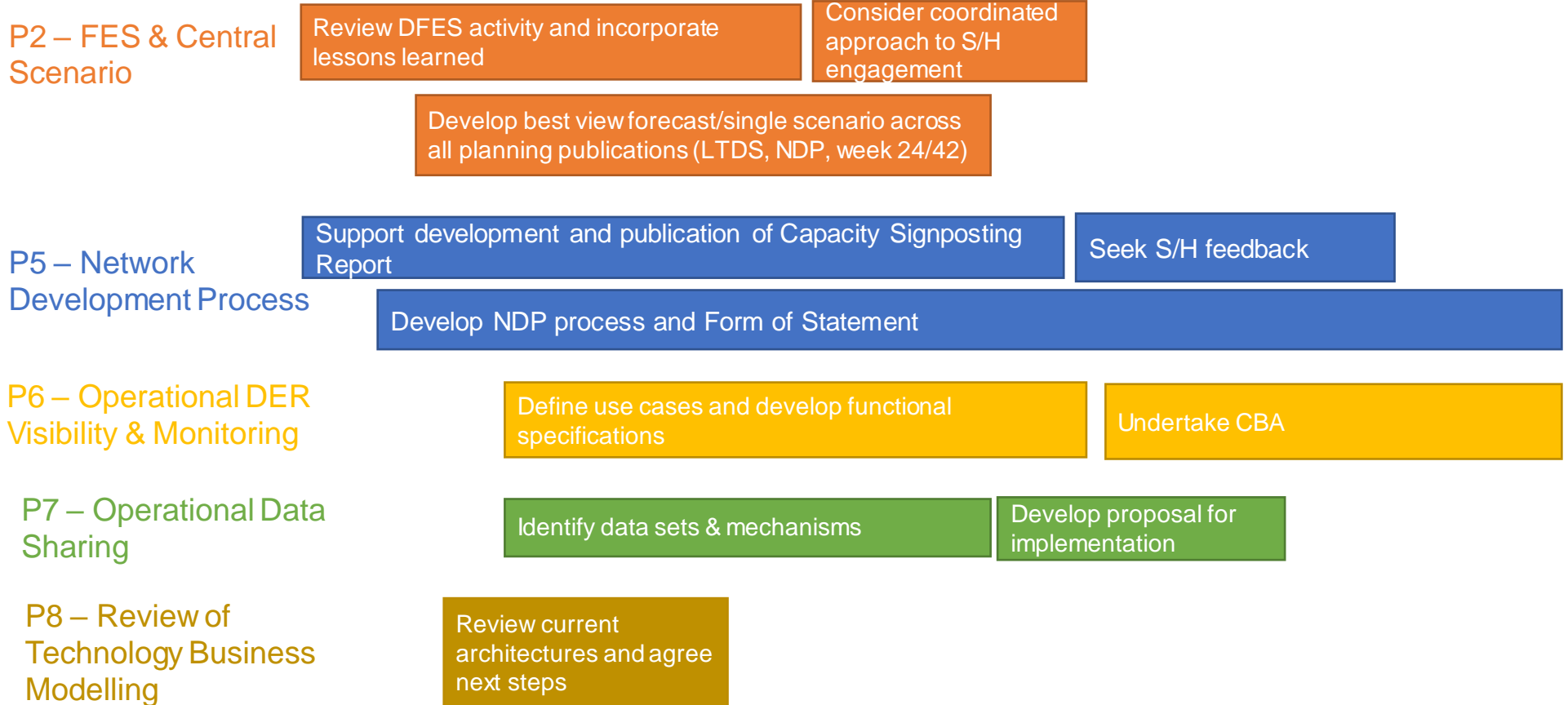
Improving **visibility of DER** for operational planning.

Improved **data provision** for non-network stakeholders.

WS1B - Product details

Product	Description
FES & Central scenario (P2)	Improving the quality of DFES and FES publications for stakeholders and further alignment across various forecasting processes.
Network Development Process (P5)	Building on capacity signposting and developing the end to end process for Network Development Plans.
Operational DER visibility and monitoring (P6)	Defining needs cases, CBA framework, and performing CBA to inform policy on DG visibility.
Operational Data Sharing (P7)	Supporting and informing an upcoming license condition to improve operational data sharing
Review of Technology Business Management (P8)	Scoping activity to review current systems for capturing IT/OT systems and establish feasibility of adopting TBM.

WS1B Timeline



In addition to the above, WS1B will monitor industry developments on outputs delivered through P1 Investment Planning, P3 Real Time Data Exchange and P4 Data Exchange in Planning Timescales.

Customer Information Provision & Connections

Delivering improvements to customer connections process and identifying further opportunities for consistency.

2021 Products	Description
Embedded Capacity Register (P1)	Incorporate improvements, include T and ESO elements and consider inclusion of <1MW
Queue Management (P2) +	Implementation and review for further improvements.
Interactivity (P3)	Developing process from 2020 to embed the recommendations of CMP328.
Connection agreement review (P4)	Reviewing current DNO connection agreements in light of more recent smart grid developments.
User Commitment Improvements (P5)	Review of process and, if merited, recommend actions to modify the methodology.

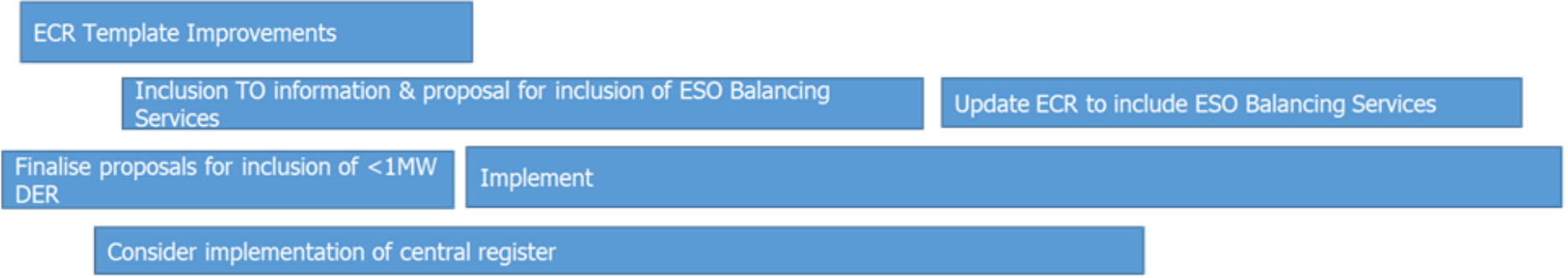
+Ongoing implementation of Queue Management including proposals published in 2020.

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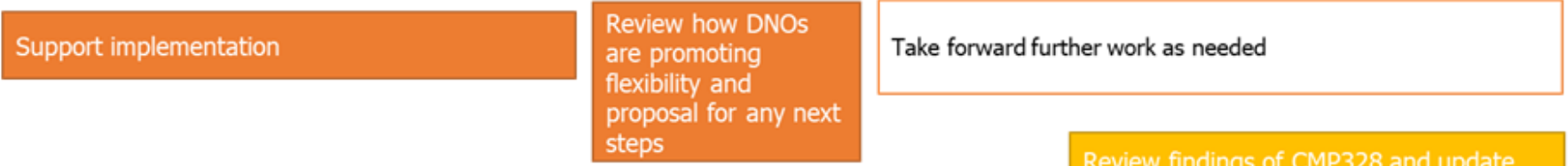
WS2 Timeline



P1 – Embedded Capacity Register



P2 – Queue Management



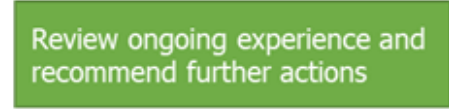
P3 – Interactivity



P4 – Connection Agreement Review



P5 – User Commitment Improvements



WS5 - Stakeholder Engagement

2021 Objectives – use a combination of public affairs, press, social media & direct engagement to raise stakeholder awareness of:

- How and where the Project is driving the key changes and innovation needed to transition to deliver Net Zero emissions
- The role network operators are playing in laying the foundations for the UK's smart electricity grid
- Key focuses of the Project this year. These include: industry leading work on Flexibility Services, continued work delivering the DSO transition, improving the customer connections process, and delivering Whole Energy Systems Efficiencies
- Opportunities to engage with the Project, our development work and our output

This workstream will continue to:

- Proactively support stakeholder engagement for key Open Networks Output
- Provide comms input and review into key publications (e.g. consultations, EoY report)
- Engage with parliamentarians & policy makers
- Generate media and stakeholder interest
- Generate Press Releases and interviews
- Communicate via Social Media
- Generate research material and/or communications material (e.g. animations) to support key messaging
- Participate in event speaking opportunities
- Conduct ENA and Member profile raising

2021 Q1 key activity

- Recently launched the 2020 End of Year Review alongside the Workplan consultation and PID. We will continue to promote the consultation in the lead up to the March deadline.
 - Publication of v1.2 of the common contract
 - Domestic flexibility event
 - First Community Energy Forum
-
- Will issue Q1 newsletter with activity overview in March
 - Will be running a range of webinars for different products – information for these will be available via ENA's Events page

Q&A

How to Respond

For more information about the Open Networks project, please don't hesitate to get in touch with us at opennetworks@energynetworks.org

Or

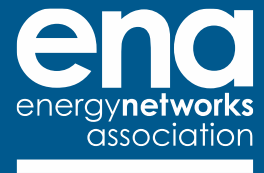
visit our website

<https://www.energynetworks.org/creating-tomorrows-networks/open-networks>

The consultation closes on **1st March 2021** and feedback on the Open Networks 2021 Work Plan is welcomed from all stakeholders.

If you would like to respond to the consultation, please submit your response to opennetworks@energynetworks.org.

ENA will publish a response mid-May 2021.



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The voice of the networks

Useful Links

Project Scope for 2021

**Work plan
consultation**

Flexibility Roadmap

We welcome feedback and your input

**DSO Implementation
Plan**

**Stakeholder events &
supporting material**

**2020 End of Year
report**

How to get involved

Advisory
Group

Public
Consultations

Public Events

Mailing List

Click [here](#) to join our mailing list

Flexibility Commitments



In Dec 2018, DNOs made the commitment to openly test the market to compare relevant grid reinforcement and market flexibility solutions for all new projects of significant value

- This is key in reducing the costs of new infrastructure investment and lays the foundations for a new, cleaner, more flexible network
- Offers households, businesses and communities the ability to offer their flexible services to the networks
- Taking a technology agnostic approach
<http://www.energynetworks.org/assets/files/ENA%20Flex%20Commitment.pdf>

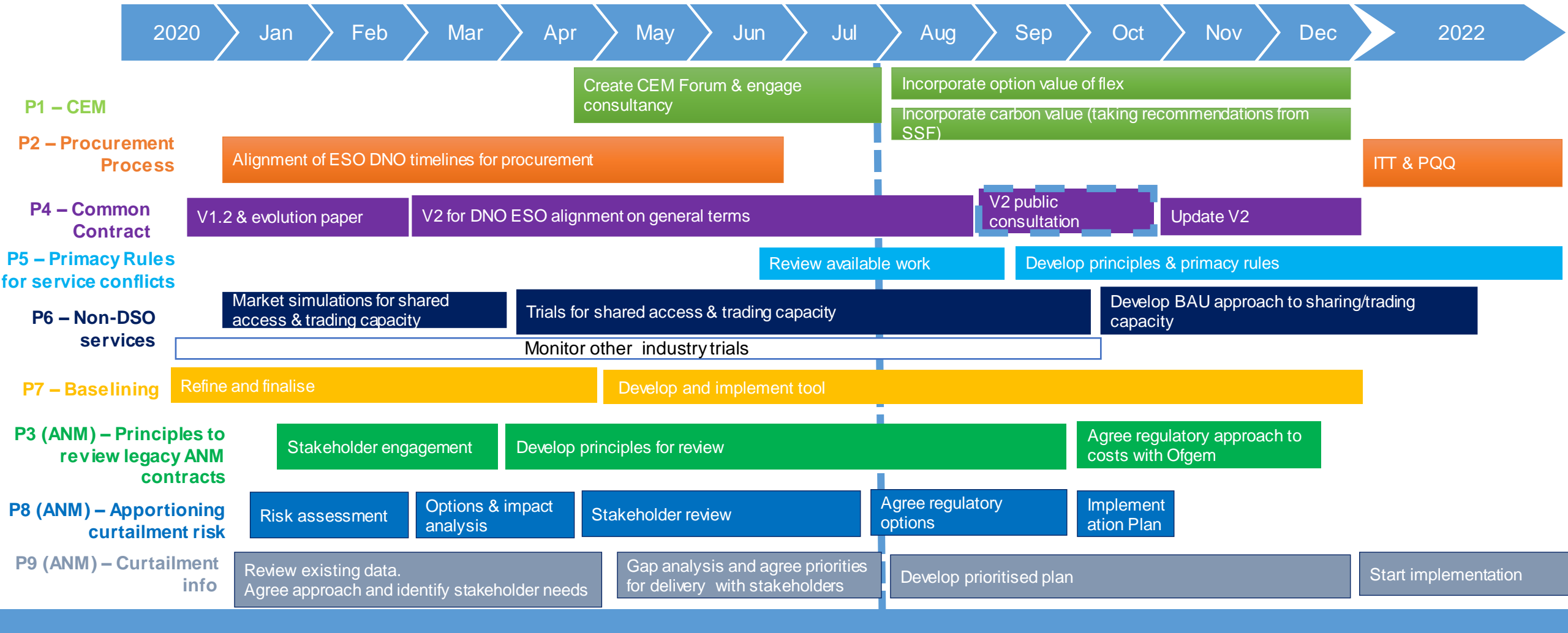


In Jun 2019, Electricity Networks committed to six steps for making these emerging flexibility markets work in practice

1. Champion a level playing field
2. Visibility and accessibility
3. Conduct procurement in an open and transparent manner
4. Provide clarity on the dispatch of services
5. Provide regular, consistent and transparent reporting
6. Work together towards whole systems outcomes

<http://www.energynetworks.org/assets/files/ENA%20Flexibility%20Commitment%20Our%20Six%20Steps%20for%20Delivering%20Flexibility%20Services.pdf>

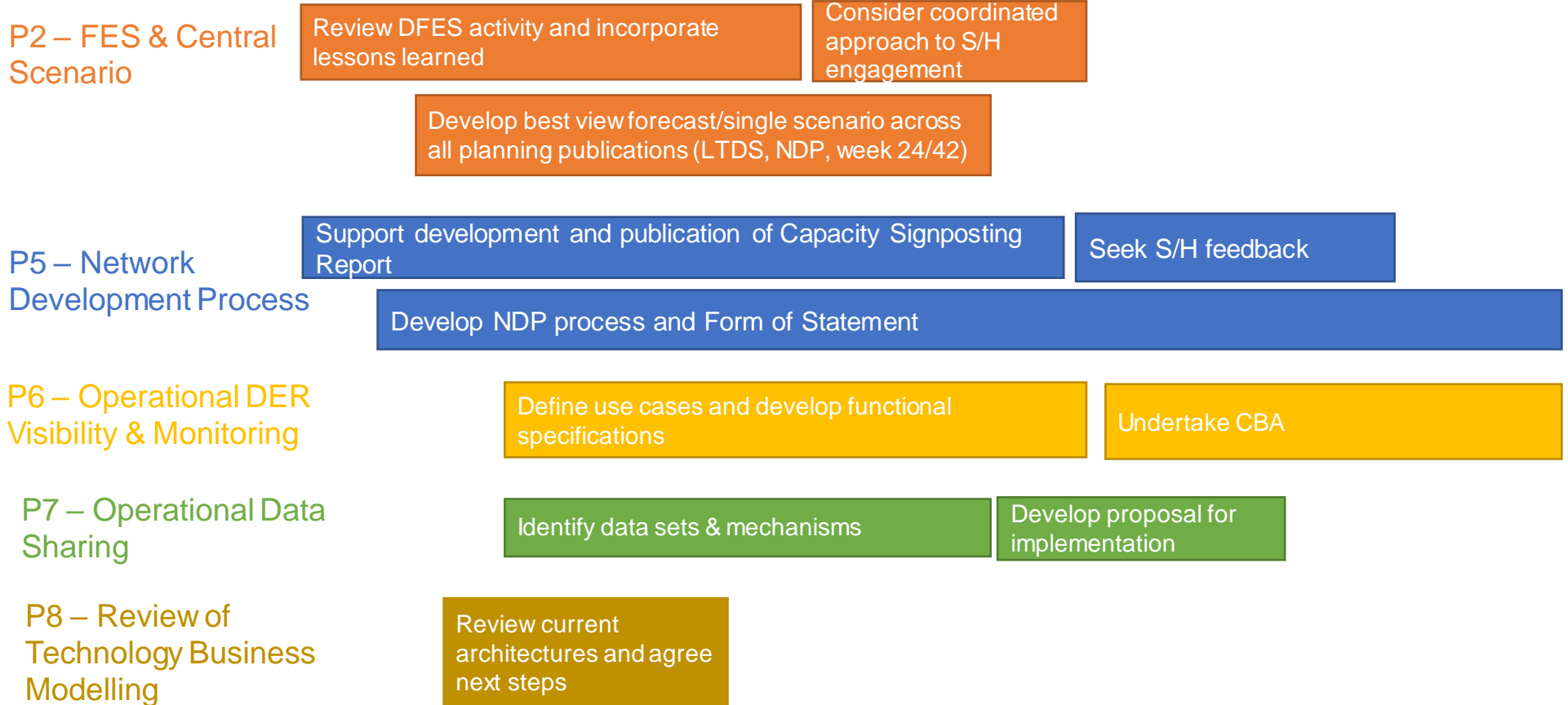
WS1A Timeline



The voice of the networks

Public consultation on all work up to Jul 21 followed by public consultation on P4 Common Contract in Aug 21

WS1B Timeline

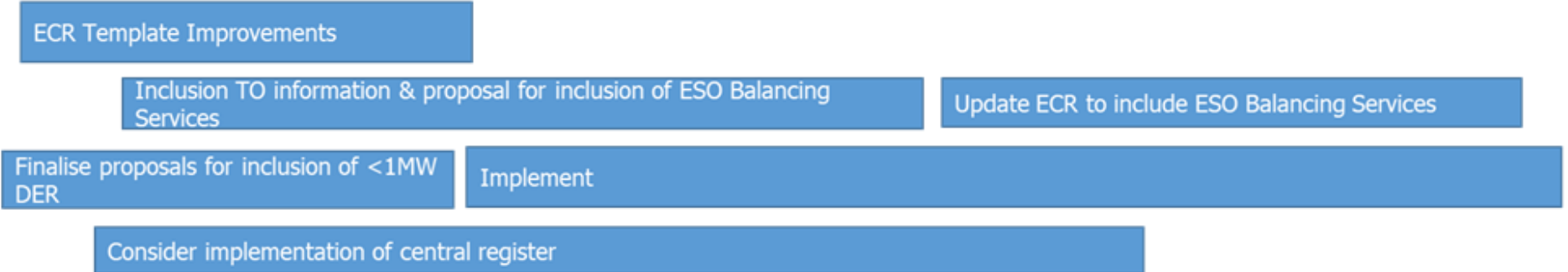


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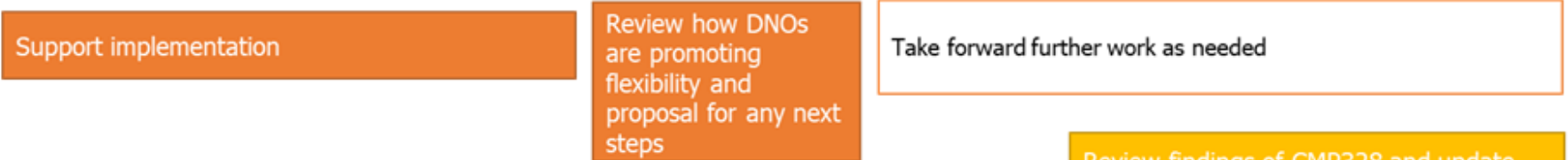
WS2 Timeline



P1 – Embedded Capacity Register



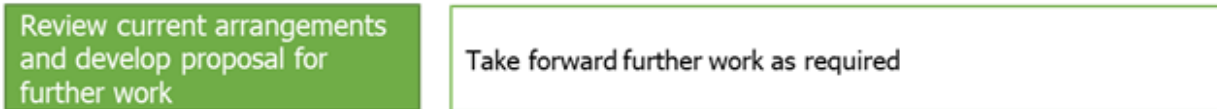
P2 – Queue Management



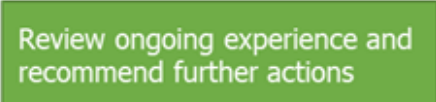
P3 – Interactivity



P4 – Connection Agreement Review



P5 – User Commitment Improvements



WS4 Timeline

