



# Integrated System Plan

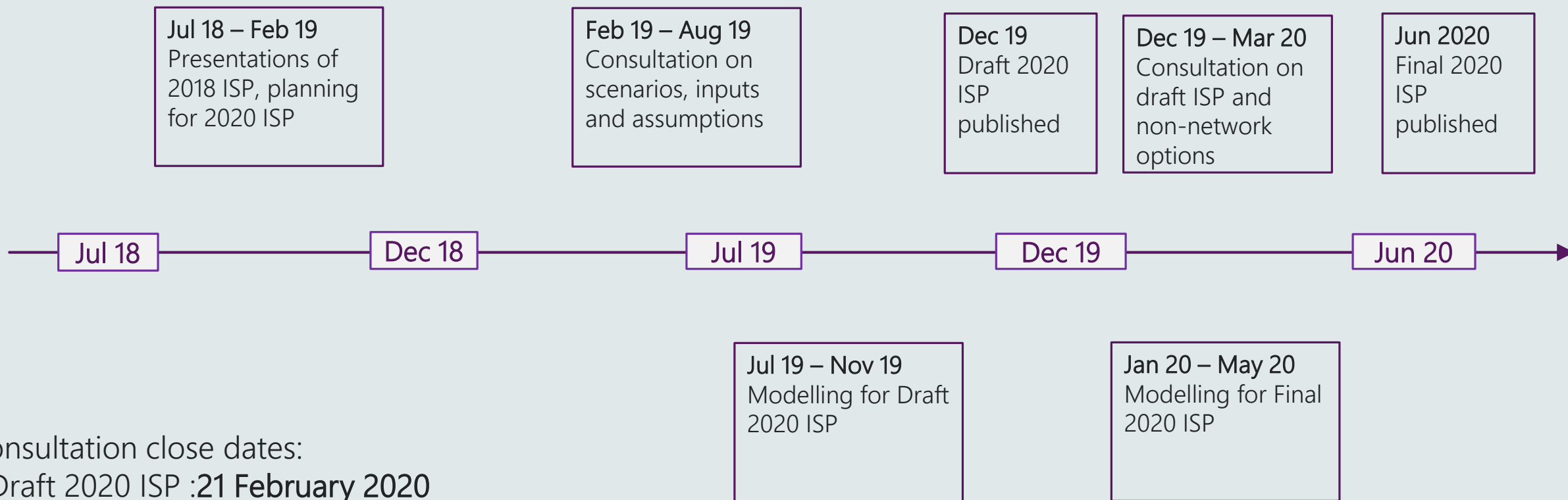
Stakeholder Workshop

I would like to acknowledge that this meeting is being held on  
Aboriginal land.

I pay my respects to their Elders past, present and future.

# Acknowledgement of Country

Natasha Sinclair,  
Principal Analyst / ISP Stakeholder Engagement



Consultation close dates:

- Draft 2020 ISP : **21 February 2020**
- Non-network options for QNI medium/VNI west: **13 March 2020**

In addition, AEMO is currently consulting on *key inputs and assumptions* for use in its 2020 Forecasting publications, with submissions due 7 February 2020.

# Our timeline

- Provide an opportunity to ask questions and improve your understanding of the ISP process and outcomes
- Involve participants in the ISP process by requesting feedback and input to prioritisation of workscope for the Final 2020 ISP

# Objectives of today

# Welcome

Alex Wonhas,  
Chief System Design and Engineering Officer

- In case of emergency...
- Ground rules
- Our set up
- Photos
- Social Media
- Media

# Today

- Reviewing the roadmap
- Understanding the details
- What else...

# Agenda

Let's get  
to know each other



## At your table...

- Introduce yourself - name, company

## then...

- What are you most excited about for the future?

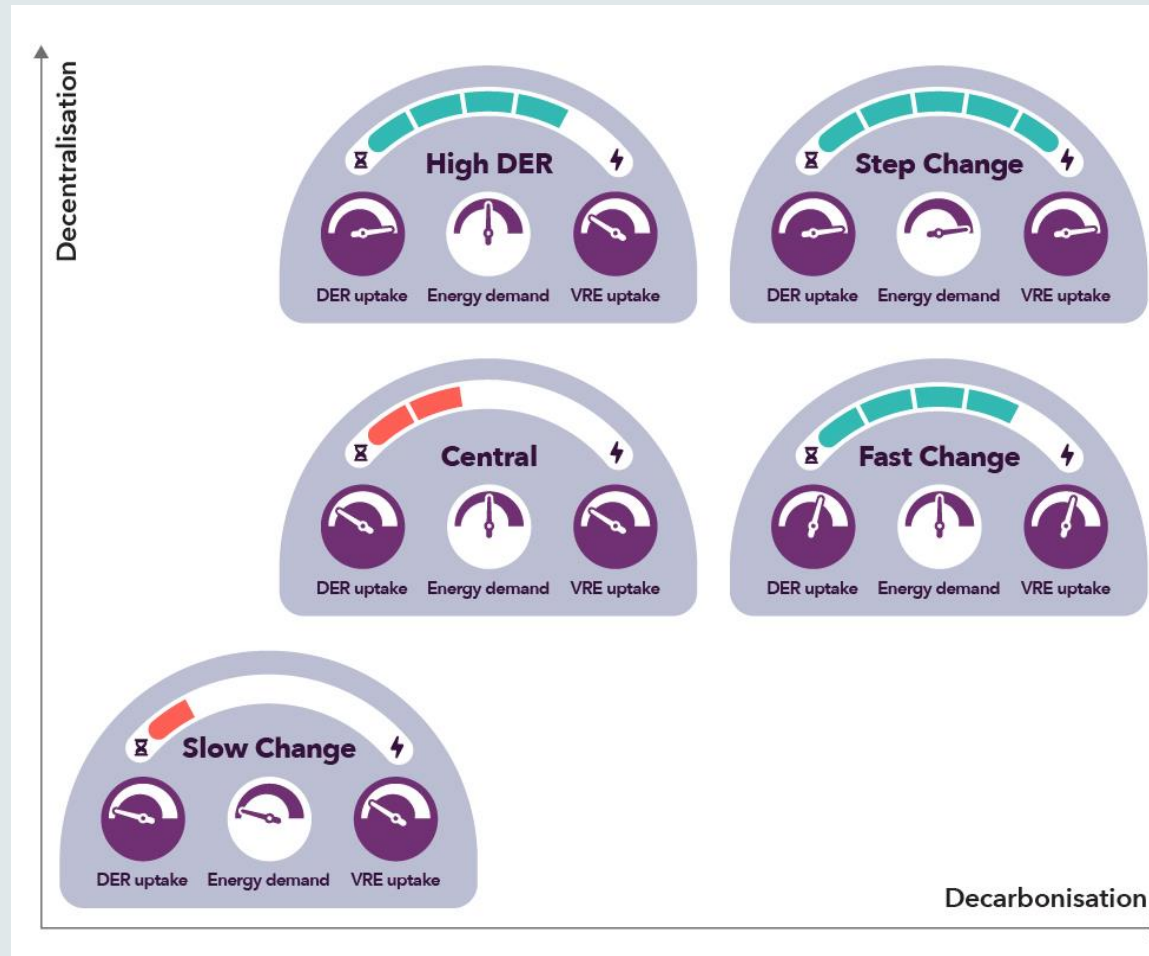
# Introducing...the ISP



- The ISP process | Nicola Falcon
- A dynamic roadmap | Craig Price

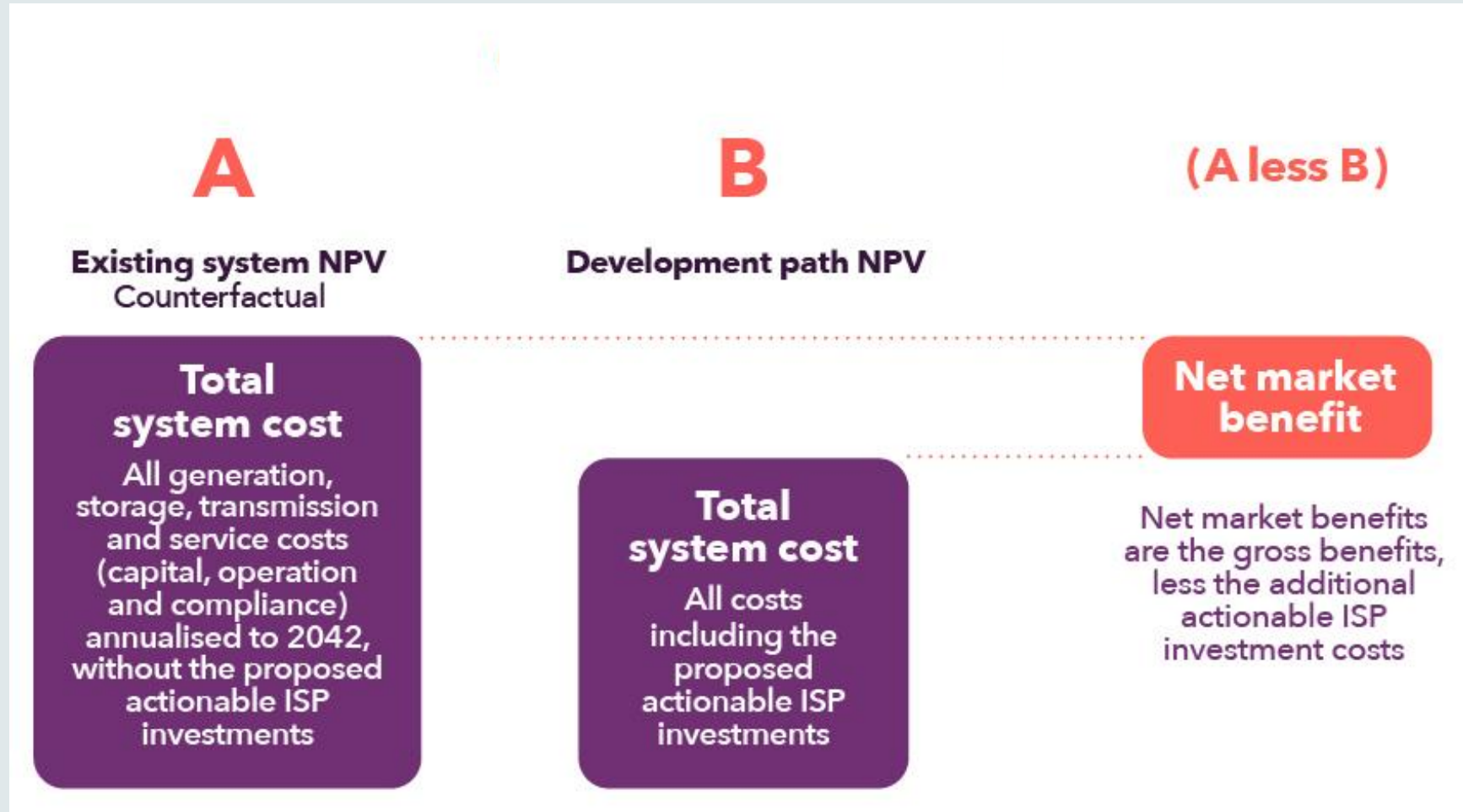
# Lets hear from AEMO

# The ISP needs to be sufficiently flexible to accommodate multiple possible future worlds:

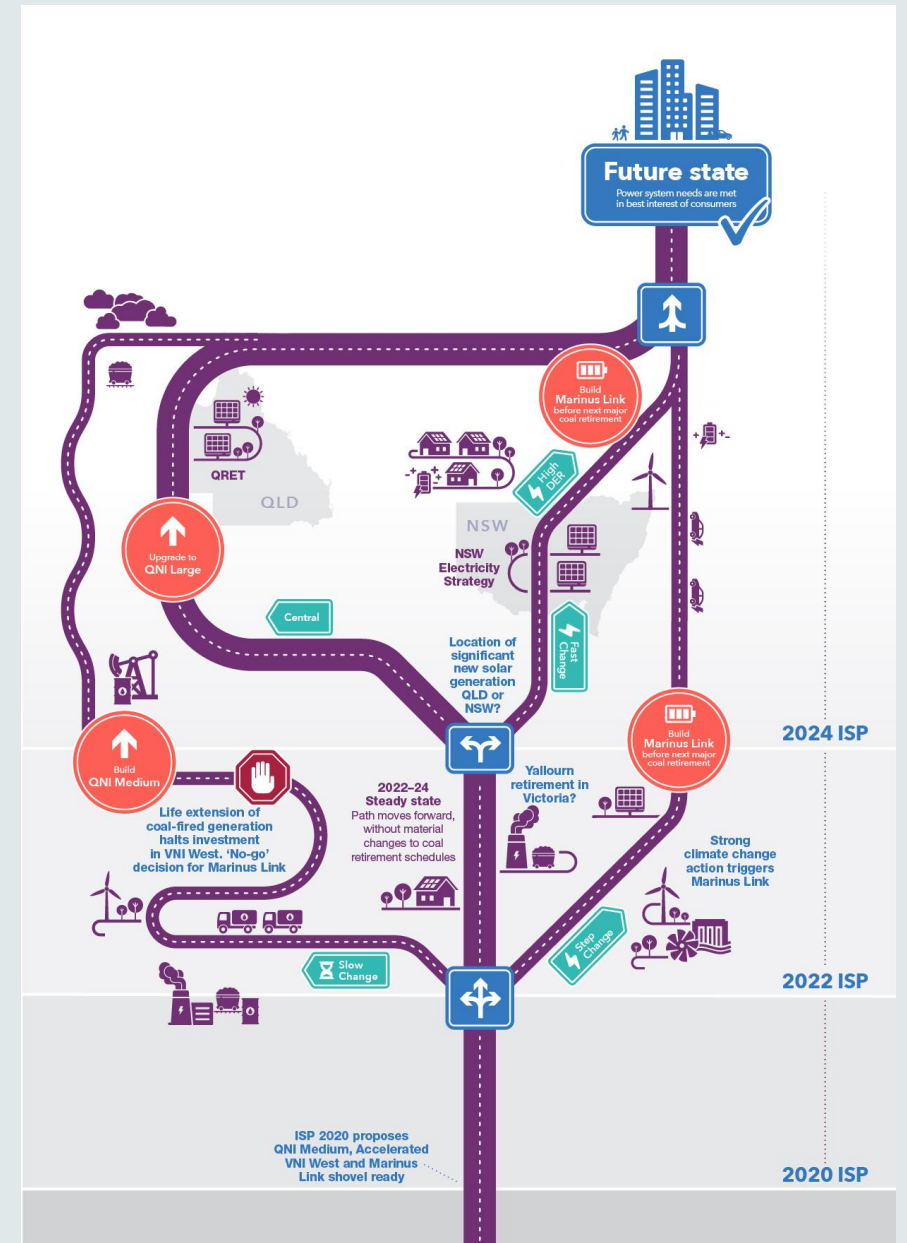


- Sensitivities:
  - No QRET
  - Delayed Snowy 2.0
  - Early closure of brown coal
  - Battery of the Nation
  - Early central west NSW generation development
  - Limited storage on mainland
  - Lower battery costs

..with the recommended actionable ISP being one that delivers positive net market benefits while retaining flexibility



...resulting in a dynamic roadmap that deals with uncertainty and takes a whole-of-system view





- Further validation of the plan through detailed hourly simulations
- Resilience to climate change – we will be including a chapter on this in the Final ISP
- Central West NSW REZ – other sensitivities with generation development in this zone
- Choice of route selection for VNI West
- In step change scenario, are we confident the system is operable in 2040?
- Cost increases on interconnectors or generators (capex generally)
- Projections of Marginal Loss Factors (MLFs)

# Prioritisation for final ISP



## At your table...

...you'll find a copy of the roadmap

- In your group, read over the roadmap and discuss your questions
  - Make sure you capture any questions or comments you might have on the sheet

# The roadmap

# Understanding the details



- Elijah Pack | Planning: Network and Non-network Options
- Andrew Turley | Decision Making and Least Worst Regrets
- Lars Narushevich | REZs and Renewable Integration
- Dane Winch | Energy Outlook: Forecasts, DER, Storage

# Our panel today



**aurecon**

## Around the room...

We have 5 stations

- You have 20 minutes at each station
- You have an opportunity to ask your questions to our AEMO reps
- If you can't ask your questions, capture them on post-its

Planning: Network and Non-Network Options

Decision Making and Least Worst Regrets

REZs and Renewable Integration

Energy Outlook: Forecasts, DER, Storage

Prioritisation

# Meet the modellers

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# Prioritisation for final ISP

# What we heard

What else...





## Back at your table...

Think about your discussion and questions from this morning.

- What have we answered?
- What still needs to be addressed?
- What haven't we discussed that AEMO could look at over the next 3 months

# What else...

# To help us going forward...

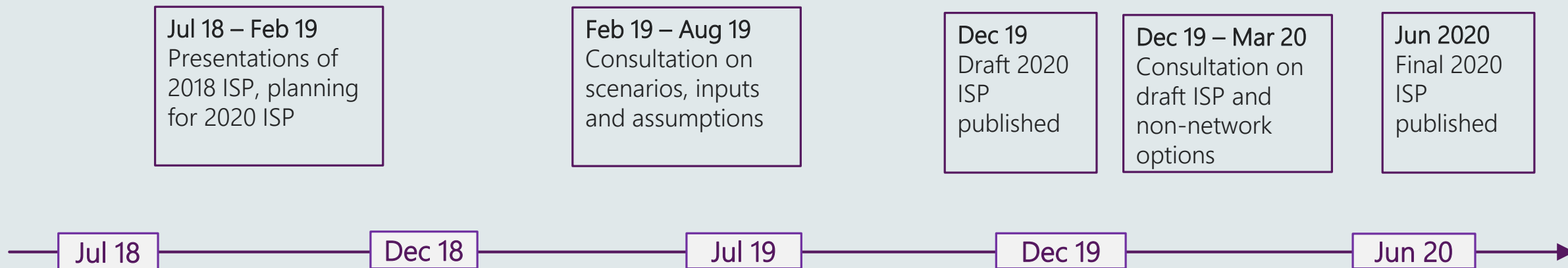
We'd like to get your thoughts on today's session

- Head here on your tablet or mobile device and leave us some feedback

Feedback

[bit.ly/38KoPb5](https://bit.ly/38KoPb5)





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Jul 19 – Nov 19  
Modelling for Draft 2020 ISP

Jan 20 – May 20  
Modelling for Final 2020 ISP

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Feedback - [bit.ly/38KoPb5](https://bit.ly/38KoPb5)



# Next steps



Thank you!