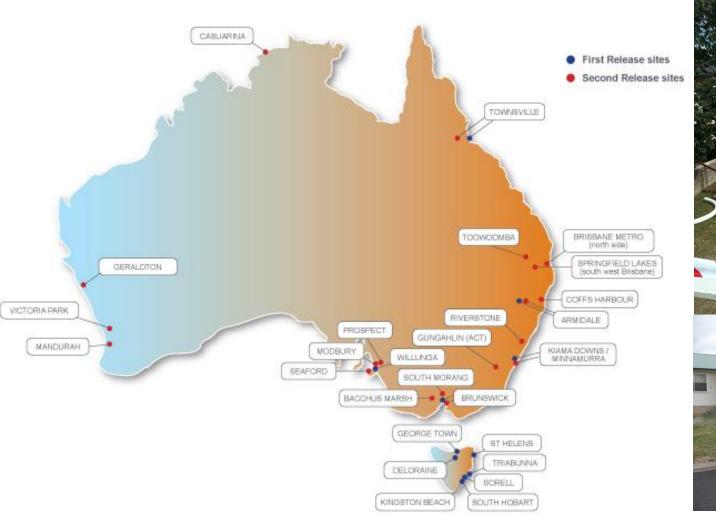
Broadband and Beyond 2011 Mike Quigley - NBN Co

Disclaimer

This document sets out NBN Co's proposals in respect of certain aspects of the National Broadband Network. The contents of this document represent NBN Co's current position on the subject matter of this document. The contents of this document should not be relied upon by our stakeholders (or any other person) as representing NBN Co's final position on the subject matter of this document, except where stated otherwise.

NBN Co's position on the subject matter of this document may also be impacted by legislative and regulatory developments in respect of the National Broadband Network. All prices shown in this document are exclusive of any GST.





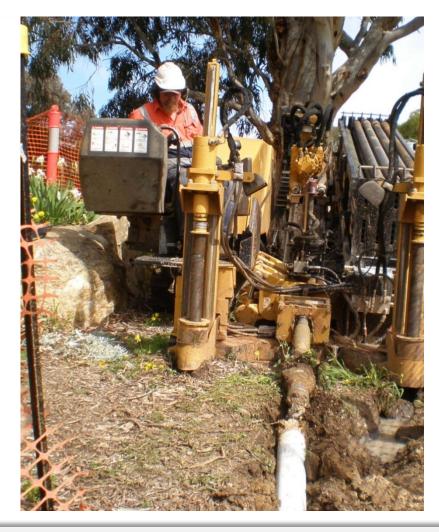




First release site - vviilunga South Australia



- Willunga is a rural town south of Adelaide in the City of Onkaparinga, South Australia
- It is 47 km from the Adelaide CBD
- 941 premises in first release site
- 64% of Willunga premises with internet connection





First release site - Brunswick Victoria

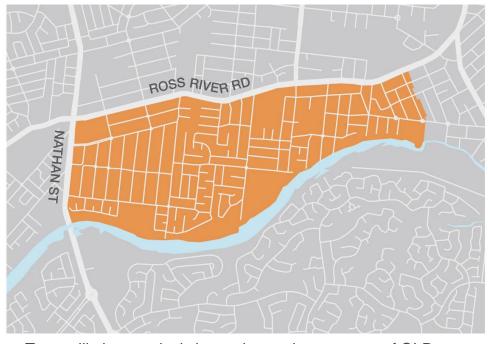


- · Brunswick is an urban suburb in the City of Moreland in Victoria
- It is 6 km from Melbourne's CBD
- · 2600 premises in first release site
- 55% of Brunswick premises with internet connection





First release site - Iownsville Queensiand



- · Townsville is a tropical city on the north east coast of QLD
- It is Australia's largest urban centre north of the Sunshine Coast
- 2500 premises in first release site
- 63% of Townsville premises with internet connection





First release site - Minnamurra & Kiama Downs NSW



- Minnamurra is a coastal suburb in the Illawarra region of NSW in the Municipality of Kiama
- It is within a 2 hour drive south of Sydney
- 2350 premises in first release site
- 68% of Kiama premises with internet connection



Source: ABS Census 2006 Zone Terminal Multiport



First release site - Armidale New South Wales



- Armidale is a regional town situated half way between Sydney and Brisbane and 2 hours from the coast
- 4800 premises in first release site including the University of New England connections
- 61% of Armidale premises with internet connection



Across all First Release Sites 90% complete passive build



Community and stakeholder engagement

Some of the things that we are doing...

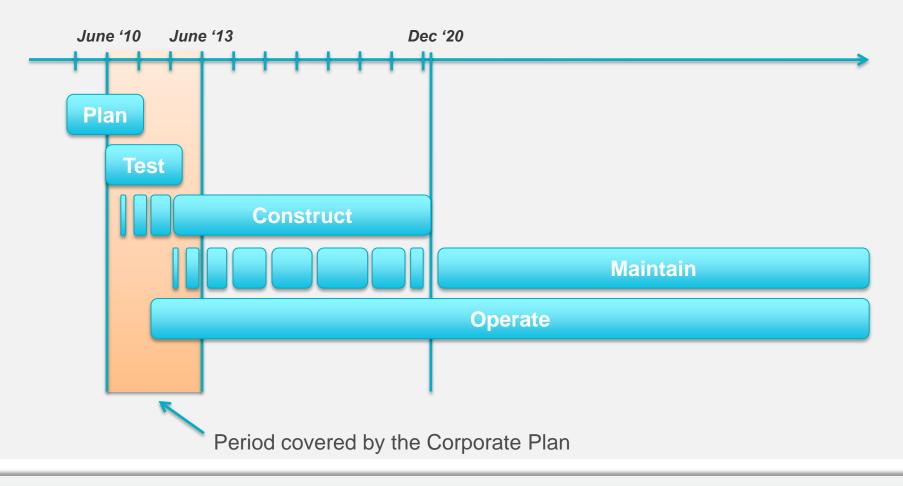
- Creating a safe workplace for all employees and suppliers
- Targeted community engagement throughout the construction of the new network
- Making sure that suppliers are engaged as partners and are a key component of our community engagement process
- Transparent engagement with all stakeholder levels

Community satisfaction is a key aim for construction roll-out



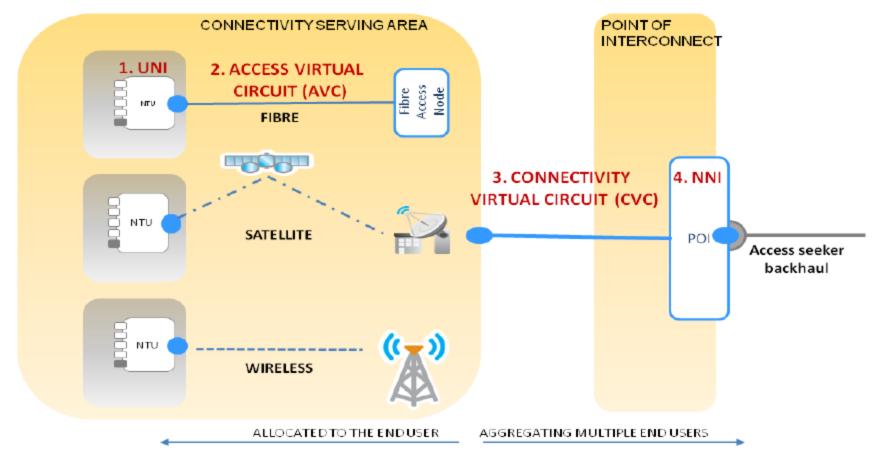
Building a wholesale telco

Long-Term Timeline





Fibre, satellite and wireless product construct

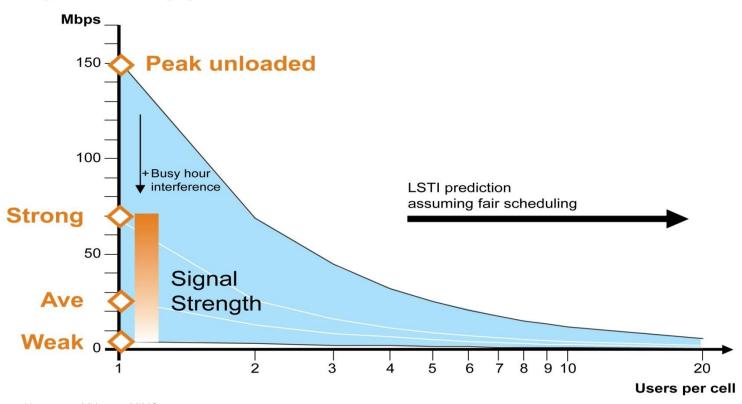


Source: NBN Co



Wireless – distance and contention effects





Notes: 2x20MHz, 2x2 MIMO

Source: LTE/SAE Trial Initiative (Oct 2009)



Mobile broadband and tixed broadband

- "If you take HSPA+ and you go out to West Texas and put two people in a cellsite you can get 20 meg. Take HSPA+ and put it in downtown Manhattan and you load a cellsite, even with fibre backhaul, probably the best you're going to get is two to three meg. LTE will be the same thing." Randall Stephenson, CEO AT&T
- "Could we wait eight years and not require high-speed fixed networks? The answer is no, because of the capacity issue." *Hugh Bradlow, CTO Telstra*
- "We're looking at compound annual growth of mobile data in the order of 95% for the next five years. If that's going to be effectively carried, and the service delivered and the customer experience maintained and enhanced, then we will need to be using fibre....When you look at the volume of data and the size of files and the use of video, you can't have that stuff floating around endlessly. We've got to get it efficiently onto a fixed network." Chris Althaus, Chief Executive, AMTA



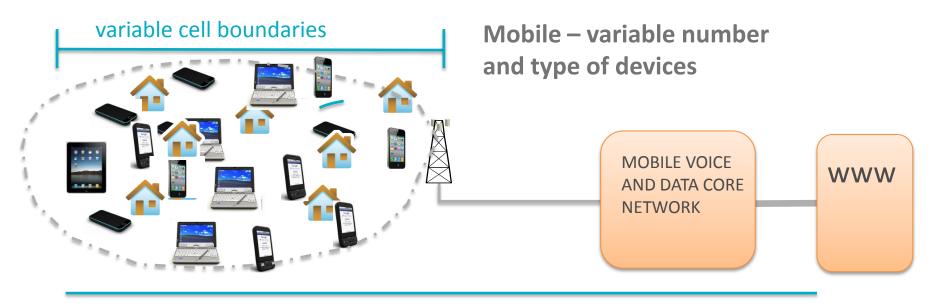


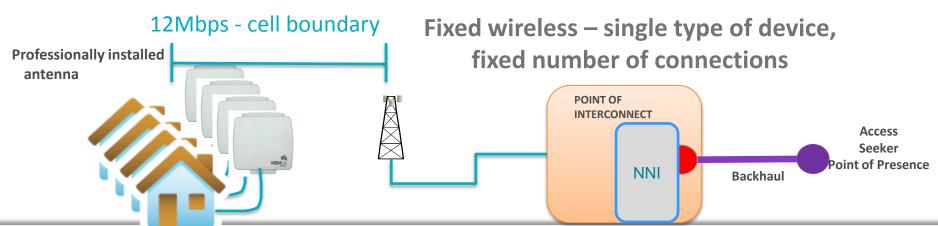
New wireless versus fixed network perspective

- Analysis Mason independent telecoms, tech and media consultants
- 75% wireless data in Europe downloaded "indoors" ie to home wireless/Wi-Fi network
- Smartphone's iPads able to switch from the mobile network to a home or other available Wi-Fi network.
- Helps keep user costs down
- Helps network providers by shifting traffic from shared, capacitylimited mobile networks to fixed networks.
- Analysis Mason believes this trend will continue and expects that customers will download almost 90 per cent of data "indoors" by 2015.



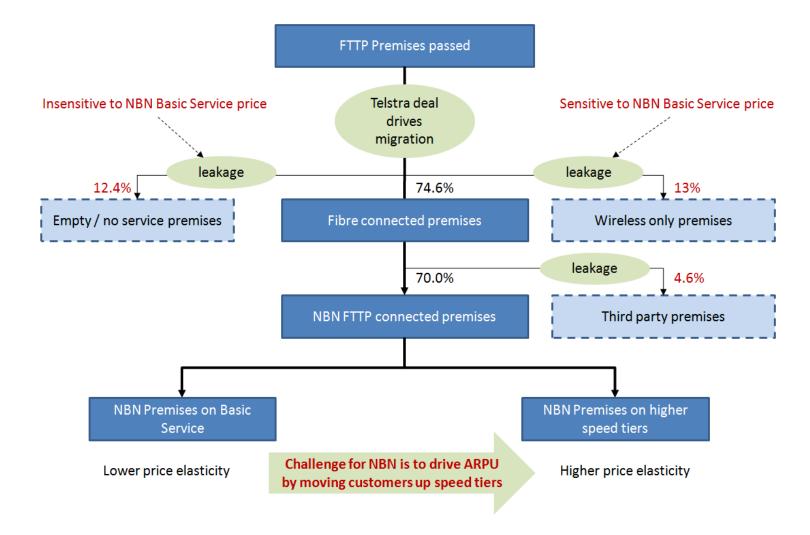
NBN Co is building a <u>rixed</u> wireless network







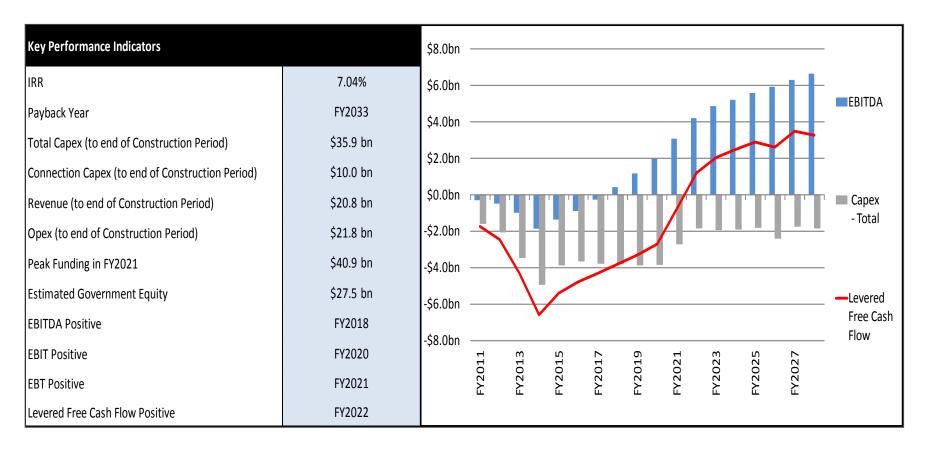
Revenue Assumptions - Passed vs Active End Users by 2025





Financials Summary

Key Financial Performance Indicators (Nominal Dollars)



Source: NBN Co Corporate Plan – business case assumptions



Wholesale access input cost

