# Corporate Plan

2014-17

11 November 2014



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## 1 Legal Notice

#### Introduction

This Corporate Plan has been prepared by NBN Co Limited (NBN Co or the Company) for its shareholder ministers, the Hon Malcolm Turnbull MP and Senator the Hon Mathias Cormann (Shareholder Ministers) as required by the *Commonwealth Authorities and Companies Act 1997* (Cth) (CAC Act), the *Commonwealth Authorities and Companies Regulations 1997* (Cth) (CAC Regulations), the Commonwealth Government Business Enterprise Governance and Oversight Guidelines (October 2011) (GBE Guidelines) and Australian Government policy as communicated to NBN Co by the Commonwealth from time to time (together, Reporting Obligations).

#### **Forecasts**

The Corporate Plan has been prepared for the consideration of the Shareholder Ministers only, and contains various long-range plans, projections, high level estimates and other forward looking information for FY2015 only (together, FY2015 Estimates). The FY2015 Estimates are based on NBN Co's best considered professional assessment of present economic and operating conditions, present Australian Government policy, and a number of assumptions regarding future events and actions which, at the date of this Corporate Plan, are expected to take place. The FY2015 Estimates involve known and unknown risks, uncertainties and other factors outside of NBN Co's control that may cause NBN Co's actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the FY2015 Estimates.

While the FY2015 Estimates are based on NBN Co's best considered professional assessment, NBN Co's officers (as defined in the Corporations Act) do not give any guarantee or assurance to any third party that the results, performance or achievements expressed or implied by the FY2015 Estimates will actually occur, and such FY2015 Estimates should not be relied on or considered to be a representation of what will happen by any third party.

NBN Co is not yet in a position to generate projections with a reasonable level of confidence for FY2016 and FY2017. In relation to these periods, NBN Co has used the December 2013 Strategic Review and the May 2014 Fixed Wireless and Satellite Strategic Review Scenario 6 - Multi-Technology Mix assumptions, pending further confirmation of the assumptions in that scenario (together, the **FY2016-FY2017 Assumptions**).

Other than as required by NBN Co's Reporting Obligations, NBN Co and its officers have no obligation to update the FY2015 Estimates or FY2016-FY2017 Assumptions based on circumstances, developments or events occurring after the publication date of this 2014-17 Corporate Plan (Corporate Plan).

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The Chief Strategy Officer NBN Co Limited Level 11, 100 Arthur Street North Sydney NSW 2060 Australia

#### Date

This Corporate Plan is dated 11 November 2014.

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### 2 About this Plan

NBN Co's Corporate Plan is an important tool to guide the organisation towards achieving the goals identified as being critical to its success in the context of a changing Strategic Direction and a new set of policies and objectives since the September 2013 Australian Federal election. In particular, the Corporate Plan details the approach NBN Co intends to take to implement a Multi-Technology Mix (MTM) NBN.

There has been a significant amount of change at NBN Co in the time between the approved 2012-15 Corporate Plan (August 2012)<sup>1</sup> and this Corporate Plan. This includes a new Government Statement of Expectations (**SoE**) (its most recent version was issued in April 2014),<sup>2</sup> the appointment of a new Chairman (Dr Ziggy Switkowski, effective October 2013), and the appointment of a new Chief Executive Officer and Managing Director (Bill Morrow, effective April 2014).

The December 2013 Strategic Review<sup>3</sup> and the May 2014 Fixed Wireless and Satellite Strategic Review<sup>4</sup> (described together as **Strategic Reviews**) identified and recommended a series of changes to the technology mix, deployment and operation of the NBN.

The implementation of the Strategic Reviews recommendations and the Government Statement of Expectations (including further guidance from the Shareholder Ministers) requires making assumptions about future outcomes that carry high levels of uncertainty at the time of publishing the 2014-17 Corporate Plan, including:<sup>5</sup>

- The recommendations, subsequent policy decisions, and industry reaction to the Vertigan Cost-Benefit Review and the Scales Public Policy Review.
- The outcomes from the renegotiation of the Telstra Definitive Agreements (Telstra DAs) and the Optus Agreement (Optus HFC Agreement), including commercial and operational access to the copper network (Copper Network) and the existing cable access networks (Hybrid Fibre Coaxial or HFC Cable Networks). It is anticipated that the execution of these revised agreements will be subject to a number of conditions precedent, including necessary regulatory approvals, which will be relevant to the timing of the rollout.
- The ability to quickly ramp up the level of deployment, serviceable premises and activations activities in the Fibre-to-the-Premises (FTTP) and Fixed Wireless footprints, with an expected significant increase in activations volumes during the course of FY2015, whilst proceeding to deploy the other MTM technologies at scale, and in particular Fibre-to-the-Node (FTTN) and HFC Cable Networks. This will be dependent on the outcomes from commercial negotiations with NBN Co's contractors (Delivery Partners) and suppliers, as well as the Delivery Partners significantly uplifting the industry's skilled labour workforce and productivity levels.
- The ability of NBN Co to rapidly deliver on the new Strategic Direction, including the challenge to its operations, staff / culture, IT systems, processes, planning tools and delivery models, so as to ensure an effective rollout of the Multi-Technology Mix approach. In order to achieve the Strategic Reviews envisaged timelines, NBN Co will have to continue undertaking a very large number of activities and make strategic decision points over the next 12 to 18 months, including:

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<sup>&</sup>lt;sup>1</sup> 2012-15 Corporate Plan – August 2012. http://www.nbnco.com.au/assets/documents/nbn-co-corporate-plan-6-aug-2012.pdf

<sup>&</sup>lt;sup>2</sup> Statement of Expectations (**April 2014 Statement of Expectations**) – April 2014.

 $http://www.communications.gov.au/\_\_data/assets/pdf\_file/0014/221162/SOE\_Shareholder\_Minister\_letter.pdf$ 

<sup>&</sup>lt;sup>3</sup> Strategic Review – December 2013. http://www.nbnco.com.au/content/dam/nbnco/documents/NBN-Co-Strategic-Review-Report.pdf

<sup>&</sup>lt;sup>4</sup> Fixed Wireless and Satellite Review – May 2014.

http://www.nbnco.com.au/content/dam/nbnco/documents/NBNCo\_Fixed\_Wireless\_and\_Satellite\_Review\_07052014.pdf

<sup>&</sup>lt;sup>5</sup> Refer Major Corporate Plan Assumptions at Section 9.2 below.

 Engage with the Government / produce new Corporate Plan / engage with stakeholders in relation to potential policy decisions and regulatory changes.

- Mobilise the transformation agenda / whole of business operating model.
- Implement the MTM construction delivery model, including ongoing operational improvements to the FTTP construction delivery model.
- o Implement multi-technology network architecture, planning approach and network design principles.
- Commence and / or continue discussions and renegotiations with Telstra and / or Optus, vendors, contractors (Delivery Partners) and Service Providers.
- Undertake a review of Fixed Wireless and Satellite. The Fixed Wireless and Satellite Review (completed in May 2014) considered a number of next steps, including pursuing multiple pathways to secure spectrum.
- Undertake MTM IT capability and network operations improvements.
- o Focus on people and organisation / Implement ongoing organisation and culture change.
- o Implement a revised governance approach.
- Engage and consult widely with stakeholders and regulatory authorities.

Given the above levels of uncertainty, the 2014-17 Corporate Plan,<sup>6</sup> which covers the period 1 July 2014 to 30 June 2017, should be viewed as a transition plan for NBN Co.

Further progress on the implementation of the new Strategic Direction will help inform NBN Co's operational targets and financial projections. Until then:

- The FY2015 estimates and financial projections represent NBN Co's best high-level estimate of the next 12 months (FY2015 Estimates).
- NBN Co is not in a position to generate forecasts with a reasonable level of confidence for FY2016 and FY2017. Therefore, any operational and financial data for FY2016 and FY2017 are long range assumed possible outcomes, not a forecast (or FY2016-FY2017 Assumptions). For the purpose of this Plan, the FY2016-FY2017 Assumptions uses the Strategic Reviews Scenario 6 Multi-Technology Mix assumptions, pending further confirmation of the assumptions in that scenario.

In accordance with the Reporting Obligations, this Corporate Plan intends to inform the Shareholder Ministers on:

- A summary of the policy and broadband environment in which the Company operates (see Sections 3 and 4 of this Corporate Plan).
- The objectives and business strategies of NBN Co, including its obligations to the community and stakeholders (see Sections 5, 6 and 7 of this Corporate Plan).
- A review of performance against the 2012-15 Corporate Plan (see Section 8 of this Corporate Plan).
- A set of financial estimates, projections and assumptions; including funding requirements (see Section 9 of this Corporate Plan).
- An analysis of factors or financial risks likely to affect achievement of these financial estimates, projections and assumptions, and NBN Co's strategies to manage these risks (see Section 10 of this Corporate Plan).

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<sup>&</sup>lt;sup>6</sup> This Corporate Plan covers NBN Co and its subsidiaries.

# 3 Policy Developments since the 2012-15 Corporate Plan

### 3.1 Summary Timeline

Exhibit 3-1: Recent events leading to the 2014-17 Corporate Plan

August 2012 NBN Co releases the 2012-15 Corporate Plan. 2012 September 2013 The Australian Federal Election is held on 7 September 2013. The Shareholder Ministers release the Interim Statement of Expectations. October to December 2013 The Strategic Review is commenced in October 2013 and is released in December 2013. The Minister for Communications releases the Interim Broadband Availability and Quality Report in December 2013. 2013 The Minister for Communications announces the terms of reference for the Cost Benefit Analysis and Review of Regulation in December 2013. February 2014: The Minister for Communications releases the full Broadband Availability and Quality Report. March to May 2014 The Fixed Wireless and Satellite Review is commenced in March 2014 and is released in 2014 The Government announces that Mr Bill Scales AO will conduct an independent audit of the NBN Public Policy Process in March 2014. The Shareholder Ministers release the Statement of Expectations in April 2014.

Source: NBN Co.

Prior to the 2013 Australian Federal Election, the Commonwealth Government's policy objectives for the NBN were detailed in the previous Statement of Expectations (**Previous SoE**) issued in December 2010.<sup>7</sup> In addition, the Previous SoE was supplemented by subsequent policy directives to NBN Co. The 2012-15 Corporate Plan released in August 2012 detailed NBN Co's strategy and progress in delivering the Previous SoE.

NBN Co's Shareholder Ministers issued NBN Co an Interim Statement of Expectations (Interim SoE) in September 2013. The Interim SoE outlined the Government's commitment to "transition the rollout of the NBN to a more cost effective approach along the lines set out in the Coalition's plan for Fast Broadband and an Affordable NBN".<sup>8</sup>

NBN Co operated in line with the Interim SoE in continuing to rollout the NBN, as well as completing the Strategic Reviews.

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<sup>&</sup>lt;sup>7</sup> Statement of Expectations (Previous SoE) – December 2010.

http://www.nbnco.com.au/assets/documents/statement-of-expectations.pdf

<sup>&</sup>lt;sup>8</sup> Statement of Expectations (Interim SoE) – September 2013.

http://www.communications.gov.au/\_\_data/assets/pdf\_file/0019/221158/Interim-SOE-24-Sept-2013.pdf

In line with the policy objectives of prioritising communities who do not have access to adequate broadband, the Department of Communications released a summary version of *The Broadband Availability and Quality Report* on 23 December 2013, followed by the full report on 20 February 2014.<sup>9</sup>

In addition, NBN Co's Shareholder Ministers announced two additional independent reviews in line with the Coalition's policy that will potentially impact NBN Co:

- The Vertigan Cost-Benefit Review, which Terms of Reference included analysing the economic and social costs and benefits arising from the availability of broadband of differing properties via various technologies, and making recommendations on the role of Government support and a number of other long-term industry matters. This review was announced on 12 December 2013. The first of the three reports, the Statutory Review, was released by Government on 16 July 2014;<sup>10</sup> the second report, the Independent Cost Benefit Analysis of Broadband, was released by Government on 27 August 2014;<sup>11</sup> and, the third report, the National Broadband Network Market and Regulation Report, was released by Government on 1 October 2014.<sup>12</sup> At the date of this Corporate Plan, the Government is continuing to examine these reports and their recommendations.
- The Scales Public Policy Review, which Terms of Reference included auditing the public policy process that led to the NBN and NBN Co's governance and making recommendations on what future actions should be taken by the Government when considering major projects such as the NBN. This review was announced on 7 March 2014 and the report was tabled in Parliament on 4 August 2014.<sup>13</sup>

### 3.2 The April 2014 Statement of Expectations

On 8 April 2014, NBN Co's Shareholder Ministers issued a new Statement of Expectations (**April 2014 Statement of Expectations**) to NBN Co which replaces the Previous SoE and Interim SoE.<sup>14</sup> The April 2014 Statement of Expectations outlines the Government's commitment to the NBN in delivering "very fast broadband as soon as possible, at affordable prices, and at least cost to taxpayers". To achieve this objective, the NBN should be built in a cost-effective way utilising the access technology (**Access Technology**) most appropriate in each area of Australia. That is, the April 2014 Statement of Expectations provides NBN Co:

"With flexibility and discretion in operational, technology and network design decisions, within the constraints of a public equity capital limit of \$29.5 billion specified in its funding agreement with the Commonwealth, and the Government's broadband policy objectives."

In addition, the April 2014 Statement of Expectations specifies that the NBN will operate as a wholesale-only access network available on equivalent terms to all Service Providers, operating in the lowest practical level in the network stack. The Government states its expectation that the completion of the NBN will result in the structural separation of Telstra, and a competitive market for retail broadband and telephony services.

The April 2014 Statement of Expectations reiterates NBN Co's transition goals to avoid service disruptions, minimise the impacts and uncertainty for contractors, and achieve the rollout objectives as cost effectively and seamlessly as possible.

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<sup>&</sup>lt;sup>9</sup> Broadband Availability and Quality Report – February 2014.

https://www.mybroadband.communications.gov.au/upload/documents/Final\_report.pdf

<sup>10</sup> http://www.communications.gov.au/broadband/national\_broadband\_network/cost-

benefit\_analysis\_and\_review\_of\_regulation/panel\_reports\_to\_government

<sup>11</sup> http://www.communications.gov.au/broadband/national\_broadband\_network/cost-

benefit\_analysis\_and\_review\_of\_regulation/independent\_cba\_of\_broadband

<sup>&</sup>lt;sup>12</sup> http://www.communications.gov.au/broadband/national\_broadband\_network/cost-

 $benefit\_analysis\_and\_review\_of\_regulation/nbn\_market\_and\_regulation\_report$ 

<sup>&</sup>lt;sup>13</sup> http://www.aph.gov.au/~/media/02%20Parliamentary%20Business/22%20Chamber%20Documents/223%20Tabled%20Papers/Documents%20Presented/Out%20of%20session/040814\_audit\_report

<sup>14</sup> Refer footnote 2 above.

The April 2014 Statement of Expectations specifies the Government's decision to transition the NBN from a primarily Fibre-To-The-Premises model to the Multi-Technology Mix model, having due regard to the following outstanding policy and commercial issues:

- NBN Co will determine which technologies are utilised on an area-by-area basis so as to minimise peak funding, optimise economic returns and enhance NBN Co's viability.
- The design of an MTM will be guided by the Government's policy objectives of providing download data rates (and proportionate upload rates) of at least 25 Megabits per second (Mbps) to all Premises and at least 50 Megabits per second to 90% of Fixed Line (FL) Premises as soon as possible.<sup>15</sup>
- NBN Co will ensure upgrade paths are available as required.
- NBN Co will prioritise areas identified as poorly served by the 'Broadband Availability and Quality Report' published by the Department of Communications in February 2014 (including any subsequent refinements arising from additional data) to the extent commercially and operationally feasible.
- NBN Co will ensure that the business rules it establishes to determine which technology is utilised in each locality are transparent to the community and periodically updated to reflect technological and commercial developments.
- As proposed by the Strategic Review, NBN Co will integrate existing HFC Cable Networks into the rollout where this is feasible and economically beneficial, and provide for wholesale-only, open access operation of these networks.
- NBN Co will trial Fibre-to-the-x (FTTx) network architectures to inform the Company's planning and decisions.
- NBN Co will take proportionate responsibility for the quality, consistency and continuity of service experienced by the Retail Service Providers and their End-Users.
- The Government expects NBN Co will contribute leadership and resources to the industry-wide challenge of migrating services to the NBN.
- NBN Co's Board and Management will monitor the capabilities required to implement a Multi-Technology Mix NBN, and ensure alignment between these capabilities and NBN Co's personnel.

The April 2014 Statement of Expectations also outlines the Government's expectations in terms of the high level of transparency in NBN Co's communication with the public and Parliament, including: weekly online reporting of network deployment and active services, monthly reports to Shareholder Ministers, quarterly financial and operational reports to Parliament, and quarterly management briefings to stakeholders and the media.

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<sup>&</sup>lt;sup>15</sup> NBN Co is designing the MTM part of the NBN to be capable of delivering these speeds to NBN Co's RSPs and WSPs via Fixed Line. Speeds actually achieved by End-Users will depend on a number of factors including the quality of their equipment and inpremises connection, the broadband plans offered by their Service Provider and how their Service Provider designs its network to cater for multiple End-Users.

### 4 Broadband Trends

### 4.1 Broadband Market

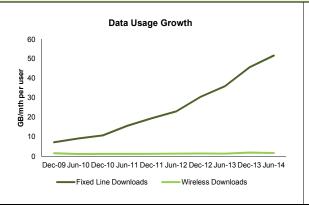
The Australian Fixed Line broadband market grew 6% to 6.2 million subscribers in the financial year to 30 June 2014. Fixed broadband penetration has reached an estimated 61% of occupied Premises in 2014 (2013: 58%). To the financial year to 30 June 2014. The fixed broadband penetration has reached an estimated 61% of occupied Premises in 2014 (2013: 58%).

The majority of Australians receive their Fixed Line broadband services through copper-based Asymmetric Digital Subscriber Line (**ADSL**) services, which accounted for approximately 82% of subscribers in June 2014. HFC Cable Networks accounted for a further 15%, with Fibre-based services accounting for about 3%. <sup>16</sup>

### 4.2 Data Usage and Bandwidth Demand

Exhibit 4-1: Data Usage Growth in Australia

#### **Data Usage Growth (Australia)**



- Average data usage per user in Australia for FL subscribers rose to 52 Gigabytes (GB) per month, which is an increase of 44% for the period between June 2013 and June 2014.
- Average data usage per user in Australia for wireless subscribers rose to 1.8 GB per month, which is an increase of 24% for the period between June 2013 and June 2014.
- In June 2014, Fixed Line networks carried an average of 29 times more data traffic per user per month than wireless networks in Australia, compared with 25 times more 12 months earlier.

Source: ABS 8153.0 - Internet Activity, Australia, December 2013 18

Broadband data usage continued to grow in 2013. Traffic volumes and demand for faster services continue to rise as content and services move online, and consumers become increasingly connected. Nielsen's annual Australian Connected Consumers report noted that in 2003, ~73% of Australians aged 16 and over spent an average of 6.7 hours per week online. The online population reached 82% in 2013, while the amount of time spent online increased to an average of 23.3 hours per week per person. In 2013, 38% of Australian households owned 4 or more connected devices. <sup>19</sup>

Across the broadband market (including wireless services), an estimated 17% of broadband customers had services capable of delivering speeds in excess of 24 Mbps, which is an increase of 2 basis points compared to June 2013. <sup>16</sup>

http://www.nielsen.com/us/en/newswire/2013/then-and-now-a-look-at-how-australias-connected-consumers-have-changed-.html

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 $<sup>^{16}\,\</sup>text{ABS 8153.0} - \text{Internet Activity} - \text{Australia, June 2014. http://www.abs.gov.au/ausstats/abs@.nsf/mf/8153.0/}$ 

<sup>&</sup>lt;sup>17</sup> NBN Co. - total Fixed Line broadband subscribers divided by number of occupied Premises (estimated to be approximately 10.2 million occupied Premises with a mix of Residential and Business).

<sup>&</sup>lt;sup>18</sup> Wireless broadband excluding handsets.

<sup>&</sup>lt;sup>19</sup> Nielsen's Australian Connected Consumers Report 2013.

# 5 NBN Co's Strategic Direction

The April 2014 Statement of Expectations provides NBN Co with the flexibility and discretion to make technology and network design decisions with an overall aim to constrain costs and accelerate the rollout of the NBN.

This is in line with the Strategic Reviews, which recommended delivering the Government's policy through the rollout of a 'network of networks' interconnecting Fibre to the Premises (FTTP), Fibre to the Node (FTTN), Hybrid Fibre Coaxial (HFC), Fibre to the Distribution Point (FTTdp), Fibre to the Basement (FTTB), as well as Satellite and Fixed Wireless Networks (described altogether as the Multi-Technology Mix or MTM).

Implementing the MTM has a number of organisational challenges including network planning and design, product development, IT systems and processes, procurement of new equipment and negotiating new commercial arrangements.

In order to meet these challenges, NBN Co has developed a new Strategic Direction that is progressively being embedded in the organisation.

Exhibit 5-1: NBN Co's Strategic Direction

#### Our Purpose To "Enable the digital economy and close the digital divide". High-speed broadband is transforming the economy and society, with major implications for households, business, governments and the environment. Universal availability and widespread use of high-speed broadband services will be fundamental to enable the digital economy, and in doing so contributes to a cohesive society. NBN Co's main function is to build and operate an NBN that is open-access, wholesale only, and that uses a mix of technologies that will ensure that all Australians have access to high-speed broadband, at affordable prices and at a cost that can be recovered over time, with the expectation that, over the long run, it will generate a return to the Australian tax payers. **Our Goals** All homes, businesses and communities across Australia can access high-speed (by 2020) broadband. Less than \$29.5 billion of government funding used efficiently. Over 8 million Premises connected. Generate over \$4 billion of annual revenue. Customers give NBN Co a Customer Engagement Metric (CEM) rating of at least 8 out of 10. NBN Co is the best place to work. We will achieve Build and operate a reliable, economical high speed network by leveraging these goals existing infrastructure. through our Promote growth of the digital economy with innovative products, affordable pricing strategic and reliable services. imperatives Foster robust and sustainable wholesale channels to market. (for the next 3-5 Develop and maintain collaborative and productive business partner relationships. years) Effectively engage with shareholders, regulators and industry. Organise, govern and operate safely, effectively and efficiently. Create a transparent and collaborative leadership culture that drives high performance.

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# Our values will be central to our success

- We are Safe, Disciplined and Reliable and meet our commitments.
- We engender Trust and Integrity and are known for this.
- We are Authentic, speak-up and involve both ourselves and others.
- We are Collaborative one team focused on outcomes.
- We are Flexible to fit our circumstances.

Source: NBN Co.

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### Implementing the Strategic Direction 6

#### 6.1 Multi-Technology Mix

The December 2013 Strategic Review considered a number of scenarios and recommended Scenario 6 -Multi-Technology Mix as the preferred option to achieve NBN Co's goals.

Scenario 6 (MTM) identified a potential technology mix with the objective to minimise peak funding, while delivering a 50 Mbps download data rate to a high proportion of the Fixed Line footprint (~90% by 2019). For the remaining ~10% of Premises not served with a 50 Mbps download data rate by 2019, it will be served with 25 Mbps download data rate.<sup>20</sup> The MTM scenario allocates technology in order to meet these criteria.

In addition, the May 2014 Fixed Wireless and Satellite Strategic Review outlined a deployment in the non-Fixed Line footprint that is based on the potential use of FTTN and seeks to optimise the mix of Fixed Wireless and Satellite technologies, such that the risk of congestion in oversubscribed beams is relieved, cost is minimised and the average product available is maximised to all potential End-Users.

Exhibit 6-1: Strategic Reviews - Scenario 6 (MTM) Indicative Rollout

Scenario 6 - Multi-Technology Mix Lots / Premises Passed / Covered (Indicative Only)  Cumulative Premises (millions)				
Technology	End of Rollout	End of Rollout - % of Total		
FTTP	3.1	25%		
FTTN	3.6	29%		
FTTdp/B	1.4	11%		
HFC	3.3	27%		
FTTN (remote footprint)	<0.1	<0.1%		
Fixed Wireless	0.6	5%		
Satellite (LTSS)	0.4	3%		
Total Australia	12.4	100%		

Source: Strategic Reviews Scenario 6 (MTM) which includes the Fixed Wireless and Satellite Review - May 2014.

#### Important Notice

It should be noted that Scenario 6 (MTM) is not intended to represent the outcome of NBN Co's detailed MTM integrated planning. Scenario 6 (MTM) seeks to illustrate a scenario of what these outcomes might be, based on a set of assumptions as detailed in the Strategic Reviews.<sup>21</sup>

NBN Co will undertake further planning during the course of FY2015 to inform the mix of technologies covering the period of this Corporate Plan. This baseline will be periodically reviewed and learnings integrated as more information becomes available.

It should also be noted that the mix of technologies deployed under the MTM will likely be influenced by a range of factors, including the outcomes of the current negotiations with Telstra and Optus with regards to the Copper and HFC Cable Networks, industry and regulatory outcomes, the condition of the Copper and HFC Cable Networks, construction resources and NBN Co's capabilities.

Given the complexity associated with projects of the size and scale of the NBN, and the stage of progress in the project to date, it is possible that the technology mix will be different as the project progresses.

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<sup>&</sup>lt;sup>20</sup> Refer footnote 15 above.

<sup>&</sup>lt;sup>21</sup> For December 2013 Strategic Review, refer footnote 3 above.

### 6.2 Next Steps in Implementing the MTM

NBN Co has commenced a number of next steps, and will need to undertake major activities, transformation and decision points in the next 12 to 18 months in implementing the MTM, including:

- Engage with the Government / produce new Corporate Plan / engage with stakeholders in relation to potential policy decisions and regulatory changes.
- Mobilise the transformation agenda / whole of business operating model.
- Implement the MTM construction delivery model, including ongoing operational improvements to the FTTP construction delivery model.
- Implement multi-technology network architecture, planning approach and network design principles.
- Commence and / or continue discussions and renegotiations with Telstra and / or Optus, vendors, contractors (Delivery Partners) and Service Providers.
- Undertake a review of Fixed Wireless and Satellite. The Fixed Wireless and Satellite Review (completed in May 2014) considered a number of next steps, including pursuing multiple pathways to secure spectrum.
- Undertake MTM IT capability and network operations improvements.
- Focus on people and organisation / Implement ongoing organisation and culture change.
- Implement a revised governance approach.
- Engage and consult widely with stakeholders and regulatory authorities.

All of these next steps, activities, and decision points have significant dependencies. Most of these are a combination of activities and decisions from NBN Co but they are also highly dependent on processes, consultations, negotiations, and external approvals external to NBN Co. All of these, due to their strategic and operational importance, will be highly influential to achieving the MTM objectives and timelines as envisaged in Scenario 6 of the Strategic Reviews.

The Government announced the *Vertigan Cost-Benefit Review* on 12 December 2013. The *Terms of Reference* of this review includes a requirement of recommendations on the way NBN Co's activities should be constrained given its mandate to efficiently build, operate and maintain a wholesale-only access network. In particular, "this should include consideration of the issues associated with infrastructure based competition and the economic benefit of alternatives; [and] recommendations should be made on the structure of the Australian wholesale broadband market, including regulatory arrangements."<sup>22</sup>

The Government's policy decisions from the recommendations of the review may impact the announced plans of market participants in rolling out alternative broadband infrastructure, such as FTTB infrastructure to Multi-Dwelling Units.

NBN Co has engaged proactively with the review process, including making a number of submissions. <sup>23</sup> NBN Co's objective is to ensure that Government decisions in relation to the review's recommendations are made on an appropriately informed basis as to the implications of those recommendations for NBN Co's ability to implement the April 2014 Statement of Expectations.

http://www.communications.gov.au/\_\_data/assets/pdf\_file/0010/224110/NBN\_Co\_Submission\_combined.pdf

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<sup>&</sup>lt;sup>22</sup> Independent Cost-Benefit Analysis and Review of Regulation Terms of Reference.

http://www.communications.gov.au/\_\_data/assets/pdf\_file/0019/207046/NBN\_Panel\_of\_Experts\_-\_Terms\_of\_Reference.pdf

<sup>&</sup>lt;sup>23</sup> Independent Cost-Benefit Analysis and Review of Regulation, Supplementary submission of NBN Co to Expert Panel in response to the Regulatory Issues Framing Paper issued 13 February 2014.

http://www.communications.gov.au/\_\_data/assets/pdf\_file/0011/224201/NBN\_Co\_-\_Supplementary\_Submission.pdf Independent Cost-Benefit Analysis and Review of Regulation, Submission of NBN Co to Expert Panel in response to the Consultative Paper for the Purposes of Section 152EOA of the Competition and Consumer Act 2010.

### 6.3 Transformation Initiatives

NBN Co's Strategic Direction identified the major initiatives that need to be delivered in the next 12-18 months to drive forward NBN Co's strategic imperatives. NBN Co has established a number of governance bodies to focus and deliver on these initiatives.

Initially, the Company reviewed all major projects to assess their alignment with the new Strategic Direction and to map the existing set of functional relationships and governance structures. Based on this work and in collaboration with NBN Co's functional areas, a high level Transformation Roadmap was developed. This roadmap included the definition and implementation of a governance and decision-making structure to guide future work on transformation. Subsequently, the major initiatives needed to drive the transformation agenda have been developed and are listed below:

- Build a Great Place to Work.
- Process Performance.
- Negotiate and Secure the Telstra Deal.
- Negotiate and Secure the Optus Deal.
- Optimise our Operating Expenses.
- Implement Multi-Technology Mix Planning.
- Implement Recommendations for Long Term Satellite Services (LTSS) Deployment.
- Deliver on the Service Forecast Commitments to NBN Co's Customers.
- Strategic Contracting Model (Industry Management).
- Service Class Matters.
- Business Model.

The above initiatives are being tracked through milestones and regular updates within the Company's new governance structure. Significant progress is expected to be made over the next 12-18 months; some of the initiatives are dependent on outcomes of commercial negotiations and / or external dependencies, which are detailed in Section 9.2, *Major Corporate Plan Assumptions*, below.

### 6.4 Implementing the MTM Access Technologies

Beginning in FY2015, NBN Co is considering the best way to implement the design of an MTM guided by the Government's policy objectives of providing download data rates (and proportionate upload rates) of at least 25 Mbps to all Premises and at least 50 Mbps to 90% of Fixed Lined Premises as soon as possible. NBN Co will determine which technologies are utilised on an area-by-area basis with an objective to rollout at scale in the shortest timeframe possible, minimise peak funding and optimise economic returns.

Subject to the Corporate Plan assumptions detailed in Section 9.2, *Major Corporate Plan Assumptions*, NBN Co expects to deliver on the April 2014 Statement of Expectations requirements in FY2015 by:

- Conducting all the activities necessary to stabilise the FTTP and Fixed Wireless rollouts, including the ramp in connections and activations in the context of upcoming Disconnection Dates. These activities will continue to absorb significant management attention, require major Delivery Partner engagement, and it will remain a major challenge to ramp up construction, connections and activations as per the FY2015 Estimates.
- Conducting trials and build pilots for FTTN, FTTB and HFC Cable Networks.

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<sup>&</sup>lt;sup>24</sup> Refer footnote 15 above.

- Implementing the MTM product and pricing reviews.
- Preparing for rolling out the MTM NBN at scale. This represents a major construction delivery and migration / cutover challenge that will require significant Delivery Partner engagement and is dependent on the implementation of a number of prerequisites (such as network architecture, integrated planning, operational delivery model, and IT systems).

In addition, NBN Co will focus on the following objectives in order to meet the April 2014 Statement of Expectations requirements:

- Prioritise areas identified as poorly served by the Broadband Availability and Quality Report<sup>25</sup> to the extent commercially and operationally feasible.
- Ensure the business rules established to determine which technology is utilised in each locality are transparent to the community, and periodically updated to reflect technological and commercial developments.
- Anticipating integration of existing HFC Cable Networks into the rollout where this is feasible and economically beneficial, and provide for wholesale-only, open access operation of these.
- Take proportionate responsibility for the quality, consistency and continuity of service experienced by the Retail Service Providers and their End-Users.
- Seek to meet Government expectations that NBN Co will contribute leadership and resources to the industry-wide challenge of migrating services to the NBN.
- Monitor the capabilities required to implement the MTM and ensure alignment between these and the Company's personnel.

### 6.4.1 FTTP and Fixed Wireless Rollouts in FY2015

For the FTTP rollout, NBN Co plans to continue the progressive ramp up in construction activities. One major area of focus will be to significantly increase the serviceability levels of Premises in the existing FTTP footprint as well as for the release of new FTTP footprint. This strategic imperative is further detailed in Section 8.7.4, Serviceability Improvement Programme for FTTP Access Network (Brownfields Premises).

In addition, starting in FY2015 and on a continuing basis, NBN Co plans to continue to make changes to the construction delivery model, including continued simplification and standardisation of the deployment process with clear design rules, standardised specifications and processes, an industry-standard design environment and a relevant construction methodology and operating manual for contractors on the ground.

NBN Co is currently working through the potential implementation of redesigned FTTP model as outlined in the Strategic Reviews. Currently, the main potential elements of the redesign are:

- Architecture and materials including reducing the number of allocated fibres per Premises, increased use of aerial deployment, removal of Passive Optical Network (PON) protection, using smaller diameter fibre cables, use of gel-free cables and optional battery back-up for the Network Termination Device (NTD) where the End-User must provide their informed consent in order to opt-out.
- Construction techniques including equipment for testing duct congestion, aerial extension methods and alternative customer drop implementation techniques optimising fibre testing at multiport and usage of direct bury cable.

In terms of the Fixed Wireless deployment, the focus in FY2015 is intended to progress the Fixed Wireless build program to realise cost reductions, and to pursue multiple pathways to secure spectrum for outer metro areas.

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<sup>&</sup>lt;sup>25</sup> For February 2014 Broadband Availability and Quality Report, refer footnote 9 above.

#### 6.4.2 The FTTN Pilot

NBN Co is employing a two phased approach to piloting FTTN as part of implementing the MTM. The focus of the pilots is to develop the necessary capability and competency to transition to an FTTN rollout at scale. Phase one of the pilot consists of an FTTN build component and a product development component to develop the systems, processes and capabilities for a scale rollout. In March 2014, NBN Co completed the first fully powered node in a Copper Service Area Modules (**CSAM**) in Umina on NSW's Central Coast, which was integrated into the NBN in April 2014. At present there are 11 nodes that are active as part of the Phase one trial, with a final aim of 20 nodes and the use of spare copper pairs connecting End-User Premises. The first in-Premises test (un-vectored) delivered a raw download speed of 105 Mbps and a raw upload speed of 45 Mbps.<sup>26</sup>

The second component (under phase one) is aimed at product development. It involves NBN Co inviting Service Providers to participate in the development of the NBN Co FTTN wholesale product. In parallel with the pilot program, NBN Co has released The FTTN/B Initial Product Consultation Paper on 4 April 2014 to solicit feedback regarding the proposed constructs via the members of the Product Development Forum.

Phase two is aimed at constructing approximately 1,000 FTTN nodes to develop robust and scalable construction methods and procedures to further refine the delivery model for mass rollout.

Following completion of Phase two, it is anticipated that End-User connections and activations will take place during the course of CY2015.

#### 6.4.3 The FTTB Pilot

The objective of the FTTB Pilot will be to develop a technologically and commercially sustainable service for Multi-Dwelling Units (**MDUs**), predominantly in the FTTN footprint.

FTTB involves deploying fibre to MDUs connected to the NBN, using Very-High-Bit-Rate Digital Subscriber Line (**VDSL**) technology in the basement (or communications room) to provide high-speed broadband. The existing in-building wiring is used as the final connection to the End-User Premises from the equipment in the MDU basement.

NBN Co commenced the FTTB Pilot in January 2014 and is currently working with three Service Providers (Telstra, iiNet, and M2) to trial pilot services in Carlton, Parkville and Brunswick in Victoria. The aim is to pilot services in residential MDUs and commercial Premises where NBN Co Digital Subscriber Line Access Multiplexer (**DSLAMs**) are deployed in buildings. The FTTB Pilot will include approximately 50 End-Users with a focus on residential End-Users (although the aim is to connect some small businesses if possible) that have no critical or special services (e.g. personal medical alarms, EFTPOS, lifts or fire panels).

As part of the FTTB Pilot, NBN Co is making a range of wholesale speed tiers available to Retail Service Providers: 12/1, 25/5, 25/10, up to 50/20 and up to 100/40 Mbps.<sup>27</sup> The actual speeds achieved by End-Users will depend on a number of factors including the quality of in-building and copper cabling and will be tracked as part of the pilot to help refine product offerings.

#### 6.4.4 Prioritisation of Underserved Areas

The April 2014 Statement of Expectations directs NBN Co to "prioritise areas identified as poorly served by the "Broadband Availability and Quality Report" published by the Department of Communications in February 2014 [...] to the extent commercially, and operationally feasible."

The Department of Communications' report presents the analysis of broadband quality and availability in all areas of Australia. Department of Communications' analysis found that there are approximately 1.6 million

<sup>27</sup> Refer footnote 15 above.

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<sup>&</sup>lt;sup>26</sup> Technology trial conducted in Umina, near Woy Woy, NSW – node cabinet approximately 100 metres from connected shopfront.

Premises in areas which can be categorised as not having access to adequate broadband services - NBN Co may designate these areas as underserved. The Premises in this category are mostly located in regional or remote areas of Australia, or in small pockets of poor service in metropolitan and outer metropolitan areas.

In accordance with the April 2014 Statement of Expectations, NBN Co's rollout of the MTM will prioritise underserved areas to the extent commercially and operationally feasible. It is estimated that, overall, the FTTP construction planned to commence in FY2015 will pass more than the proportionate amount of underserved Premises in these areas.

### 6.4.5 NBN Co's Rollout to High Value End-Users

The Government's policy decisions from the recommendations of the *Vertigan Cost-Benefit Review* may impact the announced plans of market participants in rolling out FTTB infrastructure to Multi-Dwelling Units.

NBN Co has announced its intention to serve high-value End-Users in inner city apartments and office buildings by bringing forward the rollout of the NBN in these areas, to the extent commercially and operationally feasible.

NBN Co's accelerated rollout in these areas is intended to attract high value End-Users who will also benefit from the competitive market the NBN enables when they purchase broadband, telephone or other services from the Service Provider of their choice. NBN Co is in the process of planning the rollout of the NBN for these areas.

### 6.4.6 Further Policy Decisions under Consideration

NBN Co will continue to work closely with the Government and the Shareholder Minister Departments with regards to the implementation of the Multi-Technology Mix NBN. NBN Co will implement the Multi-Technology Mix NBN in light of the April 2014 Statement of Expectations and subsequent Shareholder Ministers' correspondence and instructions.

A number of policy issues were already identified by the Shareholder Ministers in the April 2014 Statement of Expectations and further correspondence from the Shareholder Ministers; these include:

- Pricing and implications for take up.
- Rollout scheduling and prioritisation of poorly served areas.
- Qualification, financing, installation and maintenance of customer premises equipment.
- Battery backup.
- Delivery of voice services.
- Customer migration and decommissioning of infrastructure.
- Migration of services.
- Future upgrade paths.
- Opportunities for co-funded network investment in the NBN.

The timeline to assess how these policy issues will influence the cost, delivery and performance of a Multi-Technology Mix NBN will be developed in close cooperation with NBN Co's Shareholder Minister Departments and will factor in NBN Co's operational priorities to achieve the Strategic Direction and the other activities undertaken by NBN Co to implement the MTM.

NBN Co will continue to engage with its Shareholder Ministers, regulators, major stakeholders, and the industry, in relation to these issues. Outcomes will be factored into future Corporate Plans.

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### 6.5 Products Roadmap

As part of the MTM approach, NBN Co will build, deploy and operate products across multiple technologies, which now also include FTTN, FTTB and HFC Access Technologies. NBN Co is in the process of developing these new FTTN/B and HFC-based products in consultation with industry. In April 2014, NBN Co released a FTTN/B product industry consultation paper, which proposed a product construct and sought feedback on issues such as speed tiers, voice services, migration models and in home equipment. A similar paper will be circulated to the industry on HFC in the third quarter of CY2014.

NBN Co releases a quarterly 'Integrated Product Roadmap'<sup>28</sup> to inform providers of when future products and features are scheduled to be launched. The roadmap expands on NBN Co's Initial Roadmap, and sets out the scope and targeted timelines in relation to NBN Co's currently planned products, product components and product feature releases. The aim of the Integrated Product Roadmap is to provide a co-ordinated view of customer experience, IT enhancements and on-boarding developments with the details of the product feature releases.

During FY2015, NBN Co plans to release and on-board customers for the following developments and features:

- 1) MTM Trials and Product Launches: Pilots / Trials of the FTTN/B and HFC product variants, as well as the initial releases of these products. The exact launch timings for the FTTN/B and HFC products are still being decided and will be presented to the industry as soon as possible. The launch timings will be dependent upon concluding negotiations with a number of third parties and executing a number of agreements.
- 2) Long-Term Satellite Product Launch: The Satellite programme, which consists of several elements; the augmentation of capacity of the Interim Satellite Service (ISS); a proposed new subsidy scheme for new End-Users prior to the launch of the Long-Term Satellite offering; and the completion of the Long Term Satellite Service product build.
- **3)** Additional Product Features: CY2015 will also see NBN Co's optional battery backup feature becoming mandatory on the FTTP platform (from 1 October 2014), the development of an automated process for FTTP transfers between customers to assist the retail churn process, as well as additional product improvements around reporting, Connectivity Virtual Circuit (**CVC**) speed tiers and features on the UNI-V.
- **4)** *Cell Site Access Service*: NBN Co is also currently conducting a trial where the FTTP network is being used to connect the cell-sites of existing mobile network providers. This trial is being used to inform a future 'Cell Site Access Service' product variant. The trial is seeking to understand what modifications will need to be made to the existing FTTP offering to cater to the needs of mobile networks.
- **5)** *Pricing Review*: NBN Co has commenced a detailed pricing review on the existing products of Access Virtual Circuit (**AVC**) and CVC construct. The review is focused on seeking to maintain a consistent pricing construct across the different MTM Fixed Line technologies. In addition, the Fixed Wireless and Satellite Review made recommendations on the product and pricing constructs of these Access Technologies. NBN Co will be considering the best ways to implement those recommendations in early FY2015.

For each product release and pricing review, NBN Co conducts consultation with customers, prospective customers and relevant consumer advocacy groups via the Product Development Forum. The Product Development Forum will be used to inform product requirements and understand provider and End-User needs.

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NBN Co Integrated Product Roadmap – July 2014. http://www.nbnco.com.au/content/dam/nbnco/documents/Integrated-Product-Roadmap.pdf

### 7 Business Overview

### 7.1 NBN Co's Organisation

### 7.1.1 NBN Co Board and Leadership

Major changes have taken place to the composition of NBN Co's Board and the Executive team. This process began with the appointment of Dr Ziggy Switkowski as Executive Chairman<sup>29</sup> in October 2013 with NBN Co's founding Chief Executive Officer and Executive Director Mike Quigley leaving NBN Co following a transition period.<sup>30</sup>

Bill Morrow was appointed Chief Executive Officer of NBN Co in December 2013 and Managing Director in March 2014. Both appointments took effect on 2 April 2014. Following Bill Morrow taking up his role as CEO, Dr Switkowski's role as Executive Chairman reverted to that of Non-Executive Chairman.

Following the resignation and the departure of a number of Board members, three new non-Executive directors were appointed by the Shareholder Ministers on 11 November 2013. The NBN Co Board of Directors and Executive team are detailed below.

Exhibit 7-1: NBN Co Board of Directors and Executive Team

Board of Directors	Executive Committee		
■ Dr Ziggy Switkowski – Non-Executive Chairman	Bill Morrow – Chief Executive Officer		
<ul> <li>Patrick Flannigan – Non-Executive Director</li> </ul>	Greg Adcock – Chief Operating Officer		
<ul> <li>Simon Hackett – Non-Executive Director</li> </ul>	Justin Forsell – Chief Legal Counsel		
<ul> <li>Alison Lansley – Non-Executive Director</li> </ul>	JB Rousselot – Chief Strategy Officer		
<ul> <li>Justin Milne – Non-Executive Director</li> </ul>	Stephen Rue – Chief Financial Officer		
<ul> <li>Bill Morrow – Chief Executive Officer and</li> </ul>	John Simon – Chief Customer Officer		
Managing Director	■ Bradley Whitcomb – Chief Culture & Business		
<ul> <li>Dr Kerry Schott – Non-Executive Director</li> </ul>	Transformation Officer		

Source: NBN Co.

### 7.1.2 Market, Sales and Service Organisation

NBN Co has emphasised and aligned the customer facing teams to ensure focus and delivery on the customer commitments within the market, sales and service organisation. The new organisation includes Product Lifecycle Management, Marketing, Online, Sales and Service Management (which includes Service Activations, Migrations and Disconnection). Combining these teams into one customer-centric department will enable a stronger customer and community experience. Primary accountabilities for the CCO include:

- Delivering improved end-to-end processes to ensure smooth End-User connection, migration and legacy network disconnection.
- Developing and implementing a comprehensive community engagement and information plan to deliver the required NBN awareness and confidence levels within the community.

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<sup>&</sup>lt;sup>29</sup> Dr Ziggy Switkowski was Executive Chairman from October 2013 to April 2014, when the appointment of CEO Bill Morrow became effective. Since April 2014, Dr Ziggy Switkowski is Non-Executive Chairman.

<sup>&</sup>lt;sup>30</sup> In July 2013, Mr Quigley announced his intention to retire and to continue to serve as CEO until the Board appointed a successor to oversee the next stage of the company's development.

 Delivering the products and services across the MTM technologies according to the industry roadmap agreed with NBN Co's customers and representative industry bodies.

 Developing and implementing a holistic service and operation program that will enable NBN Co to achieve a Customer Engagement Metric of 8 and above.

### 7.1.3 Network and IT Organisational Review

A review of the network and IT functions was initiated in the first quarter of CY2014 and provided recommendations about organisational changes. It covered all aspects of the function's operating model, organisational structure, internal capability and interaction with internal and external stakeholders, including Delivery Partners.

The new network operating model is designed to deliver:

- An integrated end-to-end delivery model with standardised work practices, processes and increased automation to ensure efficient and effective delivery.
- Clear accountabilities, decision rights and core capabilities necessary to ensure effective delivery at all levels.
- Flexibility to scale deployment as required and new technologies over time.
- An integrated end-to-end plan with appropriate metrics to manage performance.

The first step of the implementation was to appoint the leadership team under the new network and IT structure. The focus over the next few months is to ensure that the new functions are integrated into the organisation, the full organisational structure is finalised, and to start to operationalise major elements of the delivery model.

### 7.2 NBN Co's Organisation

### 7.2.1 Governance

The Board of Directors has ultimate responsibility for the performance of NBN Co and is accountable to the Shareholder Ministers. The Board currently comprises six Non-Executive Directors and one Managing Director appointed to provide a mix of skills and experience essential to guide NBN Co to successful delivery of the NBN.

### 7.2.2 People and Policies

As at end of June 2014, NBN Co had a headcount of 2,932 employees<sup>31</sup> (consisting of 2,875 employees, 8 contractors and 49 labour hires), which is an increase of 114 employees compared to FY2013. NBN Co employs people in all states and territories of Australia. Permanent office locations include Sydney, Melbourne, Hobart, Canberra, Brisbane, Townsville, Adelaide, Perth and Darwin.

NBN Co's major human resource challenge has been to manage the rapid growth in the workforce required to meet NBN Co's needs. NBN Co has developed a suite of integrated policies, processes and systems to support its staff and works closely with its employees and their representatives.

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<sup>&</sup>lt;sup>31</sup> This is equivalent to approx. 2,918 Full Time Employees as at 30 June 2014.

NBN Co has developed a diversity framework encompassing NBN Co's commitment to support all employees, regardless of gender, physical, mental and intellectual abilities, race, ethnicity, age, sexual orientation, socio-economic status, religious beliefs or professional background. NBN Co is committed to a diverse workforce reflective of the wider communities in which NBN Co operates. This is an inclusive environment that unifies NBN Co and recognises employees' unique needs to utilise diverse talents, utilising various business partners, and engaging the community.

NBN Co has recently conducted its first company-wide Employment Engagement Survey. The overall measure of engagement behaviours has decreased from a score of 68% (based on the December 2012 pilot) to 44% (May 2014 results). The best employers are seeing scores around 80%. NBN Co is committed to improving engagement levels and five main areas of focus have been identified: work practices; people and their relationships; personal performance levels and career opportunities; organisational practices; and, the overall reward system.

Exhibit 7-2: Summary of Non-Financial Metrics and Target

Non-Financial Metrics				
(rounded to nearest digit)	FY2013	FY2014	Target	
Gender Diversity Women in management roles	21%	20%	Improve to representation in industry	
Employee Engagement Survey Measure of engagement behaviours in NBN Co	68%*	44%**	Benchmark: 80%	
Staff Retention Proportion of staff retained (over 12 months)	88%	87%	Benchmark: 80%	

Source: NBN Co.

Note: \*: based on pilot, December 2012. \*\*: survey conducted in April 2014, score released in May 2014.

### 7.2.3 Health and Safety

In addition to NBN Co's 2,932 employees, an estimated 5,246 contractors were involved in the building of the NBN as of 30 June 2014. The health and safety of all those who are involved in the NBN is NBN Co's highest priority. During the past three years as part of continual improvements, NBN Co has enhanced its Health, Safety & Environment (**HSE**) Management Systems, including the identification, assessment and control of critical risks.

Exhibit 7-3: Summary of HSE - Non-Financial Metrics and Target

HSE - Non-Financial Metrics			
(rounded to nearest digit)	FY2013	FY2014	Target
Health and Safety			
Lost Time Injury - NBN Co (per million work hours)	0.8	0.9	
Lost Time Injury – Contractors	0.5	2.4	Minimise; benchmark: 4.1

Source: NBN Co.

NBN Co's HSE Management System was accredited to AS4801, OHSAS18001 and ISO14001 in May 2012, with subsequent accreditation under the Australian Government Building Industry FSC Accreditation Scheme (the OFSC Accreditation Scheme) in October 2013.

The frequency of Lost Time Injuries (**LTI**) to 30 June 2014 for NBN Co employees was 0.93 LTI per million work hours and for contractors it was 2.42 LTI per million work hours. The frequency of Medical Treatment Injuries (**MTI**) to 30 June 2014 for NBN Co employees was 2.79 MTI per million work hours and for contractors it was 10.79 MTI per million work hours.

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NBN Co is particularly aware of asbestos hazards in the remediation of Telstra's ageing pit and pipe infrastructure that is being carried out by Telstra under the terms of the Telstra DAs. Under NBN Co's construction contracts it is a requirement that work be undertaken in accordance with all relevant Work Health and Safety laws and Codes of Practice, including for example the Codes of Practice on managing, controlling and safely removing asbestos.

### 7.2.4 Human Resources and Industrial Relations

NBN Co adheres to the Fair Work Principles and has four Enterprise Bargaining Agreements (EBAs), which cover classifications of employees in the technical, professional, clerical / administration and contact centre areas. These EBAs are in place and provide competitive terms and conditions for NBN Co employees covered by the agreements. The EBAs are set to expire in CY2014, with the renewal process having commenced.

NBN Co requires its contractors to be responsible employers who provide safe work environments and efficient work practices taking into account legal requirements, all relevant market factors and business operating conditions. NBN Co requires contractors engaged in the construction of the NBN to demonstrate where applicable, ability to effectively manage employee relations matters including compliance with the Fair Work Principles and National Code of Practice for the Construction Industry and the associated version of the implementation guidelines.

NBN Co is taking a major role in scoping the labour pool required for the construction of the NBN and intends to generate a range of programmes that will build NBN Co's workforce in close cooperation with Delivery Partners. NBN Co has identified the main qualifications required for this workforce and is developing a range of training programmes including an NBN Co Safety and Awareness course that is currently undertaken by applicable NBN Co construction workers. Externally, contracted NBN Co construction workers are intended to be dispersed across the country providing opportunities for local employment.

NBN Co encourages its principal contracting partners to have in place management plans for local industry engagement and indigenous participation. NBN Co plans to work with its partners to encourage implementation and compliance with these plans.

#### 7.2.5 Reconciliation Action Plan

NBN Co registered its first *Reconciliation Action Plan* with Reconciliation Australia in 2013. NBN Co's vision is to see a 'connected community' where Aboriginal and Torres Strait Islander people share equally in the benefits of the NBN no matter where they live. The NBN technology is expected to positively impact Aboriginal and Torres Strait Islander health and wellbeing through enhanced medical practices and outcomes and increased access to education and training – especially in remote locations. The *Reconciliation Action Plan* recognises there is much to learn and to do to close the gap between Aboriginal and Torres Strait Islander people and the wider Australian community.

NBN Co's plan outlines the actions to enhance relationships, respect and opportunities for Aboriginal and Torres Strait Islander people over the next three years and includes the following aims:

- We will build respectful and sustainable relationships that enhance the participation of Aboriginal and Torres Strait Islander people with the NBN mission. We will listen to Aboriginal and Torres Strait Islander people and recognise their history, culture, land and heritage and respond in ways that promote community value and business value.
- Recognise and respect Aboriginal and Torres Strait Islander history, cultures and heritage and ensure the work we do makes a positive contribution toward supporting Aboriginal and Torres Strait Islander people and communities.
- To build a connected community where Aboriginal and Torres Strait Islander people have enhanced opportunities and share equally with other Australians the benefits the NBN network brings.

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### 7.3 Information Technology and Operating the NBN

### 7.3.1 Information Technology

NBN Co requires interlocked systems in order to simultaneously construct, operate and maintain the NBN.

The Operational Support Systems (**OSS**) and the Business Support Systems (**BSS**) provide critical capabilities to ensure that NBN Co is able to build, operate and maintain the network and to activate, assure and bill for services provided. NBN Co's objective is to ensure a good customer and End-User experience by enabling its wholesale customers to be able to perform these tasks in the most efficient and effective way possible with the maximum use of automation and self-serve processes. This 'virtualised' network concept depends on heavy automation of routine processes (such as ordering, provisioning, service management, billing, and deactivation) that are transacted through Business-to-Business (**B2B**) operational interfaces.

Through the period 2012-2014, the focus has been on establishing the core platforms that are intended to deliver this virtualised network concept for NBN Co's Service Providers and also enable NBN Co's staff and partners to improve productivity and efficiency.

In preparing for the MTM approach, it will be necessary to upgrade or replace some of NBN Co's foundation IT capabilities and systems. For OSS/BSS, the new operating model will necessitate a more effective governance and planning process to align construction, IT and business change and modifying existing OSS/BSS systems and associated operational processes to support FTTx, Copper, HFC, Fixed Wireless and Satellite services. For example, this might include provision of data from Telstra and Optus for HFC Cable Networks to address master data, adding modules to configure and enable layer 2 integration, modifying systems to handle change, fault and order management integration with Telstra and / or Optus and finally in-sourcing HFC inventory, activations, design, network management and assurance services onto NBN Co OSS/BSS (over time).

The focus over the next 24 months will be the integration of core platform capabilities deeply into the business and Access Technologies, whilst also assessing and executing on the adjustments required to deploy the MTM model.

### 7.3.2 Operating the NBN

The day-to-day network operation of the NBN is handled by the Network and Service Operations Centre (NSOC), which has been operational since June 2011. The NSOC provides network monitoring of the NBN and a physical control location to house operations and systems to assist with:

- Managing and operating the network.
- Maintaining the network including rectifying network disruptions to facilitate Service Providers' delivery of services to their customers.

Through NBN Co's end-to-end process development, the OSS is being developed to allow Service Providers to submit orders and trouble tickets directly from their own systems via a B2B gateway. This is intended to enable Service Providers to automate a large volume of End-User activations and assurance processes. A service portal will remain available for Service Providers to use should they not have the capability to submit automated requests through the B2B gateway.

For ongoing maintenance of the NBN, automated event management and alarm systems notify NBN Co of faults in the network. For routine faults and maintenance, tickets of work are intended to be automatically issued to NBN Co's contractors with automated responses back to Retail Service Providers as appropriate.

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## 8 Operational Overview

### 8.1 Operational Highlights

Exhibit 8-1: Summary Operational Metrics for actuals as at 30 June 2014 (Rounded Figures)

#### Operational Highlights (Actuals as at 30 June 2014)

- Active End-Users 211,000 active End-Users overall, representing a 3 times increase compared to FY2013.
- Penetration Penetration rate of 38% overall of Premises or Lots Serviceable. 151,000 Active End-Users were Fixed Line End-Users, which represented a penetration rate of 39% of Premises or Lots Serviceable (or 31% of the Fixed Line footprint when including Premises Non-Serviceable).
- **Total Premises Serviceable** 553,000 Premises Serviceable, representing a 2.4 times increase compared to FY2013.
- **Fixed Line Network** 392,000 Premises Serviceable out of 492,000 Premises or Lots Ready For Service, representing an 80% serviceability ratio (Brownfields: 74%). 108 Fibre Serving Area Modules with a planned Disconnection Date in FY2014 and FY2015.
- Fixed Wireless and Satellite Networks 160,000 Premises Covered\*, representing a 2.1 times increase compared to FY2013 (restated). Two Ka-band satellites are on schedule for launch in CY2015.
- Transit Network 116 Points of Interconnect / Aggregation Nodes integrated.

Source: NBN Co.

Exhibit 8-2: Summary Operational Metrics

Operational Metrics				
	FY2012	FY2013	FY2014	FY2015
(Cumulative - as at 30 June unless stated otherwise)	Actual	Actual	Actual	Estimates
Premises Activated	13,536	70,100	210,628	481,000
Fixed Line	3,867	33,586	151,127	385,000
Fixed Wireless & Interim Satellite	9,669	36,514	59,501	96,000
Premises or Lots Serviceable	87,253	227,075	552,618	1,033,000
Fixed Line	30,368	151,819	392,410	755,000
Fixed Wireless & Interim Satellite*	56,885	75,256	160,208	278,000
Premises or Lots RFS / Passed / Covered	95,799	282,799	652,470	1,093,000
Fixed Line	38,914	207,543	492,262	815,000
Fixed Wireless & Interim Satellite*	56,885	75,256	160,208	278,000
Transit Network				
Number of Points of Interconnect	9	64	116	121
Transit Network Fibre Rings	1	34	100	199

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

- 1) Fixed Line: Refers to Brownfields Premises plus Greenfields Premises / Lots.
- 2) Fixed Line Greenfields: Premises Passed may not equal Lots Passed depending on developer's timeframe to build.
- 3) **Premises Activated**: Refers to Premises which have an active service installed. Premises are activated after receiving and provisioning a service order from a Service Provider to install a service at the Premises.
- 4) Premises Serviceable: Refers to Premises Ready for Service minus Premises Non-Serviceable (Premises at Service Class 0).
- 5) Premises Ready for Service (Premises RFS): Refers to Premises that are part of FSAMs where 90% or more of Premises are passed, the Disconnection Commencement Date (DCD) and the Region Ready for Service Date (RRFSD) are achieved, and

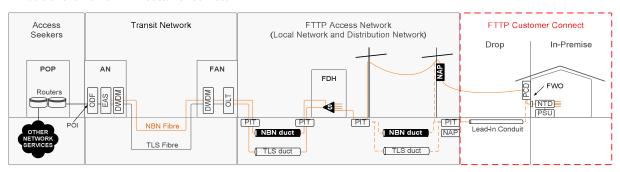
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addresses are released to Service Providers. NBN Co has introduced the metric of Premises RFS commencing 1 April 2014 to align with recent Access Seeker communication to cease partial FSAMs release from 1 April 2014. Prior to 1 April 2014, Premises RFS equals Premises / Lots Passed (e.g. includes partial FSAMs where less than 90% of Premises are passed). Premises at Service Class 0 are included.

- 6) Premises Passed: Refers to Premises where the Local Network, Distribution Network and Transit Network are in place, and practical completion has been granted for the Fibre Distribution Area (FDA). Premises at Service Class 0 are included. Premises Passed is equal to the count of Premises RFS plus the count of Premises Passed within FSAMs that are less than 90% complete.
- 7) Premises Covered: Premises Covered refers to Fixed Wireless and Satellite areas where Premises have Fixed Wireless or Satellite coverage and can access a service via NBN Co's Service Providers, but where no physical infrastructure passes the Premises. \*: The Interim Satellite Service Premises Covered figure reflects the new definition of Premises Covered of 48,000 vs. the 2012-15 Corporate Plan figure of 165,000 for FY2012 and 250,000 for FY2013 and FY2014.

#### Connecting Premises to the FTTP Network 8.2

Exhibit 8-3: Overview of FTTP Customer Connect



AN: Aggregation Node DWDM: Dense Wave Division Multiplexing EAS: Ethernet Aggregation Switch FAN: Fibre Access Node

Source: NBN Co.

FDH: Fibre Distribution Hub FWO: Fibre Wall Outlet NAP: Network Access Point NTD: Network Termination Device ODF: Optical Distribution Frame OLT: Optical Line Terminal PCD: Premise Connection Device POI: Point of Interconnect

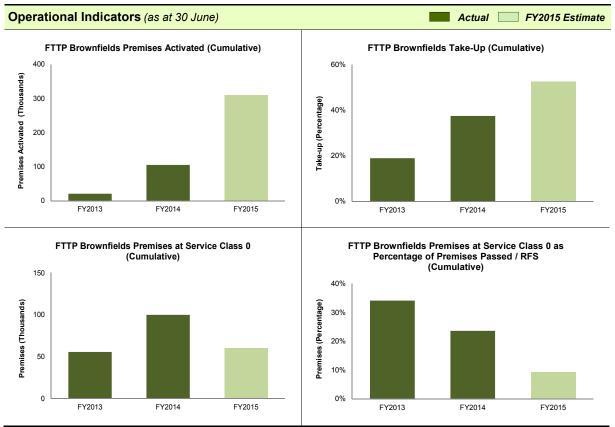
POP: Point of Presence PSU: Power Supply Unit S: Optical Splitter TLS: Telstra

Connecting Premises to the FTTP Network covers the part of the NBN from the Network Access Point (NAP) in the street to the Network Termination Device (NTD), typically inside an End-User Premises.

This activity is undertaken either through: Bulk / Build Drops (Drops are deployed ahead of an active service being ordered) or **Demand Drops** (Drops are deployed at the time of an active service being ordered).

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Exhibit 8-4: Customer Connect for FTTP Brownfields Operational Indicators



Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

- 1) Take-up calculated as Premises Activated as Percentage of Premises Serviceable
- 2) Premises RFS: NBN Co has introduced the metric of Premises Ready for Service (Premises RFS) commencing 1 April 2014, refer Glossary. Premises Passed used for FY2013, Premises RFS used for FY2014 and FY2015.

Exhibit 8-5: FTTP Customer Connect Operational Highlights (Rounded Figures)

Performance to date	<ul> <li>105,000 FTTP Brownfields Premises Activated at end of FY2014, representing a 5 times increase compared to FY2013.</li> <li>Take-up<sup>32</sup> percentage of 37%, compared to 19% in June 2013.</li> <li>35,500 Single-Dwelling Unit / Multi-Dwelling Unit Drops were completed by the Bulk / Build Drop programme at end of FY2014.</li> </ul>	
Serviceability	<ul> <li>Ending FY2013, NBN Co had 108,000 FTTP Brownfields Premises Serviceable, which represented 66% of FTTP Brownfields Premises Passed.</li> <li>Ending FY2014, NBN Co had 281,000 FTTP Brownfields Premises Serviceable, which represented 74% of FTTP Brownfields Premises Ready for Service (FTTP Brownfields Premises Passed: 66%).</li> </ul>	
Comparison to 2012- 15 Corporate Plan	<ul> <li>20,400 FTTP Brownfields Premises Activated at end of FY2013 versus a 2012-15 Corporate Plan target of 44,000.</li> <li>105,000 FTTP Brownfields Premises Activated at end of FY2014 versus a</li> </ul>	

 $<sup>^{\</sup>rm 32}$  Premises Activated as Percentage of Premises Serviceable.

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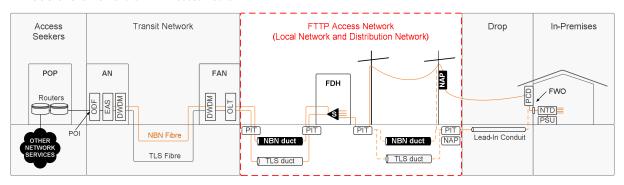
	2012-15 Corporate Plan target of 420,000.		
FY2015 Estimate	<ul> <li>Estimate of 310,000 Fixed Line Brownfields Premises Activated, representing a 3 times estimated increase compared to FY2014.</li> <li>Estimate of 590,000 Fixed Line Brownfields Premises Serviceable, representing a 2 times estimated increase compared to FY2014. Premises Serviceable would represent approximately 91% of Fixed Line Brownfield Premises Ready For Service.</li> </ul>		

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

### 8.3 FTTP Access Network

Exhibit 8-6: Overview of the FTTP Access Network



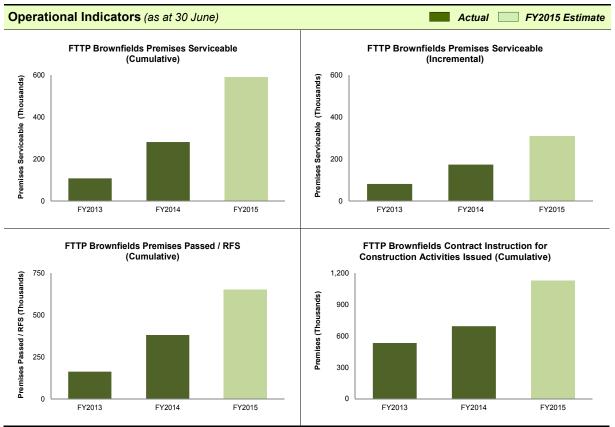
AN: Aggregation Node DWDM: Dense Wave Division Multiplexing EAS: Ethernet Aggregation Switch FAN: Fibre Access Node FDH: Fibre Distribution Hub FWO: Fibre Wall Outlet NAP: Network Access Point NTD: Network Termination Device ODF: Optical Distribution Frame OLT: Optical Line Terminal PCD: Premise Connection Device POI: Point of Interconnect POP: Point of Presence PSU: Power Supply Unit S: Optical Splitter TLS: Telstra

Source: NBN Co

The FTTP Access Network provides the fibre pathway that connects the Optical Line Terminals (**OLTs**) located in NBN Co's Fibre Access Nodes (**FANs**) to the Network Access Point located in the street outside an End-User Premises.

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Exhibit 8-7: FTTP Brownfields Operational Indicators



Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

Exhibit 8-8: FTTP Brownfields Operational Highlights (Rounded Figures)

Performance to date	<ul> <li>381,000 FTTP Brownfields Premises were declared Ready For Service at end of FY2014, representing a 2.3 times increase compared to FY2013.</li> <li>The percentage of Premises Serviceable remained at 66% of FTTP Brownfields Premises Passed at end of FY2013 and end of FY2014, but increased to 74% of Premises Ready For Service at end of FY2014. This represented a cumulative total of 281,000 FTTP Brownfields Premises Serviceable at end of FY2014.</li> </ul>
Construction	<ul> <li>NBN Co is currently engaged in stabilising the FTTP Brownfields rollout, with a target of issuing approximately 20 FSAMs per month in the second half of CY2014.</li> </ul>
Comparison to 2012- 15 Corporate Plan	<ul> <li>164,000 FTTP Brownfields Premises Passed at end of FY2013 versus a 2012-15 Corporate Plan target of 286,000.</li> <li>423,000 FTTP Brownfields Premises Passed (of which 381,000 Premises Ready For Service) at end of FY2014 versus a 2012-15 Corporate Plan target of 1,129,000.</li> </ul>

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<sup>1)</sup> Premises RFS: NBN Co has introduced the metric of Premises Ready for Service (Premises RFS) commencing 1 April 2014, refer Glossary. Premises Passed used for FY2013, Premises RFS used for FY2014 and FY2015.

#### FY2015 Estimate

 Estimate of 590,000 Fixed Line Brownfields Premises Serviceable, representing a 2 times estimated increase compared to FY2014.

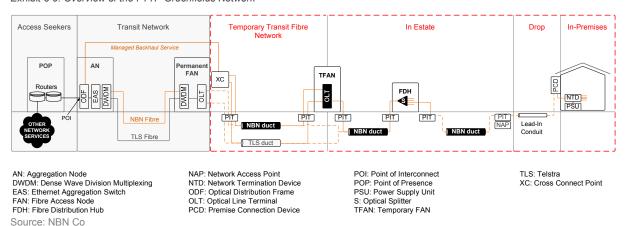
- Estimate of 725,000 Fixed Line Brownfields Premises Passed and 650,000 FTTP Brownfields Premises Ready For Service, representing a 1.7 times estimated increase compared to FY2014.
- Estimate to have issued Contract Instructions Construction Activities (CICAs) to NBN Co's Delivery Partners for 1.1 million Premises (Life-to-date, including Premises Ready For Service).

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

### 8.4 FTTP Greenfields

Exhibit 8-9: Overview of the FTTP Greenfields Network



FTTP Greenfields include New Developments estates, Infills,<sup>33</sup> and developments in areas where FTTP Brownfields rollout has commenced construction or in areas identified as a rollout region.<sup>34</sup>

New Developments include commercial, industrial and residential estates comprising of more than 100 lots with development approval to be released within a 3 year period located in NBN Co's long term Fibre Footprint.

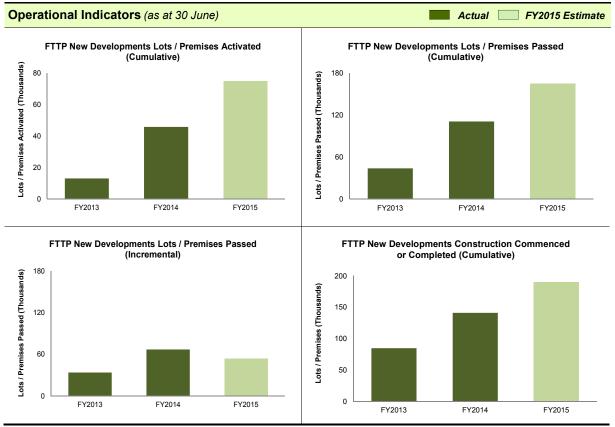
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<sup>&</sup>lt;sup>33</sup> Infills irrespective of size or type, in areas where NBN Co has already rolled out fibre and the fibre is ready and capable of connection.

For the role of NBN Co with regards to Greenfields developments, refer to the appropriate policy as befitting the circumstance. http://www.nbnco.com.au/industry/new-developments.html

Exhibit 8-10: FTTP New Developments Operational Indicators



Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

Exhibit 8-11: FTTP New Developments Operational Highlights (Rounded Figures)

Performance to date	<ul> <li>46,000 New Development Premises Activated at end FY2014, representing a 3.5x increase compared to FY2013.</li> <li>41% take-up rate on Lots / Premises Passed (FY2013: 30%).</li> <li>111,000 Lots / Premises Passed, representing a 2.5x increase compared to FY2013.</li> </ul>
Demand	■ FTTP Greenfields are demand-driven activities, which are subject to variations in housing starts and developer activities (supply of new premises and demand from new developers for NBN Co to install fibre).
Comparison to 2012- 15 Corporate Plan	<ul> <li>44,000 FTTP New Developments Lots/ Premises Passed at end of FY2013 versus a 2012-15 Corporate Plan target of 55,000.</li> <li>13,000 FTTP New Developments Premises Activated at end of FY2013 versus a target of 10,000.</li> <li>111,000 FTTP New Development Lots / Premises Passed at end of FY2014 versus a target of 178,000.</li> <li>46,000 Premises Activated at end of FY2014 versus a 2012-15 Corporate Plan target of 67,000.</li> </ul>

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#### FY2015 Estimate

- Estimate of 75,000 Fixed Line New Developments lots / Premises Activated, representing a 1.6 times estimated increase compared to FY2014.
- Estimate of 46% take-up rate (FY2014: 41%).

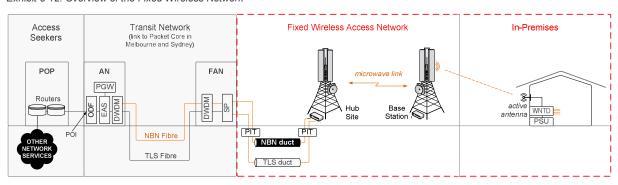
 Estimate of 165,000 Fixed Line New Development lots / Premises Passed, representing a 1.5 times estimated increase compared to FY2014.

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

### 8.5 Fixed Wireless and Satellite

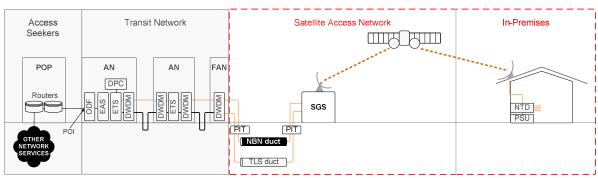
Exhibit 8-12: Overview of the Fixed Wireless Network



AN: Aggregation Node DWDM: Dense Wave Division Multiplexing EAS: Ethernet Aggregation Switch FAN: Fibre Access Node FDH: Fibre Distribution Hub ODF: Optical Distribution Frame PGW: Packet Gateway POI: Point of Interconnect POP: Point of Presence PSU: Power Supply Unit WNTD: Wireless Network Termination Device SP: Small Packet

Source: NBN Co.

Exhibit 8-13: Overview of the Satellite Network



AN: Aggregation Node
DPC: Data Processing Centre
DWDM: Dense Wave Division Multiplexing

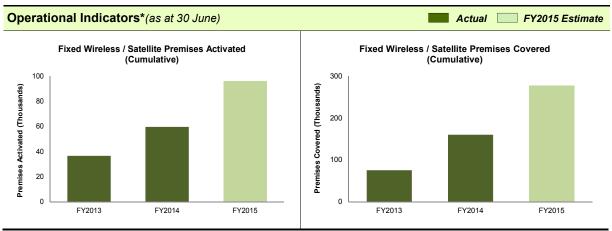
EAS: Ethernet Aggregation Switch FAN: Fibre Access Node NTD: Network Termination Device ODF: Optical Distribution Frame POI: Point of Interconnect POP: Point of Presence PSU: Power Supply Unit SGS: Satellite Ground Station ETS: Ethernet Trunking Switch

Source: NBN Co.

The Fixed Wireless and Satellite Networks provide high-speed broadband services outside the footprint of the Fixed Line network. One of the major network trade-offs in deploying the Fixed Wireless and Satellite Networks is to accommodate uncertainties around the volume of End-User demand, particularly as these networks need to be planned for and designed on a region-by-region basis.

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Exhibit 8-14: Fixed Wireless and Satellite Operational Indicators\*



Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

Exhibit 8-15: Fixed Wireless and Satellite Operational Highlights (Rounded Figures)

### 60,000 Fixed Wireless and Interim Satellite Service Premises Activated at end Performance to date of FY2014, representing a 1.6x increase compared to FY2013. 160,000 Fixed Wireless and Interim Satellite Service Premises Covered at end FY2014, representing a 2.1x increase compared to FY2013\*. In March 2013, NBN Co contracted the launch of the two NBN Co Long Term Operational Satellite Service (LTSS) satellites with Arianespace, and secured insurance highlights arrangements of launch and in-orbit operations of the satellites. In February 2014, NBN Co announced the award of a five year contract to Optus for the operation of the two NBN Co satellites. Under the contract Optus will provide tracking, telemetry and control services in connection with the LTSS. The two satellites currently under construction are scheduled to launch in CY2015. In January 2013, NBN Co commenced the construction of the ten LTSS ground stations with all now well progressed and two complete. In July 2012, NBN Co contracted with ViaSat for the supply of LTSS ground systems and terminals. The ground systems have now been commissioned at two of the ground stations including the RF antenna systems, with network management, data processing systems and terminal development well progressed. Capacity on the oversubscribed ISS has been extended through satellite operators IPStar and Optus. NBN Co will spend more than \$34 million to provide End-Users with improved broadband speeds and new satellite services for additional Premises. These services are expected to be available from the middle of CY2014. Comparison to 2012-37,000 Fixed Wireless and Satellite Premises Activated at end of FY2013 15 Corporate Plan versus a target of 38,000 Premises. 75,000 Fixed Wireless and Satellite Premises Covered\* at end of FY2013 versus a 2012-15 Corporate Plan target of 320,000\*. This target included

<sup>\*:</sup> The Interim Satellite Service Premises Covered figure reflects the new definition of Premises Covered of 48,000 vs. the 2012-15 Corporate Plan figure of 165,000 for FY2012 and 250,000 for FY2013 and FY2014.

250,000 ISS Premises Covered in the 2012-15 Corporate Plan versus the new definition of ISS Premises Covered of 48,000.

- 60,000 Fixed Wireless and Satellite Premises Activated at end of FY2014 versus a 2012-15 Corporate Plan target of 64,000.
- 160,000 Fixed Wireless and Satellite Premises Covered\* at end of FY2014 versus a target of 374,000\*. This target included 250,000 ISS Premises Covered in the 2012-15 Corporate Plan versus the new definition of ISS Premises Covered of 48,000.

#### FY2015 Estimate

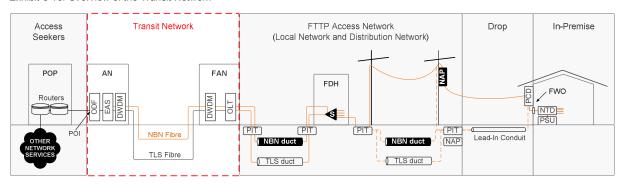
- Estimate of 96,000 Premises Activated on the Fixed Wireless and Satellite Networks, representing a 1.6 times estimated increase compared to FY2014.
- Estimate of 278,000 Premises Covered, representing a 1.7 times estimated increase compared to FY2014.
- All 10 Satellite ground stations across Australia to be integrated and operational.

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

### 8.6 Transit Network

Exhibit 8-16: Overview of the Transit Network



AN: Aggregation Node DWDM: Dense Wave Division Multiplexing EAS: Ethernet Aggregation Switch FAN: Fibre Access Node

Source: NBN Co

FDH: Fibre Distribution Hub FWO: Fibre Wall Outlet NAP: Network Access Point NTD: Network Termination Device ODF: Optical Distribution Frame OLT: Optical Line Terminal PCD: Premise Connection Device POI: Point of Interconnect POP: Point of Presence PSU: Power Supply Unit S: Optical Splitter TLS: Telstra

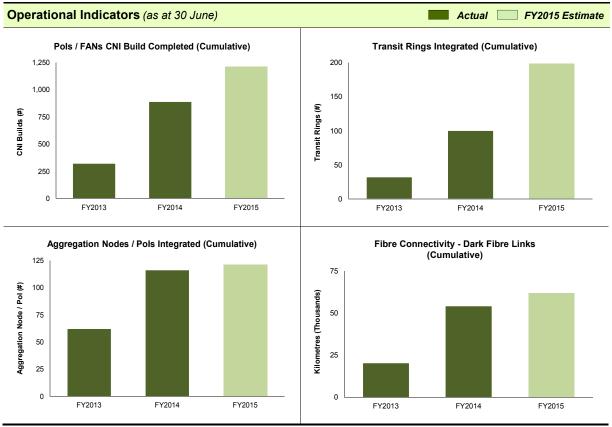
The Transit Network provides connectivity between three types of access networks (Fixed Line, Fixed Wireless and Satellite) and the Points of Interconnects (**Pols**) where Service Providers connect to the NBN.

NBN Co is prioritising the completion of the Transit Network to enable the NBN to be built simultaneously across a wide range of regional areas including New Developments and to provide connectivity for the Fixed Wireless Network and Satellite Network.

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<sup>\*:</sup> The Interim Satellite Service Premises Covered figure reflects the new definition of Premises Covered of 48,000 vs. the 2012-15 Corporate Plan figure of 165,000 for FY2012 and 250,000 for FY2013 and FY2014.

Exhibit 8-17: Transit Network Operational Indicators



Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

Note: Dark Fibre Links could be provided by Telstra, as part of the Regional Blackspot Broadband Programme or built by NBN Co.

Exhibit 8-18: Transit Network Operational Highlights

Performance to date	<ul> <li>At the end of FY2014, the Transit Network had integrated 116 Pols, completed CNI builds for 888 Pols / FANs, and integrated 100 Transit Rings.</li> </ul>
Comparison to 2012- 15 Corporate Plan	The 2012-15 Corporate Plan forecast:  121 Pols integrated in FY2013.  Completed CNI builds for 497 Pols / FANs in FY2013 and 771 Pols / FANs in FY2014.  Integrated 104 Transit Rings in FY2013 and 200 Transit Rings in FY2014.
FY2015 Estimate	<ul> <li>Estimate of 121 Pols integrated, CNI builds for 1,214 Pols / FANs and 199 Transit Rings.</li> </ul>

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

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### 8.7 Customers and End-Users

### 8.7.1 Customer Experience and Engagement

NBN Co's main measure of customer satisfaction is through the Customer Engagement Metric scores from NBN Co's Service Providers.

These Service Providers have a direct commercial relationship with NBN Co through the Wholesale Broadband Agreement.

They can be either Wholesale Service Providers and / or Retail Service Providers.

Exhibit 8-19: Customer Experience and Engagement Scores

Customer Experience and Engagement Scores		
(scores are out of 10)	Actual	Target
Customer Experience Score Satisfaction of our Retail and Wholesale Service Provider customers with overall experience of working with NBN Co.	6.4	Long term: 8.0
Customer Engagement Score  Measure of our Retail and Wholesale Service Provider Customers' sentiments of working with NBN Co.	6.3	Long term: 8.0

Source: NBN Co.

The Customer Experience Score is based on nine performance drivers including: network rollout, relationship management, activations, ordering and provisioning, service assurance, billing processes, how NBN Co communicates to Service Providers, product development, and the development of the Wholesale Broadband Agreement. Measures also include collaborative business practices and ease of doing business with NBN Co. The interview was completed for 89 respondents and the results were compiled in August 2013.

#### 8.7.2 End-User Product Scorecard

In addition to measuring its customers' satisfaction, NBN Co also monitors End-User satisfaction through an End-User product scorecard.

As an open-access, wholesale only layer 2 operator, NBN Co does not have a direct relationship with the End-Users; NBN Co's Service Providers have this direct commercial relationship with End-Users.

Nevertheless, NBN Co considers that, as a wholesaler of broadband services, its success will be highly influenced by the End-User's perceptions and recommendations of NBN products and services, even if these are influenced and, in some cases, directly impacted by the Service Providers (for example, the value for money metric is largely influenced by retail pricing, which is not set by NBN Co).

This is also in recognition of NBN Co's obligation as a Government Business Enterprise to meet community service obligations that may be imposed by the Government.

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Exhibit 8-20: End-User Product Scorecard

End-User Product Scorecard (April 2014) <sup>35</sup>	End-User Product Scorecard (April 2014) <sup>35</sup>					
(scores are out of 10 – average across all respondents)	Fibre	Fixed Wireless	Interim Satellite	Total NBN		
Overall Satisfaction with NBN Co Products End-User evaluation of all experiences relating to NBN Co.	7.5	7.9	6.2	7.3		
Value for Money End-User evaluation of what they receive from the NBN relative to price paid.	7.2	7.7	6.3	7.1		
Installation & Activation End-User evaluation of overall NBN ordering and Activating experience.	6.4	7.4	7.2	6.5		
Product Experience End-User evaluation overall performance of their NBN service.	7.8	8.1	5.8	7.5		
Support & Resolution End-User evaluation of the overall handling of their support requests.	6.7	7.0	5.9	6.6		

Source: NBN Co.

Overall satisfaction of all experiences relating to the NBN increased by 0.2 points from September 2013. End-User evaluation of their 'Product Experience' also increased by 0.3 points over the same period. This is largely attributed to increased satisfaction with the Fixed Wireless product.

In comparison to September 2013, the metrics of 'Value for Money' and 'Support & Resolution' activities received the same scores in the April 2014 survey. End-User evaluation of their 'Installation & Activation' experience fell by 0.8 points over the same period.

### 8.7.3 Disconnection and Migration Process

NBN Co is committed to work with its customers and to inform End-Users about the disconnection and migration process. Under the Telstra DAs, NBN Co and Telstra agreed that Telstra will progressively disconnect Telstra copper services, and HFC broadband services.<sup>36</sup>

The disconnection process involves Premises in the Fibre Footprint in an NBN Rollout Region (or Fibre Serving Area Module (FSAM)) being progressively disconnected from Telstra's networks during the 18 month period following the applicable Region Ready for Service Date (RRFSD) or Disconnection Commencement Date (DCD) for that Rollout Region. Subject to certain exceptions, Telstra is required to disconnect all Premises in a Rollout Region within this 18 month period by the Disconnection Date (DD). NBN Co notifies Telstra and publishes to Service Providers the applicable dates mentioned above for each Rollout Region.

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<sup>&</sup>lt;sup>35</sup> Research conducted by Evolve Consulting on 2,656 activated users and 10 Service Providers – April 2014.

 $<sup>^{36}</sup>$  Telstra has no obligation to disconnect non-Premises (for example, traffic lights).

From the DD, Telstra is obliged to commence permanent disconnection of all remaining copper services and HFC broadband services provided to Premises in the relevant Rollout Region that are passed by the NBN Fibre Network (subject to certain limited exceptions)<sup>37</sup>. This applies on an equivalent basis to both Telstra retail services and Telstra wholesale services, including Unconditional Local Loop Service (**ULLS**) and Line Sharing Services (**LSS**). The permanent disconnection process must be completed within a specified period after the DD.

On 23 May 2014, the Premises in the first 15 Rollout Regions (approximately 27,000 Premises Passed) reached their DD. An additional 16 Rollout Regions, representing approximately 34,000 Premises, will also reach their DD by end October 2014.

Whilst all parties are committed to the headline DD, as this is the first occasion on which mandatory disconnection will commence, NBN Co and Telstra have agreed in consultation with the ACCC and the Department of Communications to revise and closely monitor the disconnection process in the first 31 FSAMs. The objective is to assist End-Users, in particular vulnerable groups, in their migration to the NBN.

Under the revised process, certain End-Users will be allowed up to an additional 6 months from the DD to assist in the migration to the NBN. Telstra (in conjunction with Service Providers), will implement a "Red" and "Green" Premises categorisation approach to processing disconnections in the first 31 FSAMs. This will allow special treatment for certain types of Premises and certain groups of End-Users. Examples within the Red category include End-Users who may be in a 'vulnerable' situation due to the existence in their Premises of known legacy services such as medical alarms, fire panels and lift phones.

Any End-User Premises in the first 31 FSAMs in a 'vulnerable' group which has not migrated to the NBN within the additional DD plus 6 month period will be considered on an exceptions basis.

To support case management, NBN Co launched a medical alarm register in March 2014 to establish a database of certain medical alarms users – this includes direct registrations from End-Users as well as information from a range of medical alarm providers. A similar register has also been launched for fire alarms and lift phones. It is expected that learnings from the first 31 Rollout Regions pilot with Telstra (and other stakeholders) will inform future disconnection processes to ensure migration occurs successfully for all parties and with minimum exposure to vulnerable groups.

Throughout FY2015, in addition to the first 31 Rollout Regions, a further 77 Rollout Regions are expected to reach DD to make a total of 108 Rollout Regions.

In addition to the pilot, NBN Co has commenced work with the Department of Communications, Telstra and other industry stakeholders and regulatory bodies to develop a Migration and Disconnection Service Assurance Framework. This will formalise future migration and disconnection assurance processes for the industry. An implementation plan is being developed by the Department of Communications for completion in FY2015.

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This includes the Copper Network lines connecting premises in a Rollout Region that are passed by the NBN Fibre Network which can continue to be used to provide services after the Disconnection Date in the following limited circumstances: a) for a specified period, for continued provision of pre-existing copper services and HFC broadband services where a connection order for the NBN Fibre Network has been made for the relevant premises but has not been fulfilled as at the Disconnection Date; and, b) for a range of retail and wholesale Special Services, which will be disconnected over a longer timeframe, depending on factors such as suitable fibre alternative products becoming available on the NBN Fibre Network.

# 8.7.4 Serviceability Improvement Programme for FTTP Access Network (Brownfields Premises)

A major area of focus for NBN Co in FY2015 will be to increase the number of Premises Passed that are serviceable in the FTTP Access Network (Brownfields Premises) in order to meet the expected demand for activations and the upcoming disconnection timeframes. Serviceability of the FTTP Access Network and the Fixed Line Network involves connecting each Premises with a Drop (e.g. a lead-in to the Premises). This involves for the:

- Existing footprint Completing the construction activities to ensure that a high proportion of Premises
  that are already Premises Passed by NBN Co are Premises Serviceable. Therefore, the focus will be on
  reducing the stock of Premises Non-Serviceable to fulfil demand and upcoming disconnection
  timeframes through significantly ramping up the existing Bulk Drop programme and existing MDU Drop
  programme.
- New footprint Ensuring that a higher proportion of Premises are Premises Serviceable when an area is declared Ready for Service (e.g. when orders can be placed from Service Providers). The primary objective will be to ramp up the volumes of drops (including for Multi-Dwelling Units) that are installed at the time of the FSAMs being built and Premises being passed (the Build Drop programme). This aims to minimise activation activities required at the time of an order being received from Service Providers, including NBN Co's ability to service demand from End-Users living in Multi-Dwelling Units. NBN Co is intending to collaboratively review existing contractual arrangements with its Delivery Partners to ensure the scope of their construction activities includes both the construction of the FTTP Access Network as well as the construction of the Build Drops (from the Network Access Point (NAP) in the street to the Premises Connection Device (PCD) located outside or nearby the End-User Premises).

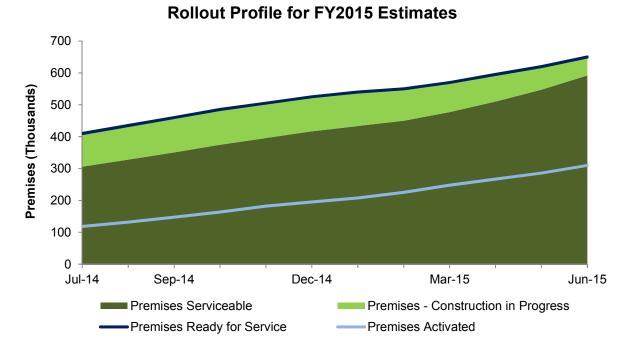
NBN Co has begun a pilot programme to improve the serviceability of Premises within the existing FSAMs and the upcoming footprint so as to increase NBN Co's ability to efficiently process orders. As part of this initiative, NBN Co will specifically target a reduction in the level of Premises that are currently outside the standard lead time for a service activation (the Service Class 0 Premises) as well as seek to increase the proportion of Premises where the lead-in will already be in place at the time of the activation order so as to minimise the number of Demand Drops.

This programme will include:

- Completing planned Multi-Dwelling Units and Complex Premises activity to increase the level of Premises Serviceable in the existing footprint of Premises Passed.
- Completing required outstanding work in the Premises Passed footprint, which may include testing, addressing any network gaps, and completing current or expected held-orders.

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Exhibit 8-21: Fixed Line Brownfields Premises FY2015 Estimate Profile by Serviceability and Activations



Source: NBN Co.

NBN Co's FY2015 Estimate for Fixed Line Brownfields reflects the projected outcomes of these activities, with an increase in Premises Serviceable and Premises Activated, particularly in the second half of FY2015, with:

- Fixed Line Brownfields Premises Activated to increase from 105,000 Premises as of 30 June 2014 to an estimated 310,000 Premises as of 30 June 2015 (on a cumulative basis), representing an incremental 205,000 Premises Activated in FY2015.
- Fixed Line Brownfields Premises Serviceable to increase from 281,000 Premises as of 30 June 2014 to an estimated 590,000 Premises as of 30 June 2015 (on a cumulative basis), representing an incremental 309,000 Premises Serviceable in FY2015.

#### 8.7.5 Service Levels for End-User Connections

NBN Co released its current Wholesale Broadband Agreement in December 2013 (replacing the first Wholesale Broadband Agreement), which includes the Service Level Schedule<sup>38</sup> that applies to the products and services that NBN Co supplies to Service Providers. It also sets out the performance objectives that NBN Co will aim to achieve for certain Service Levels<sup>39</sup>. The exhibits below summarises NBN Co's End-User Connection Service Level changes from the 1 October 2014.

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<sup>&</sup>lt;sup>38</sup> Wholesale Broadband Agreement – December 2013.

http://www2.nbnco.com.au/content/dam/nbnco/documents/sfaa-wba2-product-catalogue-service-levels-schedule\_201312.pdf

<sup>&</sup>lt;sup>39</sup> Please refer to NBN Co WBA page for latest definitions of Service Levels and Service Classes.

http://www.nbnco.com.au/industry/service-providers/agreements/wba2.html

Exhibit 8-22: Service Level for End-User Connections until 30 September 2014

Location of Premises	NBN Co Fibre Network (Business Days)			NBI	N Co Wireless Netv (Business Days)	vork	
	Service Class 0	Service Class 1	Service Class 2	Service Class 3	Service Class 4	Service Class 5	Service Class 6
Urban Area	N/A	25	9	1	N/A	14	1
Major Rural Area or Minor Rural Area	N/A	25	19	1	N/A	19	1
Remote Area	N/A	25	19	1	N/A	19	1

Source: NBN Co. Note: Refer to Glossary for Service Class definitions.

Exhibit 8-23: Service Level for End-User Connections from 1 October 2014

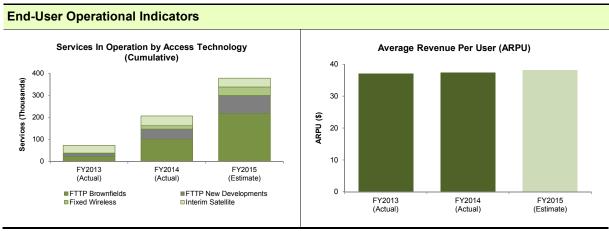
Location of Premises	NBN Co Fibre Network (Business Days)			NBI	N Co Wireless Netv (Business Days)	vork	
	Service Class 0	Service Class 1	Service Class 2	Service Class 3	Service Class 4	Service Class 5	Service Class 6
Urban Area	N/A	14	9	1	N/A	9	1
Major Rural Area or Minor Rural Area	N/A	19	14	1	N/A	14	1
Remote Area	N/A	19	19	1	N/A	19	1

Source: NBN Co. Note: Refer to Glossary for Service Class definitions.

NBN Co is implementing a number of initiatives to increase performance against the Service Levels. These initiatives include deploying more capacity for activations, improving the success rate of activation attempts and progressively lifting the serviceability level of the Premises Passed footprint by pre-deploying connections lead-ins to the Premises wherever possible and ahead of an activation order being received (therefore, minimising the remaining activation work required to successfully process that order).

#### 8.7.6 End-User Trends and Average Revenue per User (ARPU)

Exhibit 8-24: End-User Operational Indicators



Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

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Exhibit 8-25: Operational Highlights (Rounded Figures)

Performance to date	<ul> <li>211,000 Premises Activated at end FY2014 across FTTP (Brownfields and Greenfields), Fixed Wireless and Satellite Access Technologies, representing a 3x increase compared to FY2013.</li> <li>Penetration rate of 38% overall of Premises or Lots Serviceable at end of FY2014 (FY2013: 31%).</li> <li>151,000 Active End-Users were Fixed Line End-Users at end of FY2014, which represented a penetration rate of 39% of Premises or Lots Serviceable (or 31% of the Fixed Line footprint when including Premises Non-Serviceable) (FY2013: 22% and 16%, respectively).</li> <li>Weighted monthly Average Revenue per User (ARPU) of approximately \$37 for FY2014, representing a stable ARPU compared to FY2013.</li> </ul>
Regulatory and Industry engagement	<ul> <li>The ACCC accepted NBN Co's Special Access Undertaking (SAU) in December 2013. The SAU is an integral part of the regulatory framework that will govern the prices NBN Co can charge for the services it supplies to Service Providers, as well as other terms.</li> <li>NBN Co released the next version of the Wholesale Broadband Agreement (WBA) in December 2013, which replaced the first version of WBA on 1 April 2014.</li> <li>As at end of April 2014, NBN Co supplied to 49 customers under a WBA. Interim Satellite Services are provided under a separate satellite WBA.</li> </ul>
Comparison to 2012- 15 Corporate Plan	<ul> <li>70,000 Premises Activated across all Access Networks at end of FY2013 versus a target of 92,000.</li> <li>211,000 Premises Activated across all Access Networks at end FY2014 versus a target of 551,000.</li> <li>Penetration rate of 31% across all Access Networks on Premises Serviceable and 25% on Premises Passed / Covered at end of FY2013 versus a target of 20%* on Premises Passed / Covered.</li> <li>Penetration rate of 38% across all Access Networks on Premises Serviceable and 32% on Premises Ready For Service at end of FY2014 versus a target of 37%* on Premises Passed / Covered.</li> <li>ARPU of \$37 for FY2013 versus a target of \$29.</li> <li>ARPU of \$37 for FY2014 versus a target of \$32.</li> </ul>
FY2015 Estimate	<ul> <li>Estimate of 481,000 Premises Activated across all Access Technologies (cumulative, being the sum of FL Brownfields + FL Greenfields + Fixed Wireless &amp; Satellite), representing an estimated increase of 2.3x compared to FY2014.</li> <li>Estimate of a weighted monthly ARPU for the period from July 1 2014 to end of June 2015 at \$38, representing a stable ARPU compared to FY2014.</li> </ul>

Source: NBN Co.

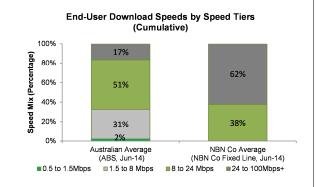
Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

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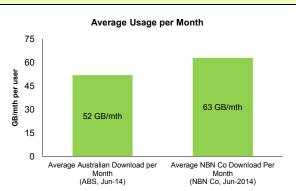
<sup>\*:</sup> The Interim Satellite Service Premises Covered figure reflects the new definition of Premises Covered of 48,000 vs. the 2012-15 Corporate Plan figure of 165,000 for FY2012 and 250,000 for FY2013 and FY2014.

Exhibit 8-26: End-User Demand Analysis for Speed and Usage

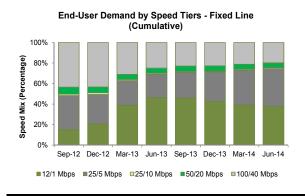
#### End-User Demand - Speed and Usage

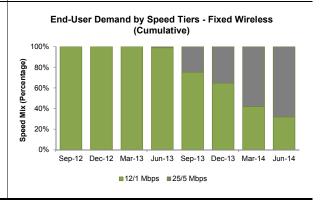


Source: ABS, 8153.0 - Internet Activity, Australia, June 2014. This is based on advertised speeds for the ABS Australian average. NBN Co data as at 30 June 2014.



Source: ABS, 8153.0 - Internet Activity, Australia, June 2014. This is based on advertised speeds for the ABS Australian average. NBN Co data as at 30 June 2014.





Source: NBN Co unless otherwise stated.

The average End-User's peak speed on the NBN was 36 Mbps as at 30 June 2014, which is approx. 1.8 times more than the Australian average at 20 Mbps. As at 30 June 2014, 62% of NBN Co's End-Users are on speed tiers of 24 Mbps or more compared to the Australian average of 17%. This compares to 54% and 13% in June 2013, respectively.<sup>40</sup>

NBN End-Users are consuming on average 63 GB/month in downloads as of June 2014. This is approximately 21% higher than the Australian average of 52 GB/month in downloads.<sup>40</sup>

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<sup>&</sup>lt;sup>40</sup> ABS 8153.0 – Internet Activity – Australia, June 2014. http://www.abs.gov.au/ausstats/abs@.nsf/mf/8153.0/

## 9 Financials

## 9.1 Financial Highlights

Exhibit 9-1: Financial Highlights

#### Performance to date ■ Revenues - NBN Co achieved Revenues of \$61 million (excluding interest income of \$39 million) in FY2014, representing a 3.6x increase compared to \$17 million (excluding \$49 million interest income) in FY2013. - Capital Expenditure (Capex) - NBN Co incurred \$2.5 billion of Capital Expenditure in FY2014, representing a 1.4x increase compared to \$1.8 billion in FY2013. Operating Expenditure (Opex) -NBN Co incurred \$1.3 billion of Operating Expenditure in FY2014 (FY2014 Accounting Opex: \$1.1 billion), representing a 1.6x increase compared to \$0.8 billion incurred in FY2013 (FY2013 Accounting Opex: \$0.7 billion). ■ Revenue - The 2012-15 Corporate Plan forecast revenue of \$18 million for Comparison to 2012-15 Corporate Plan FY2013 and \$120 million for FY2014. On a cumulative basis, revenue is \$80 million Life-to-date at 30 June 2014 versus the 2012-15 Corporate Plan forecast of \$140 million. ■ Capital Expenditure - The 2012-15 Corporate Plan forecast Capital Expenditure of \$3.2 billion in FY2013 and \$3.9 billion in FY2014. On a cumulative basis, Capital Expenditure is \$5.6 billion Life-to-date at 30 June 2014 versus the 2012-15 Corporate Plan forecast of \$8.5 billion. Operating Expenditure - The 2012-15 Corporate Plan forecast incurred Opex of \$1.1 billion for FY2013 and \$1.8 billion for FY2014. On a cumulative basis, incurred Opex is \$3 billion Life-to-date at 30 June 2014 versus the 2012-15 Corporate Plan forecast of \$3.7 billion (Cumulative Life-to-date Accounting Opex: \$2.7 billion). FY2015 Estimates Estimate of \$160 million Revenues (excluding interest income), which would represent an estimated cumulative Revenues (excluding interest income) Lifeto-date of \$240 million at 30 June 2015. Estimate of \$3.8 billion Capital Expenditure, which would represent an estimated cumulative Capital Expenditure Life-to-date of \$9.4 billion at 30 June 2015. Estimate of \$1.7 billion incurred Operating Expenditure, which would represent an estimated cumulative incurred Operating Expenditure of \$4.7 billion at 30 June 2015.

Source: NBN Co.

Note: Nominal Dollars. Operating Expenditure: costs incurred view. This differs from the accounting view, refer Glossary.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

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## 9.2 Major Corporate Plan Assumptions

A number of major assumptions have been used in preparing the 2014-17 Corporate Plan. Changes in relation to the assumptions outlined below could result in material deviations in terms of strategy, operations and financial outcomes.

Exhibit 9-2: Major Corporate Plan Assumptions

#### NBN Co assumes that the regulatory and policy environments will remain in line Regulatory and with the assumptions used for Scenario 6 (MTM). policy environments NBN Co is actively engaging with the Government, regulatory agencies and stakeholders in relation to potential policy decisions and regulatory changes that may flow from, in particular, the Vertigan Cost-Benefit Review. NBN Co assumes that it will be able to secure ownership and / or access to major Renegotiation of existing network assets and passive infrastructure that are necessary for the major implementation of the MTM deployment strategy (Copper and HFC Cable commercial Networks) on appropriate terms and within the envisaged timelines of the Scenario agreements 6 (MTM). NBN Co assumes that it will be able to enter into and / or re-negotiate contracts with contractors (Delivery Partners) and suppliers for the delivery of the MTM at scale, on appropriate terms and within the envisaged timelines of the Scenario 6 (MTM). Disconnection activity will not result in significant End-User events. Disconnection **Process** NBN Co assumes that the disconnection activities will ramp up at scale and be supported by initiatives to increase the volumes of connections and activations in line with the disconnection timeframes and to support release of new footprint during the course of FY2015. In addition, it is assumed that migration of legacy and voice services will take place in line with existing disconnection protocols and timeframes. NBN Co assumes it will be able to contract with sufficient Delivery Partners and / or **FTTP** rollout in suppliers on appropriate terms and within the envisaged timelines for scale FY2015 deployment and to ramp up connections and activations activities in FY2015, and those Delivery Partners and / or suppliers performing in accordance with the contracts. NBN Co assumes the implementation of the proposed changes to the construction delivery model in FY2015 will result in a closer alignment of FTTP deployment and FTTP connections activities in order to increase the serviceability level of premises. NBN Co assumes no future significant event or concerns relating to hazardous materials, such as asbestos containing materials. NBN Co assumes the Fixed Wireless rollout will be successful in achieving **Fixed Wireless** significant increases in deployment and connections activities in FY2015. and Satellite rollout NBN Co assumes that it will be able to purchase and / or secure access to spectrum on appropriate terms and within appropriate timeframes for the rollout of the Fixed Wireless network in areas where NBN Co currently does not have spectrum.

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	<ul> <li>NBN Co assumes that the two LTSS satellites will be successfully launched in CY2015, so as to increase satellite-based capacity and make available up to 25 Mbps AVC products for Premises qualifying for a satellite service.</li> </ul>
Products and Pricing under the MTM	■ NBN Co assumes that the product structure and pricing construct required for the MTM will support the agreed products roadmap, meet customer (Service Providers) and End-User expectations, and that they will be available on appropriate terms and within appropriate timeframes, including the required industry consultations and regulatory processes.
IT Systems and Security	<ul> <li>NBN Co assumes the development and integration of IT systems required for the MTM rollout and operation will be delivered on appropriate terms and within appropriate timeframes.</li> </ul>
	<ul> <li>NBN Co assumes no serious breach of security will affect its IT systems and processes.</li> </ul>
	NBN Co assumes no critical network or business disruption.
NBN Co	NBN Co assumes it will be able to attract and retain critical capabilities.
operations and organisation	<ul> <li>NBN Co assumes it will be able to effectively manage stakeholder relationships and contractual obligations.</li> </ul>
	<ul> <li>NBN Co assumes that organisational initiatives will support the Strategic Direction and enable the outcomes and decision points required in FY2015 for the FTTP, Fixed Wireless and Satellite rollouts, as well as the deployment of the MTM.</li> </ul>
	NBN Co assumes it will successfully deliver the transformation initiatives within appropriate timeframes in order to implement the Strategic Direction.
	NBN Co assumes no significant Health, Safety or Environmental incident.
Start of the MTM rollout	<ul> <li>NBN Co assumes that the learnings out of trials and build pilots will lead to the rollout of the MTM at scale. NBN Co assumes the MTM rollout will gather momentum during CY2015 and will begin at scale during FY2016.</li> </ul>
	■ This will require decisions having been made and implemented for the MTM network architecture, integrated planning approach and network design principles, including any industry and regulatory approvals.
	<ul> <li>Rollout progress will be contingent on the condition of the Copper and HFC Cable Networks with respect to their suitability for expected service levels and the associated total costs of ownership.</li> </ul>
	<ul> <li>This will also require delivery models in place for the design, construction, migration, and operations &amp; maintenance of the MTM networks.</li> </ul>
Funding	<ul> <li>NBN Co assumes that it will secure the level of debt funding necessary to conduct the full rollout of the NBN, in addition to the Government equity funding, on appropriate terms and within appropriate timeframes.</li> </ul>
	<ul> <li>This will require NBN Co engaging in debt raising activities towards the second half of this Corporate Plan period, e.g. CY2016 / CY2017.</li> </ul>
0 10110	

Source: NBN Co.

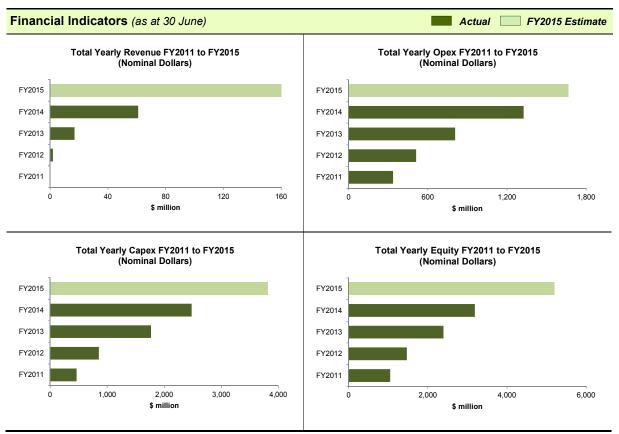
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#### 9.3 Financial Estimates for FY2015

NBN Co is currently transitioning into an MTM model as initiated by the Board and Management. There are a number of external dependencies and outcomes, including the policy setting (outcomes of the *Vertigan Cost-Benefit Review* and the *Scales Public Policy Review*), the negotiations with Telstra and Optus (including the timely satisfaction of all regulatory approvals), the ability to ramp up volumes and activations, and NBN Co's operational and organisational challenges, which, together or individually, may materially affect the financials for FY2015.

Further progress on the implementation of the new Strategic Direction will help inform NBN Co's operational targets and financial projections. Until then the FY2015 numbers represent NBN Co's best high-level estimates of the next 12 months.

Exhibit 9-3: Financial Indicators



Source: NBN Co.

Note: Yearly Incremental Amounts - Nominal Dollars. Operating Expenditure: costs incurred view. This differs from the accounting view, refer Glossary.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document.

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Exhibit 9-4: Summary Operational Metrics Classifications

(cumulative)	FY2012	FY2013	FY2014	FY2015
	Actual	Actual	Actual	Estimates
Premises Activated	13,536	70,100	210,628	481,000
Fixed Line Brownfields	3,364	20,441	105,211	310,000
Fixed Line Greenfields	503	13,145	45,916	75,000
Fixed Wireless	91	1,874	16,553	50,000
Interim Satellite	9,578	34,640	42,948	46,000
Premises or Lots Serviceable	87,253	227,075	552,618	1,033,000
Fixed Line Brownfields	26,205	107,791	281,294	590,000
Fixed Line Greenfields	4,163	44,028	111,116	165,000
Fixed Wireless	8,885	27,256	112,208	230,000
Interim Satellite*	48,000	48,000	48,000	48,000
Premises Activated as Percentage of Serviceable	16%	31%	38%	47%
Fixed Line Brownfields	13%	19%	37%	53%
Fixed Line Greenfields	12%	30%	41%	45%
Fixed Wireless	1%	7%	15%	22%
Interim Satellite*	20%	72%	89%	96%
Premises or Lots Ready for Service (RFS)			652,470	1,093,000
Fixed Line Brownfields	n/a	n/a	381,146	650,000
Fixed Line Greenfields	n/a	n/a	111,116	165,000
Fixed Wireless	n/a	n/a	112,208	230,000
Interim Satellite*	48,000	48,000	48,000	48,000
Premises or Lots Passed / Covered	95,799	282,799	694,088	1,168,000
Fixed Line Brownfields	28,860	163,515	422,764 <sup>41</sup>	725,000
Fixed Line Greenfields	10,054	44,028	111,116	165,000
Fixed Wireless	8,885	27,256	112,208	230,000
Interim Satellite*	48,000	48,000	48,000	48,000
Transit Network				
Number of Points of Interconnect (Pols)	9	64	116	121
Transit Network Fibre Rings	1	34	100	199

Source: NBN Co.

Note: The exhibit above and the discussion below may include estimates and projections. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and projections stated in this document

- 1) Fixed Line: Refers to Brownfields Premises plus Greenfields Premises / Lots.
- 2) Fixed Line Greenfields: Premises Passed may not equal Lots Passed depending on developer's timeframe to build.
- 3) **Premises Activated**: Refers to Premises which have an active service installed. Premises are activated after receiving and provisioning a service order from a Service Provider to install a service at the Premises.
- 4) Premises Serviceable: Refers to Premises Ready for Service minus Premises Non-Serviceable (Premises at Service Class 0).
- 5) Premises Ready for Service (Premises RFS): Refers to Premises that are part of FSAMs where 90% or more of Premises are passed, the Disconnection Commencement Date (DCD) and the Region Ready for Service Date (RRFSD) are achieved, and addresses are released to Service Providers. NBN Co has introduced the metric of Premises RFS commencing 1 April 2014 to align with recent Access Seeker communication to cease partial FSAMs release from 1 April 2014. Prior to 1 April 2014, Premises RFS equals Premises / Lots Passed (e.g. includes partial FSAMs where less than 90% of Premises are passed). Premises at Service Class 0 are included.
- 6) **Premises Passed**: Refers to Premises where the Local Network, Distribution Network and Transit Network are in place, and practical completion has been granted for the Fibre Distribution Area (**FDA**). Premises at Service Class 0 are included. Premises Passed is equal to the count of Premises RFS plus the count of Premises Passed within FSAMs that are less than 90% complete.
- 7) **Premises Covered**: Premises Covered refers to Fixed Wireless and Satellite areas where Premises have Fixed Wireless or Satellite coverage and can access a service via NBN Co's Service Providers, but where no physical infrastructure passes the Premises.
  - \*: The Interim Satellite Service Premises Covered figure reflects the new definition of Premises Covered of 48,000 vs. the 2012-15 Corporate Plan figure of 165,000 for FY2012 and 250,000 for FY2013 and FY2014.

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<sup>&</sup>lt;sup>41</sup> Agreement with TransAct represents approx. 7,800 Premises Passed in FY2014 included in the Fixed Line Brownfields numbers.

## 9.4 Financial Assumptions for FY2016 and FY2017

NBN Co is not in a position to generate forecasts with a reasonable level of confidence for FY2016 and FY2017.

Any operational and financial data for FY2016 and FY2017 are referred to as assumptions on possible outcomes, not as a forecast (FY2016-FY2017 Assumptions). For the purpose of this Plan, the FY2016-FY2017 Assumptions use the Strategic Reviews Scenario 6 - Multi-Technology Mix assumptions, pending further confirmation of these assumptions.

The MTM described in the Scenario 6 of the Strategic Reviews intends to minimise peak funding and optimise long term economics through the rollout of the MTM solution that delivers 50 Mbps download data rate to a high proportion of the Fixed Line footprint ( $\sim$ 90% by 2019, both broadband-served and - underserved). For the remaining  $\sim$ 10% of Premises not served with 50 Mbps download data rate by 2019, it seeks to serve those with 25 Mbps download data rate. Exhibit 9-5 provides a financial summary of Scenario 6 (MTM).

Exhibit 9-5: Financial Assumptions from Strategic Reviews Scenario 6 (MTM)

Financial Assumption	Financial Assumptions - Scenario 6 (MTM)							
(\$ bn - Nominal Dollars as	at 30 June)	FY2016 (Incremental)	FY2017 (Incremental)	FY2011 – FY2021 (Cumulative)				
Revenue <sup>1</sup>		0.9	1.6	~18				
Opex		2.3	4.1	~27				
Capex		5.8	5.0	~30				
(\$ bn - Nominal Dollars)	·			FY2011 – FY2021 (Cumulative)				
Equity Funding				29.5				
Net Debt Funding				~12				
Total Peak Funding <sup>2</sup> (Debt and Equity)				~41				
Total Peak Funding (All Equity)				~39				
Internal Rate of Return <sup>3</sup>	Revenue Traject	tory A		5.4%				
internal Rate of Return	Revenue Traject	tory B		3.2%				
Date of first positive free cashflows <sup>4</sup>				FY2022				

Source: Strategic Reviews Scenario 6 (MTM) which includes the Fixed Wireless and Satellite Review - May 2014.

Note: The exhibit above and the discussion below may include estimates and assumptions. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and assumptions stated in this document.

Notes: The numbers above are the Scenario 6 (MTM) sourced from the Strategic Reviews including Fixed Wireless and Satellite Review (May 2014) and are subject to finalisation of agreements with Telstra and Optus (including ACCC approval). The Scenario 6 (MTM) financial modelling has assumed for both scenarios that FTTdp and FTTP are available, and used, in order to increase the fraction of Premises attaining 25 Mbps or greater from 98% to ~100%.

The 2012-15 Corporate Plan included a 10% contingency on Capital Expenditure. The Scenario 6 (MTM) includes a 20% contingency.

1) Table 4-6 in the Strategic Review (December 2013) displayed the average range between the higher and lower case revenue estimates is ~\$300 million in cumulative revenues FY2011-FY2021. Revenue Trajectory A represents a telecommunications market without significant change, and includes real wholesale residential ARPU decline to NBN Co of 0.3% per annum. Revenue Trajectory B has lower NBN Co revenues even than Revenue Trajectory A. Revenue Trajectory B might result from a range of market changes. It includes real wholesale residential ARPU decline to NBN Co of 2.5% per annum.

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<sup>&</sup>lt;sup>42</sup> Refer footnote 15 above.

2) Total funding consists of equity funding plus net debt as at the end of the year for which total funding is at its peak. For the Scenario 6, equity funding is capped at \$29.5 billion in accordance with the Government's policy statement with any further funding requirements assumed to be met by debt funding.

- 3) The Internal Rate of Return includes an enterprise valuation in 2040 at 6x EBITDA. The outcomes of the *Vertigan Cost-Benefit Review* proposed by the Government may lead to different assumptions.
- 4) The year during which free cash flows become positive.

The MTM modelling gives priority in time to serving areas with poorer current broadband service. These areas have been modelled based on 8% to 10% of the Fixed Line footprint and additional costs have been estimated to allow for areas to be prioritised. It is assumed any prioritisation will take into account reasonable operational efficiency considerations, such as needing to rollout in contiguous work fronts and dealing with an area as a whole.

The MTM includes a 20% contingency on all Capital Expenditure. The contingency level is reflective of NBN Co being at an early stage of the MTM implementation and the Company's new Strategic Direction. It also reflects the inherent risk and complexity associated with projects of this size and scale and has been informed by infrastructure and global experience.

### 9.5 Funding

#### 9.5.1 The Amended Agreement Equity Funding Agreement

NBN Co has been funded by successive equity injections from the Commonwealth totalling \$8.4 billion in FY2014, including \$2.4 billion in FY2013, and \$3.2 billion in FY2014. It is expected that NBN Co will continue to be funded with Commonwealth equity until NBN Co has sufficient cash flows and a sufficient track record to support private sector debt. It is assumed that NBN Co will start to raise private sector debt to complement Commonwealth equity during the rollout period.

NBN Co's equity funding arrangements are governed by the Amendment Agreement – Equity Funding Agreement (**EFA**) dated 19 March 2014 between NBN Co and the Commonwealth. The EFA amended and restated the earlier EFA dated 22 June 2011. The EFA formalises the Commonwealth's commitment to provide equity to a funding cap of \$29.5 billion. This agreement provides NBN Co with the confidence and the financial stability required for entering long-term commercial contracts needed to achieve the Commonwealth's policy objectives set out in the Statement of Expectations and as supplemented by the Government from time to time.

#### 9.5.2 Indicative Equity Funding Profile

NBN Co's indicative equity funding profile set out in Exhibit 9-6 below is based on the funding assumptions taken from Scenario 6 (MTM) in the December 2013 Strategic Review. The indicative profile has been adjusted for FY2014 actuals; and reduced cash balances to reflect recently agreed amendments to the Equity Funding Agreement.

The combined impact of the above two factors has been to reduce the forecast equity funding requirement for FY2014 from \$4 billion in the Strategic Review to \$3.2 billion, and to reduce the FY2015 estimated equity requirement from \$6.3 billion to \$5.2 billion.

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Exhibit 9-6: Equity Funding Profile - December 2013 Strategic Review Scenario 6 (MTM) and NBN Co Indicative Profile

Equity Funding (\$ billions)	Strategic R	eview (MTM)	Indicativ	e Profile
(as at 30 June 2014)	Incremental	Cumulative	Incremental	Cumulative
FY2010 - FY2013	5.228	5.228	5.228	5.228
FY2014	4.043	9.271	3.190	8.418
FY2015 (Estimate)	6.3	15.6	5.2	13.6
FY2016 (Assumptions)	6.4	21.9	6.4	20.0
FY2017-FY2018 (Assumptions)	7.6	29.5	9.5	29.5

Source: NBN Co.

Note: The exhibit and discussion above may include estimates and assumptions. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and assumptions stated in this document.

Note: Strategic Review in exhibit above refers to Scenario 6 (MTM) December 2013.

#### 9.5.3 NBN Co's Ability to Raise Debt

Critical to NBN Co's ability to raise external funding without explicit support by the Commonwealth will be the opinions of debt providers on NBN Co's performance in achieving major Corporate Plan targets such as rollout timeliness, connections take-up and cost discipline, which will form the main metrics of credit quality.

Since the publication of 2012-15 Corporate Plan, NBN Co has continued to review its debt funding assumptions and to hold discussions with a number of major domestic and international financial institutions to assess NBN Co's future debt funding options. Market capacity, and the risk appetite of debt investors from time to time, may limit or increase the amount of debt that NBN Co can actually raise. Any such variation would require revision of the funding plan and may require a different level of Government equity than the one which has been projected in the Scenario 6 (MTM) of the Strategic Review and the NBN Co Indicative Profile.

Exhibit 9-7: Debt Funding Profile - December 2013 Strategic Review Scenario 6 (MTM) and NBN Co Indicative Profile.

Debt Funding (\$ billions)	Strategic Review (MTM) – Net Debt		Indicative Profile – Net Debt		Indicative Profile – Gross Debt	
(as at 30 June)	Incremental	Cumulative	Incremental	Cumulative	Incremental	Cumulative
FY2010 - FY2017 (Assumptions)	0	0	0	0	0	0
FY2018 (Assumptions)	2.6	2.6	1.7	1.7	2.5	2.5
FY2019 (Assumptions)	4.5	7.0	4.4	6.2	4.2	6.6
FY2020 (Assumptions)	2.8	9.8	2.8	8.9	2.7	9.3
FY2021 (Assumptions)	1.6	11.5	2.5	11.5	2.2	11.6

Source: NBN Co.

Note: The exhibit and discussion above may include estimates and assumptions. Please refer to NBN Co's Legal Notice on Page 4 of the 2014-17 Corporate Plan for information about estimates and assumptions stated in this document.

Note: Strategic Review in exhibit above refers to Scenario 6 (MTM) December 2013.

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## 10 Risks

## 10.1 NBN Co's Risk Management Framework

NBN Co's Board and Management are committed to implementing and operating a robust risk management framework to allow for the proactive identification, assessment and management of material risks. The formal *Risk Management Policy* articulates the company's objectives, approach and responsibilities with regard to risk management. That policy takes an Enterprise Risk management approach. NBN Co's Enterprise Risk management approach is based upon the "Three Lines of Defence" model:

- **First Line of Defence** Business functions that own and manage operational risk are responsible for the implementation of corrective actions to address process and control deficiencies. The business functions are responsible for operating controls and maintaining the Granular Risk register.
- Second Line of Defence Functions that oversee and monitor the implementation and effectiveness of risk management. Second line functions assist risk owners in defining target risk exposure, providing insights, and monitoring various compliance requirements. The Corporate Risk Team, as a key second line function, is responsible for managing the Enterprise Risk register, identifying and monitoring Strategic Risks, reporting results to the Board, Audit and Risk Committee and the Executive Committee.
- Third Line of Defence Functions that independently challenge and provide assurance of risk. Examples of third line functions include Internal Audit and External Audit.

NBN Co categorises risk across three tiers:

- Granular Risks Risks relating to an activity at a procedural or operational level which impacts on the ability of a business function to meet their objective/s.
- Enterprise Risks Risks represented at a business function level which impacts on the ability of the function to meet its strategic, financial, operational, and reputational or safety objectives. This includes risks at a granular level that are so significant that they also impact the Enterprise wide objectives, or a risk which affects a number of different business areas and therefore poses a risk to the wider organisation. Enterprise Risks represent an aggregated view of Granular Risks.
- Strategic Risks Risks which impact the ability of NBN Co to deliver this Corporate Plan at a strategic level. Strategic Risks represent an aggregated view of Enterprise Risks.

The major responsibilities for risk management and reporting are shown in Exhibit 10-1.

Exhibit 10-1: Major responsibilities for risk management and reporting

Role	Responsibility
Board	Managing and ensuring effective risk management practices are in place across the organisation, assisted by the Audit and Risk Committee.
CEO	Advising the Board of changing circumstances, risk management issues and leading the Company in developing a risk aware culture.
Executive Committee	Overall responsibility for driving a risk aware culture, identifying risks and owning the delivery of mitigation strategies across the organisation.
Chief Financial Officer	Executive accountable for enabling the efficient and effective governance of risk and assurance activities within the organisation.
Corporate Risk Team	Development and delivery of the Enterprise Risk Framework (strategy, methodology, technology, tools and training) and the cross company risk reporting of Strategic and Enterprise Risks.
Business Process Owner	Ratifying the accuracy and completeness of respective Granular Risks and reporting to the Corporate Risk Team.
Risk Representatives	Primary agent of risk management at an operational level and custodian of the Granular Risk Register.
Employees, Consultants and Contractors	All staff are responsible for complying with the Risk Management Policy and associated framework/s. For example, reporting risk events, participating in risk workshops and escalating potential risks to Risk Representatives.

Source: NBN Co.

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# 10.2 Strategic Risks

The NBN Co Board and Management have identified the following major Strategic Risks to achieving the 2014-17 Corporate Plan objectives:

- Unfavourable policy or regulatory environment in relation to the NBN.
- Ability to scale End-User connection processes to support product delivery.
- Significant Health, Safety or Environmental incident.
- Ability to scale systems and processes to meet anticipated increase in activity.
- Challenges in implementing the MTM model to achieve expected benefits.
- Failure to renegotiate Telstra and Optus deals on appropriate terms and within appropriate timeframes.

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# 11 Appendix

# 11.1 Glossary of Terms

Abbreviation	Definitions				
ABS	Australian Bureau of Statistics.				
ACCC	Australian Competition and Consumer Commission.				
Access Aggregation Region (AAR)	The area served by a Point of Interconnect (PoI) located in an Aggregation Node (AN) and connected via Transit Fibre to regional Fibre Access Node (FAN) sites.				
Access Seeker	customer acquiring NBN Co wholesale services with the intention to supply broadband services to Services or End-Users.				
Access Technology	The technology used by NBN Co to deliver the NBN from the exchange location to the network distribution point.				
Access Virtual Circuit (AVC)	The bandwidth allocated to the End-User Premises.				
Activation works	The activities required to activate End-User Premises. For Fibre-to-the-Premises, this typically requires a truck roll to install NBN Co's active equipment (referred to as the Network Termination Device (NTD)). The NTD is typically installed inside the Premises at the time of an order.				
Aggregation Node (AN)	A facility that provides a Point of Interconnect ( <b>Pol</b> ) to RSPs / WSPs for an Access Aggregation Region ( <b>AAR</b> ), comprising a number of regional Fibre Access Nodes ( <b>FANs</b> ) sites. Note that an AN will also typically have a colocated FAN site for its local area.				
April 2014 Statement of Expectations	Letter to NBN Co from its Shareholder Ministers dated 08 April 2014. See: http://www.communications.gov.au/data/assets/pdf_file/0014/221162/SOE_Shareholder_Minister_letter.pdf				
Asymmetric Digital Subscriber Line (ADSL)	A technology for delivering high-speed data transmission over a copper phone line. Provides different downstream (network to End-User) and upstream (End-User to network) bandwidth.				
Average Revenue Per User (ARPU)	Calculations include all telecommunications revenue generated including AVC, CVC and NNI products.				
Brownfields	Pre-existing Premises.				
Business Support System (BSS)	The set of systems that will provide NBN Co with the capabilities to manage, take orders, process bills and collect payments.				
Business-to-Business (B2B)	Commerce transactions between businesses.				
Drop (also commonly referred to as a Lead-in)	The connection from the street to a termination point at the Premises. Typically for the Fibre-To-The-Premises Access Technology, the Drop is from a Network Access Point (NAP) located inside a pit, manhole, or on a pole, to a passive termination point located inside the property boundary and called the Premises Connection Device (PCD). The PCD is typically located inside the property boundary of the Premises but outside of the Premises, e.g. on the wall of the Premises or near the Premises.				
Build Drop	Where the connection from the street (typically from a Network Access Point (NAP) located inside a pit, manhole, or on a pole) to the Premises (typically to a passive termination point located inside the property boundary and called the Premises Connection Device (PCD)) is carried out when the Local Network and Distribution Network (LNDN) of the Fibre Network are being built. The PCD is typically located inside the property boundary of the Premises but outside of the Premises, e.g. on the wall of the Premises or near the Premises.  Build Drops are being installed ahead of a Service Provider asking for an End-User Connection so as to minimise Activations works required at the time of the order and reduce the time it takes to process an Activation order.				
Bulk Drop	Where the connection from the street (from a pit, manhole, or pole) to the Premises is carried out after the Local Network and Distribution Network of the Fibre Network are built but under a Build Drop approach, e.g. ahead of a Service Provider request for an End-User Connection so as to minimise Activations works required at the time of the order and reduce the time it takes to process an Activation order.				
Capital Expenditure (Capex)	The cost of purchasing tangible and intangible assets.				
ссо	Chief Customer Office.				
Common Network Infrastructure (CNI)	Network infrastructure installed at NBN Co FAN, Pol and other Transit Network sites.				
Complex Premises	Premises categorised as requiring bespoke engagement, cabling or project management, these include Premises				

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	such as offices and apartment blocks.					
Connectivity Serving Area (CSA)	A logical collection of End-User Premises defined by NBN Co. Each CSA has approximately the same number of End-User Premises.					
Connectivity Virtual Circuit (CVC)	Determines the capacity required to serve each CSA. The CVC is an aggregation of the AVCs from the End-User Premises back to the Pol.					
coo	Chief Operating Office.					
CSAM	Copper Service Area Modules.					
Copper Network	Telstra's copper-based customer access network, which is used to deliver standard voice telephony and broadbar services.					
Customer Engagement Metric (CEM)	Scoring from 1-10 given to NBN Co by its Customers.					
Customer	A customer to NBN Co also defined as an Access Seeker or a Service Provider.					
CY20XX	Calendar year ending 31 December 20XX.					
Dark Fibre	Optical fibre with no active electronics attached.					
Data Over Cable Service Interface Specification (DOCSIS)	A telecommunications standard that permits the addition of high-speed data transfer and internet access through HFC infrastructure.					
Delivery Partner	A third party involved in the build of the NBN. A Delivery Partner is a contractor, which has a contract with NBN Conformed the delivery of a certain amount of work / activities in relation to the build and operation of the NBN.					
Demand Drop	Where the connection from the street (from a pit, manhole, or pole) to the Premises is carried out at the time or order for a service being received by NBN Co from a Service Provider.					
Digital Subscriber Line Access Multiplexer (DSLAM)	Network device normally located in telephone exchanges providing multiple ports connecting End-User copper lines for the provision of DSL broadband service.					
Disconnection Commencement Date (DCD)	Start date to the disconnection process which involves a disconnection order and permanent disconnection of legacy services.					
Disconnection Date (DD)	Except in limited circumstances, the date falling 18 months after a Rollout Region is declared Ready for Servic This is intended to refer to the original date for managed and permanent disconnection for the relevant region.					
Distribution Fibre	Connection between the Fibre Distribution Hub (FDH) and the FAN, for both Regional FANs and the Metropolit FANs, as well as the connectivity between the non-adjacent Fibre Serving Area Modules in the Capital Cities at the Metropolitan FANs. Distribution Fibre routes are designed in a ring structure to minimise the impact of any fill break on consumer services as well as providing diverse paths for protected commercial point to point services.					
Distribution Network	The part of the network that connects the FAN to the FDH.					
DSL	Digital Subscriber Line. A family of technologies that deliver high-speed data transmission over a copper phone line					
Duct	A tubular structure usually underground used to house communications cables and equipment.					
ЕВА	Enterprise Bargaining Agreements. EBAs are agreements made at an enterprise level between employers and employees (or their union representatives) about terms and conditions of employment.					
EBITDA	Earnings Before Interest, Taxes, Depreciation and Amortisation.					
End-User	Final downstream customer to NBN Co's Service Providers.					
Equity Funding Agreement (EFA)	In consideration of the Company implementing the NBN policy initiative as described in the Statement of Expectations, the Commonwealth will provide equity funding to the Company on the basis of the Amendmen Agreement – Equity Funding Agreement dated 19 March 2014 between NBN Co and the Commonwealth.					
Exchange Building	A building (or any part of a building) owned or leased by, or licensed to, Telstra or a related entity of Telstra that houses telecommunications equipment or a particular building or enclosure nominated by Telstra as an Exchange Building.					
Exchange Rack Space	A rack space in an Exchange Building.					
Fibre Access Node (FAN)	A facility that houses the active equipment providing services to a Fibre Serving Area (FSA).					
Fibre Distribution Area (FDA)	The geographic area served via a single Fibre Distribution Hub (FDH) which connects addresses to the serving FAN site(s) via Local Fibre. Typically serving up to 200 Premises.					

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Fibre Distribution Hub (FDH)	The equipment located in a Fibre Distribution Area where Distribution Fibre is split to provide Local Fibre that runs down each street.
Fibre Footprint	The Premises that will be serviceable by NBN Co's FTTP network by the end of the Rollout Period.
Fibre Network, also defined as NBN Co Fibre Network or the FTTP Network	NBN Co's optical fibre telecommunications network that is owned or controlled by NBN Co and which has been accepted into service, ready for the provision of commercial (non-trial) NBN services. NBN Co's Fibre Network is based on GPON architecture.
Fibre Serving Area (FSA)	The area served by a FAN site, which for the regional areas will be a cluster of FDAs and for the 16 city metropolitan locations will be a cluster of FSA Modules. The FDAs and FSA Modules will be connected via Distribution Fibre.
Fibre Serving Area Module (FSAM)	A series of up to 16 FDAs linked in a double loop configuration. Typically, a single fibre sheath will connect the FSAM and its (up to 16) FDHs back to a nominated Fibre Access Node (FAN). An FSAM may be a small town or a part suburb in the case of large cities. The number of Premises contained in an FSAM is typically between 2,000 – 3,000, depending on location and network planning / topology.
Fibre to the Premises (FTTP)	Network design in which the Fibre Network is deployed to each Premises. It involves connecting homes and businesses with an optical fibre cable which can be used to provide a range of high speed broadband services and phone services.
Fibre-To-The-Basement (FTTB)	Network design in which the Fibre Network is deployed to the basement of a building.
Fibre-To-The-Distribution Point (FTTdp)	Network design in which the Fibre Network is deployed to a distribution point near the Premises.
Fibre-To-The-Node (FTTN)	Network design in which the Fibre Network is deployed to the node (i.e. a VDSL cabinet), while copper lines are used for the connection between the node and the Premises.
Fibre-To-The-x (FTTx)	Fibre to the x (FTTx) is a generic term for any broadband network architecture using optical fibre to replace all or part of the usual metal local loop used for last mile telecommunications. The generic term was initially a generalisation for several configurations of fibre deployment (FTTN, FTTC, FTTB, FTTH), all starting with 'FTT' but differentiated by the last letter, which is substituted by an x in the generalisation.
Fixed Line (FL)	Delivery of voice, data and broadband services over a physical line from the exchange location to the End-User Premises (with termination at that Premises).
Fixed Line Brownfields	NBN Co's Fixed Line footprint of Brownfields Premises.
Fixed Line Greenfields	NBN Co's Fixed Line footprint of Greenfields Premises.
Fixed Wireless	Network design in which network connections are provided through radio signals.
FSC	Federal Safety Commissioner.
FY20XX	The financial year ending 30 June 20XX.
Geocoded National Address File (GNAF)	GNAF® information is provided by PSMA Australia Limited ( <b>PSMA</b> ). GNAF® lists all valid physical addresses in Australia. It contains approximately 12.6 million physical addresses, each linked to its unique geocode (that is, the specific latitude and longitude of the address). Data used to build GNAF® comes from contributors that include the Australian Electoral Commission, Australia Post, state, territory and Australian Government mapping agencies and land registries. GNAF® is provided by PSMA.
Gigabit-Capable Passive Optical Network (GPON)	A point to multi-point Fibre-to-the-Premises Network architecture that uses combination of electronics network and passive optical splitters to deliver speeds up to 1,000 Mbps to End-Users.  The GPON active layer technology uses electronics that are designed to be compatible with a fibre that is subsequently split into multiple downstream fibres.
Government	Reference to the Commonwealth or Cth is used interchangeably with Government.
Government Business Enterprise (GBE)	Commonwealth authority or Commonwealth company as defined by the Commonwealth Authorities and Companies Act 1997 (Cth) (CAC Act) and prescribed as a GBE under the Commonwealth Authorities and Companies Regulations 1997 (Cth) (CAC Regulations).
Greenfields	A new development that can be either New Developments or Infills. Greenfields developments represent the growth of the Premises market.
Health, Safety & Environment (HSE)	The activities responsible for establishing and maintaining policies regarding employee health, safety and environment issues.
Hybrid Fibre Coaxial (HFC) Cable Networks	Networks utilising both optical fibre and coaxial cable for the delivery of Pay TV, internet and voice services.

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	planned to be built on currently developed land that is surrounded by established areas, where Telstra copper services are currently available.
Interim Satellite Service (ISS)	NBN Co's Interim Satellite Service was launched on 1 July 2011 to provide access to broadband services to people in homes, small businesses and indigenous communities in some of the most remote areas of Australia. The Interim Satellite Service is a temporary measure until NBN Co launches its own Long Term Satellite Service scheduled for 2015.
Internal Rate of Return (IRR)	The average annual total return from an investment over a specified time period, used to measure and compare the profitability of the investment.
Ka-band	Satellite radio frequency spectrum from 27 – 40 GHz.
Key Performance Indicator (KPI)	A metric used to measure the progress or degree of fulfilment of a particular success criterion.
Kilobits per second (Kbps)	A unit of measurement of transmission speed. One Kilobit Per Second is equal to 1,024 bits per second.
Layer 2 Network / Wholesale Services	The transmission layer that encodes and decodes information bits across layer 1 infrastructure. Layer 2 is the active layer of an optical fibre network.
Lead in Conduit (LIC)	A lead-in conduit is the pipe or conduit carrying the lead-in cable between the End-User's Premises and nearest pit, manhole or pole.
Line Sharing Service (LSS)	Enables telecom operators to use the high frequency part of the phone line to provide ADSL2+ using their own equipment, while Telstra still provides the normal voice service.
Local Network	The part of the network from the Fibre Distribution Hub down each street.
Long Term Satellite Service (LTSS)	NBN Co launched satellites which will provide broadband service to Australia in predominantly rural locations.
Lots Passed	Premises Passed may not equal Lots Passed depending on developer's timeframe to build.  In New Development estates, NBN Co may be deploying FTTP infrastructure and pass Lots ahead of the Premises being built in that estate, depending on the developer's timeframe to build.
LTI	Lost Time Injuries.
Megabits Per Second (Mbps)	A unit of measurement of transmission speeds. One Megabit Per Second is equal to 1,000 kbps. X / Y Mbps means a maximum downstream speed of X Mbps and a maximum upstream speed of Y Mbps.
мтм	Multi-Technology Mix.
Multiple-Dwelling Unit (MDU)	Premises that contains more than one dwelling unit, which can range from duplexes to 200+ unit apartment blocks. Each dwelling unit is assumed as equivalent to one GNAF (e.g. a 50 unit apartment block will have 50 GNAFs). MDUs come in a variety of formats and may include vertical buildings, horizontal buildings, gated communities, business parks, etc.
MDU Drop	The activities required to connect an End-User Premises located in a Multi-Dwelling Unit. This typically requires a drop from a pit, manhole or pole to the basement of the building and all the activities required to go from the basement of the building to the termination point closest to the outside of the tenancy.
National Broadband Network (NBN)	The nation-wide broadband network that will be deployed by NBN Co and third parties engaged on behalf of NBN Co.
NBN Co	NBN Co Limited.
Network Access Points (NAP)	The point at which Drop Fibre is connected to Local Fibre.
Network and Service Operations Centre (NSOC)	Facility overseeing management and operation of the network infrastructure.
Network Termination Device (NTD)	NBN Co's termination point on each premise, for residential fibre services (typically) featuring 4 Ethernet and 2 telephone interfaces.
Network-to-Network Interface (NNI)	The port at NBN Co's Point of Interconnect (PoI) where Service Providers connect their internet transmission backhaul.
New Developments (Greenfields Estates)	A New Development is defined as an estate that complies with the New Development Policy statements released by the Government.  New Developments includes commercial, industrial and residential estates comprising of more than 100 lots with development approval to be released within a 3 year period located in NBN Co's long term Fibre Footprint. For the role of NBN Co with regards to Greenfields developments, refer to the appropriate policy as befitting the circumstance. <a href="http://www.nbnco.com.au/industry/new-developments.html">http://www.nbnco.com.au/industry/new-developments.html</a>

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Operating Expenditure (Opex)	The ongoing cost of running a business, system or product, including payments under lease agreements. For the purpose of the Corporate Plan, Operating Expenditure includes all nominal payments, such as nominal payments under finance lease agreements. This nominal view of costs incurred may differ from the accounting treatment under statutory accounting rules.
Operational Support Systems (OSS)	The set of systems that will provide NBN Co with the capabilities to provision, configure, manage, and operate the NBN.
Optical Line Terminal (OLT)	The equipment to provide the GPON signals to each of the FDAs.
Optus HFC Agreement	The agreement between NBN Co and Singtel Optus Pty Ltd and other Optus entities (Optus) which was executed on 23 June 2011. The Optus HFC Agreement provides for the progressive migration of Optus HFC subscribers to the NBN as it is rolled out. NBN Co has agreed to make progressive payments to Optus, based on the number of Optus subscribers that migrate from its HFC Cable Network.
Point of Interconnect (Pol)	The connection point that allows RSPs and WSPs to connect to the NBN Co access capability. In the field, this is the physical port on the Ethernet Fanout Switch (EFS) switch located at NBN Co's Pol, where an Access Seeker connects to establish exchange of traffic with NBN Co's network.
PON	Please refer to Gigabit-Capable Passive Optical Network (GPON).
Premises	Premises are defined as addressable locations which NBN Co is required to connect and are included at Attachment A – <i>Premises Definition</i> , of the December 2010 Statement of Expectations. The Statement of Expectations refers to this definition as the basis for measuring NBN Co's achievement of the Government's coverage objectives.
Premises Activated	Refers to Premises which have an active service installed. Premises are activated after receiving and provisioning a service order from a Retail Service Provider (Service Provider) to install a new service at the Premises.
Premises Connection Device (PCD)	Typically the termination point of the Drop for the Fibre-To-The-Premises Access Technology.
Premises Covered	Premises Covered refers to Fixed Wireless and Satellite areas where Premises have Fixed Wireless or Satellite coverage and can access a service via NBN Co's Service Providers, but where no physical infrastructure passes the Premises.
Premises Passed	Premises Passed count includes Premises where the Local Network, Distribution Network and Transit Network are in place, and practical completion has been granted for the Fibre Distribution Area (FDA).  Premises at Service Class 0 are included.  Premises Passed is equal to the count of Premises RFS plus the count of Premises Passed within FSAMs that are less than 90% complete.
Premises Ready for Service (Premises RFS)	Premises included are part of FSAMs where 90% or more of Premises are Passed, and the Disconnection Commencement Date ( <b>DCD</b> ) and the Region Ready for Commencement Date ( <b>RRFSD</b> ) are achieved with addresses released to NBN Co's Service Providers through NBN Co's portal. Premises at Service Class 0 are included.
Premises Serviceable	Premises Passed by the NBN Fibre Network that NBN Co has determined are serviceable by the NBN Fibre Network, as shown in the NBN Co Service Class qualification system.  For the purpose of the 2014-17 Corporate Plan this means Premises Ready for Service minus Premises Non-Serviceable (Premises at Service Class 0).
Premises Non-Serviceable	Premises Passed by the NBN Fibre Network that NBN Co has determined are non-serviceable by the NBN Fibre Network, as shown in the NBN Co service qualification system.  For the purpose of the 2014-17 Corporate Plan this means Premises at Service Class 0.
Product Development Forum	See http://www.nbnco.com.au/industry/service-providers/industry-consultation/product-development-forum.html
PSMA - Australia	Public Sector Mapping Agencies – Australia.
Ready for Service (RFS)	A Rollout Region is Ready for Service when NBN Co is ready to begin connecting Premises in that Rollout Region to the NBN Fibre Network, which is when the NBN Fibre Network has passed at least 90% of the premises in the NBN Fibre Footprint in that Rollout Region.
Region Ready for Service Date (RRFSD)	Date the entire region or FSAM is declared RFS.
Regional Backhaul Blackspots Programme (RBBP)	An initiative of Department of Broadband, Communications and the Digital Economy (now Department of Communications), as part of the NBN, which is investing up to \$250 million to immediately address areas where existing backhaul does not provide broadband access throughout regional Australia.
Retail Service Provider (RSP)	A third party provider of retail broadband services to End–Users.
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	(FSAM).
Ocales Bullis Balles Bardens	
Scales Public Policy Review	Means the independent audit of the NBN public policy process that resulted in the establishment of NBN Co.
Service Class (SC)	Means the classification under the WBA (for the purposes of determining whether it is ready to be connected to the NBN) of a Premises according to the status of the physical infrastructure applicable to that Premises, and consists of the following types: Service Class 0 (SC0), Service Class 1 (SC1), Service Class (SC2), Service Class 3 (SC3), Service Class 4 (SC4), Service Class (SC5) and Service Class 6 (SC6), which are each defined in the WBA Dictionary at http://www.nbnco.com.au/content/dam/nbnco/documents/sfaa-wba2-dictionary_20140430.pdf
Service Class 0	Category given to a Premises that is in the NBN Co Fibre Network footprint but which cannot presently be provided with an NBN fibre service and is further defined in the WBA Dictionary at: http://www.nbnco.com.au/content/dam/nbnco/documents/sfaa-wba2-dictionary_20140430.pdf
Service Providers	A third party provider of broadband services whether to End-Users and/or Retail Service Providers (See also Retail Service Providers and Wholesale Service Providers).
Single Dwelling Unit (SDU)	Premises that contain only one dwelling unit. One SDU is equivalent to one GNAF.
Special Access Undertaking (SAU)	The part of the regulatory framework that governs the prices NBN Co, as a wholesale open access telecommunications network, can charge for the services it supplies to retail telecommunications companies, as well as other terms.
Special Services	Particular types of services as defined in the Telstra DAs which are provided over the Copper Network and which may not be disconnected on the Disconnection Date for a Rollout Region. A separate regime (with a different timeframe for disconnection) applies to disconnection of special services provided over the Copper Network. Disconnection protocols have been agreed to govern this.
Statement of Expectations (SoE)	Letter to NBN Co from its Shareholder Ministers dated 08 April 2014. See: http://www.communications.gov.au/data/assets/pdf_file/0014/221162/SOE_Shareholder_Minister_letter.pdf
Strategic Reviews	Includes the December 2013 Strategic Review and the May 2014 Fixed Wireless and Satellite Strategic Review.
Telstra Definitive Agreements or Telstra DAs	The suite of agreements entered into between NBN Co and Telstra on 23 June 2011 and which are described in the release issued by Telstra to the ASX on that day.
Transit Fibre	Connection between Pols where Service Providers connect to the NBN, and the regional based FANs. Transit Fibre can also provide connectivity for the Metropolitan FANs to Pols if required.
Transit Network	The fibre rings which connect the regional FAN sites and the nearest Pol, served by Transit Fibre.
Transit Rings	A grouping of Dark Fibre Links and Exchange Rack Spaces that are identified as being part of the same transit ring in the Initial Rollout Plan or any subsequent rollout plan agreed under the Telstra Infrastructure Services Agreement. This grouping is based on the design of NBN Co's Transit Network, which typically involves a series of related Dark Fibre Links and Equipment Rack Spaces forming all or part of a ring-like pattern.
Unconditional Local Loop Service (ULLS)	Use of unconditioned communications wire between the boundaries of a telecommunications network at an End-User's Premises and a point on a telecommunications network that is a potential point of interconnection located at or associated with a customer access module and located on the End-User side of the customer access module.
User Network Interface (UNI)	The physical port on the NBN Co NTD at the End-User Premises which connects the End-User's residential gateway or Ethernet enabled device to the NBN which could be either a UNI-D (User Network Interface – Data) or UNI-V (User Network Interface – Voice).
VDSL	Very-High-Bit-Rate Digital Subscriber Line.
Vertigan Cost-Benefit Review	Means the cost-benefit analysis and review of the regulatory arrangements for the NBN being conducted by the panel comprising Dr Michael Vertigan AC, Ms Alison Deans, Professor Henry Ergas and Mr Tony Shaw PSM.
Wholesale Broadband Agreement (WBA)	A document which sets out the terms and conditions of access to NBN Co's services and products. The WBA constitutes a standard form of access agreement for the purposes of the <i>Division 6A of Part XIC of the Competition and Consumer Act 2010 (Cth) (CCA)</i> .
Wholesale Service Provider (WSP)	A provider of wholesale services to Service Providers.
Work Health & Safety (WHS)	A discipline concerned with protecting the safety, health and welfare of people engaged in work or employment.

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