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Miscellaneous

* Asterisks denote mandatory information

Name of Announcer *	SINGTEL
Company Registration No.	199201624D
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Announcement is submitted with respect to *	SINGTEL
Announcement is submitted by *	Chan Su Shan (Ms)
Designation *	Company Secretary
Date & Time of Broadcast	20-May-2013 07:48:26
Announcement No.	00014

>> Announcement Details

The details of the announcement start here ...

Announcement Title * Presentation by Optus on The Optus Network Today, Tomorrow and Beyond

Description

Attachments NetworkUpdate-presentation-May2013.pdf

Total size = **1657K**
(2048K size limit recommended)

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The Optus Network Today, Tomorrow and Beyond

May 20th 2013

Guenther Ottendorfer, Managing Director of Networks
Andrew Smith, Vice President – Mobile Radio Engineering

Today

Agenda

The Optus Network:

Today

Tomorrow

Beyond

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The Optus Network today

Enhanced 3G coverage from coast to coast with upgrades to over 4,000 sites across the country.

Expanded our 4G network in Sydney, Melbourne, Perth, Brisbane, Adelaide, the Gold Coast, Sunshine Coast, Coffs Harbour, Byron Bay, Toowoomba, and the Newcastle/Hunter regions.

VIVIDWIRELESS

Acquired Vivid Wireless positioning us to offer the highest capacity 4G network in Australia.

Led the project that delivered coverage in hard to reach places like our Sydney City Rail Tunnels project.

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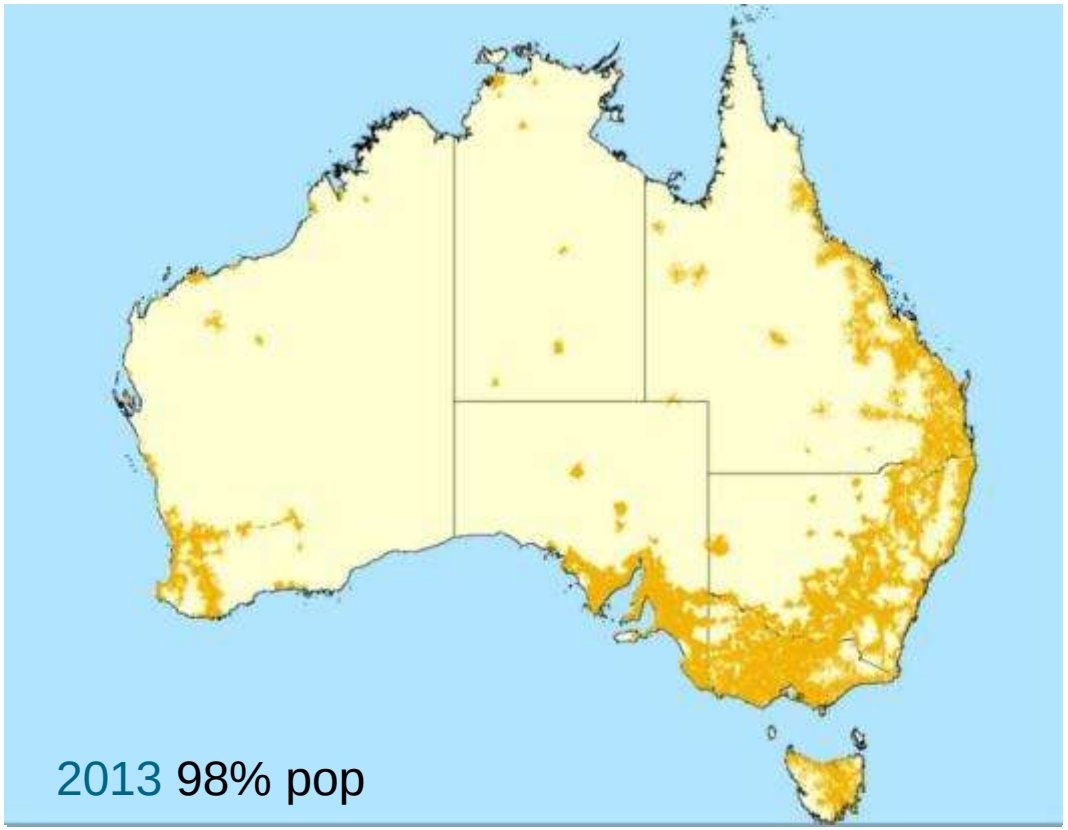
'yes' OPTUS

Today

We enhanced 3G coverage from coast to coast



Like for Like: 98.5%

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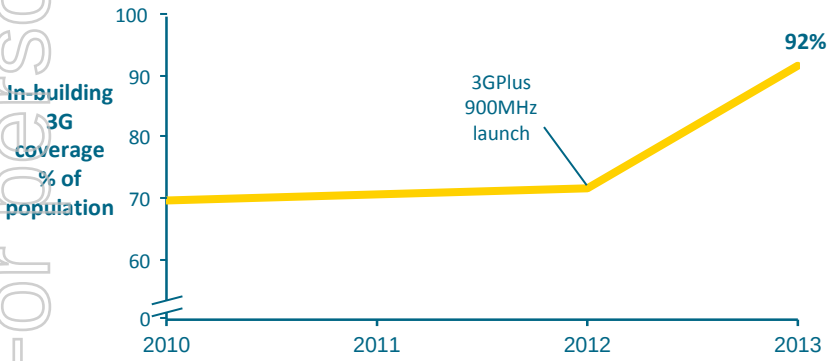
Today

We're nearing the finish line on 3GPlus

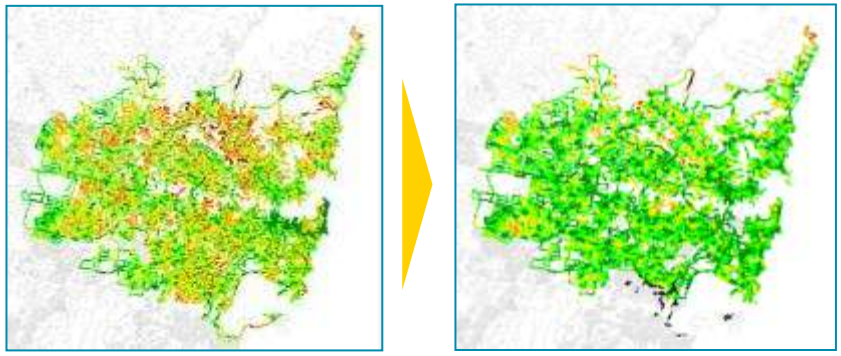
Our 3GPlus program in FY12 delivered a significant lift in coverage and data performance. Customers have benefited from:

1. Increased depth of 3G coverage
2. More time connected to 3G
3. Better calling, browsing and streaming

3GPlus - more signal in more places



3G coverage depth in Sydney – pre vs. post 3GPlus



Before

After

Source : Sydney – pre/post U900 Drives Aug12

Signal

Excellent

Good

Average

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Today

Optus had an incredible 4G race last year

Optus announces 4G September 2011

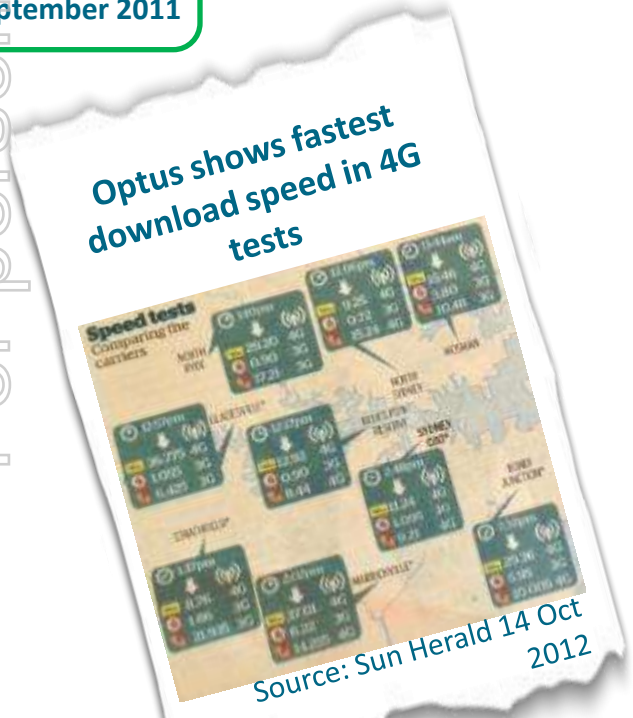
Newcastle/ Hunter region April 2012 ✓

Sydney & Perth July 2012 ✓

Melbourne Sept 2012 ✓

Brisbane CBD Dec 2012 ✓

Adelaide CBD Dec 2012 ✓



Nov 12
Quad Core
Android Handsets
Better Battery Life

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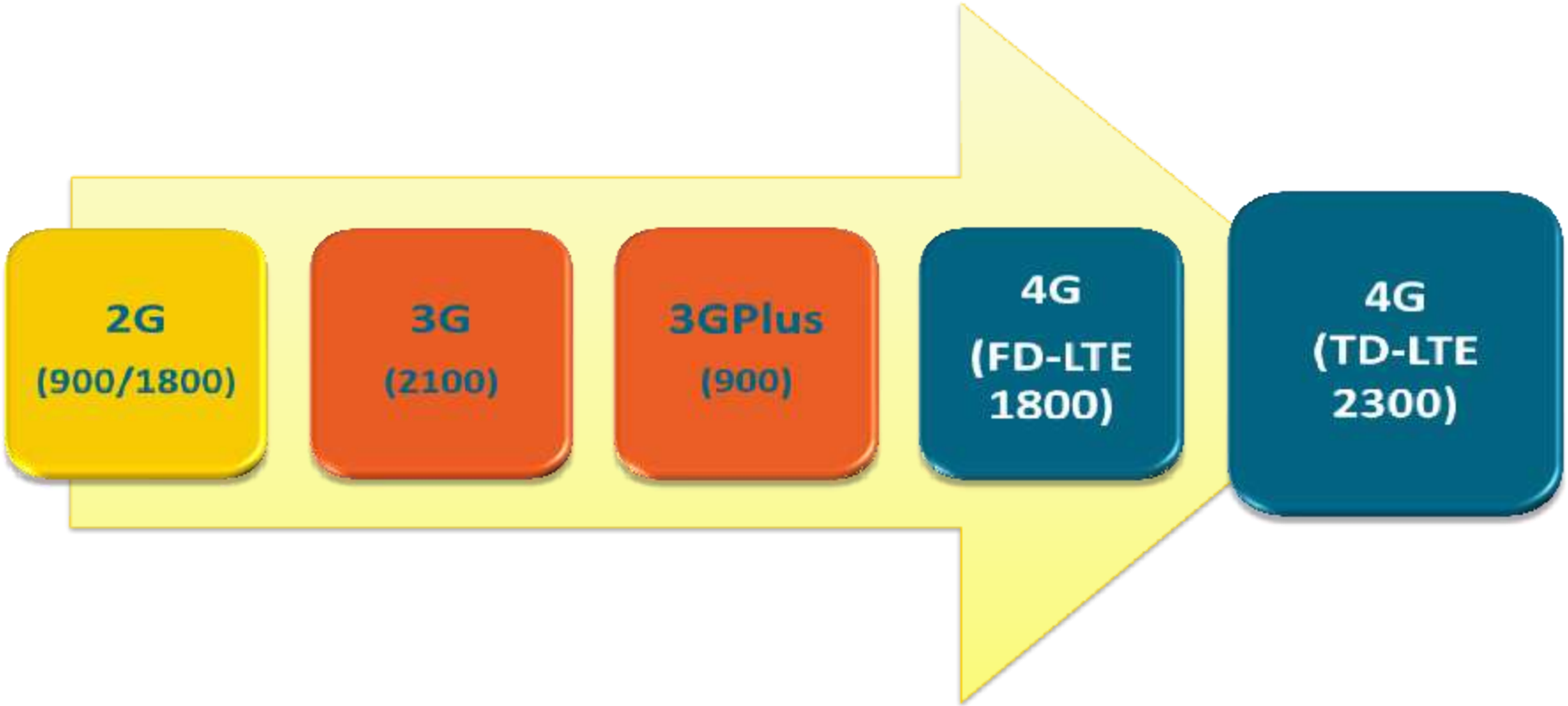
Tomorrow

The Optus Network tomorrow



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'yes' OPTUS

Tomorrow

Our network investment is about building a network where and when customers want it

- We are listening to our customers and building a network to respond to their needs.
- The top three drivers of a great network experience for our customers are:

Coverage in the home

Coverage when on-the-go

Data speeds to meet their needs

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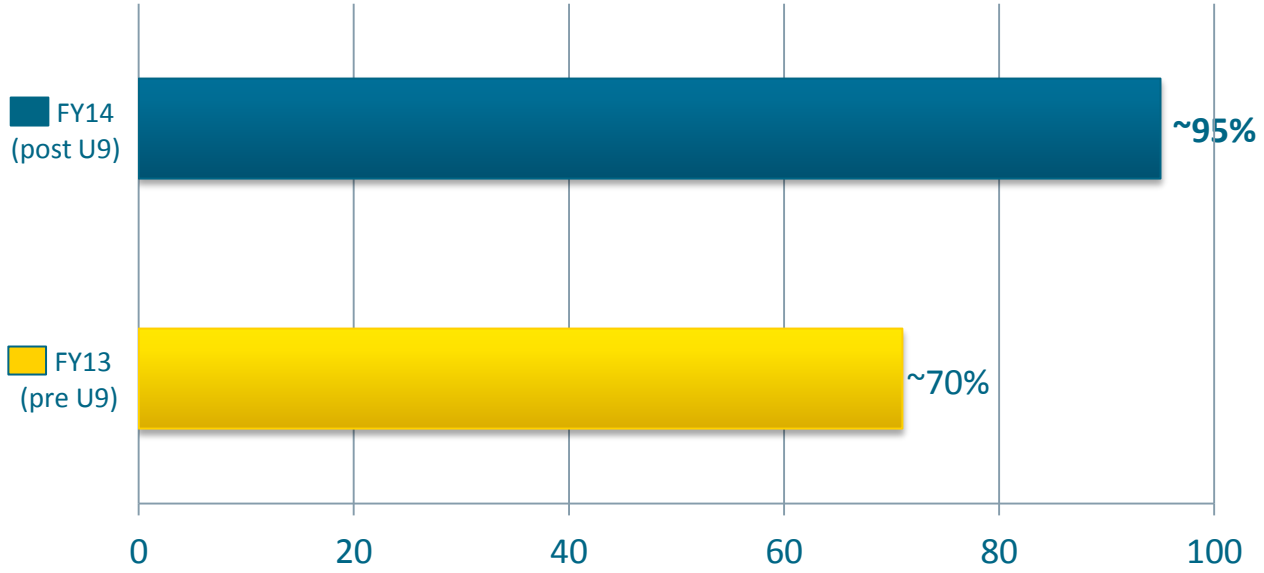
Tomorrow

Better coverage in the home

- We're continuing rollout by activating over 1,000 3GPlus sites across the country over the next 24 months.
- We're delivering our 3GPlus program to Adelaide, Central Coast, Wollongong and Canberra.

In-Building Coverage Metro post 3GPlus upgrades (across Adelaide, Central Coast, Wollongong, Canberra)



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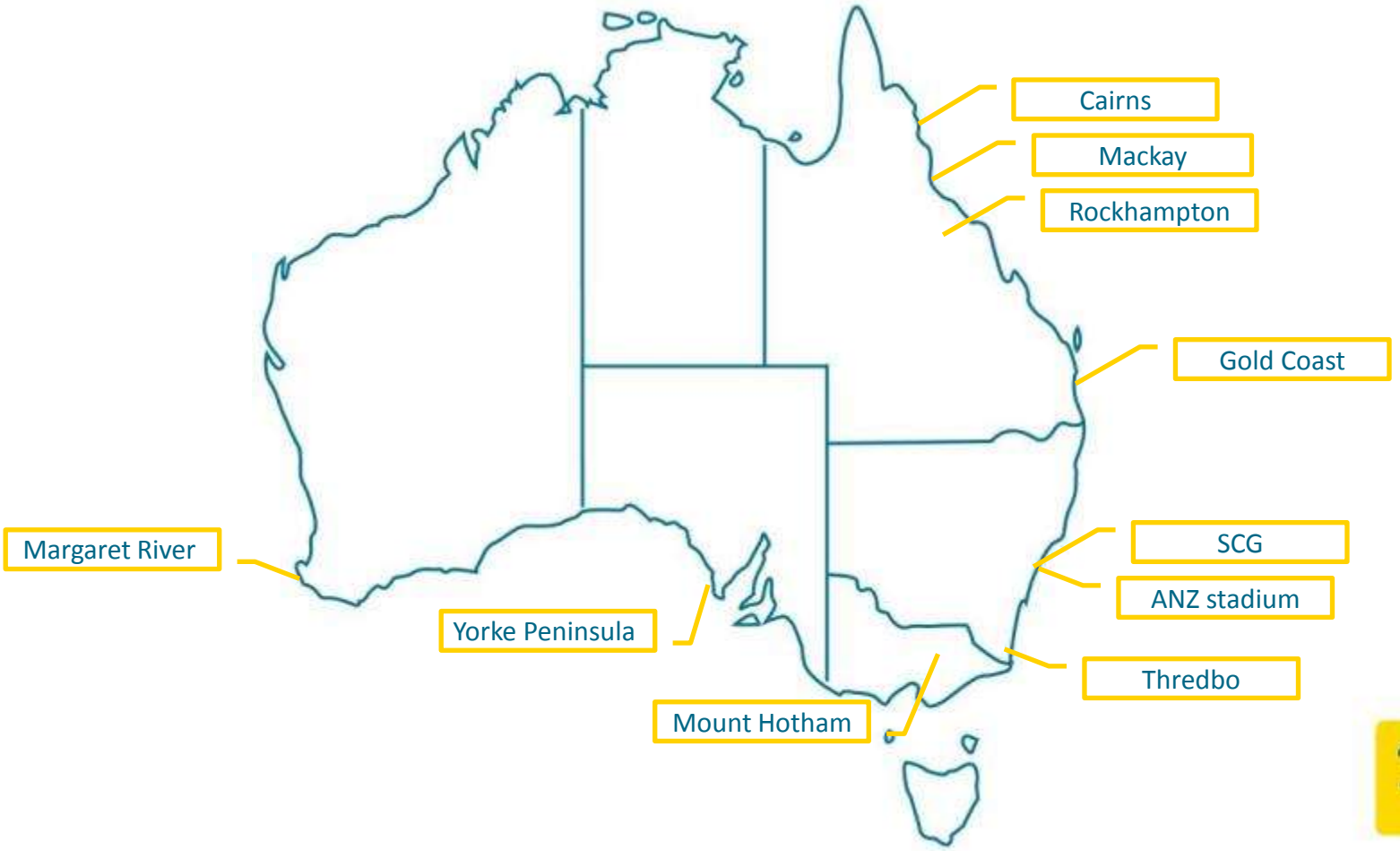
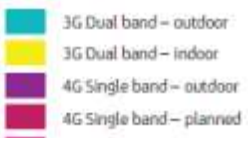
Better coverage on-the-go

- Over the next 24 months, we'll invest in our network by improving mobile coverage in areas where customers frequent, such as sports and music venues and holiday hotspots.



Tomorrow

Data speeds to meet your needs



- We’re expanding our 4G rollout around the country.
- Over 70 per cent of the Australian metro population will be able to access our 4G network by mid 2014.

Current at May 2013. Future 4G coverage planned for roll-out in the Perth metropolitan area by December 2014. Dates are subject to change.

Please visit www.optus.com.au/coverage for more information

‘yes’ OPTUS 4G ‘yes’ OPTUS

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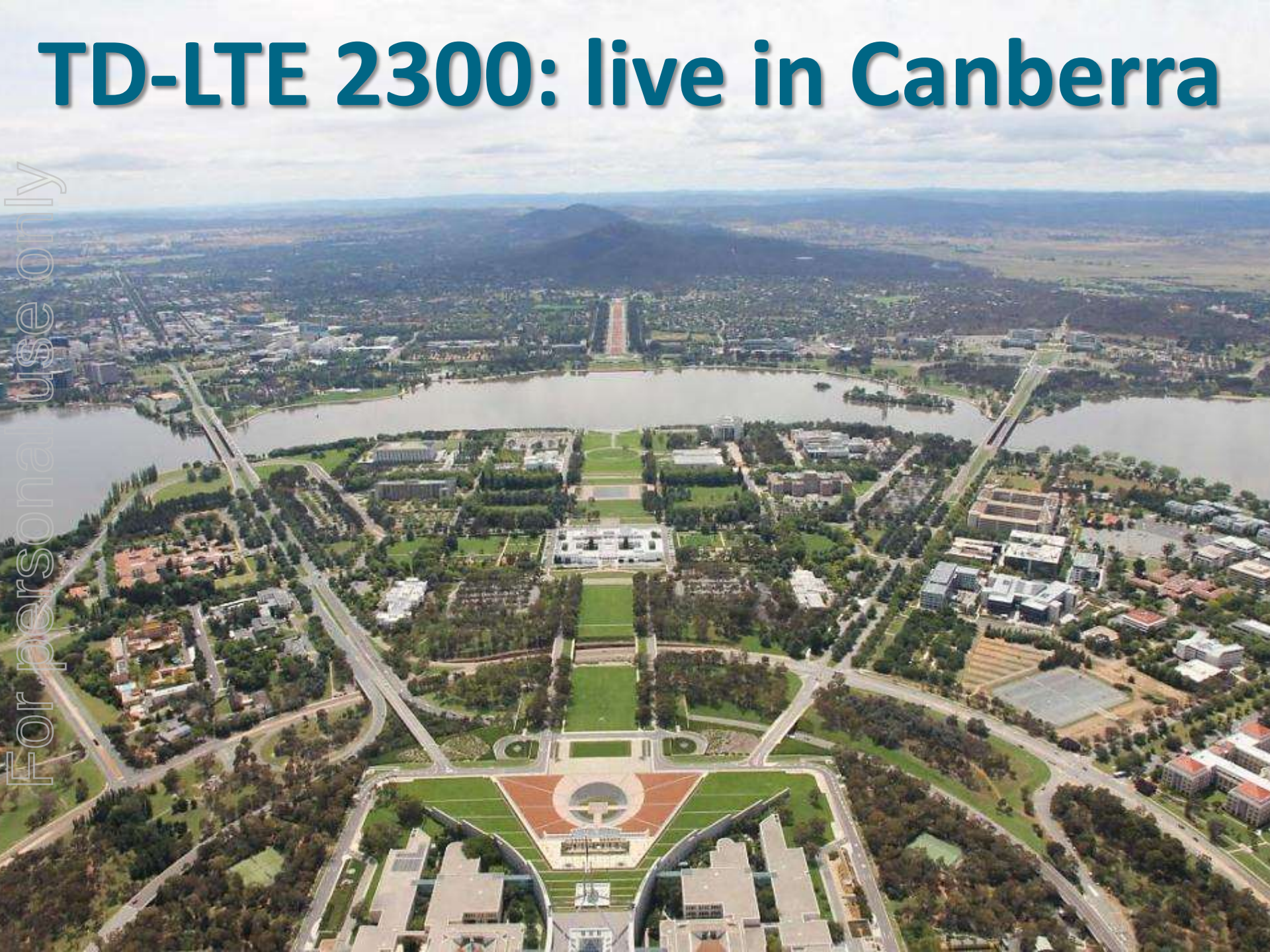
TD-LTE 2300: live in Canberra



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Next generation 4G: Canberra TD-LTE 2300 pilot

- In an Australian first, today we're introducing TD-LTE 4G technology on 2300 MHz to Canberra.

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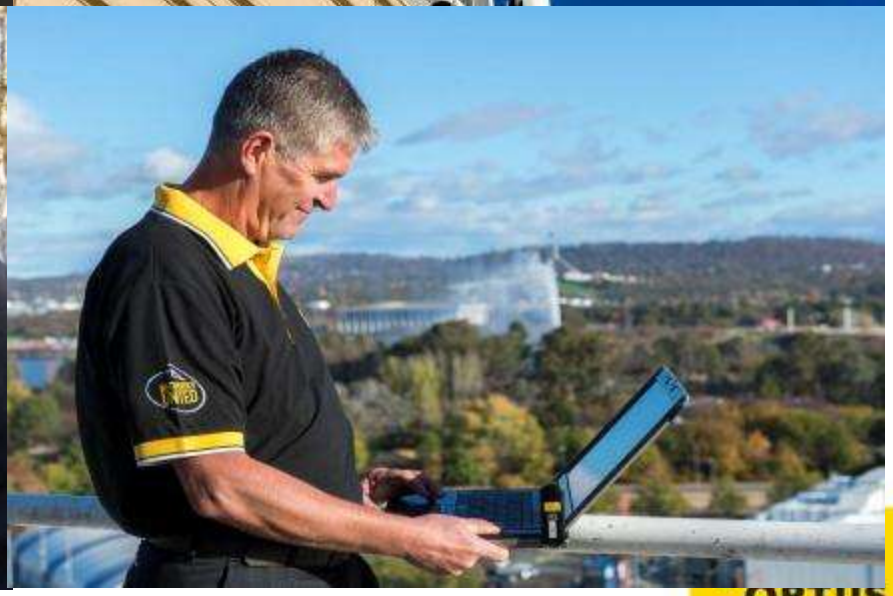
Tomorrow

Canberra TD-LTE 2300 in action



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OPTUS

Tomorrow

New 4G mobile broadband devices

- **Optus E3276 v2 Premium Modem** will be available in Canberra in early June
- 4G Single Band and Dual Band network compatible
- 3G HSPA+ compatible

- **Optus E5776 WiFi Modem** will be available in ALL stores/areas in early June
- Supports up to 5 WiFi connections at the one time
- LCD screen
- 4G Single Band and 4G Dual Band network compatible
- 3G HSPA+ compatible

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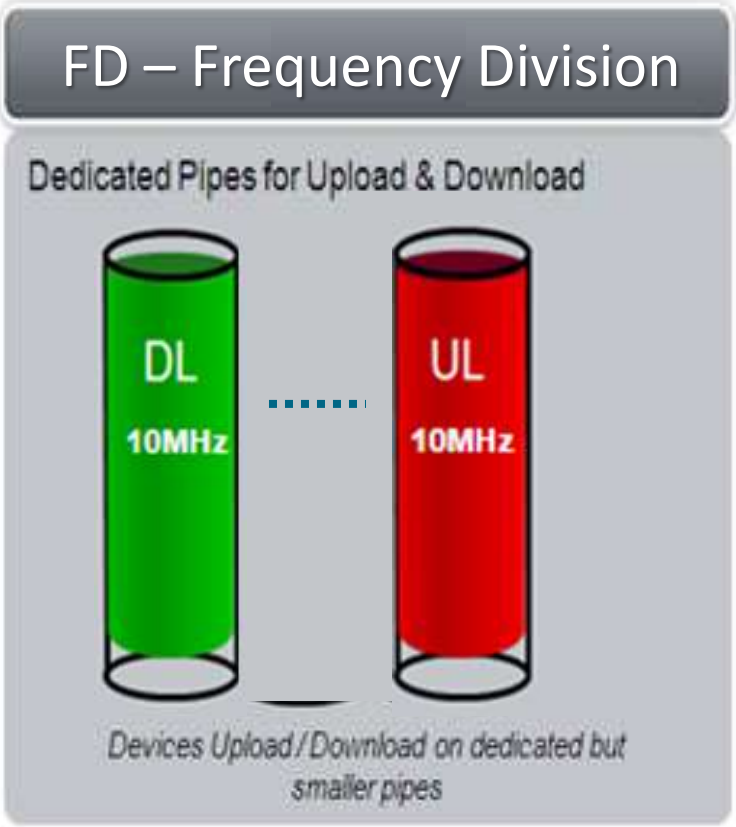
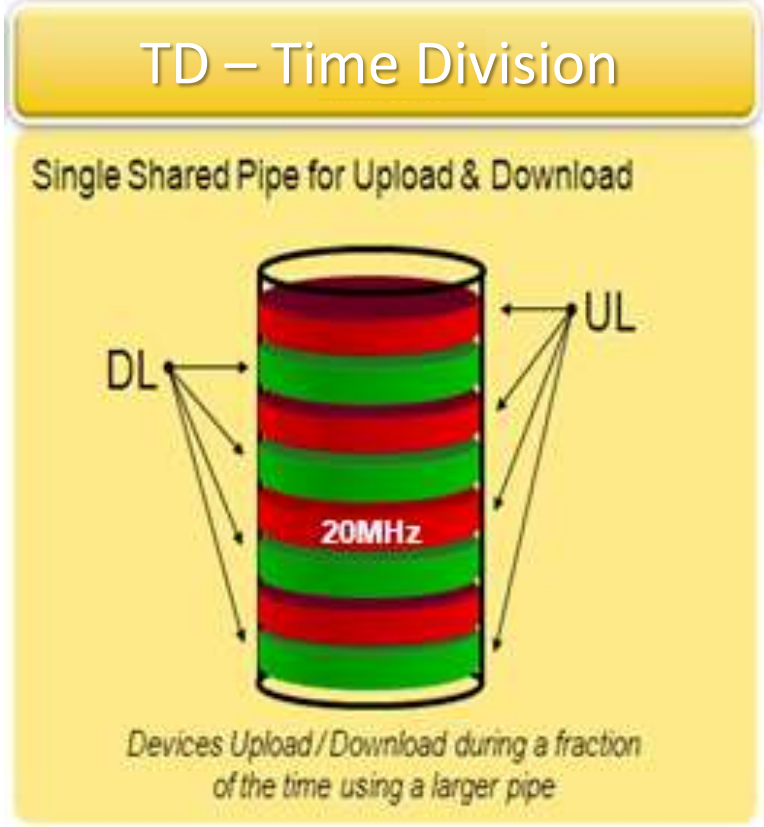
FD-LTE + TD-LTE : Coverage + Capacity

FD – Frequency Division



Paired Spectrum

TD – Time Division

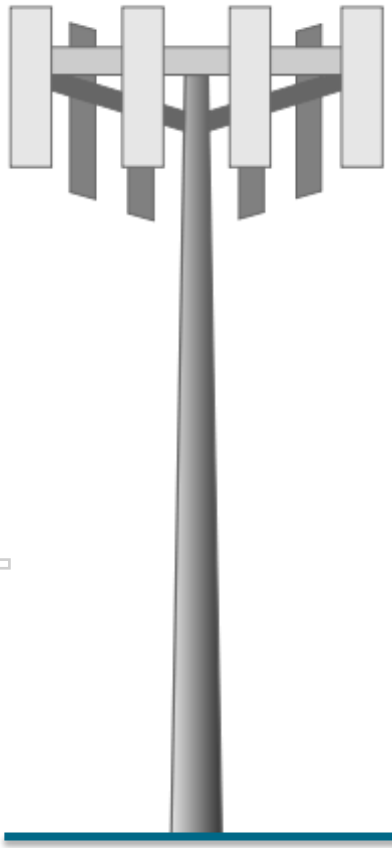


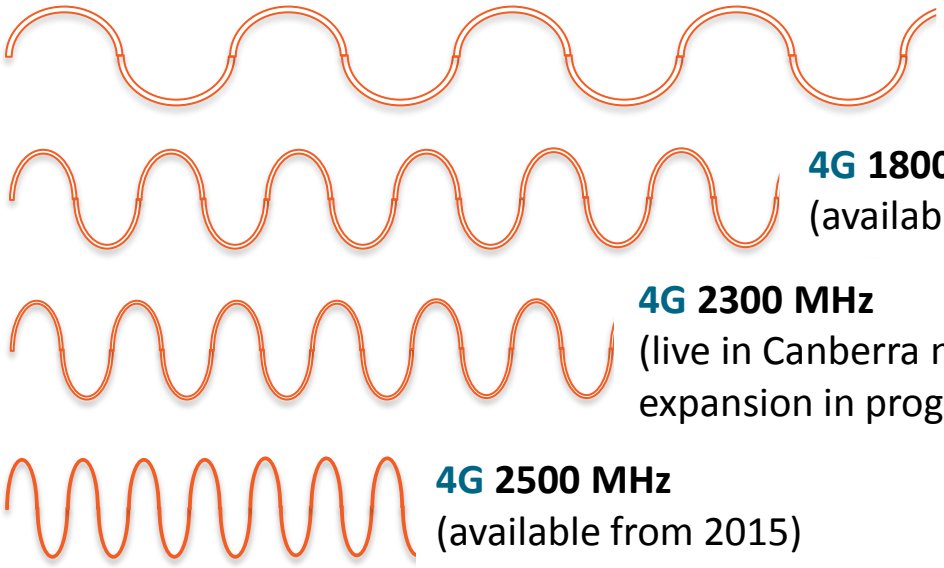
Unpaired Spectrum

Future

The Optus 4G network beyond 2014

- Optus is rolling out Australia's first multi-band 4G network.





4G 700 MHz
(available from 2015)

4G 1800 MHz
(available now)

4G 2300 MHz
(live in Canberra now, expansion in progress)

4G 2500 MHz
(available from 2015)

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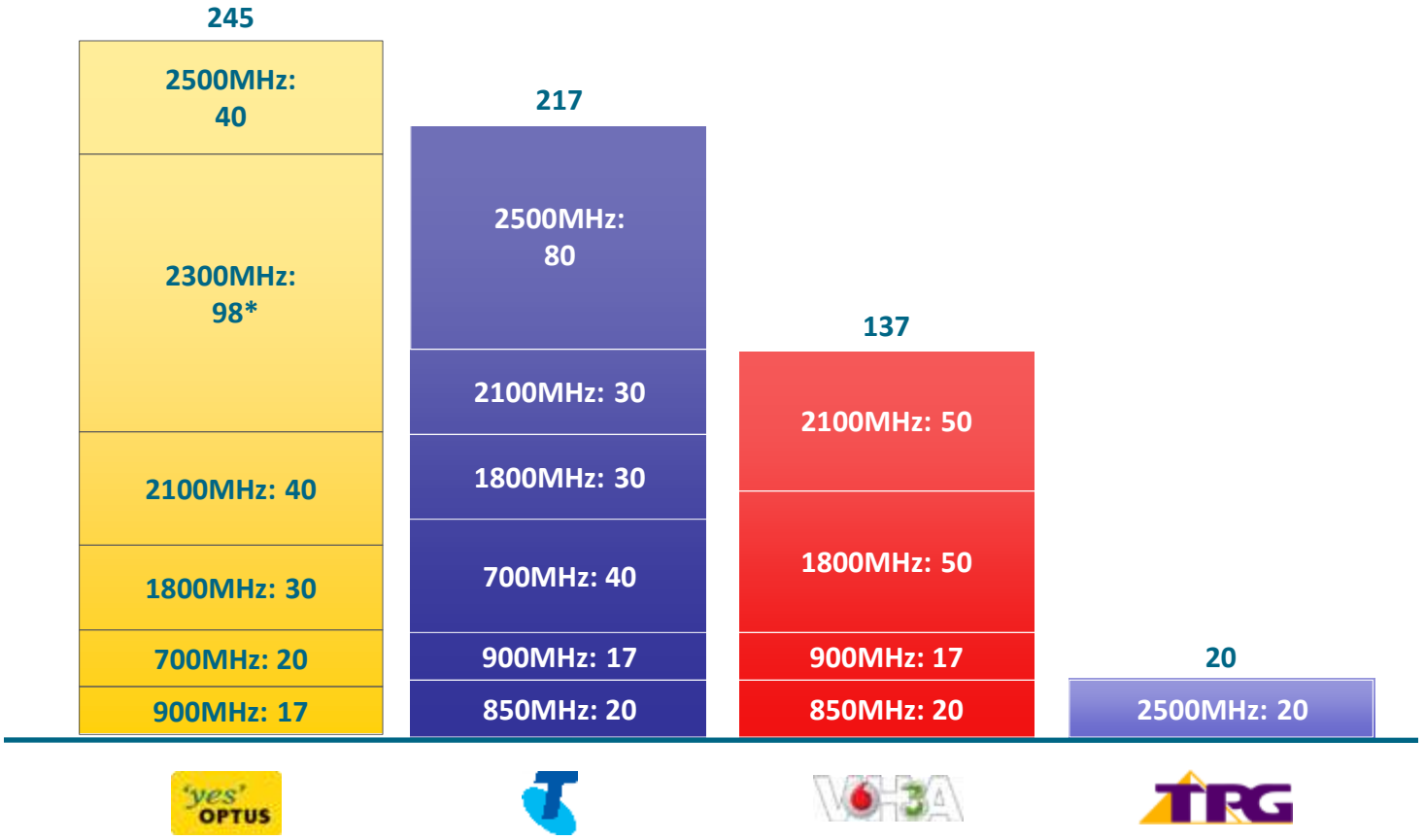
'yes' OPTUS

Future

Optus in prime spectrum position

Metro (Unpaired MHz)



Note: Excludes Optus' 3.5GHz spectrum holdings
* Up to 98MHz

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Future

Significantly boosting our regional spectrum

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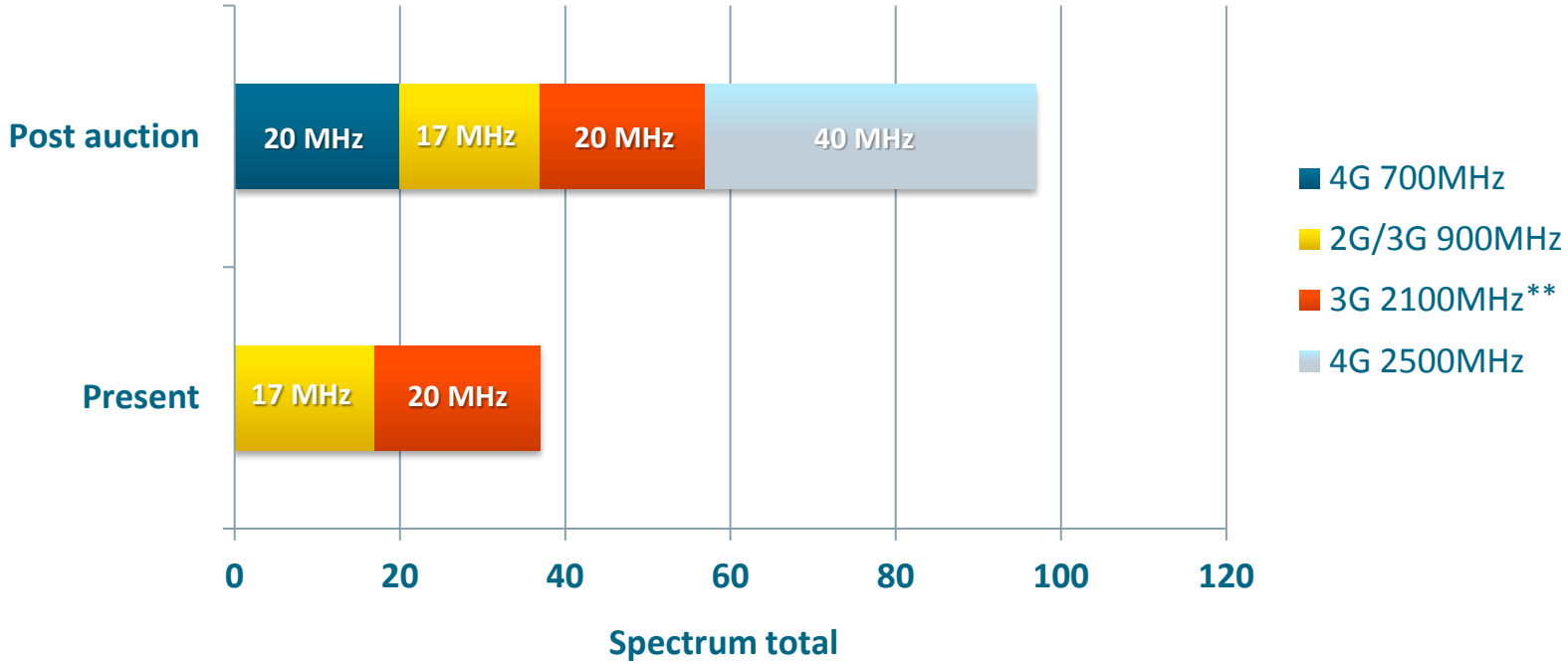
Optus regional (Unpaired MHz)



Note: Excludes Optus' 3.5GHz spectrum holdings

** 10 MHz licence and up to 20 MHz apparatus licence in some areas (assumed average of 20 MHz)

'yes' OPTUS

Future

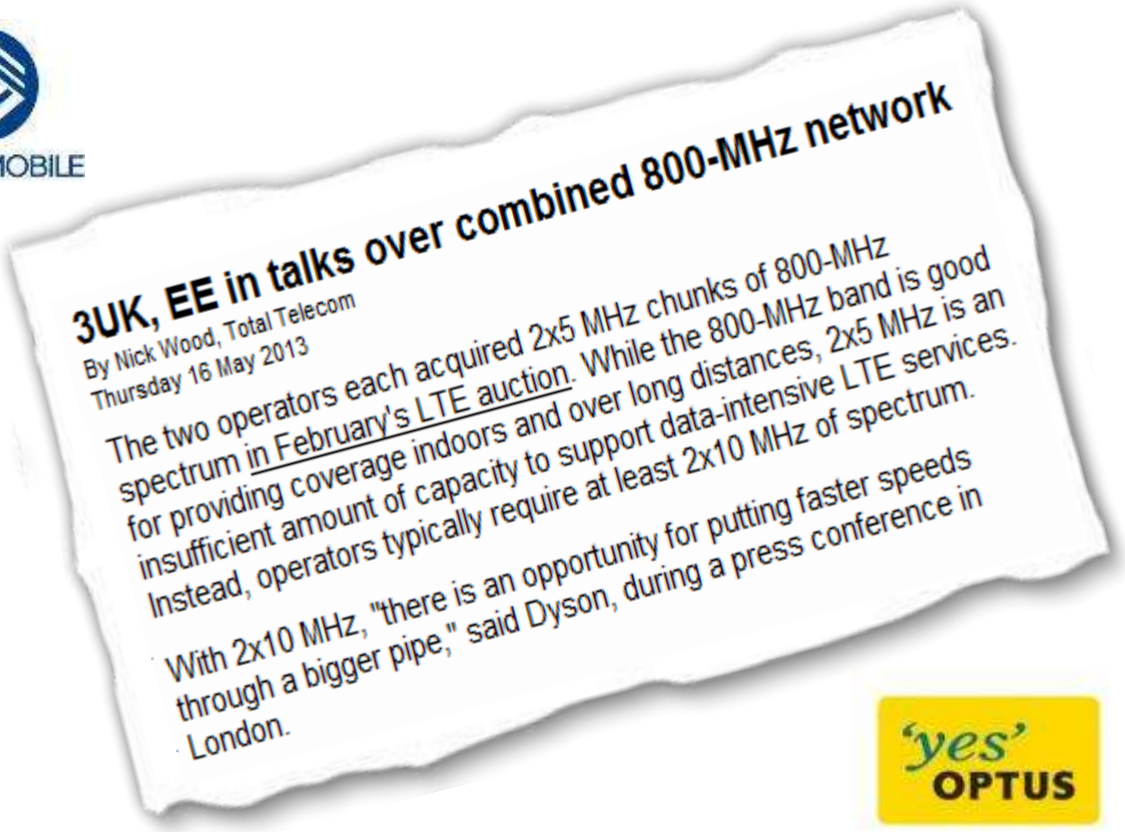
Multi-band 4G globally

- Multiband 4G carriers around the world include:

O2 BT Deutsche Telekom SoftBank

3 Vodafone CHINA MOBILE

verizon at&t



3UK, EE in talks over combined 800-MHz network

By Nick Wood, Total Telecom
Thursday 16 May 2013

The two operators each acquired 2x5 MHz chunks of 800-MHz spectrum in February's LTE auction. While the 800-MHz band is good for providing coverage indoors and over long distances, 2x5 MHz is an insufficient amount of capacity to support data-intensive LTE services. Instead, operators typically require at least 2x10 MHz of spectrum.

With 2x10 MHz, "there is an opportunity for putting faster speeds through a bigger pipe," said Dyson, during a press conference in London.

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Focus

Optus will deliver on

Strengthening our 3G network

Growing our 4G footprint

Expanding our 4G technologies

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Questions?