

# **Unlimited Broadband for All**

*Presentation to NetSafe Spotlight  
April 2010*

**InternetNZ**

# Agenda

- What is “Ultra-Fast Broadband”?
- What is New Zealand doing to get it?
- What will it let us do?
- What will you make it do for you?

## What is ultra-fast broadband?

- Fibre to the premises
- 100 megabits per second +
- Yes, wireless has a role

## What is NZ doing to get it?

### **LOCAL ACCESS NETWORKS** (home to exchange)

\$1.8bn of public investment.

\$3.0bn + of private investment.

First ever non-state national network infra. rollout.

What are taxpayers (\*) kicking in?

- \$1.5bn: Ultra-Fast Broadband
  - *Fibre to 75% of pop'n*
  - *Local or national networks*
- \$0.3bn: Rural Broadband
  - *Fibre to schools*
  - *Slower speeds to the rest*

## What is NZ doing to get it?

### **JOINING THE LOCAL NETWORKS** (backhaul)

- Generally competitive, more built as needed.

### **INTERNATIONAL CONNECTIONS**

- Southern Cross (trans-Pacific, operating)
- Kordia proposal (trans-Tasman, planned)
- Pacific Fibre proposal (trans-Pacific, planned)

→ Every link in the chain needs to be fast.

**What will ultra-fast broadband do?**

**We aren't  
100% sure...**

(aside from that whole  
eroding distance thing)

**What will ultra-fast broadband do?**

**But...**

**Let's review  
a little history**

# What will ultra-fast broadband do?

## 1. "Narrowband" innovations (dial up)

- E-mail
- File transfers
- The World Wide Web (websites)
- Chat services
- (buzzing modems and second phone lines...)

## What will ultra-fast broadband do?

### 2. "Broadband" innovations (ADSL)

- Software-as-a-service (Xero)
- Platform services (Google Apps)
- Libraries online (JStor)
- Video streaming / video conferencing (Skype)
- File sharing (Limewire)
- Social networking (Facebook)
- Tele-working
- iTunes
- (always on, quiet...)

## What will ultra-fast broadband do?

### 3. "Ultra-fast broadband" innovations - known

- Telepresence (3d)
  - *Social & Family*
  - *Work & Education*
  - *Medicine*
- Smart energy grids
- Home security monitoring
- New entertainment options
- "The Cloud" → continued development

Unchaining New Zealand from distance...

## What will ultra-fast broadband do?

### 4. "Ultra-fast broadband" innovations – unknown

- Participatory democracy?
- Distributed manufacturing/printing?
- Traffic management systems that work?
- The "Internet of Things"?
- The "semantic web"?
- Citizen-produced public services?

## What will you make it do for you?

Instantaneous availability of limitless digital content.

From you, to anyone in New Zealand.

(So long as we keep the Internet open and uncaptureable...)

# Thanks!

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