

## Network Strategies report highlights utility option

Groundbreaking research released in December by InternetNZ concludes that utility expansion provides the best opportunity for dramatic improvement of New Zealand's broadband infrastructure.

The final report Broadband Strategy Options for New Zealand has been prepared by independent consultancy Network Strategies as the second part of a research project initiated in June.

It investigates the investment required under differing scenarios to introduce real high-speed broadband with at least 100Mbit/s for domestic users and 1Gbit/s for commercial users for 75% of the population within 10 years.

InternetNZ Executive Director Keith Davidson hails the document as a serious contribution to the debate that will provide valuable input for Government, local body and industry discussion.

"This report provides the first publicly-released comprehensive costing model for a fibre network in New Zealand. It is very timely as the Government prepares its infrastructure plans for the New Year and beyond."

Dr Suella Hansen, Director of Network Strategies, commented that the consulting team had applied a techno-economic modeling approach to investigate in detail different technology, business and market scenarios.

"Public sector participation will be important as our modeling shows that the levels of required investment are beyond that of a commercial operator's typical payback expectations," says Hansen.

InternetNZ commissioned Network Strategies to independently investigate workable models for a New Zealand Broadband Infrastructure, applying six principles around fair competition, affordability, timeliness, high-speeds, independence, and avoiding of excessive duplication.

Business models considered included lit Fibre-to-the-Premises, Open Access Ducting, unlit Fibre, and utility expansion. An extension of Telecom's cabinetisation rollout using VDSL was also considered.

Davidson says the model of utility expansion hasn't been visible in the ongoing public debate in respect to broadband infrastructure and now must be seriously considered.

### Making Contact

**Keith Davidson**  
Executive Director  
keith@internetcnz.net.nz

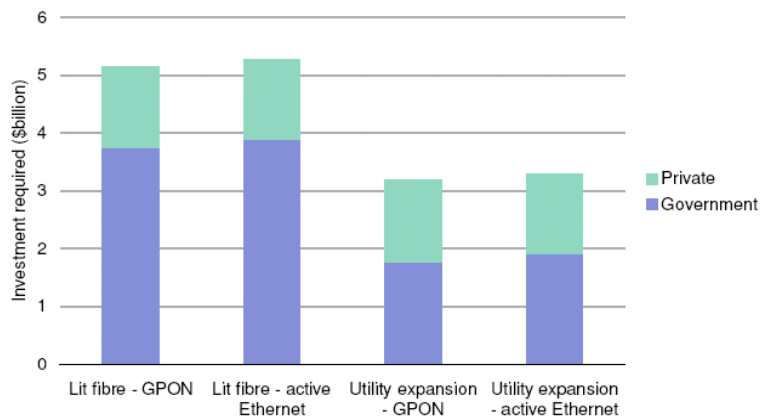
**Jordan Carter**  
Deputy Executive Director  
jordan@internetcnz.net.nz

**Richard Wood**  
Senior Comms and Research Officer  
richard@internetcnz.net.nz

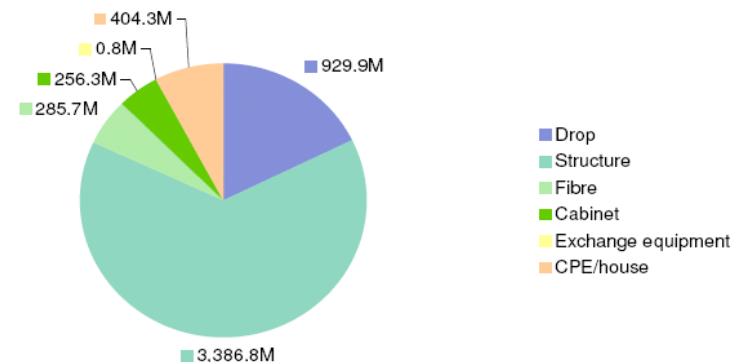
**Campbell Gardiner**  
Comms and Research Officer  
campbell@internetcnz.net.nz

**Susi Fookes**  
Shared Services Manager  
susi@internetcnz.net.nz

**Office / Membership Enquiries**  
L9, 5-7 Willeston St, Wellington  
office@internetcnz.net.nz  
(04) 472 1600  
[www.internetcnz.net.nz](http://www.internetcnz.net.nz)



Government investment required by business model. Source: Network Strategies



Breakdown of total investment costs for active Ethernet. Source: Network Strategies

## Industry agrees - IPv6 transition plan needed

Following a workshop convened by the Ministry of Economic Development, major ICT industry and stakeholder organizations have agreed on the need for New Zealand to develop a transition plan from IPv4 to IPv6, the next generation Internet addressing protocol.

IPv4 was deployed in the mid 1980's, at a time when billions of Internet connections were never contemplated. IPv6 has been under development since the mid 1990's, and currently exists in small pockets around the world.

There is growing urgency for the Internet to support both IPv4 and IPv6, which together will offer vastly increased resources.

More than one million new devices connect to the Internet every week and the pool of four billion IPv4 addresses is expected to be exhausted by 2010. IPv6 supports a much larger pool of addresses, enough to assign an IP address to each grain of sand in a fine layer covering the entire planet.

InternetNZ has agreed to provide continued support for furthering IPv6 as a national industry initiative under the auspices of the Digital Development Forum.

The workshop was held on 28 November in Wellington and saw the formation of an IPv6 Steering Group, which includes representatives from telecommunications carriers, internet service providers, ICT vendors, and industry and user associations.

Telecommunications industry consultant Dr Murray Milner has been confirmed as independent convenor for the steering group.

InternetNZ Executive Director Keith Davidson says the initiative is more than welcomed and indicates increasing recognition that IPv6 deployment will be a business-critical issue as IPv4 exhaustion looms.

CEO of the Telecommunications Carrier's Forum Ralph Chivers says that progress can only be made with a co-ordinated and concerted effort across the ICT sector to ensure New Zealand has a timely and trouble-free transition to IPv6.

Next steps include development of a technical education plan to stimulate IPv6 skills in New Zealand's ICT and academic sectors.

This will be followed by development of a roadmap for the deployment of IPv6 for New Zealand and a business sector outreach programme.

A national IPv6 Hui anticipated for September 2009 is also planned.

## Membership reminder

InternetNZ's membership year runs from 1 October to 30 September. Those individuals whose membership expires in September are reminded to renew now for 2009.

You can renew your membership online at:

<https://secure.internetnz.net.nz/membership.html>

## Briefing to Incoming Ministers released

Last December, InternetNZ released its briefing paper for incoming Ministers, outlining the major ICT issues InternetNZ sees facing the country.

The paper introduces the role and work of InternetNZ and contains a series of high-level recommendations relating to broadband infrastructure, digital copyright and convergence. Global Internet leadership and technical standards such as IPv6 and ENUM also feature.

In respect of broadband, InternetNZ strongly supports the National Party's vision of a broadband-enabled New Zealand.

The briefing paper recommends that the option of working with electricity utilities to roll-out Fibre-to-the-Premises is explored and that the Broadband Investment Fund (BIF) is continued and reworked to align with National policy with a focus on rural access building on successful existing examples such as Network Tasman, CityLink and InspireNet.

Reform of digital copyright features heavily in the briefing, with InternetNZ recommending a First Principles Review of the Copyright Act and that Section 92A of the Act be postponed while a workable replacement involving industry and public input is sought.

Internet, broadcasting and telecommunications networks are rapidly converging and InternetNZ recommends that Government unite policy advice in these areas and consolidate regulatory responsibilities.

InternetNZ Executive Director Keith Davidson says fibre roll-out, digital copyright and convergence will be key areas of work for InternetNZ for 2009.

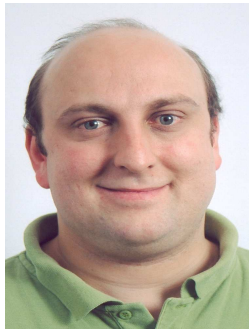
"We look forward to working with the new Government this year to progress these issues and offer the briefing paper as a starting point for discussion."

InternetNZ's Briefing to Incoming Ministers is available on the InternetNZ website at:

[www.internetnz.net.nz/issues/submissions/2008](http://www.internetnz.net.nz/issues/submissions/2008)

## David Farrar appointed to Executive Board

Longstanding InternetNZ member David Farrar has been appointed to InternetNZ's Executive Board.



He joins Chair Paul Swain, Vice-Chair Miki Szikszai and June McCabe and Judy Speight on the five-person Executive Board, filling the position made vacant by Peter Dengate Thrush who resigned in October 2008.

Farrar has a long association with InternetNZ having served as a Councillor of the Society from 1998 to 2000, and 2001 to 2007. He was Secretary from 2001 to 2003 and held the office of Vice President from 2003 to 2007.

He has been active in numerous InternetNZ committees and working groups, mostly recently holding the Chair of the Public Policy Committee. Farrar has also been a director of the InternetNZ subsidiary company that runs the registry for the .nz domain names.

"We are very pleased with Mr. Farrar's appointment," says Executive Board Chair Paul Swain. "He has broad experience in a wide range of Internet public policy, technical and governance issues and will be an asset to the Board."

InternetNZ's Executive Board is responsible for developing policy relating to the Internet and advocates on behalf of internet users. It reports to the InternetNZ Council and was established last year as part of the Structural Review of the Society.

## Copyright Code consultation

The Telecommunications Carriers' Forum (TCF) is expecting to release its ISP Copyright Code for public consultation in January 2009.

The Code is designed to enable ISPs to meet the requirements of Section 92A of the amended Copyright Act. That section comes into force on 28 February 2009 and relates to termination of the accounts of repeat copyright infringers.

InternetNZ is on the TCF working party, alongside representatives from TCF member organisations and ISPANZ.

Vodafone's David Diprose has chaired the group with Lowndes Jordan lawyer Rick Shera heavily involved in a consulting and drafting capacity.

The controversial Section 92A attempts to place responsibility for policing copyright infringement in the hands of ISPs but raises significant issues of privacy, customer confidentiality, and ISP liability.

InternetNZ has asked the Government to postpone the introduction of Section 92A while a workable replacement is found with industry and public input.

## events

### AusGRID 2009

January 20 - 23, Wellington  
[fit.qut.edu.au](http://fit.qut.edu.au)

### NZNOG

January 28 - 30, Auckland  
[nznog.org](http://nznog.org)

### Webstock

February 16 - 20, Wellington  
[webstock.org.nz](http://webstock.org.nz)

### APRICOT 2009

February 18 - 27, The Philippines  
[apricot.net](http://apricot.net)

### APTLD

February 24 - 25, The Philippines  
[aptld.org](http://aptld.org)

### ComCom NGN Conference

February 26 - 27, Auckland  
[comcom.govt.nz](http://comcom.govt.nz)

### ICANN

March 1 - 6, Mexico City  
[icann.org](http://icann.org)

### Digital Media Summit

11 - 12 March, Auckland  
[conferenz.co.nz](http://conferenz.co.nz)

### Web09

17 - 18 April, Auckland  
[web09.org](http://web09.org)

### TUANZ Telco Day

May, Wellington  
[tuanz.org.nz](http://tuanz.org.nz)

### Govis

20 - 22 May, Wellington  
[govis.org.nz](http://govis.org.nz)

### PacNOG

June 14 - 20, Tahiti  
[pacnog.org](http://pacnog.org)

### ICANN

June 21 - 26, Sydney  
[icann.org](http://icann.org)

## PAG list initiated

The Policy Advisory Group (PAG) mailing list has been initiated, and the Public Policy and Technical Policy mailing lists will be closed in early January 2009.

The Group provides a platform for expanded membership involvement in policy issues and replaces the Public Policy and Technical Policy committees.

It will become the forum (primarily the email list) where discussions of InternetNZ public and technical policy issues will happen from now on.

When debates ensue on the PAG mailing list, staff will draw together the differing viewpoints in smaller groups and research relevant topics before reporting back through the PAG in order to derive consensus.

In addition, we will seek to convene a meeting (face to face and electronically) for PAG members on a 6 monthly basis, to provide a forum for current and developing issues.

Membership of InternetNZ is required to join the PAG and there are a very small number of current subscribers to the existing public policy and technical policy lists who are not InternetNZ members.

They are encouraged to become InternetNZ members and continue to contribute to discussions. Those whose memberships have expired will need to renew their subscriptions prior to joining the PAG list.

The list can be joined here:

<http://listserver.internetnz.net.nz/mailman/listinfo/pag>

## InternetNZ applauds 'Fibre-to-the-Farm' project

InternetNZ congratulates the small North Island town of Mangamaire on the launch of its high-speed 'Fibre-to-the-Farm' broadband network.

Mangamaire sits just North of Eketahuna in the Tararua District.

The gigabit-capable network was launched in December and is the result of a venture by InspireNet, FX Networks, Digital Nation and the Tararua District Council.

The town's 46-pupil school is the hub for the new network. Local farmers are able to connect to the network, and the school also connects to KAREN (the Kiwi Advanced Research & Education Network).

InternetNZ President Peter Macaulay says the launch of Mangamaire's new network places the town on the leading edge of a global revolution to deliver real connectivity to real people.

"Although there are many schools in New Zealand with fast broadband connections, none are as isolated as Mangamaire and yet connected with gigabit speed fibre.

Mangamaire now has the connections that will make an amazing difference for its school children, local businesses, farmers and the community as a whole."

"InternetNZ has a goal to keep the Internet fast, open and uncapturable. Mangamaire's network is meeting those goals and our vision is for every community in New Zealand to have these same benefits."

## End-of-year message from the President

In 2008, InternetNZ delivered another year of great outcomes. An incoming government with new leaders, new policies and a relationship gap, presents the Society with several challenges for next year.

To meet these challenges we are working strongly as a team and engaging with all the people that may be in positions of influence. Executive Director Keith Davidson and I have already met with Minister of ICT Steven Joyce and Attorney General Chris Finlayson.

The meetings were useful introductions and it is clear that InternetNZ is seen as a strong and effective contributor for the ICT sector.

The release of the Network Strategies "Broadband Options for NZ" report and Briefing for Incoming Ministers amounts to a significant amount of solid, convincing information to support government decisions.



As we rise to meet the challenge of slowing domain name registrations we need to revise our budgets. This will take a little more time than usual, so are planning to defer our members' meetings until late February.

Even before the current global financial issues, InternetNZ started looking at alternative streams of income to supplement our income and reduce our dependency on .nz. Without competing with our registrars or ISPs there are several business opportunities for a strong and trusted organisation such as InternetNZ. We have formed a committee to study these opportunities.

2009 will throw up a range of new challenges. Our vigilance and vision will lead InternetNZ into new engagements with a wider range of NZ society as the technology we are aligned with continues to impact more parts of people's lives.

I wish you and your whanau a blessed Christmas and refreshing New Year.