TELECOMMUNICATION MARKETS OF NEW ZEALAND AND AUSTRALIA



Market Research Final Report

February – June 2006







This report is an example of my work done for one of my clients in the first half of 2006. The report itself is available for download from my website free of charge for review, academic and personal purposes.

If you find findings of this report useful for your business, please send an amount you consider relevant to my bank account, the invoice will be issued and sent to you in return.

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PREFACE

This report is a result of a five month survey conducted in New Zealand and Australia with an aim to research, describe and analyze local telecommunication markets with regards to the business of one of my clients and potentially discovering new business opportunities.

The report is based on survey of publicly available data, personally held interviews and also personal experience from both markets.

The report focused on analyzing alternatives with regards to two main business lines – data products led by ADSL modems and routers and telephones represented mainly by cordless phones for household use.

The author of this report holds no responsibility for information and data presented in this report as well as for any action taken by any company in response to this report.



AGENDA

New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

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Conclusions and next steps Appendices



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Conclusions and next steps
Appendices



NEW ZEALAND SUMMARY



New Zealand is a developed country with half the population, three times the area and 1,5 times the GDP per capita of Czech Republic

Further growth of the population (especially thanks to immigration of skilled migrants) as well as of the economy is forecasted

New Zeland is ahead in the fixed line penetration of CEE countries, on the other hand lags in mobile phone penetration – broadband penetrations is higher than that of CEE countries, but lower than the GDP per capita level would suggest

Fixed line telecommunications are particularly popular in New Zeland, nevertheless Kiwis seem to be a little bit late adopters of the state-of-the-art broadband technologies

Especially thanks to the flat rate dial-up and low speed and low data cap ADSL

Further boost is seen in upcoming LLU which should open the market and lessen the dominance of Telecom New Zealand

On the other hand the dominance of the market by one straong player allows covering the market by one partnership, if properly managed



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Conclusions and next steps
Appendices



NEW ZEALAND WITH HALF THE POPULATION OF THE CZECH REPUBLIC AND THREE TIMES LARGER AREA

The GDP per Capita Higher by One Third

Main indicators (I)			Main indicators (II)				
	2005	2000	CAGR %		2005	2000	CAGR %
Total population (mil)	4,07	3,84	1,7	Number of businesses	334 340	274 917	4
Area (sq km)	270 500			Retail sales (ths NZD)	57 989	42 161	6,6
Density of population	15	14					
GDP (NZD mil)	149 042	109 696	6,3				
GDP per capita (NZD)	36 594	28 545	5,1				
Average sallary (NZD/hour)	19,30	15,64	4,3				
Population growth (%)	1,37						
Unemployment (%)	3,9						☆
CPI index (%)	2,8						\Rightarrow
Exports (as % of GDP)	29,8						\bigstar



IPPA MAIN CITIES: AUCKLAND AND WELLINGTON IN THE NORTH ISLAND, CHRISTCHURCH AND DUNEDIN IN THE SOUTH

Map of New Zealand



Largest urban areas of New Zealand with # of inhabitants

Urban area	Inhabitants
Auckland	1 241 600
Wellington	370 000
Christchurch	367 700
Hamilton	185 000
Napier-Hastings	119 600
Dunedin	114 700
Tauranga	109 100
Palmerston North	78 800
Nelson	59 600
Rotorua	54 900
New Plymouth	49 600
Whangarei	48 600
Invercargill	47 800



NEW ZEALAND ON THE CROSSROADS OF THE FUTURE DIRECTION: TECHNOLOGY ONE OF THE OPTIONS

A Situation Not Much Different From The Situation Of The Czech Republic

New Zealand lost much of its former markets with United Kingdom access to the EU

- UK had to apply same conditions as on other countries, therefore NZ lost its competitive advantage
- The distance basically prevented any further exports from NZ to GB

Managed to recover and focus on Asian markets with its traditional goods

New direction for the economy has to be sought

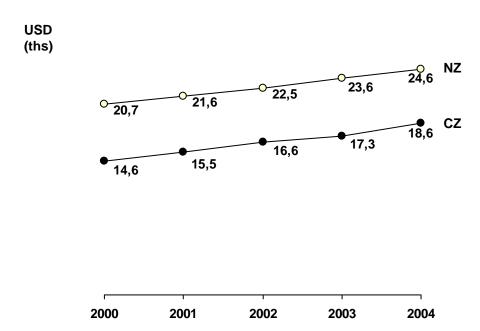
- All the former manufacturers shifted the production from New Zealand overseas car, appliances as well as machinery producers
- New Zeland currently exports mainly its traditional agricultural goods
 - Wool
 - Beef and lamb meet, dairy products
 - Fish
- Despite the traditional goods is sold with a value added, the country cannot rely on agriculture and has to build knowledge industries
 - Thanks to the pure NZ origin, the agricultural products can charge a price premium, thanks to which the agriculture remains viable
- Technology and microbiology are seen as the most attractive and viable options
 - The country's universities are seen as centers of R&D to be commercialized

Technological orientation would require significant further investments in the networks

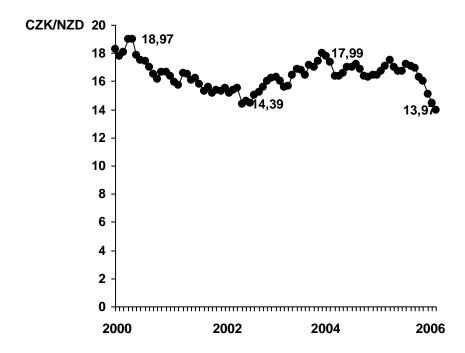


GDP PER CAPITA GROWING STEADILY, EXCHANGE RATE DROPPED RATHER SHARPLY IN 2006

NZ stays ahead of CZ at a constant distance with GDP per capita PPP



The exchange rate vs. CZK experienced sharp drop in the first half of 2006, thus making imports more expensive or less profitable



Further development will be important as to whether the economy will recover or not



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Conclusions and next steps
Appendices



NEW ZEALAND TELECOMMUNICATION MARKET OVERVIEW

Total number of telephone subscribers growing at 10% a year

- Number of fixed lines constant, has been decreasing till 2002, since than growing again
- The entire growth of subscription can be attributed to mobile pones, which complement fixed lines rather than sustitute them

Compared to most of the countries of Central and Eastern Europe (CEE), New Zealand is more fixed line oriented with fixed line penetration well ahead of CEE and simmilar mobile penetration (but far behind Czech Republic)

Fixed line penetration favors the broadband implementation, growing at over 80% a year, but still the total penetration lags behind developed european countries and is only a step ahead of CEE countries

- 8,1 broadband connections per 100 inhabitants, vast mjority of which are DSL lines
- Over 90% of fixed lines are DSL enabled, which makes NZ one of the least penetrated countries with high share of DSL enabled fixed lines and opens large space for further growth

Further development of the market is being influenced by several factors

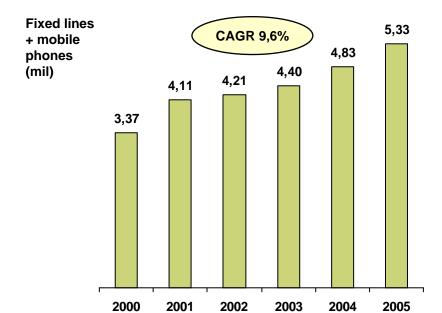
- Free local calls make a fixed line a must have for most of the Kiwis
- Unlimited dial-up connection for a flat fee slows down broadband growth and makes mobile data plans inferior
- LLU could increase the competition, speed up broadband and bring ADSL to rural areas



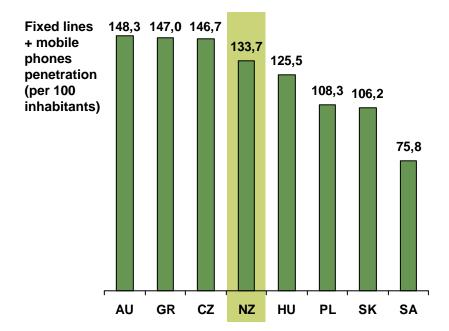
NUMBER OF PHONE SUBSCRIPTIONS RISING STEADILY, IN TOTAL NEW ZELAND RANKS BETWEEN CZ AND HU

134 Phone Subscriptions per 100 Inhabitants

New Zeland number of phone subscriptions rising steadily at 9,6% a year on average



New Zealand ranks between Czech Republic and Hungary in the total subscriptions penetration



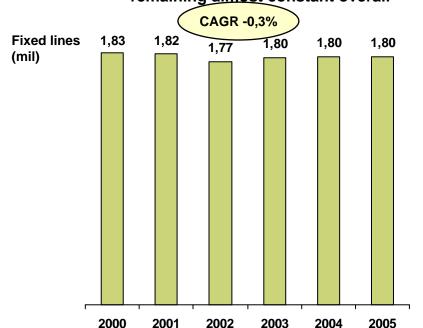
The structure of total subsriptions to be analyzed further



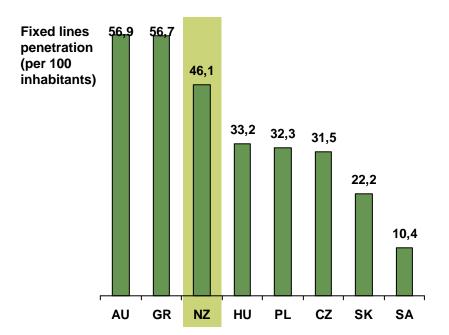
AFTER THE DROP IN 2002 THE NUMBER OF FIXED LINES STARTED TO GROW AGAIN, LIKELY THANKS TO ADSL

The Penetration Is Higher Than In Client's Countries Except Of Greece

Evolution of the number of fixed lines reverted, after the drop in 2002 the number started to grow again, remaining almost constant overall



New Zealand ranks behind Greece in fixed line penetration, but ahead of other countries served by Client



Constant number of lines combined with growing population results in declining penetration

- 15 -

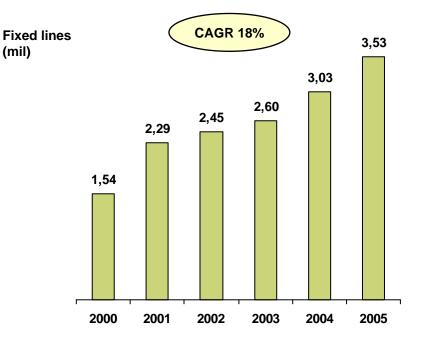


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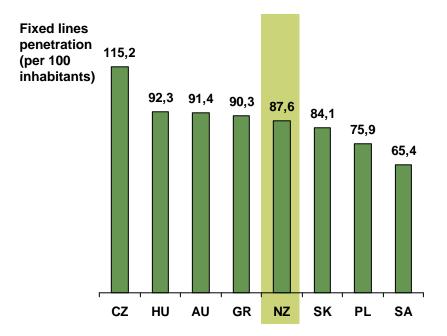
ALL THE PHONE SUBSCRIPTIONS GROWTH TO BE ATTRIBUTED TO MOBILE PHONES GROWING AT 18% CAGR

Unlike in CZ, The Strong Growth Did Not Lead To Fixed Lines Decline

Number of mobile phones rising sharply in last five years at 18% CAGR



Mobile phones penetration far behind the Czech Republic despite the strong growth

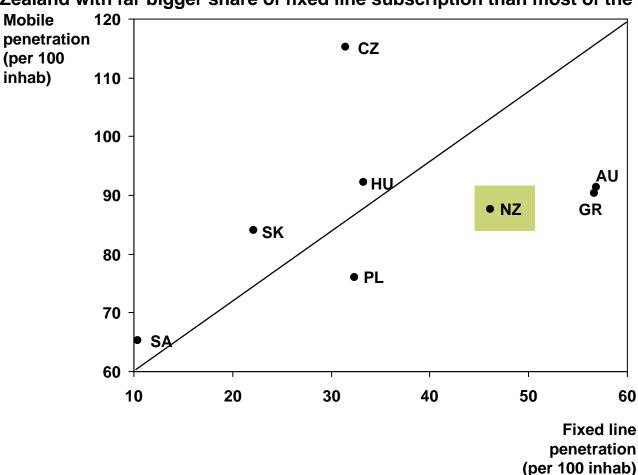


Mobile phones are not substituting fixed lines in New Zealand



DESPITE THE GROWTH OF MOBILE PHONES, NZ MORE FIXED LINE ORIENTED COMPARED TO OTHER COUNTRIES

New Zealand with far bigger share of fixed line subscription than most of the Client's countries





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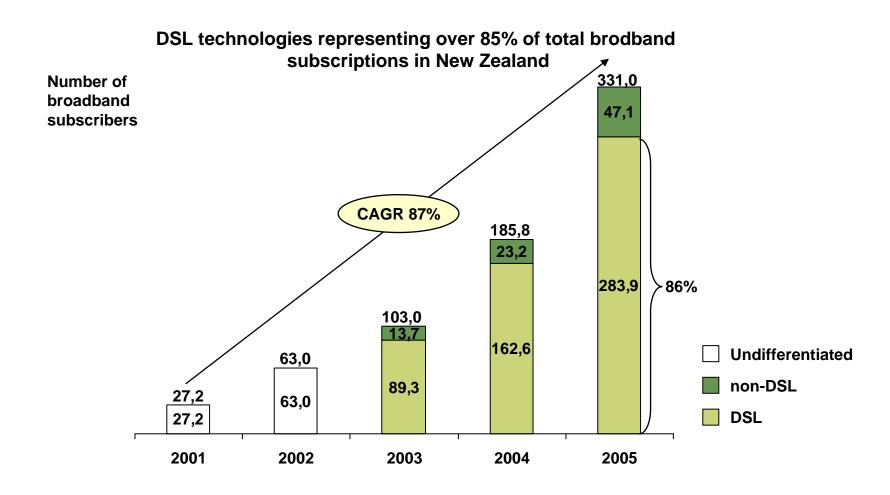
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Conclusions and next steps
Appendices



BROADBAND GROWING AT 87% CAGR IN PAST FOUR YEARS WITH DSL AS THE MAIN TECHNOLOGY

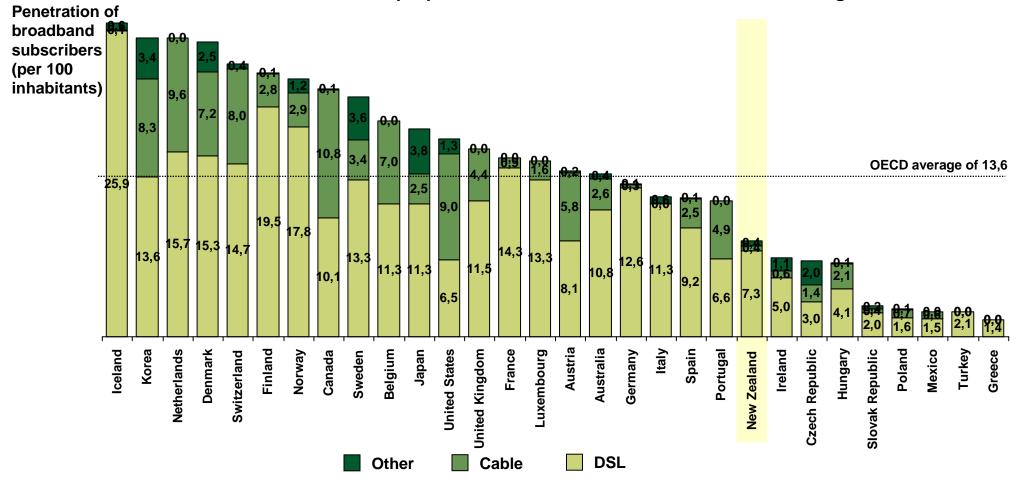




BROADBAND PER CAPITA PENETRATION IN NEW ZEALAND SLIGHTLY AHEAD OF CEE COUNTRIES

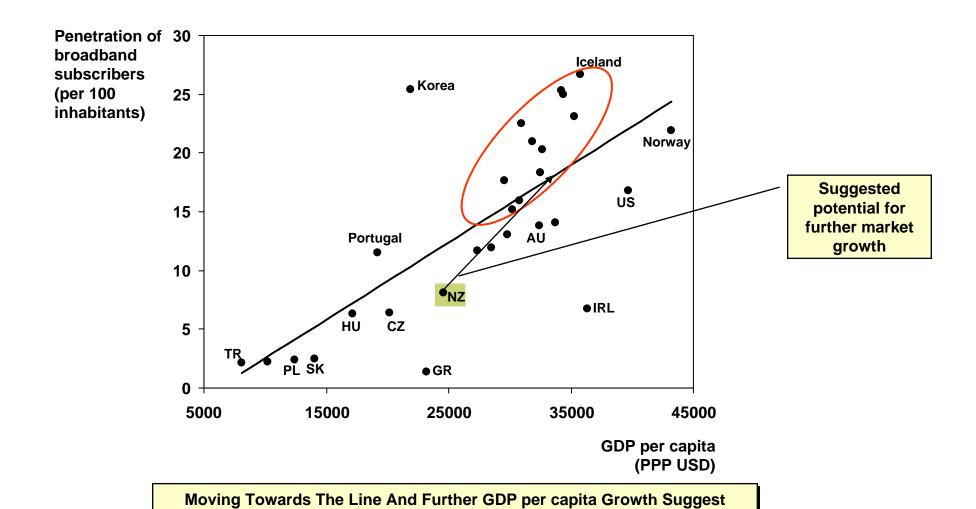
But Still Far Below The OECD Average Or Top EU Countries

New Zealand with smaller proportion of other than DSL broadband technologies





NEW ZEALAND FAR BELOW THE LEVEL OF BROADBAND PENETRATION SUGGESTED BY ITS GDP PER CAPITA

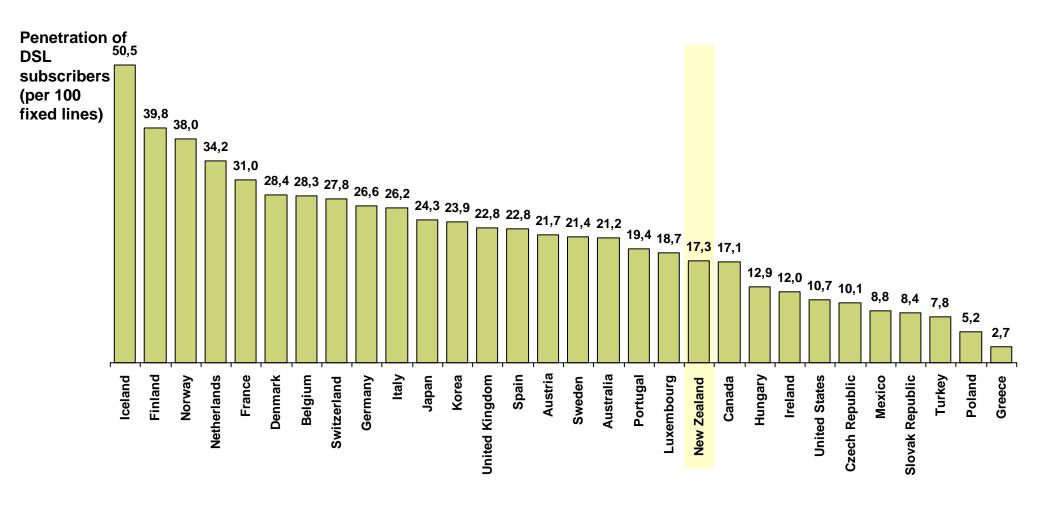


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Further Potential for broadband penetration



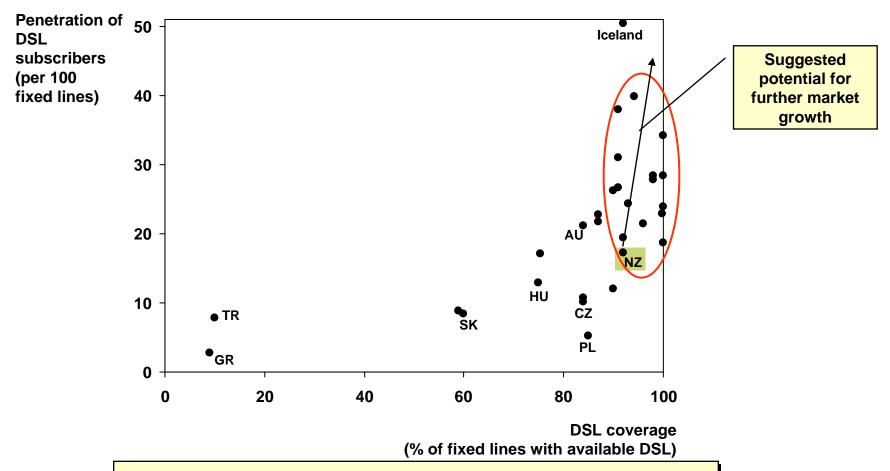
ONLY ABOUT 17% FIXED LINES WITH BROADBAND SUBSCRIPTION, BELOW OECD AVERAGE, BUT ABOVE CEE





NEW ZEALAND ONE OF THE LEAST PENETRATED MARKETS WITH HIGH DSL ENABLEMENT

Enablement Represents % Of Fixed Lines Where DSL Can Be Implemented



Given that most of the line are DSL enabled, further penetration into levels of more advaced countries can be expected



RECENT LOCAL STUDY MARKED NEW ZEALAND WITH A D-MARK FOR ITS BROADBAND VALUE

Especially For LLU Absence, Low Speed And Low Data Caps

Country	Grade	Ranking	Business	Residential	OECD Ranking ¹¹	e- readiness ¹²
Sweden	А	1	1	2	9	4
Netherlands	7	2	4	8	3	6
Norway		3	8	3	7	11
Canada	В	4	5	10	8	9
Germany		5	13	4	18	12
United States		6	3	6	12	2
Spain	1	7	6	5	20	23
Slovakia		8	11	9	26	36
Finland		9	7	7	6	7
Portugal	Ì	10	2	14	21	25
Czech Republic		11	10	11	24	29
France	С	12	25	1	14	19
Iceland		13	9	23	1	
Belgium		14	16	15	10	17
Denmark		15	12	16	4	1
Italy		16	18	12	19	24
Australia		17	21	13	17	8
Austria	J	18	17	24	16	14
Switzerland	7	19	14	17	5	3
United Kingdom		20	23	19	13	5
Hungary		21	15	26	25	30
New Zealand	D	22	24	18	22	14
Luxembourg		23	22	21	15	
Ireland		24	20	20	23	15
Poland		25	19	25	27	32
Mexico		26	26	22	28	39

New Zealand

New Zealand has limited regulatory intervention in broadband and has not implemented LLU. New Zealand has high internet usage but the transition from dial-up to broadband has been poor, with the country currently in 22nd place in the OECD rankings. The New Zealand dataset includes 110 products from 11 different providers. This includes six satellite-based products and 30 wireless, with the remainder DSL based products. New Zealand is a market of two key products – Telecom New Zealand's DSL 'Jetstream' service, re-sold through most ISPs, is the only DSL offering. Broadcast Communications Limited's (BCL) wireless (802.11) service is re-sold by a number of ISPs as well.

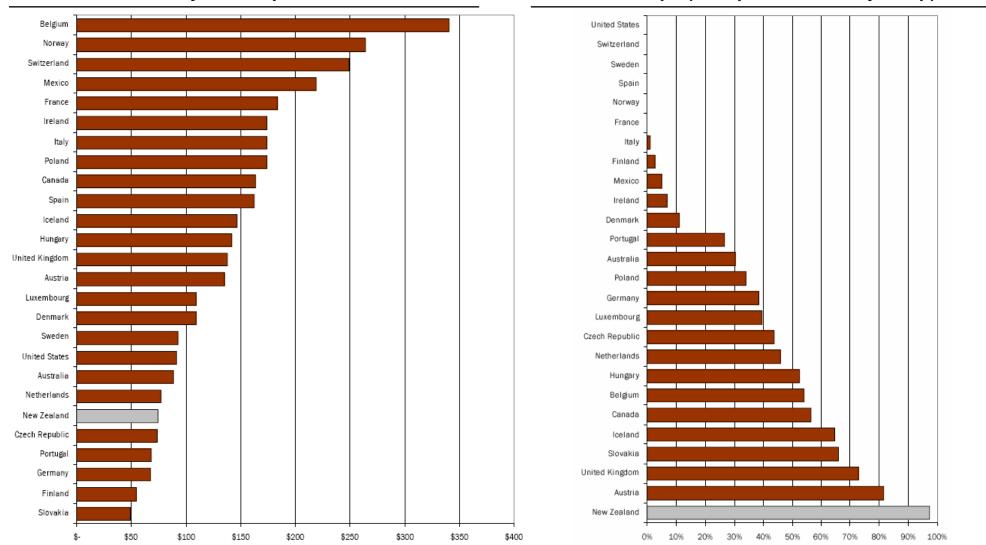
New Zealand performs poorly in terms of speed and particularly badly in terms of usage restrictions (it has more products with data caps then any other country), although Telecom's reduction of speed to dial-up equivalents now applies at higher levels than previously seen (typically 1GB and 5GB per month). New Zealand does compete well on price but has a poor selection of products on offer, particularly for businesses. Overall, New Zealand ranks 22nd out of the 26 countries surveyed, the same as its 0ECD broadband ranking.



NEW ZEALAND ALIGNED WITH THE CZECH REP FOR THE MONTHLY COST, BY FAR EXCEEDS OTHERS IN DATA CAPS

Monthly subscription cost

Data caps (% of plans limited by a cap)



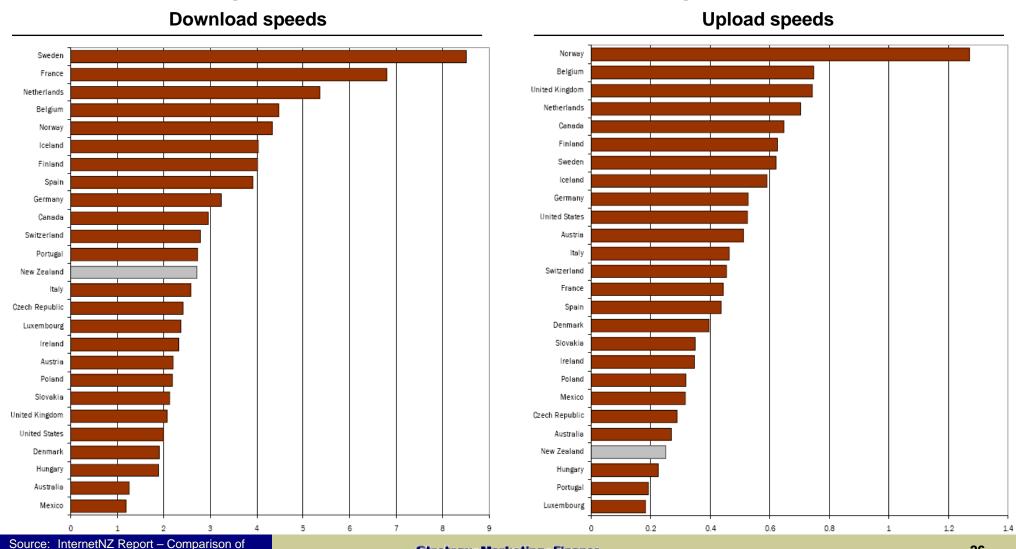
- 26 -



OECD Broadband markets

DSL SPEEDS IN NZ APPROXIMATELLY ALIGNED WITH SPEEDS COMMON IN CENTRAL EUROPE

Higher Speeds Expected With LLU Coming At The End Of 2005



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Conclusions and next steps
Appendices



NZ TELECOMMUNICATION COMPETITIVE LANDSCAPE DOMINATED BY TELECOM NEW ZEALAND

Two Mobile Operators and Limited Number Of Alternative Fixed Operators

Telecommunication market dominated by Telecom New Zealand, the former incumbent

- Virtual monopoly in fixed lines and broadband
- #2 mobile network operator
- Other ISPs either resell Telecom's ADSL or offer competitive technologies in minor scale

TelstraClear is the second largest telecommunication company in New Zeland, but with limited options of challenging the former incumbent

- Built its own network in largest cities, which is used for services for businesses
- Resells Telecom's ADSL while it hopes for LLU to increase the competition, besides ADSL it offers cable broadband
- It runs its MVNO using the network of Vodafone NZ minor scale

Vodafone NZ managed to overcompete Telecom NZ and become #1 mobile operator

• Its data plans are rather expensive and limited by very low data caps, therefore the are not competitive with either ADSL offerings nor dial-up connection

LLU planned for the end of 2006 in order to increase competition in the fixed line market and especially improve the current broadband situation

Telecom opposes this plan, therefore the implementation may be delayed



TELECOM NEW ZEALAND DOMINANT IN THE FIXED TELECOM MARKET, FOLLOWED BY TELSTRA

Other Alternative Operators With Marginal Role

Telecom New Zealand

Former incumbent

- Established 1987 (Post office spin-off
- Privatized 1990
- Public Limited Company
- No majority owner

Operates fixed as well as mobile network

No LLU yet, alternatives resell its services

Fixed lines: 1,790,000 Revenue: NZ\$5,605 mil

Capital Expeniture: NZ\$703 mil

Operates also in Australia

www.telecom.co.nz



Telstra Clear

Fully owned by Australian Incumbent

 Mother company owned 50% by Australian Government

Operates its own network in largest cities as well as resells products of Telecom New Zealand

Claims to have best IP Network in New Zealand

Own fixed lines: 62,000

Focused mainly on businesses and international businesses

www.telstraclear.co.nz



Other fixed operators - established

Trans Power New Zealand	1992
New Zealand Rail	1993
CityLink	1996
Globalstar New Zealand	1997
The Internet Group	1998
Vodafone New Zealand	1999
Vector Communications	2000
Econet Wireless New Zealand	2002
Counties Power	2002
FX Networks	2003
Inspired Networks	2003
ThePacific.Net	2004
NetSmart	2005
Smartlinx 3	2005
Civic Enterprises	1989
Sky Network Television	1990
Broadcast Communications	1990
Pacificom	1992
Barryvision	1995
Far North Cable TV	1995



BROADBAND ISP MARKET DOMINATED BY TELECOM'S DSL, OTHER TECHNOLOGIES AND OPERATORS MINOR

Higher Broadband Penetration Is Slowed Down By Dial-Up Popularity

XTRA (Telecom)

Has virtual monopoly in DSL products

 Alternative DSL providers resell its products

Acused for abusing the monopoly and uderdelivering on its promises

ADSL lines: 297.000

LLU unbundling planned for the fall seen as a way to improving the situation – obviously refused by XTRA

www.telecom.co.nz



Telstra

Both resells XTRA's DSL broadband products and markets its own broadband cable services

Expecting LLU as a market opening

www.telstraclear.co.nz

Others (technology used)

Either limited to reselling Telecom products (Xtra) or running their own small scale networks in limited areas.

Their importance may increase with planned LLU.

ihuq ADSL

WISE Net ADSL, WiFi

Broadcast Comm. Ltd WiFi

Woosh WiFi

Vector Communications FTTH

Wired Country FTTH, WiFi

Citylink FTTH

Advanced Network FTTH

ICONZ DSL, FTTH

Orcon DSL, FTTH





MOBILE MARKET LANDSCAPE INFLUENCED BY DIFFERENT TECHNOLOGIES USED BY THE TWO NETWORKS

Limited Operator Switching Options

Vod	lat	or	1e	N	Z
-----	-----	----	----	---	---

NZ largest mobile operator

Part of the Vodafone Group

Using GSM technology 3G enabled – UMTS

Subscribers: 2,02

Offering data plans with very low monthly data caps

www.vodafone.co.nz



Telecom Mobile

Mobile division of the telecom incumbent

Using CDMA technology 3G enabled – CDMA EV-DO

Lost market leadership in 2003

Subscribers: 1,601,000

Offering also data plans with very low monthly data caps

www.telecom.co.nz



MVNOs

Playing marginal role, hardly visible in the market

Telstra Clear (through Vodafone Network)

Operated by fixed operator TelstraClear

www.telstraclear.co.nz

Boost Mobile (through Telecom Network)

Operated by Telecom itself

www.boostmobile.co.nz

Limited competition visible from the lack of data plans and rather high rates reflected by remaining high popularity of fixed services



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Conclusions and next steps
Appendices



GENERAL POSITION OF PHONES AND ADSL MODEMS AS A CATEGORY

Telecommunication devices require authority approval before plugged into the NZ networks – so called telepermit

Fixed phones are sold by both telcos, as part of their service offering, and retailers

 Price ranges are simmilar except of special offers or subsidized offers by the telcos with longer temr subscription

Despite the popularity of fixed line service, simmilarly to CEE, fixed phones are not a hottest item to be bought at electronics retailers, which is reflected by their position in the shops and catalogues

- Electronics retailers would usually have on stock a limited range of models, which are most often displayed in secondary display areas
- Some electronics retailers would fail to sell fixed phones as such
- In the mailers, leaflets and catalogues fxed phones are mostly hidden amoing the broad offer of mobile phones and either shown at the end of "phone" page or not shown at all

Often the phones are equipped with answering machine as calling to fixed line is very common despite the spread of mobile phones

Cordless phones and multiple phone models are common as people usually live in larger houses and have their gardens, therefore need further reach of their fixed line

New Zealand uses Annex A technology

ADSL modems and routers are mostly supplied by the service providers as a part of their service offering and at subsidized prices, with the basic models being for free with a minimum time subscription. Offer of ADSL modems/routers is rather rare, as the after market is not highly developed yet

Personal experience suggests that people go for basic cheaper models, as the density of WiFi signal in the cities is very weak



FIXED PHONES MARKET DOMINATED BY PANASONIC, DORO AND TWO LOCAL BRANDS – UNIDEN AND ORICOM

Uniden A Strong Player While Oricom Still Failing To Reach Share In NZ

Uniden Uniden

en Orico

Japanese manufacturer of a large scale of cordless and corded fixed phones, PMRs, GSM navigation and wireless networking products

World's leading manufacturer of cordless phones

#1 cordless phones seller in New Zealand

In New Zealand present since 1989

Highly innovative company

Contracts directly with the retailers and telcos, its main stockists include:

- Telecom NZ
- Harvey Norman
- Noel Leeming
- Dick Smith, Farmers
- Bond Bond, Smith City and OfficeMax

Australian brand of DECT and corded fixed phones, 2-way UHF radios (Motorola) and IP phones

Established only in 2003

Business model simmilar to Clients – manufacturing outsourced in Asia (claims to use renowned manufacturers), ensures distribution and channels in Australia and New Zealand

More limited retail distribution than Uniden:

- TelstraShop
- Harvey Norman
- Betta Electrical



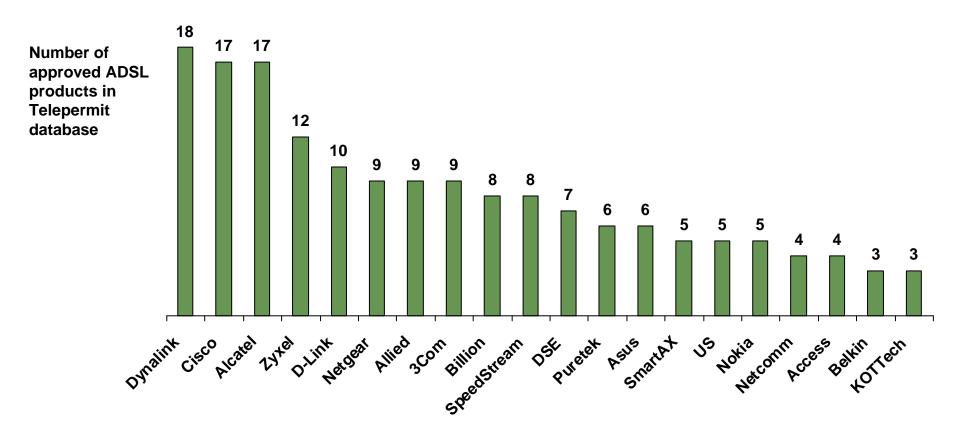
EXAMPLES OF PHONE MODELS: ANALOG AND DIGITAL, MOSTLY CORDLESS, OFTEN WITH ANSWER MACHINE

Telco	offers	Retailer offers		
Oricom P80 \$59.95 • Digital cordless • Popular • Feature Packed • Caller display capable • Phonebook	•Analogue cordless •2.4GHZ SCR •Caller display capable •Headset capable	Panasonic 1805 \$59.99 •1.8ghz long range phone •Gap compatible •Multi handset compatible (up to 6 handsets) •Caller id compatible •Handset alphanumeric lcd - 3 lines	•1.8GHz DECT Digital Technology •Multi Handset Capable - up to 6 handsets using one phone socket •Two-way communication between handsets anywhere without the base •Intercom/announce call transfer	
\$69.95 •Corded phone •Caller display capable •Handsfree capable	Uniden 2315 twin pack \$149.95 •Digital cordless •Popular •Feature Packed •2.4GHZ WDECT •Caller display capable •Handsfree capable •Headset capable	\$118 •Digital DECT •Color display •Multi handset compatible (up to 6 handsets) •Caller id compatible	\$88 •Digital DECT •Digital answering machine •Multi handset compatible (up to 5 handsets) •Caller id compatible	
Panasonic 1810 \$89.95 •Digital cordless •Special offer •Caller display capable •Handsfree capable	Uniden DSS7815 + 1 \$199.95 •Digital cordless •Feature Packed •5.8 GHZ DECT •Caller display capable •Handsfree capable •Headset capable	Oricom 2400 \$139.99 •Digital cordless •Stylish •Built in Digital Answer Machine •Caller display capable •Phonebook		



MULTIPLE ADSL PRODUCT BRANDS PRESENT IN THE MARKET AS SUGGESTED BY THE APPROVAL STATISTICS

Alcatel Lead The Statistics Till 2004, Recently Not Introducing New Products



This statistics does not reflect the sales popularity of individual products



ADSL EXAMPLES: TELECOM NEW ZEALAND RELIES SOLELY ON D-LINK

Alternatives And Retailers Use Other Brands

Alternatives And Retailers Use Other Brands						
Telco	offers	Retailer offers				
D-Link 502T \$99.95, free with self-install kit	<u>D-Link 504T</u> \$159.95, \$60 with self-install kit	Belkin ADSL \$99.99	Belkin ADSL2+ Wireless router \$299.99			
Single port ADSL modem ADSL or ADSL2 Modem USB or fast Ethernet port connection	ADSL or ADSL2 4-port Modem 4 port 10/100 ethernet router	Wireless ADSL router 4-port 10/100Base-T	Wireless ADSL router 4-port Wireless Router.			
D-Link 604T \$199.95, \$100 with self-install kit • ADSL or ADSL2 Wireless Modem • Connect wireless enabled devices together and to the internet	Dynalink 1025W \$244.90, \$179.95 with self-install kit • 4-port wireless ADSL router • Built in firewall • 4x 10/100Mbps Ethernet port	P-Link 604T \$219.99 • ADSL or ADSL2 Wireless Modem • Connect wireless enabled devices together and to the internet	\$218.00 • ADSL Wireless Router • Connect wireless enabled devices together and to the internet			



SEVERAL LARGE CHAINS DOMINATE THE MARKET OF ELECTRONICS RETAILERS

	<u> </u>	
Noel Leeming Computer City A great deal more!	 New Zealand largest electronics retailer Founded as NZ company, currently owned by a private equity group Sister chain of Bond and Bond with total of more than 90 stores through New zealand Operates large electronics stores on the suburbs of large cities and also an e-shop 	www.noelleeming.co
Harvey Norman COMPUTERS & COMMUNICATIONS	 Australian electronics chain expanding to other countries (including Slovenia in Europe) Operates large stores with electronics, furniture and home equipment in Suburbs of largest cities 21 stores in New Zealand 	www.harveynorman. co.nz
BOND # BOND	 New zealand chain, co-owned with Noel Leeming Chain of smaller electronics retail outlets, usually on main streets of large cities Smaller inventory compared to larger stores, but more prominent location of the stores At the moment 33 outlets in New Zealand 	www.bondandbond.
DICK SMITH That's where you go!	 Australian retail chain with electronics 52 locations around New Zealand Mid-size stores in wide range of NZ cities 	www.dse.co.nz
Smiths City Has if all!	 NZ retail chain with Furniture, Furnishings, Appliances, Sporting Goods and Outdoor Products 17 homeware stores in the South Island of New Zealand 	www.smithscity.co.n
OfficeMax® The new name for Boise	 Part of the office products world's leading company Business oriented supplier with catalogue, phone ordering as well as its own stores 18 locations in the largest cities of New Zealand Mid-size stores in central locations 	www.officemax.co.n
WAREHOUSE STATIONERY WITH PAIT FULL PRICES COMMANTEEN	 Part of the Warehouse retail chain – NZ largest discount general retailer Together over 85 locations Nationwide Large hypermarket stores in suburbs of large cities 	www.warehousestati onery.co.nz



New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



MARKET SPECIALTIES (I)

Fixed Line Remaining Very Popular, Dial-up Slowing The Growth Of Broadband Connections

Fixed line popularity

As the charts in previous chapters show, the introduction of mobile phones never really meant sharp decrease of fixed line, despite the virtual monopoly

The attractiveness of fixed line service lies primarily in Telecom's free local calls offering

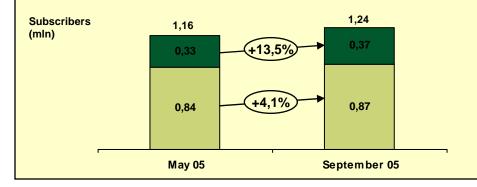
Savvy Kiwis then very often rather use fixed line to fixed line calling, despite all its disadvantages, instead of calling from mobile phone or even sending SMS

This applies for young subscribers and students as well, actually this target group is very strong in NZ, unlike in Czech republic

Dial-up competing with broadband thanks to FRIACO

NZ ISPs offer flat rate unlimited (without both time limit and data cap) dial-up connection for very affordable price

Given the rather slow speeds of ADSL, there is a little reason for the dial-up users to switch to ADSL, actually the number of dial-up users was growing in 2005



Popularity of fixed line is a strong prerequisite for ADSL growth



MARKET SPECIALTIES (II)

Phone Devices Often Equipped With An Answering Machine, All CPE Devices Need Authority Approval

Answering machine requirement

The popularity of the fixed line requires solutions to its disadvantages – high possibility that the called person is not at home

Despite the offering of voice mailbox by the operators, many residents require their phone device to be equipped with answering machine or buy a separate answering device

Therefore many corded as well as cordless phone devices are equipped or bundled with an answering machine feature

Authority approval of CPE devices - homologization

All CPE devices intended to be plugged into NZ telecommunication network require so called Telepermit – process simmilar to former homologization of products in Czech Republic

This applies to both ADSL modems and fixed telephones

As most current suppliers to NZ are likely to use simmilar components as Client, there is no doubt the Telepermit would mean only a time and effort complication, but should not prevent the possibility of introducing Clients products in NZ



MARKET SPECIALTIES (III)

Despite The Popularity Of Fixed Line, The Fixed SMS Service Is Not Offered, LLU Seen As Potential Impulse For Further Market Boost

Fixed SMS service

Despite the popularity and common use of the fixed line, no fixed SMS service is offered and none of the producers supplies SMS enabled phone devices (at least they do not promote them)

Question is whether the fixed SMS service could compete with free local calling in combination with answering machines

SMS service is not vastly popular among the users, even though free texting on weekends and low priced SMS package of Vodafone may support its growth

If Client decided to enter the market it would either have to introduce the SMS service simultaneously or find another feature of its products to promote

Local Loop Unbundling (LLU)

LLU intended to be implemented at the end of 2006 as a part of a broader regulatory package directed towards boost of further competition and broadband penetration

As the Internet access penetration is rather high, the main goal is to induce offerings that would shift the users from dial-up connections to ADSL

Together with LLU the planned package contains also introduction of naked DSL and unfettered UBS together with QoS and speed caps removal

These steps are seen as revolutionary and should bring New Zealand to levels common in other OECD countries with simmilar level of GDP per capita

As the incumbent opposes the suggested reforms, the actual implementation may be delayed

SMS feature of products may not be usable as a competitive advantage without the service introduction



MARKET SPECIALTIES (IV)

WiFi Coverage Rather Low Throughout NZ Cities, In General Price Competition Not Very Common In New Zealand

WiFi coverage

Unlike in the Czech Republic, probability of connecting to someone elses WiFi network is lower in New Zealand cities

This suggests that although the broadband penetration is slightly higher, people prefer cheaper CPE devices, which bring them the basci functionality, most often for free as a part of the provider package

As the market mature, people will soon discover a need for more advance networking products, especially as Kiwis live in houses and like flat-mating, therefore should soon need higher coverage of their home

These products will be mostly sought in the aftermarket, most often supplied by retailers

Low price competition

The very last specialty is related to the market in general

In New Zeland, the price competition is very rarely seen. Most competitive services or products are priced equally, which is valid for gas at petrol stations, restaurants as well as broadband services

This situation suggests, that entering the market other than price elemants need to be used in order to win the market share over competition

Advanced ADSL products for the aftermarket could mean an opportunity



New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

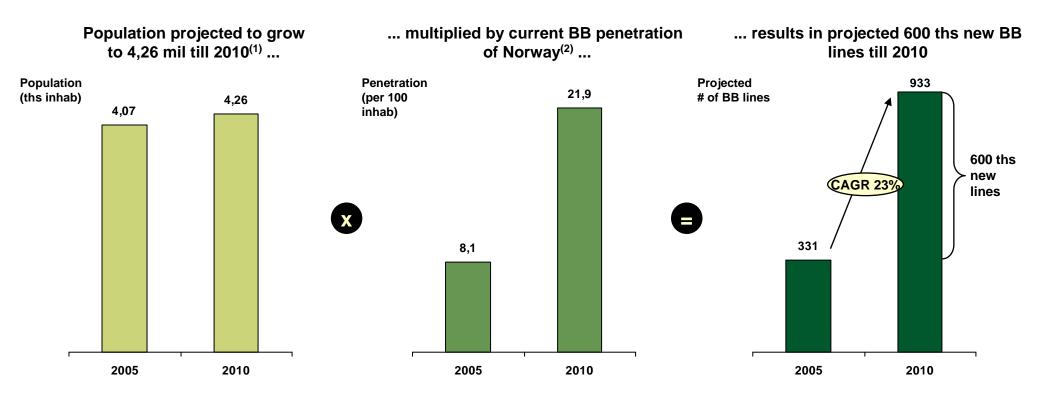
Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



PPA PROJECTION OF THE MARKET SIZE SUGGESTS 600 THS NEW **BROADBAND CONNECTIONS TO BE INSTALLED TILL 2010**

Assuming New Zealand Reaches Current Level Of Norway Till 2010



At average price of 50 NZD per ADSL CPE the market is in total worth 30 mil NZD over the next five years



New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



PROS AND CONS OF ENTRY TO NEW ZEALAND MARKET

Broadband Market Further Penetration Will Require Corresponding Products, Fixed SMS Representing Threat As Well As Opportunity

Pros of the NZ entry

Developed country with lower than average penetration of broadband

- 600 ths new ADSL lines projected for next 4 years
- Significant aftermarket could be opening up
- Large number of dial-up users to be migrated to ADSL if proper advantage offered
- LLU might boost ADSL in New Zealand

Fixed line service is very popular opening the space

Decent distance from Asia favoring direct shipments at lower cost

Absance of SMS service offering an opportunity of entering the market together with fixed SMS service

Market dominated by Telecom New Zeland and several retailers – market could be to a large extent covered by supplying the incumbent and some retailers

Cons of the NZ entry

Rather isolated market with a population of 4,5 million inhabitants – lower than Slovakia

Distance from CZ headquarters not allowing full control

No current presence nor experience in the market

Entry without established partner might be difficult

Several local competitors already challenging major brands like Panasonic

- The market niche for non-branded products could be already taken
- Some of the vendors may be using same product designs as Client in CEE thus prohibiting entry to the market with some of products

No fixed SMS service taking away one of Client's products competitive advantages

Should Client decide to go forward with the market entry, further analysis will be required



RECOMMENDATION AND NEXT STEPS

Given the size and current situation, New Zealand market seems to be worth considering as an option of market entry

• Especially if considered together with Australia market entry

Detailed findings besides those outlined in this report should be discussed in person

If the Client decides to pursue the option of market entry to New Zealand, several further analysis will have to be carried

- Analysis of business potential of NZ market entry
- Conduct further research as to potential partners and distributors
- Outline entry strategy regarding the sought competitive advantage of Client's products and introduction of fixed SMS
- Seek anchor partner a telco or retailer upon which the intitial business could be based
- Decide under which brand to supply current or other brand for local market

Juppa Management Consulting would be more than happy to help with this further issues



New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



AUSTRALIA SUMMARY



Australia is a highly developed country with double the population of Czech Republic, vast area of two thirds of Europe and 50% higher GDP than Czech Republic

Further growth of the population (especially thanks to immigration of skilled migrants) as well as of the economy is forecasted

Australia is ahead in the fixed line penetration of CEE countries, and in line in mobile phone penetration – broadband penetrations is higher than that of CEE countries and New Zealand, but still lower than the GDP per capita level would suggest

Market is still characterised by a strong position of the former monopoly Telstra, but thanks to early privatisation, deregulation and LLU several strong competitors in all market areas have emerged

Optus, AAPT (Telecom New Zealand) and Primus Telecom are the major competitors in fixed lines and broadband

On the other hand the dominance of the market by one strong player allows covering the market by one partnership, if properly managed



New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



PPA AUSTRALIA WITH TWICE THE POPULATION OF THE CZECH REPUBLIC AND AREA OF 2/3 OF EUROPE'S

The GDP per Capita Higher by One Half

Main indicators (I)			Main indicators (II)				
	2005	2000	CAGR %		2005	2000	CAGR %
Total population (mil)	20,44	19,27	1,2	Number of employing businesses	837 078	814 955	0,9
Area (sq km)	7 617 930						
Density of population	2,68	2,53		Retail sales (mil AUD)	204 536	149 422	6,5
GDP (AUD mil)	859 192	738 123	3,1				
GDP per capita (AUD)	42 511	38 764	1,9				
Average weekly earnings (AUD/week)	1028	803	5,1				
Population growth (%)	1,14						
Unemployment (%)	5,5						*
CPI index (%)	2,5						* *
Exports (as % of GDP)	18,1						*



CITIES: SYDNEY AND MELBOURNE WORLD METROPOLIES

Brisbane, Perth And Adelaide With More Than 1 Mil Inhabitants

Map of Australia

Alice Springs Brisbane Sydney Canberra Melbourne

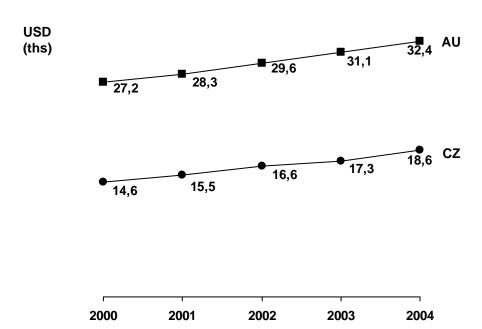
Largest urban areas of Australia with # of inhabitants

Urban area	Inhabitants
Sydney	4280900
Melbourne	3353300
Brisbane	1544300
Perth	1390800
Adelaide	1130100
Newcastle	485100
Gold Coast	381300
Canberra	322700
Wollongong	266200
Sunshine Coast	227800
Hobart	205200
Geelong	156200
Townsville	137300
Cairns	126000
Launceston	103700

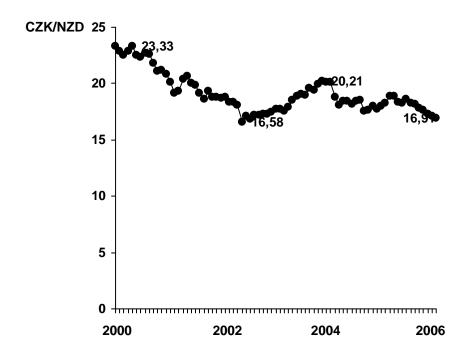


GDP PER CAPITA GROWING STEADILY, EXCHANGE RATE DROPPED RATHER SHARPLY IN 2006

Australia overgrows CZ with GDP per capita PPP, staying far ahead



The exchange rate vs. CZK decreasing continuously, drop in the first half of 2006 gets the rate back to historic minimums





New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



NEW ZEALAND TELECOMMUNICATION MARKET OVERVIEW

Total number of telephone subscribers growing at 10% a year

- Number of fixed lines slowly growing thanks to broadband applications
- Majority of the growth of subscription can be attributed to mobile pones, which complement fixed lines rather than sustitute them

Compared to most of the countries served by Client, Australia is at the top of both fixed line and mobile penetration and its position is very simmilar to that of Greece

Fixed line penetration favors the broadband implementation, doubling every year at 100% a year growth rate, but still the total penetration is right between the CEE countries and the developed European countries

- 13,8 broadband connections per 100 inhabitants, 80% of which are DSL lines
- Only around 85% of fixed lines are DSL enabled, which makes Australia one of the most penetrated countries at its level of DSL enabled fixed lines
- Further growth could benefit from increased DSL enablement

Further development of the market is being influenced by several factors

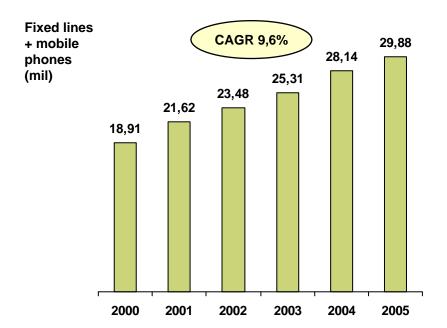
- Free local calls make a fixed line a must have for most of the Australians
- Unlimited dial-up connection for a flat fee slows down broadband growth and makes mobile data plans inferior



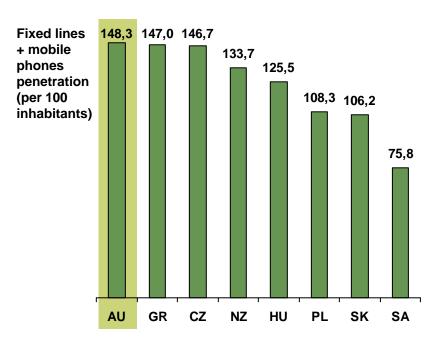
NUMBER OF PHONE SUBSCRIPTIONS RISING STEADILY, AUSTRALIA WITH HIGHER PENETRATION THAN CEE

148 Phone Subscriptions per 100 Inhabitants

Australia number of phone subscriptions rising steadily at 9,6% a year on average



Australia aligned with Czech Republic and Greece in the total subscriptions penetration



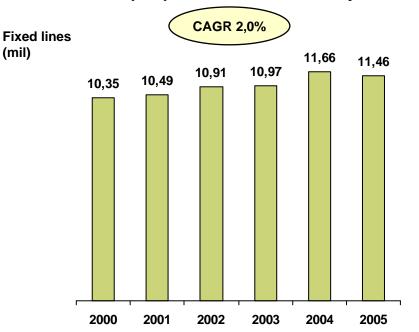
The structure of total subsriptions to be analyzed further



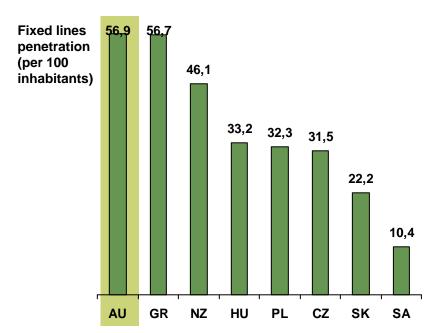
TILL 2004 THE NUMBER OF FIXED LINES WAS DECENTLY GROWING, DROP IN 2005 MAY MARK FUTURE TREND

The Penetration Is Higher Than In Client's Countries Except Of Greece

Number of fixed lines growing till 2004, in 2005 first drop experienced, further trend yet unclear



Only Greece has simmilar fixed line penetration to Australia, other Client's countries lag behind



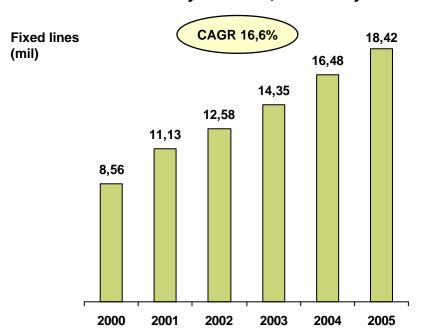
Constant number of lines combined with growing population results in declining penetration



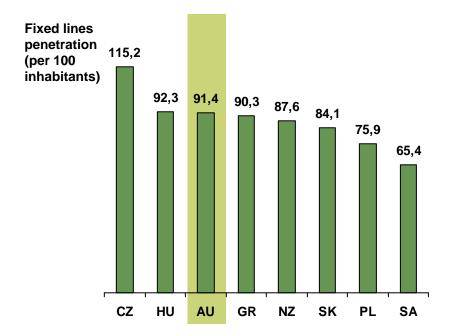
MOBILE PHONES OVERGROWING FIXED LINES AT 18% CAGR, PENETRATION MAY BE REACHING ITS MAXIMUM

Unlike in CZ, The Strong Growth Did Not Lead To Fixed Lines Decline

Number of mobile phones rising sharply in last five years at 16,6% annualy



Mobile phones penetration behind the Czech Republic, levelled with Hungary and Greece



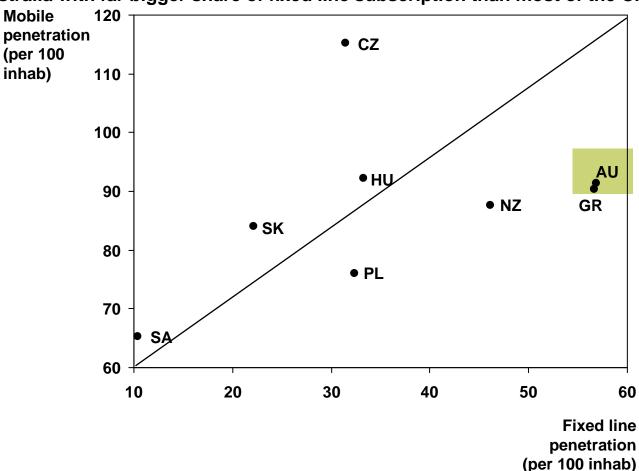
Mobile phones are not substituting fixed lines in Australia



AUSTRALIA IN VERY SIMMILAR POSITION TO GREECE REGARDING THE FIXED/MOBILE PENETRATION

Both Markets Likely To Show Common Characteristics

Australia with far bigger share of fixed line subscription than most of the Client's countries





New Zealand

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- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

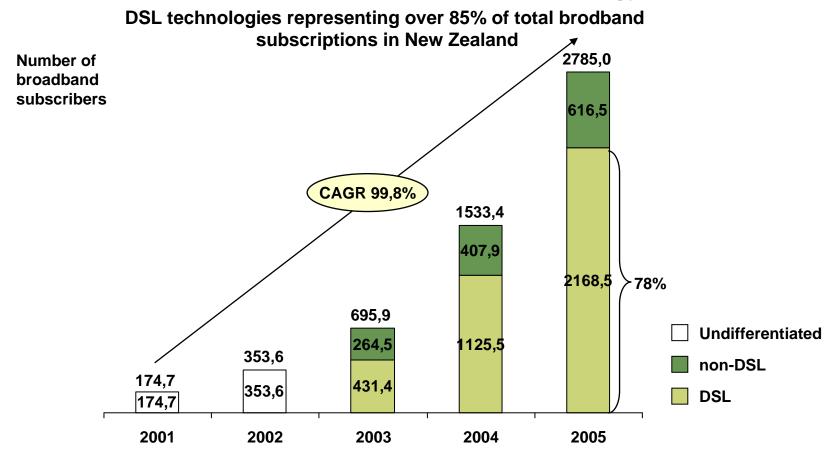
Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
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- Projection of development
- Conclusions



NUMBER OF BROADBAND CONECTIONS HAS BEEN DOUBLING EVERY YEAR SINCE 2001

With DSL As The Main Technology

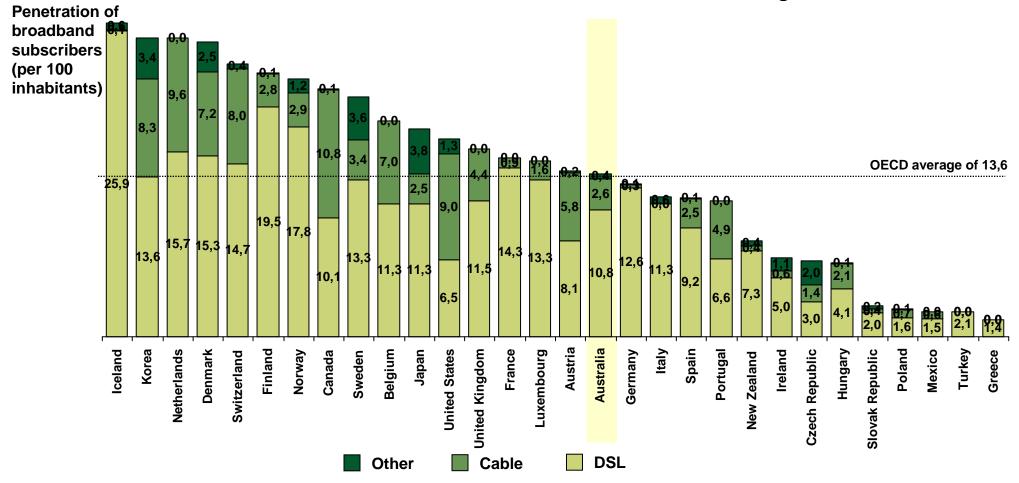




AUSTRALIA EXCEEDS GERMANY, ITALY AND SPAIN IN BROADBAND PER CAPITA PENETRATION

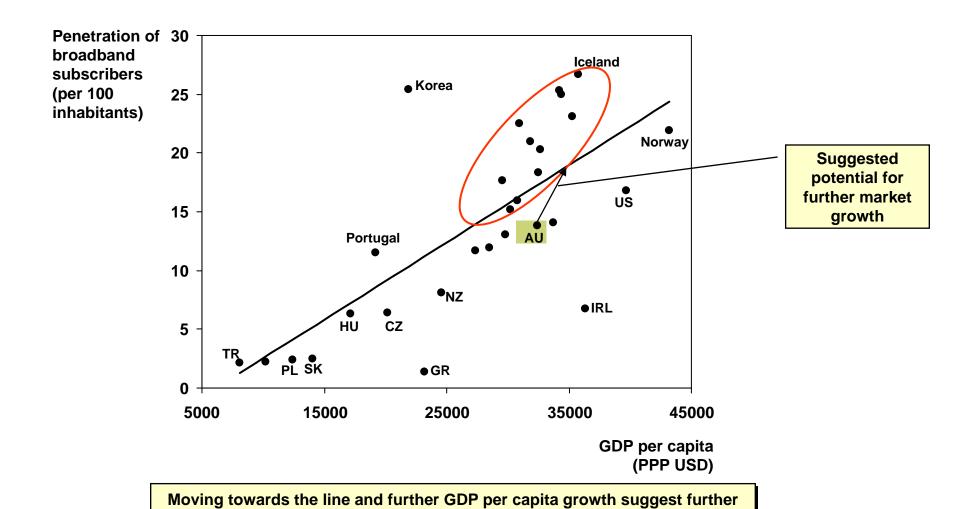
But Still Far Below The OECD Average Or Top EU Countries

Australia with fair share of other than DSL broadband technologies





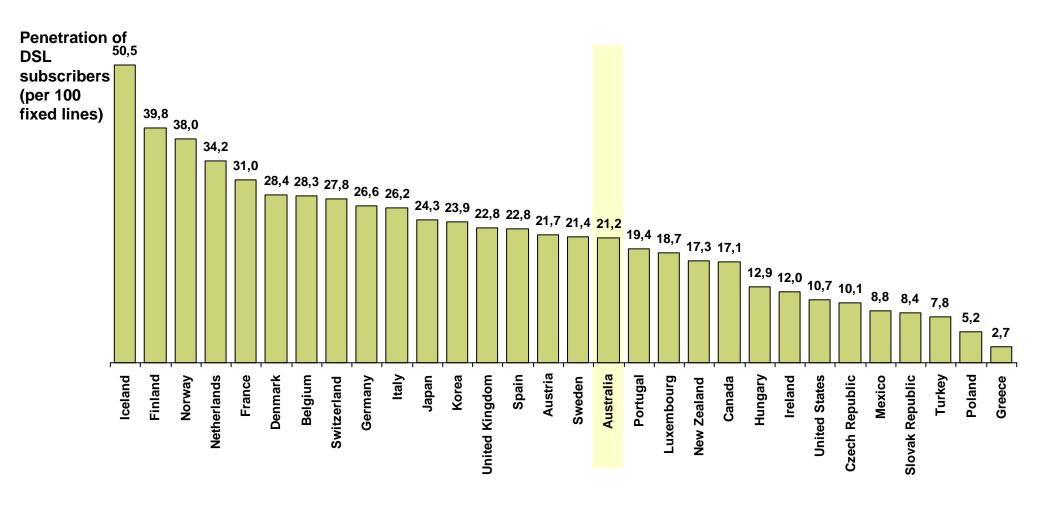
AUSTRALIA FAR BELOW THE LEVEL OF BROADBAND PENETRATION SUGGESTED BY ITS GDP PER CAPITA



potential for broadband penetration



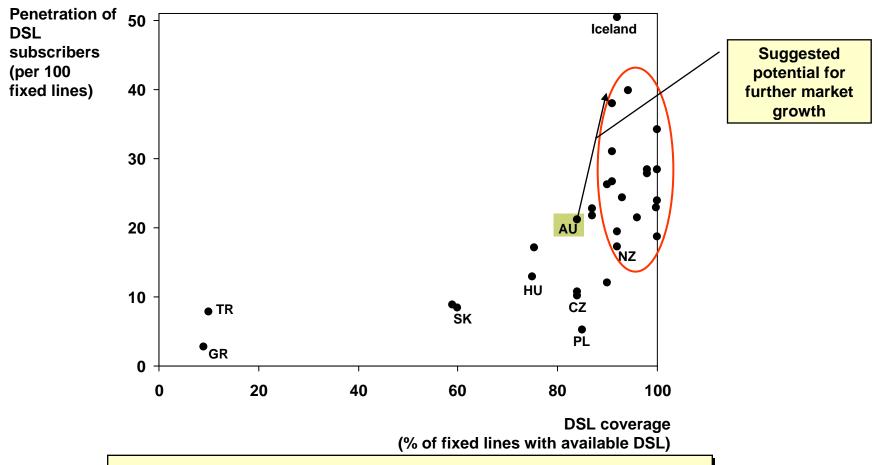
ONLY ABOUT 21% FIXED LINES WITH BROADBAND SUBSCRIPTION, CLOSE TO OECD AVERAGE





PPA AUSTRALIA ONE OF THE MOST PENETRATED MARKETS AT ITS LEVEL OF ENABLEMENT

Much Higher Penetration Than CZ At The Same Level Of Enablement



Further enablement and penetration into levels of more advaced countries can be expected



RECENT LOCAL STUDY MARKED NEW ZEALAND WITH A C-MARK FOR ITS BROADBAND VALUE

Especially For Its Prices And Service Performance

Country	Grade	Ranking	Business	Residential	OECD Ranking ¹¹	e- readiness ¹²
Sweden	Α	1	1	2	9	4
Netherlands		2	4	8	3	6
Norway		3	8	3	7	11
Canada	В	4	5	10	8	9
Germany		5	13	4	18	12
United States		6	3	6	12	2
Spain	1	7	6	5	20	23
Slovakia	100	8	11	9	26	36
Finland		9	7	7.	6	7
Portugal		10	2	14	21	25
Czech Republic		11	10	11	24	29
France	c	12	25	1	14	19
Iceland		13	9	23	1	-
Belgium		14	16	15	10	17
Denmark		15	12	16	4	1
Italy		16	18	12	19	24
Australia		17	21	13	17	8
Austria		18	17	24	16	14
Switzerland	7	19	14	17	5	3
United Kingdom		20	23	19	13	5
Hungary		21	15	26	25	30
New Zealand	D	22	24	18	22	14
Luxembourg		23	22	21	15	-
Ireland		24	20	20	23	15
Poland		25	19	25	27	32
Mexico	Т	26	26	22	28	39

Australia

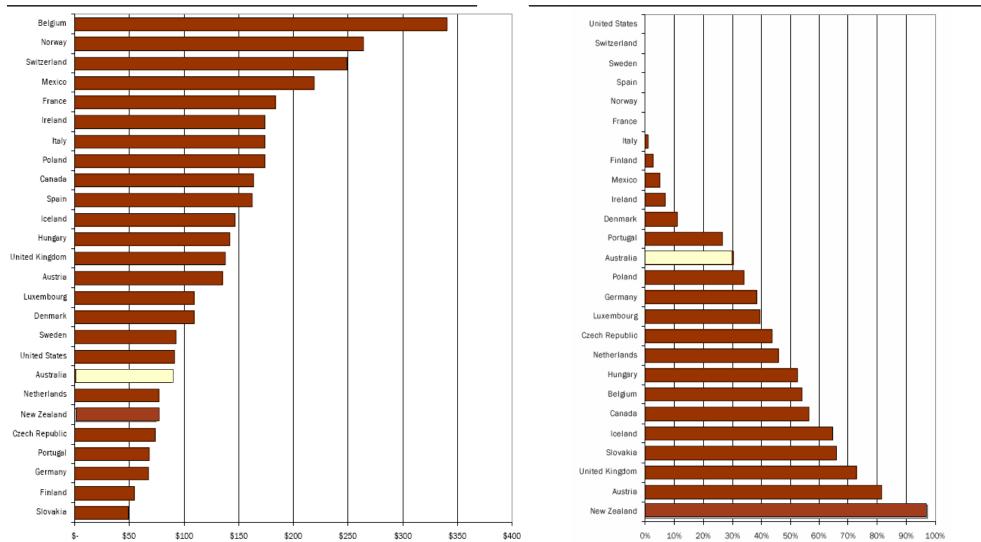
The Australian market is disappointing both in terms of price and service performance. Australia ranked 17th overall in terms of value and the data produced particularly poor results for business-oriented packages, where it ranked 21st. Australia has a wide variety of plans available and a number of high speed options are starting to emerge. However, these are limited and overall performance levels are poor. This was particularly the case for upload speeds, where Australia ranks worst out of all 26 countries. Though only around 30% of plans employed data caps, where they were used they tended to be low and have a high cost implication for exceeding them.



AUSTRALIA SLIGHTLY ABOVE THE CZECH REP FOR THE MONTHLY COST, PERFORMS RATHER WELL IN DATA CAPS

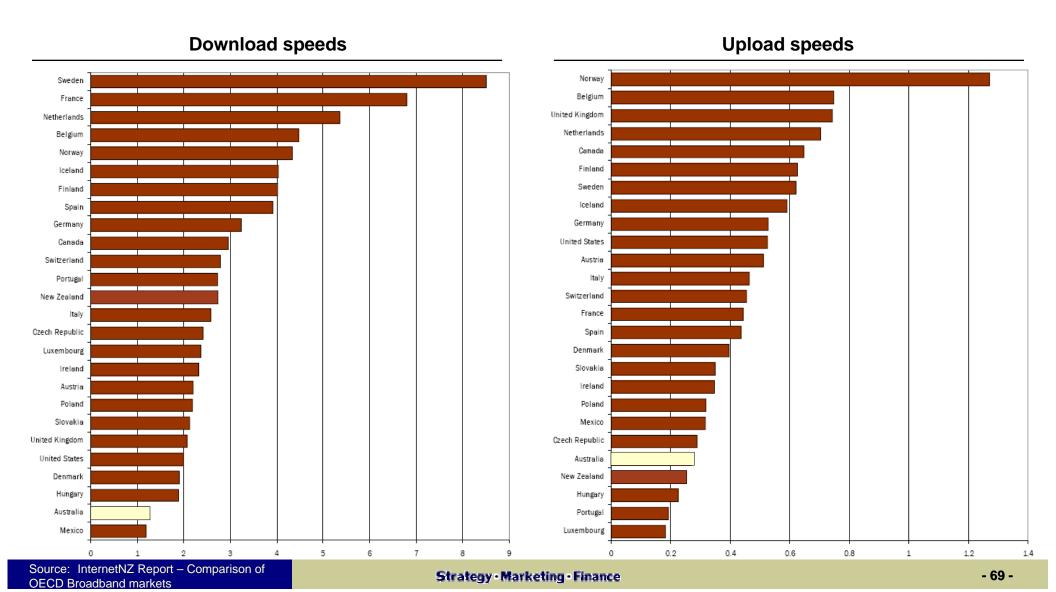
Monthly subscription cost

Data caps (% of plans limited by a cap)





AUSTRALIA PERFORMS VERY POORLY IN TERMS OF ADSL SPEEDS, ESPECIALLY ON DOWNLOAD SIDE





New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions



AUSTRALIAN TELECOMMUNICATION MARKET INCURS HIGH FIXED-MOBILE INTEGRATION

The Largest Players Offer All – Fixed Line, Mobile, Broadband And Content

Telecommunication market dominated by Telstra, the former incumbent

- Despite the LLU and deregulation it still dominates the fixed line market
- It overcompetes other players also in the mobile market being australian number one
- Other ISPs either resell Telstra's ADSL or offer competitive technologies in smaller scale
- LLU enabled several alternative Telcos offer far faster connection than the incumbent

Optus is the second largest telecommunication company in Australia

- Built its own network in largest cities, which is used for services for businesses
- Resells Telstra's ADSL while also offering its own smaller ADSL network and cable broadband
- It challenges Telstra also in the mobile market, being number two ahead of Vodafone and Three

Through AAPT Telecom NZ challenges Telstra in its home field, protecting its home market

So far it is number three fixed operator offering voice and broadband services

LLU since 1999, despite this fact Telstra still dominates the market with its retail and wholesale offerings and is criticised for slow development of ADSL – slow speeds with upper limits and rather low data caps



FIXED MARKET FULLY DEREGULATED IN 1997 Several Well Established Competitors Challenging Incumbent Telstra

Telstra (Telecom Australia)

Former incumbent

- Founded on 1975 as postal spinoff
- Partly privatized in 1997
- Public Limited Company
- 51,8% still owned by the government, further privatisation expected

Operates fixed as well as mobile network

Owns all copper line PSTN service in Australia

Most revenues come from fixed service

Fixed lines: 10,2 mil

Revenue: AUD 20 737 mil

Capital Expeniture: AUD 3 757 mil

Operates also in New Zealand

www.telstra.com.au



Optus

Second largest australian telecommunications company

100% daughter company of Singapore Telecom (Singtel)

Operates its own network in largest cities as well as resells products of Telstra

Own fixed lines: 1,28 mil Revenue: AUD 7 192

Ofers broad scale of telecommunications services

www.optus.com.au

AAPT

Third largest australian telecommunications company

100% owned by Telecom New Zealand

Fixed lines: 0,45 mil



www.aapt.com.au

Primus Telecom

Fourth llargest full service carrier

US based fixed operator claiming to define standards of service excellence in Australia

www.aapt.com.au







BROADBAND ISP MARKET DOMINATED BY TELECOM'S DSL, OTHER TECHNOLOGIES AND OPERATORS MINOR

Higher Broadband Penetration Is Slowed Down By Dial-Up Popularity

BigPond (Telstra)

Owns majority of the infrastructure and is the dominant provider of the DSL

 Alternative DSL providers resell its products

Offers also cable and satellite broadband

Critised for limiting the ADSL speed to 1.5 Mbps downstream

Legally obliged to offer its service for wholesale

ADSL lines: 1 173 000

LLU unbundling done in 1999, impact on the ADSL market questionnable

www.bigpond.com



OptusNet

Number 2 broadband provider

Offers cable connection, DSL connection through its own network a resells Telstra's DSL on existing phone lines

Broadband connections:

ADSL 257 000 Cable 289 000

www.optusnet.com.au

Others

Either limited to reselling Telecom products (Telstra), using different than DSL technologies or running their own small scale networks in limited areas.

Since 1999 can utilize LLU.

iiNet own DSLAMs

Primus

TPG Internet

Westnet

AAPT (Telecom NZ)

People Telecom

Internode

Exetel

Netspace

Dodo

Comindico





TWO LARGEST FIXED TELCOS LEAD ALSO THE MOBILE MARKET, 3G ALREADY IMPLEMENTED BY ALL OPERATORS

Significant Fixed-Mobile Integration Present In The Market

Telstra Mobile	Optus	Vodafone	3 (Three)
Former telco incumbent, number 1 mobile operator	Number two mobile operator	Number 3 australian mobile operator	Number four mobile operator
Operates GSM, CDMA and 3G network covering entire Australia	Daughter company of SingTel	Part of the largest worldwide mobile group	Owned by Hutchinson Telecom, operating mobile networks in other
Subscribers: 8 572 000	Operates GSM and 3G network	Operates GSM and 3G network	countries of Europe and Asia
Offers mobile broadband services in its 3G network	Subscribers: 6 486 000	Subscribers: 3 126 000	Formerly known as Orange
Plane to replace all its	Rents its network to Virgin Mobile MVNO	www.vodafone.com.au	•
Plans to replace all its three networks with a			Operating only 3G network, abandoned its
single WCDMA network	www.optus.com.au		previous CDMA network after migrating customers
www.telstra.com.au			Subscribers: over 1000000
			www.three.com.au
- elstra	'yes'	O	











New Zealand

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in New Zealand
- Market specialties
- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions

Conclusions and next steps
Appendices



GENERAL POSITION OF PHONES AND ADSL MODEMS AS A CATEGORY

Fixed phones are sold by Telstra (through its TelstraShops) as part of its service offering and through retailers

- Other telcos do not sell fixed telephones
- Price ranges are simmilar except of special offers or subsidized offers by the telcos with longer term subscription

Most common CPE brands simmilar to New Zealand (Uniden, Oricom, Panasonic), Telstra brands some of the fixed phones with its own name

Despite the popularity of fixed line service, simmilarly to CEE, fixed phones are not a hottest item to be bought at electronics retailers, which is reflected by their position in the shops and catalogues

- Electronics retailers would usually have on stock a limited range of models, which are most often displayed in secondary display areas
- Some electronics retailers would fail to sell fixed phones as such
- In the mailers, leaflets and catalogues fxed phones are mostly hidden amoing the broad offer of mobile phones and either shown at the end of "phone" page or not shown at all

Often the phones are equipped with answering machine as calling to fixed line is very common despite the spread of mobile phones

Cordless phones and multiple phone models are common as people usually live in larger houses and have their gardens, therefore need further reach of their fixed line



SEVERAL LARGE CHAINS AND GROUPS DOMINATE THE MARKET OF ELECTRONICS RETAILERS

WIARNET OF ELECTRONICS RETAILERS				
DICK SMITH That's where you go!	 One of largets Australian electronics retailers Part of Woolworths Limited Group Operates around 190 large electronics stores countrywide 	www.dse.com.au		
<u>Harvey Norman</u>	 Australian electronics chain expanding to other countries (including Slovenia in Europe) Licenses franchises for large stores with electronics, furniture and home equipment in Suburbs of largest cities At the moment with 527 franchise stores in Australia 	www.harveynorman. com.au		
THE GOOD GUYS DISCOUNT WAREHOUSES	Australian chain of discount electronics warehouses Operates large warehouses in large cities	www.goodguys.com .au		
BIGW WE SELL FOR LESS	 Australian retail chain with over 120 discount department stores Carries also electronics items Part of Woolworths Limited group Turnover of 2,9 billion AUD in 2005 	www.bigw.com.au		
BING LEE BESTADVICE, BEST PRICE	 One of largest australian electronics chains in New South Wales 35 stores mostly in Sydney area Founded in 1958 	www.binglee.com.au		
ELECTRICAL	 Australian network of independent franchised electronics stores United under one brand in order to remain competitive against largest players and obtain volume discounts from its vendors Runs also its own branded stores Currently 41 own stores, 260 franchised stores and 100 independent stores 	www.betta.com.au		
harristechnology /	 Member of Coles Myers Group Australian electronics retail chain One of tope 5 IT resellers Supplies all major IT brands 8 large businesses centers 	www.ht.com.au		



New Zealand

- General & economy information
- Fixed line market overview
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- Competitive landscape & main players
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- Market specialties
- Projection of development
- Conclusions

Australia

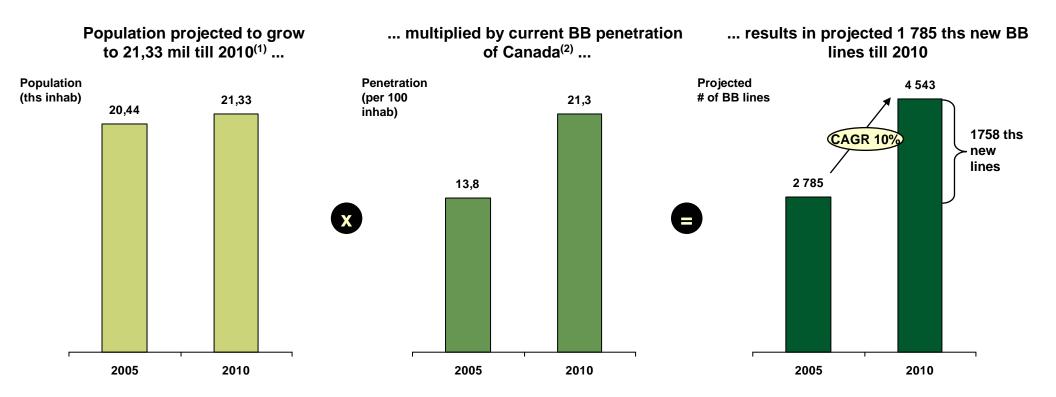
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Conclusions and next steps
Appendices



PROJECTION OF THE MARKET SIZE SUGGESTS 1 785 THS NEW BROADBAND CONNECTIONS TILL 2010

Assuming Australia Reaches Current Penetration Level Of Canada Till 2010



At average price of 50 AUD per ADSL CPE the market is in total worth 88 mil AUD over the next five years



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Conclusions and next steps
Appendices



FIXED SMS SERVICE OFFERED IN AUSTRALIA BOTH RETAIL AND WHOLESALE

Dominant operator offers the Fixed SMS service as both retail and wholesale offering since 2004

The fixed SMS messages are delivered in a simmilar way as in the Czech Republic

- As a text to SMS enabled fixed phones or terminals
- As voice to the devices without the functionality (marketed under Voice Text™ brand name)

The service enables mobile originated as well as fixed line originated messages and sending to both fixed and mobile numbers

Other operators use Telstras wholesale offering for tailoring their own services

Introduction of the service was followed by the emergence of fixed SMS enabled services

The cost of retail Telstra offering is 0,25 AUD per SMS sent to australian number, 0,35 AUD for SMS sent worldwide

Client can benefit from this fact as a market follower with its fixed SMS enabled devices



PROS AND CONS OF ENTRY TO NEW ZEALAND MARKET

Broadband Market Further Penetration Will Require Corresponding Products, Attractive Market To Be Characterised By Tough Competition

Pros of the Australia entry

Developed country with lower than average penetration of broadband

- 1785 ths broadband connections projected for next 4 years
- Significant aftermarket could be opening up
- Removing speed limits and data caps could boost further compatition and growth

Fixed line service is very popular opening the space

Decent distance from Asia favoring direct shipments at lower cost

Presence of SMS service enables the Client to utilize competitive advantage of its products

Market dominated by Telstra and several retailers – market could be to a large extent covered by supplying the incumbent and some retailers

Cons of the Australia entry

Given its size, development and proximity to Asia, the market is likely to be highly competitive

Distance from CZ headquarters not allowing full control

No current presence nor experience in the market

Entry without established partner might be difficult

Several local competitors already challenging major brands like Panasonic

- The market niche for non-branded products could be already taken
- Some of the vendors may be using same product designs as the Client in CEE thus prohibiting entry to the market with some of products

Presence of fixed SMS service making it harder for the Client to offer its own fixed SMS center

Should the Client decide to go forward with the market entry, further analysis will be required



RECOMMENDATION

Given the size and current situation, Australia market seems to be a very attractive option of market entry

 New Zealadn entry could be considered simultaniously to benefit from mutual synergies (partners, customers, processes)

Detailed findings besides those outlined in this report should be discussed in person

If the Client decides to pursue the option of market entry to Australia, several further analysis will have to be carried

- Analysis of business potential of Australian market entry
- Conduct further research as to potential partners and distributors
- Outline entry strategy regarding the sought competitive advantage of products
- Seek anchor partner a telco or retailer upon which the intitial business could be based
- Decide under which brand to supply current or other brand for local market

Juppa Management Consulting would be more than happy to help with this further issues



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Australia

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- Competitive landscape & main players
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- Conclusions

Conclusions and next steps

Appendices



CONCLUSIONS AND NEXT STEPS

Both New Zealand and Australian CPE markets were found attractive enough to be worth considering the market entry

Applies to broadband products as well as telephones

I would like to present and discuss the findings of this report and further details not covered in person at the final presentation of the research outcome

Before any decisive actions are taken, several further analysis have to be carried on

The entry is unlikely to be successful without finding a corresponding partner at the target markets



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- Projection of development
- Conclusions

Australia

- General & economy information
- Fixed line market overview
- Broadband situation
- Competitive landscape & main players
- CPE market in Australia
- Projection of development
- Conclusions

Conclusions and next steps

Appendices



APPENDICES

- I. Telco and retailer catalogues and leaflets
- II. Independent reports
 - WC Comparison of OECD broadband markets
 - OECD Benchmarking broadband prices
 - ISCR telecommunications usage in New Zealand
 - IDC EVENT FLASH New Zealand Telco Sector Metamorphosis: Government Invokes Extensive Portfolio of Telecommunications Regulation
 - Datamonitor Fixed Line Telecoms In Australia
 - Datamonitor Communications Equipment in Asia-Pacific
 - BAG Australias Broadband Connectivity
 - DCITA Australia's broadband strategy
 - DCITA Overview of the Australian ICT industry
- III. Press articles
- **IV. Statistics**