

IT education and IT industry in New Zealand

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Introduction

- New Zealand's IT industry is largely based on the development of software in niche industries
- IT education is comprehensive at the tertiary level
- More development is needed at the school level



Tertiary IT Education

- 7 Universities
- 19 Polytechnics and Institutes of Technology
- All the universities offer degrees in IT subjects
- Nearly all of the polytechnics and Institutes of Technology offer IT degrees, diplomas and/or certificates



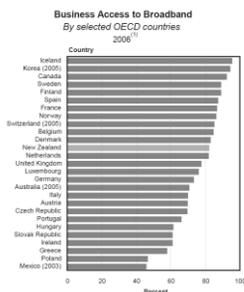
School IT Education

- Earlier this year NZCS released a report reviewing the current state of ICT-related NCEA Achievement Standards in schools. The highly detailed report, reviewed by a team of 13 senior ICT academics and professionals, found that none of the standards were suitable and recommended they be urgently reviewed and replaced.
 - New Zealand Computer Society, November 2008



NZ Business Broadband

- The business broadband table is indicative of where New Zealand sits generally in the international IT market



Software New Zealand

- New Zealand's software industry spans a group of ten high-performing 'creative' sub-sectors, which include
 - Computer services
 - Publishing
 - Television
 - Film
 - Fashion design
 - Music
 - Advertising



Software New Zealand

- Vertical market applications include
 - engineering applications
 - Embedded software supporting electronic devices
 - creative industries
 - Special effects
 - Games
 - Broadcast support software



Particular Strengths

- Health
- 3D digital games
- Entertainment
- Internet & PC security
- E-learning
- Knowledge, document & image management
- Telemetry systems
- Mobile/Wireless



NZ as a Test Bed

- New Zealand is a beacon for advanced wireless and mobile internet innovation
- It is the world's ideal test bed for trial deployment of global fixed and mobile wireless technologies and applications
 - Most of the population live in 5 cities
 - Almost half the population live in one city (Auckland)



IT Industry Statistics

- Data from Statistics New Zealand is not current
- Detailed statistics are only available for 2002
- However these still give a idea of the importance of the industry today



IT is Important to NZ Economy

- New Zealand's software industry, as part of the broader ICT sector, has been identified as a hi-growth sector with the potential to more than double its contribution to the growth of New Zealand's economy. The ten high-performing 'creative' industries, including software, are currently growing at around 8.7% annually — more than twice the country's economic average. The last five years' export statistics record a steadily increasing upward curve in sales of software and computer services. This figure barely scratches the surface as figures for the sale of software services are not included.
 - *Source: Statistics on Information Technology (Statistics New Zealand and Ministry of Economic Development, 2002)*



IT Industry Profile

- 7,544 ICT firms with annual sales of less than \$5 million
- 171 with sales above \$5 million
- 84 companies with annual sales that exceed \$20 million generate approximately 75% of the sector's contribution to GDP and 84% is generated by 16 companies with annual sales that exceed \$100 million
- New Zealand-based activities of multinationals currently comprise approximately half of the 16 companies that have a turnover exceeding \$100 million per annum
- With a nominal GDP for 2002 of \$122,300 million, software sales amounted to \$822 million up 36% from \$604 million in 1998
- Exports of software comprised \$121 million of the 2002 figure

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NZ Software Companies

- NZ has a number of major software companies that give a feel for the nature of the industry
 - Intergen
 - Olsen Software
 - Datacom JADE
 - Orion Health

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Intergen

- Provider of Microsoft .NET Framework and Microsoft Dynamics based solutions
 - top 5% of Microsoft Dynamics partners worldwide



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Olsen Software

- Produces HyperText Studio for web development



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Datacom

- New Zealand's largest, locally owned, full service IT company
 - custom system development and integration
 - systems engineering and support
 - ongoing systems and site management
 - business process outsourcing
- 2007 revenue \$253m
- 1,341 staff



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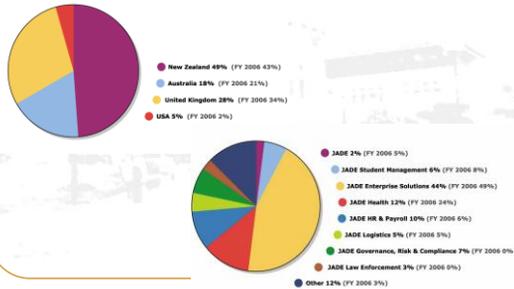
JADE Jade Software Corporation
For the World's Best Information Systems

JADE

- Integrated computing platform
- Products for the healthcare, higher education, HR and payroll, and logistics sectors.
- JADE technology used in over 2000 organizations worldwide
- Employs 300 people in New Zealand,
- Revenue from Operations grew from \$16.9 million in the first half of last year to \$23.1 million in the six months to 30 June 2008.

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JADE Markets and Products



Market	Percentage
New Zealand	49%
Australia	18%
United Kingdom	28%
USA	5%

Product	Percentage
JADE 2%	5%
JADE Student Management	6%
JADE Enterprise Solutions	44%
JADE Health	12%
JADE HR & Payroll	10%
JADE Logistics	5%
JADE Governance, Risk & Compliance	7%
JADE Law Enforcement	3%
Other	12%

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Orion Health

- A leading provider of clinical workflow and integration technology for the healthcare sector.



The slide features a background image of a hospital interior with a blurred view of a reception desk and a person in a white coat. The Orion Health logo is positioned in the upper left of the image area, and the tagline 'Connecting Healthcare Data' is centered below it, with the subtext 'Within Facilities | Between Organisations | Across Regions' underneath.

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Summary

- NZ has a strong IT sector
- Based largely on specialist software
- IT education is strong at the tertiary level
- IT education in schools needs further development