



**Australian Computer Society**

**Northern Territory Survey Report**

**September 2007**

This report was analysed and written by the Centre for Innovative Industries Economic Research Inc for the Australian Computer Society. The report was edited by Ian Dennis for the ACS.

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## About ACS



ACS is the leading professional body in ICT in Australia. Members of the ACS are professionally qualified and accredited.

ACS has over 14,000 members nationally. Of these, some 50% are directly involved in the Australian ICT Industry with approximately 60% holding senior management positions. ACS also supports a large student membership.

In addition to our professional members, over 1000 ICT practitioners participate in ACS Special Interest Groups (SIG), including ICT Governance, E-Commerce, Service Oriented Computing, IT Quality and Telecommunication SIGs.

## About CIIER

**Centre for Innovative  
Industry Economic  
Research Inc.**

CIIER is an Asia-Pacific Centre, formed to create a facility, repository, and think-tank for consistent, competently researched, up-to-date, and analysed data on employment, markets, revenue streams, R&D, processes and management methods, specifically focussed on high technology, innovative, and emerging industries.

CIIER produces the *'Top 250' ICT Industry Research Report*, widely recognised as the leading creditable indicator of trends in the Australian ICT industry, in co-operation with Whitehorse Strategic Group Ltd, and conducts detailed analysis and reporting on Information Technology. Reports include the *National Study of the Australian Software Industry & Vertical Applications Markets (The Australian software industry and vertical applications markets: Globally competitive, domestically undervalued)* for the Federal Government (DCITA) in 2005-06; the *ICT Skills Snapshot* for the Government of Victoria in 2005-6; and Reports on other high technology industries, including energy and biotechnology.

**EXECUTIVE SUMMARY**

## Survey Validity

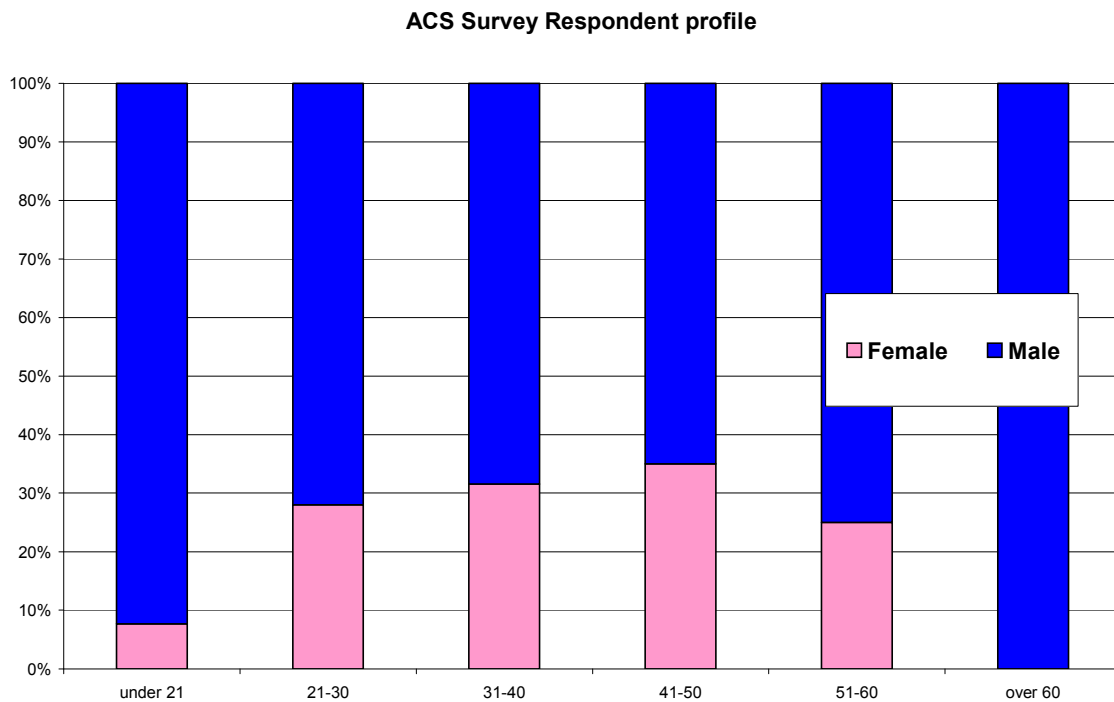
The major value of a Survey is in its ability to be used to model the group surveyed and to accurately reflect that cohort. It is therefore important to establish the validity or otherwise of the Survey data, by comparing its structure to that for ICT professional employment.

- 244 detailed responses
- Nearly 10% of the NT ICT work-force
- ICT professional and technical people
- Range of ages, occupations, and industries
- Telecommunications under-represented

Conducted in early 2007

The following comparisons show the relative percentages applicable to the responses, the ACS membership, and ICT professional and technical employment in Northern Territory, based, in the main, on Department of Employment and Work-place relations data.

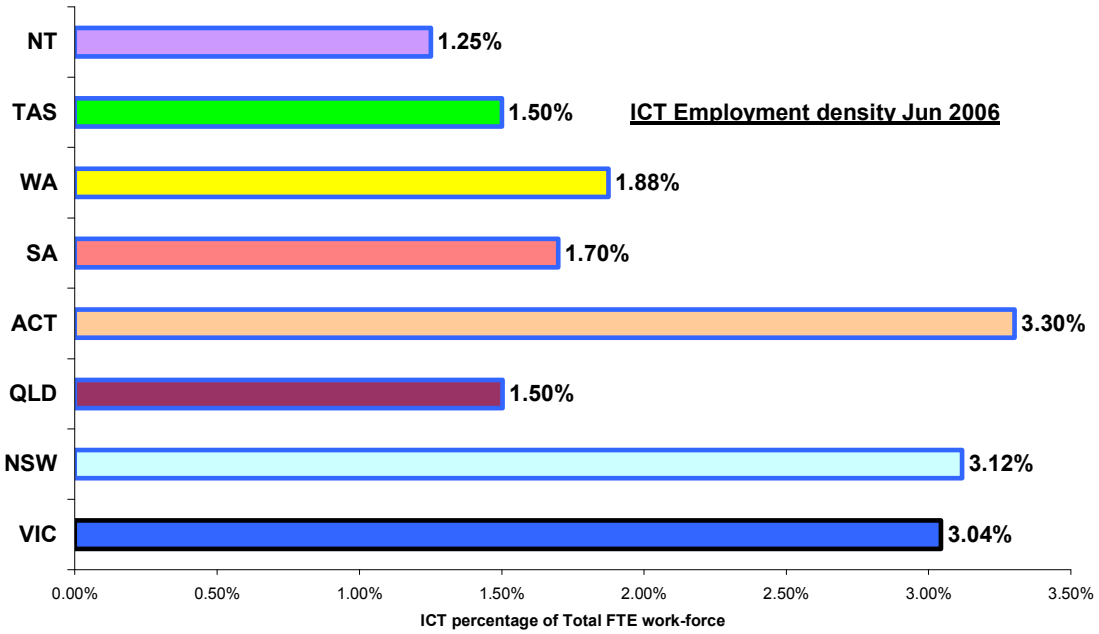
The relative seniority of respondents is underscored by the overweight representation of the senior professional grades ( Member, Senior Member, Fellow), within the survey respondents.



ABS and CIER data shows 24% of professionals in the ICT industry workforce are female and 76%, male, however DEWR data indicates that 19% of ICT technical and professional employment in all industries is female. The survey analysis following, in relation to gender issues, should be evaluated in this light.

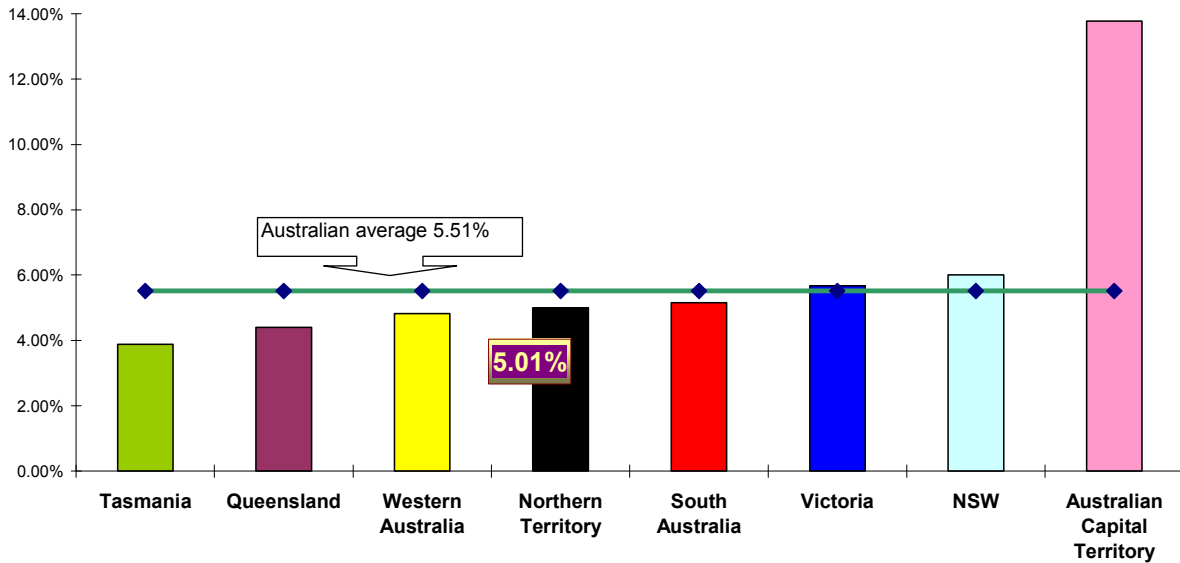
# Analysis of the ACS Northern Territory Survey

## Employment

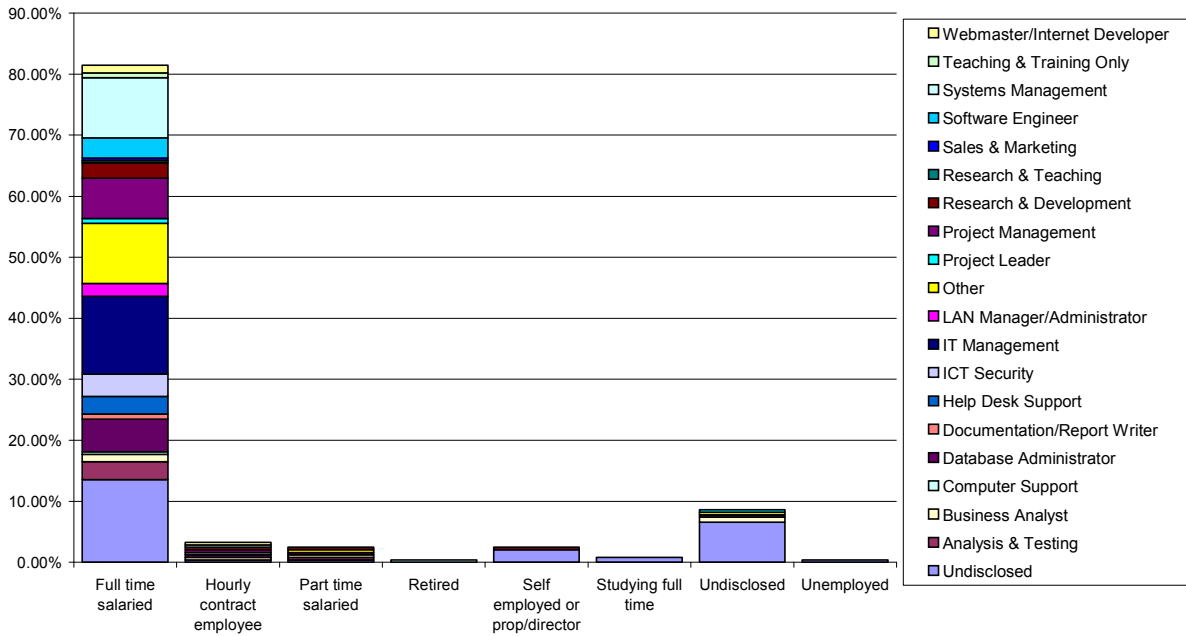


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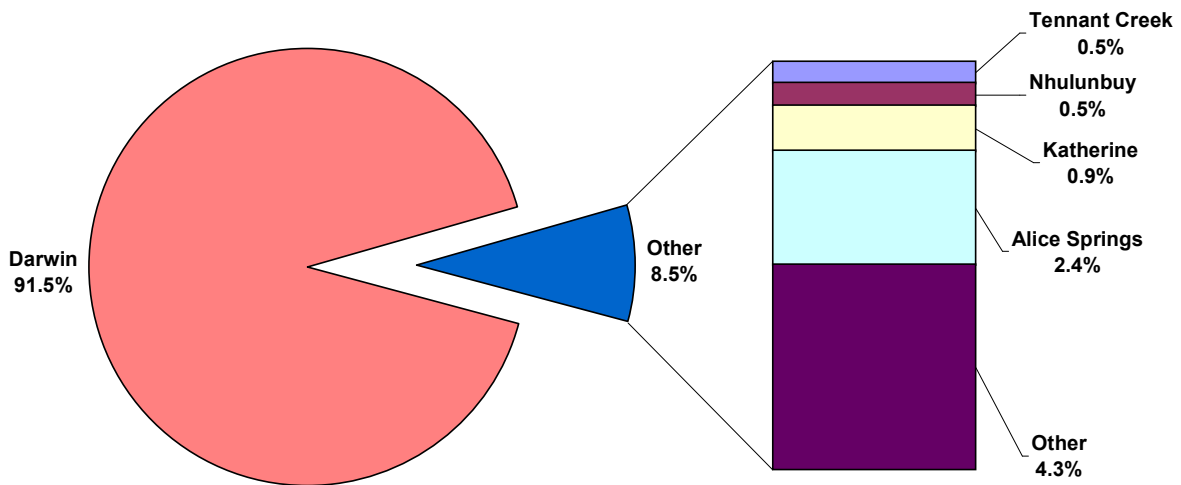
**ICT Employment Density**  
( ICT technical and professional employment  
as a percentage of total FTE employment )  
DEWR March 2006



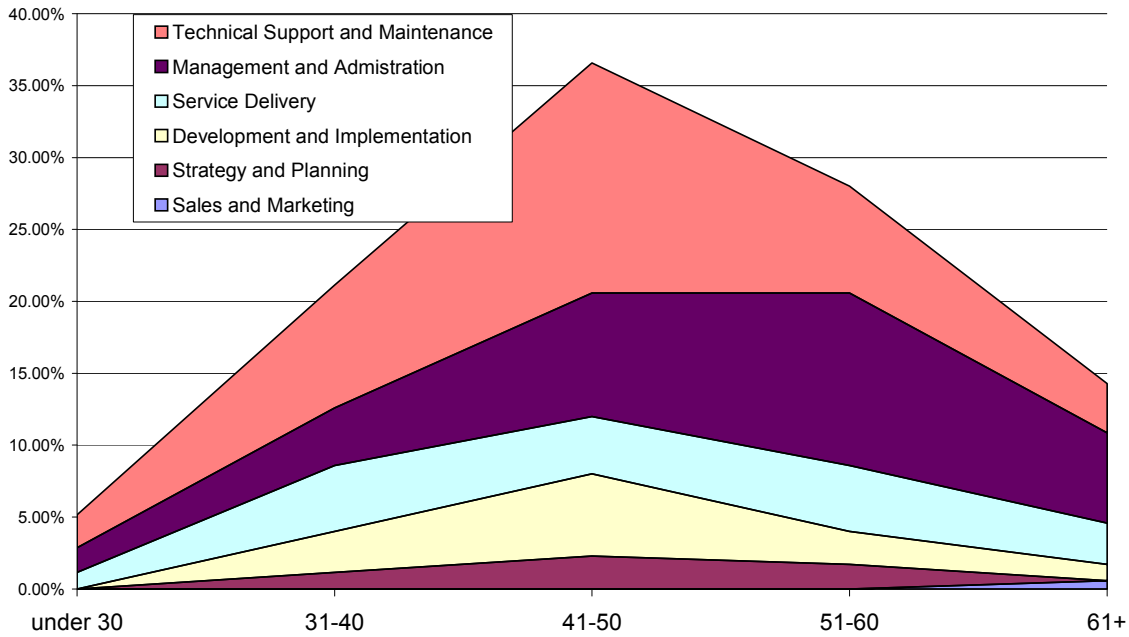
### NT Employment characteristics



### Location



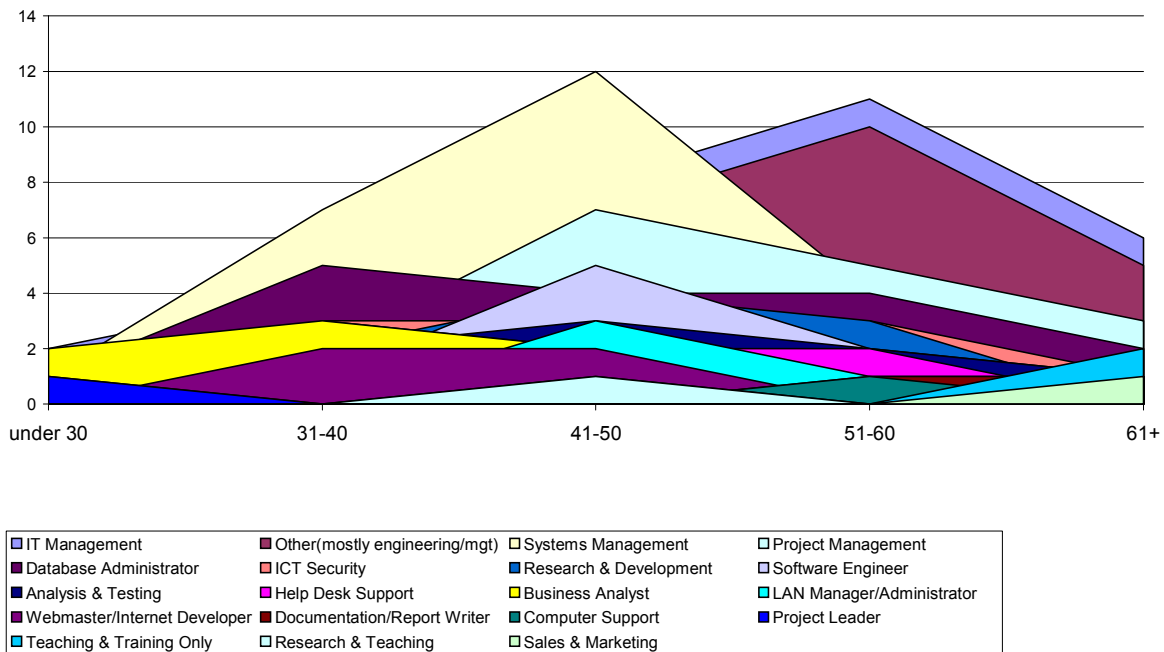
### NT ICT Age-Group by Job skills group



The chart above clearly shows that there are completely different, and understandable, age-profiles for each of the main job/skill groups.

The National analysis indicates a younger overall age profile for development and technical support, peaking in the 21-30 age-group, with a slightly older age profile for service delivery, peaking at the 31-40 age-group, an older age profile for management and administration, peaking at the 41-50 age-group, and a more even profile for strategy and planning, which, although it does peak at the same point as management and administration, is much less subject to age-group variation. NT data shows

### NT Age-group by Job (detail)



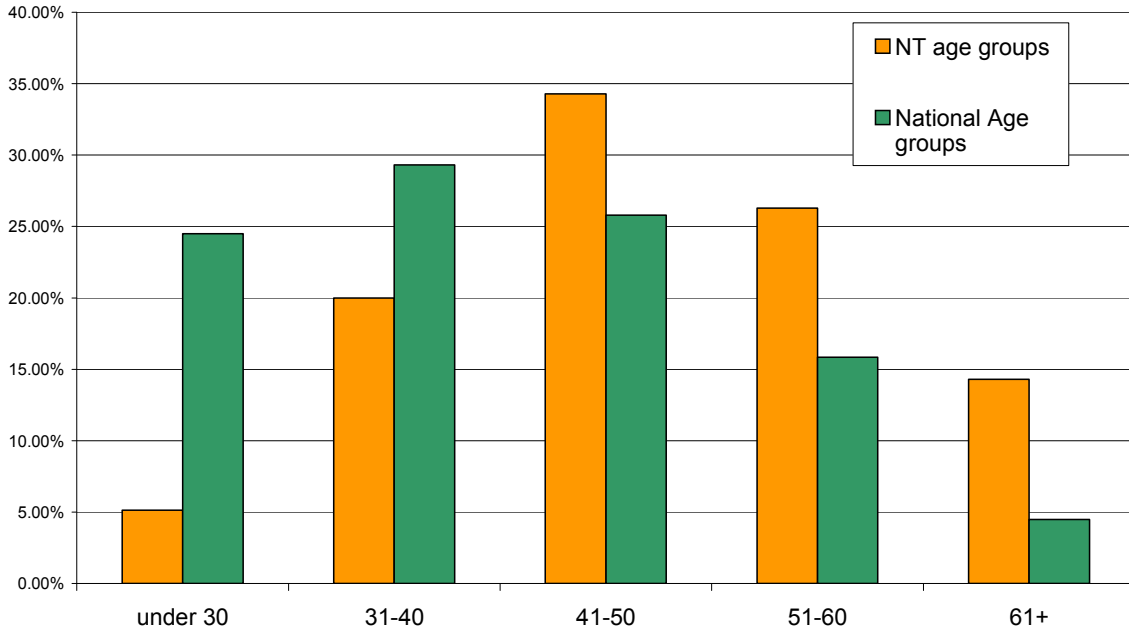
The process of quantifying likely future shortages in ICT skills groups can be greatly assisted by an improved understanding of age-profiles as such knowledge allows for more accurate projections of



the rate of “new” job entrants to the job-skills identified, rather than the proportion normally filled by transfer or promotion from other job-skills.

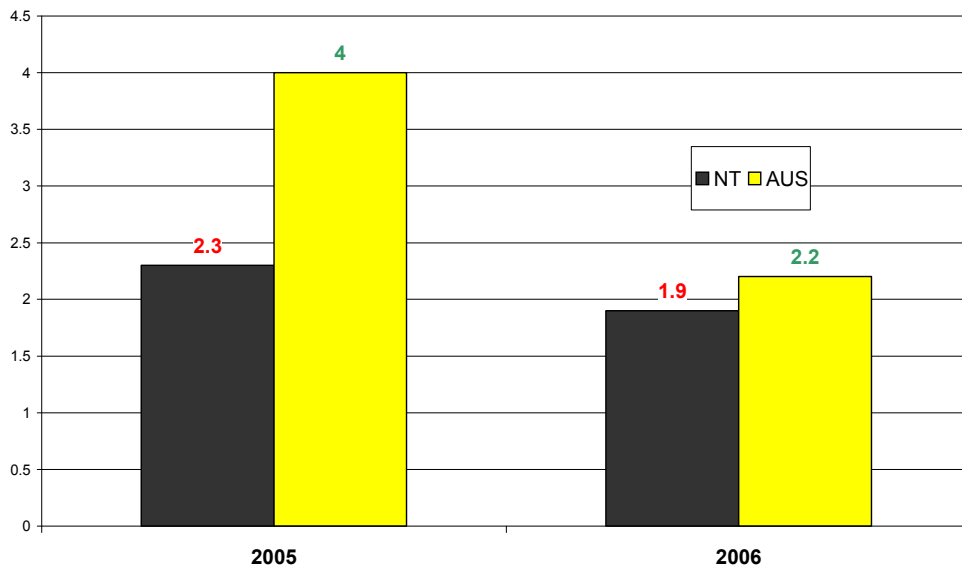
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**ICT Age Profile NT v National**

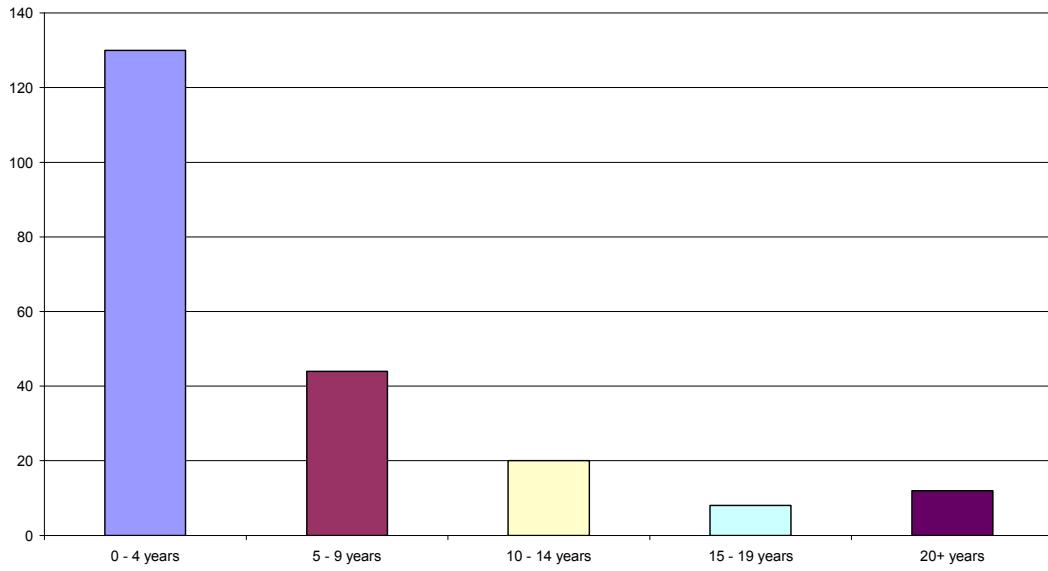


As a general rule, unless the age distribution is such that there are no respondents at all at the lowest age-point, then the lower the average and median age profile for a particular job-skill, the higher will be the proportion of new entrants to such jobs.

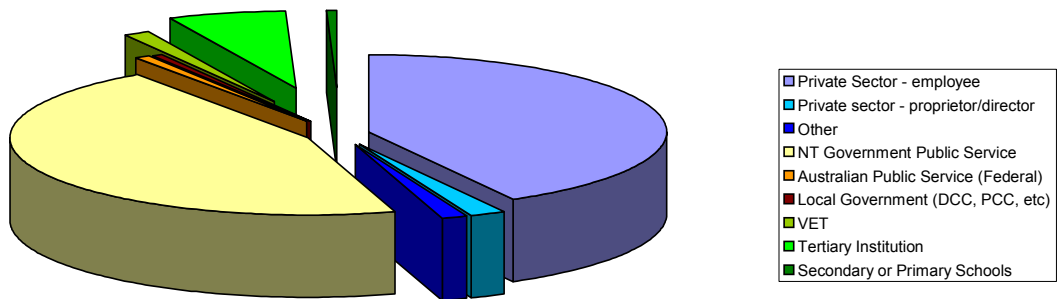
**Suitable applicants for each ICT vacancy (DEWR)**



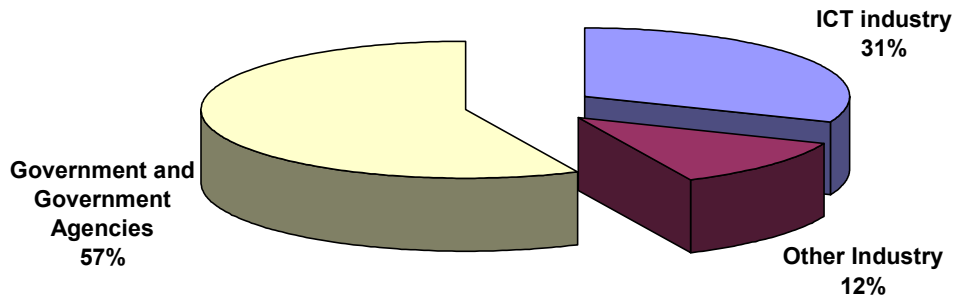
### Longevity of employment

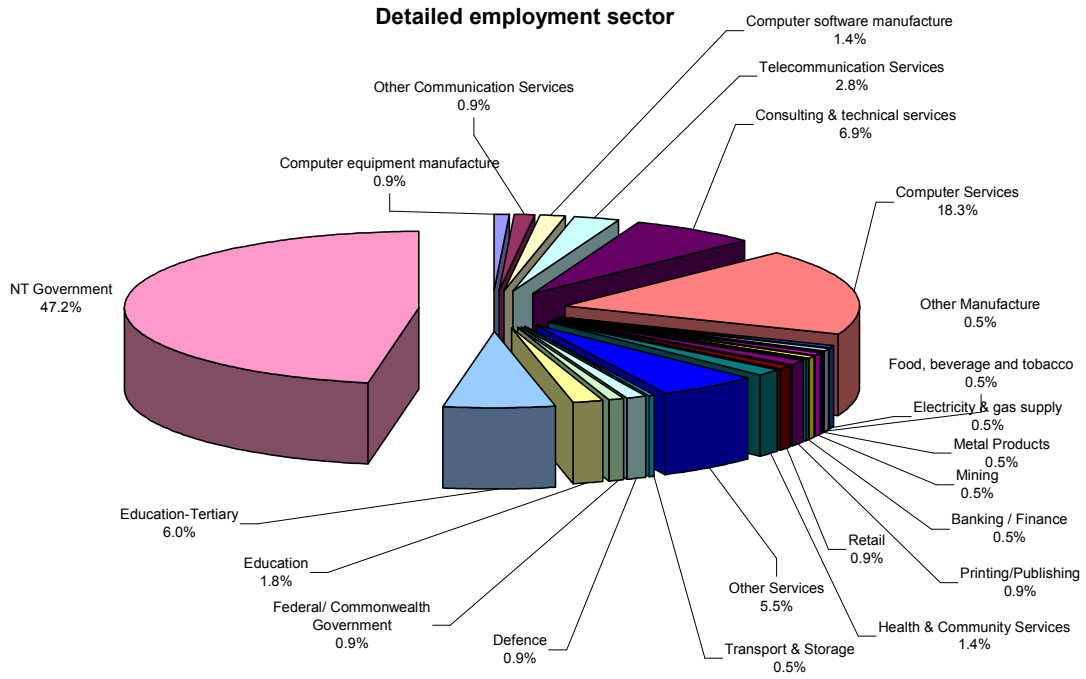


### Employment sector



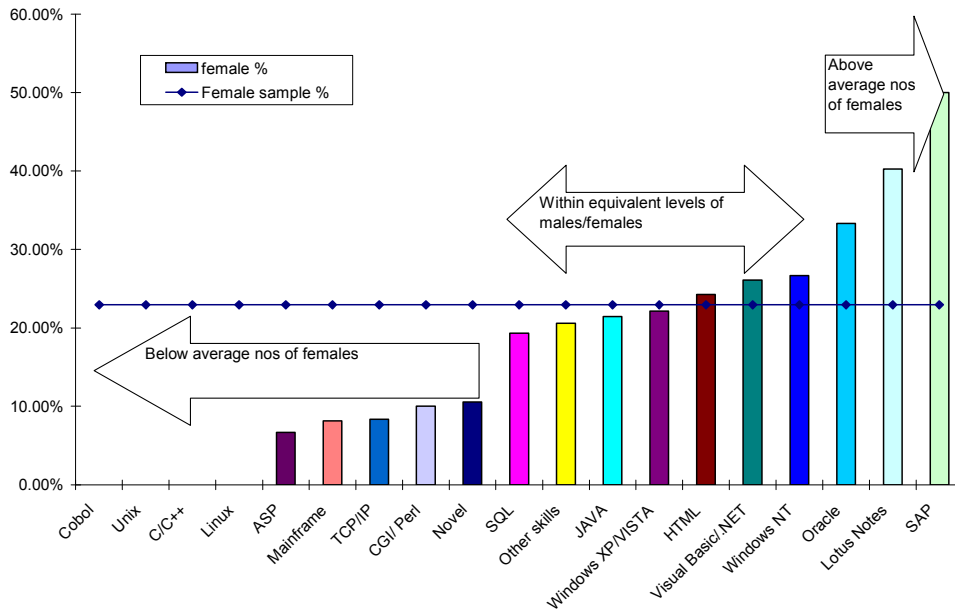
**Employment sector groups**





## Gender Issues

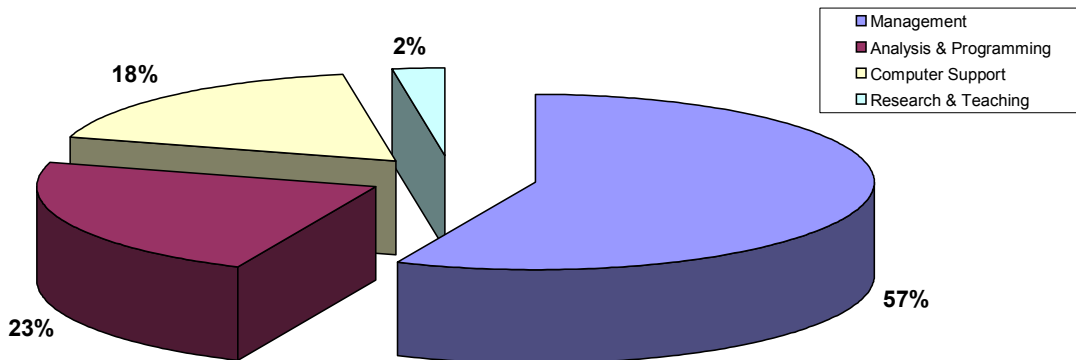
### Females - Skills distribution



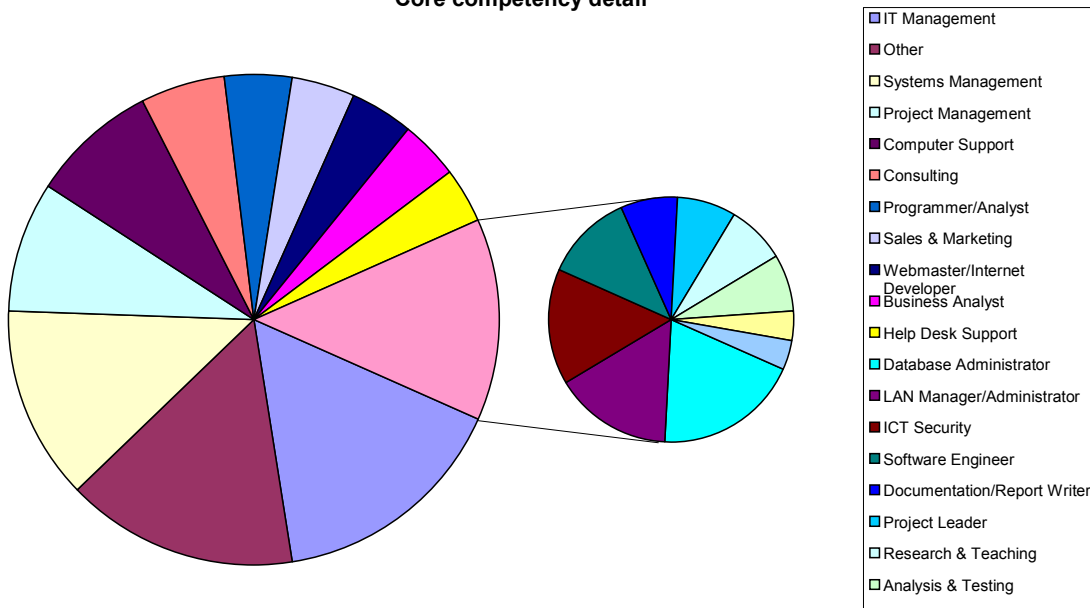
### ***ICT Employment Competencies and Skills***

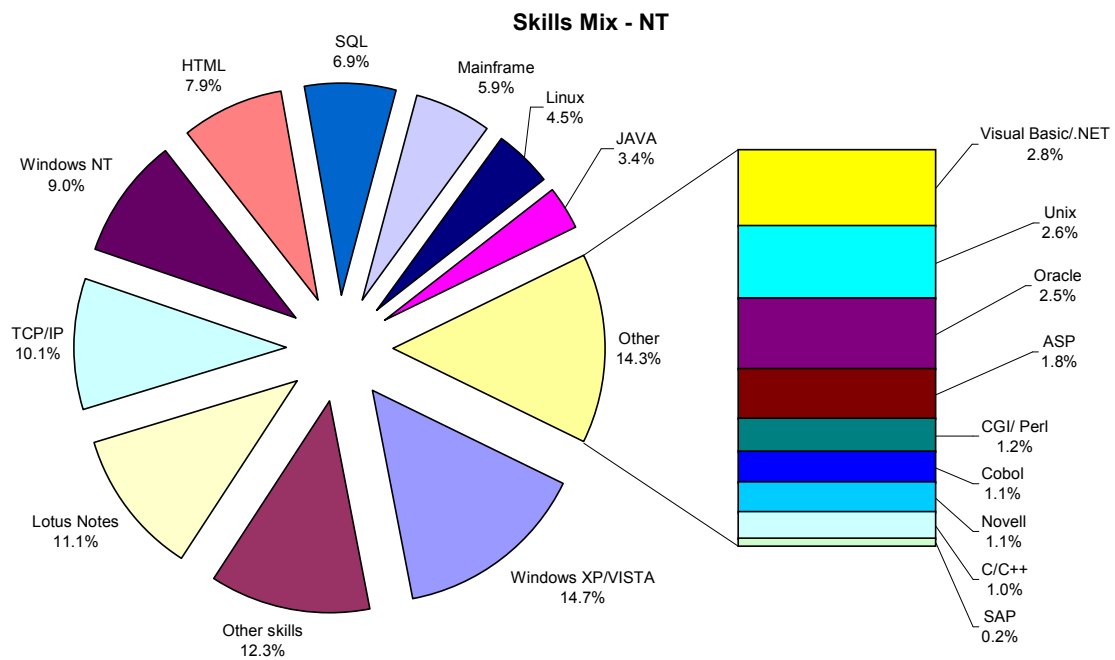
Nearly 40% of respondents classified their skills group as “development and implementation”, whilst just over a quarter felt that they could more accurately be described as “management and administration”. Service providers were the next largest group, followed by strategic planners. Sales and marketing represented a small 2% of respondents, perhaps suggesting either a lower than optimum level of accredited ICT professionalism in this group, or a perception by ICT sales and marketing professionals who are ICT practitioners, that ACS does not offer them appropriate networking and professional development opportunities.

### Core Competency groups

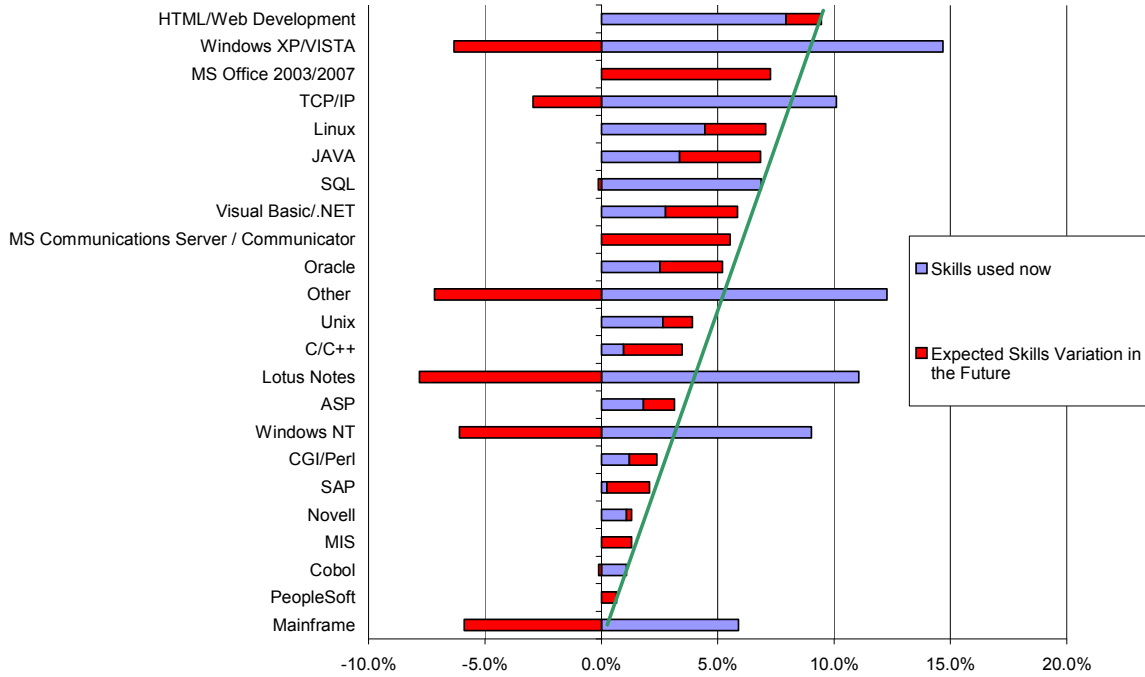


### Core competency detail

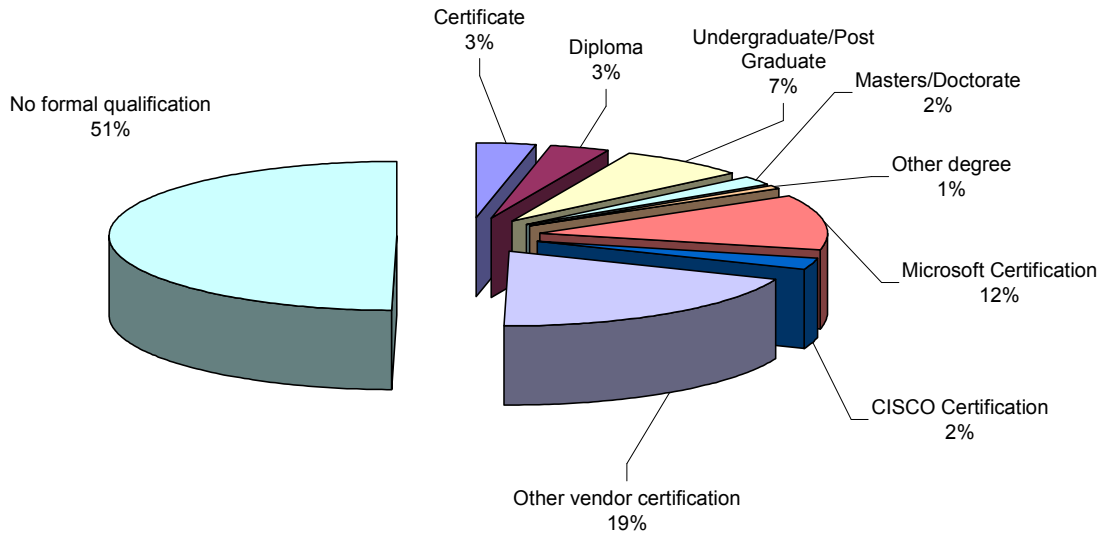




### Skills mix - size and anticipated changes

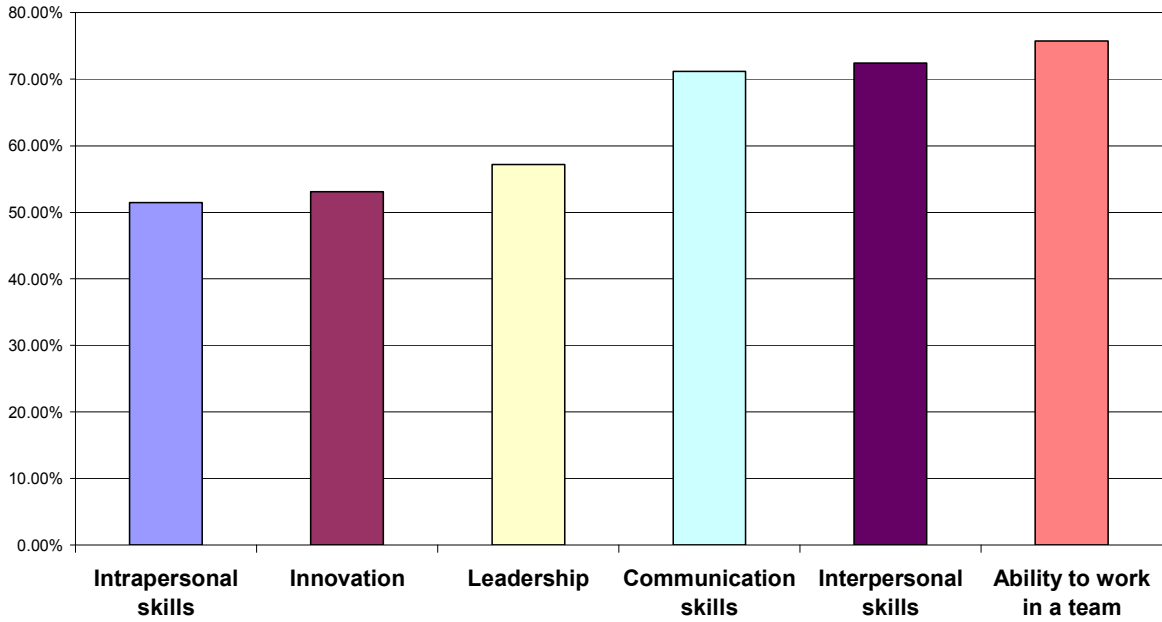


### Academic and other qualifications

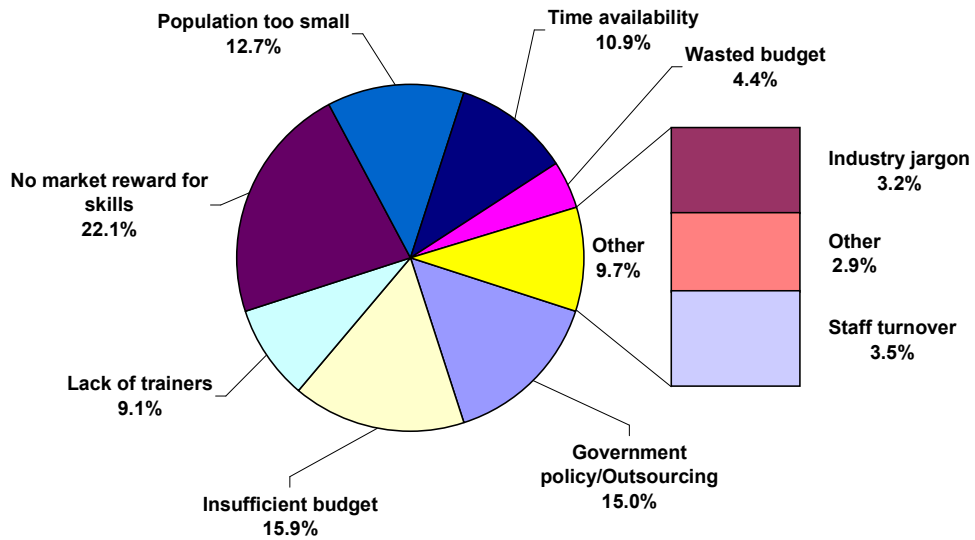




### Soft skills claimed



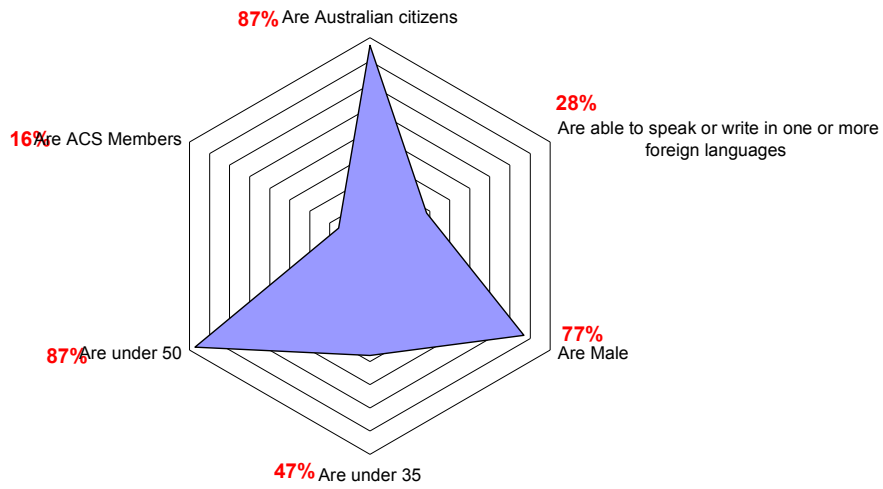
### Skills training barriers



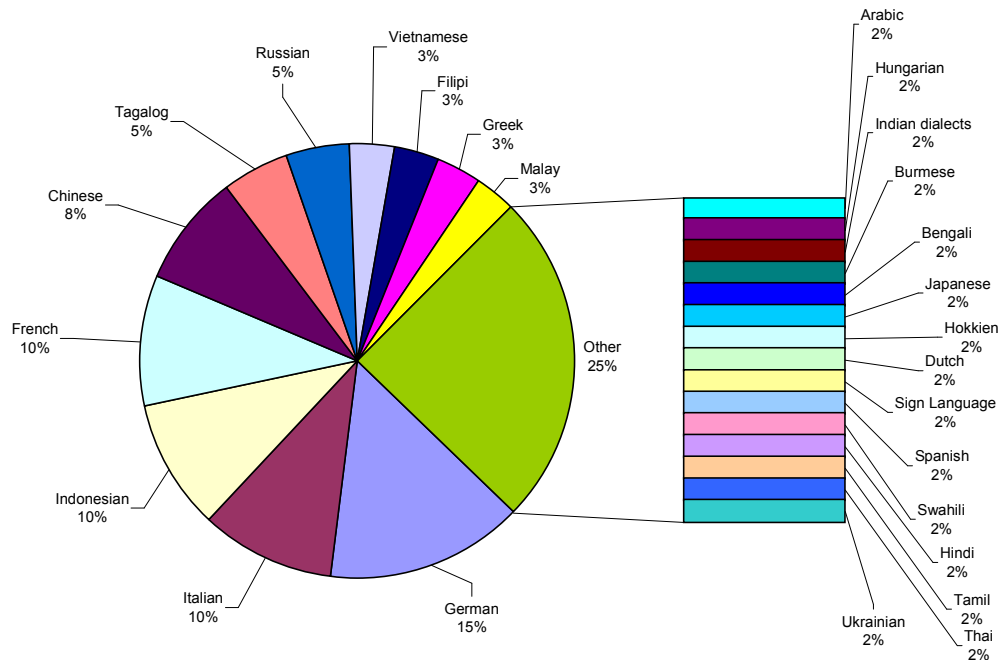
- Training refusal due to lack of funds - training allocations spent on non-training items
- Time - Work & family pressures inhibit opportunities as less people are required to do more work thereby impacting on available free time.
- The lack of training is often complained about but management while acknowledging the problem, rarely want to fund it.
- Some Businesses do not take a responsible or long term view in training of staff and do not budget for it.
- Not sure if the market in the NT supports having highly skilled people.
- Not a wide range of industries or companies to work for.
- Limited number of people to do the actual training
- Limited market drivers for ICT skills
- Lack of qualified trainers in the NT. Is expensive to go down South for training.
- Government has limited its outsourcing to a few big players
- Employers regularly hire people from outside of our region, leading to the progression for people locally being limited in opportunity.
- Currently salaries are too low to build up a decent skill base in my area. Average turn over of staff is less than 6 months.
- ALSO THE FACT THAT PEOPLE DOWN SOUTH DON'T THINK WE "NEED" ANYTHING AND THAT WE ARE ALL COUNTRY HICKS UP HERE.

# Respondent Profile

**Respondent profile**



**NT ICT Languages spoken**



## Respondent Profile

