Work integrated learning – An Australian Government perspective

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# Australia’s Education System

<table>
<thead>
<tr>
<th>School</th>
<th>Vocational Education &amp; Training</th>
<th>University</th>
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</thead>
<tbody>
<tr>
<td>3.8 million students</td>
<td>4.2 million students</td>
<td>1.5 million students</td>
</tr>
<tr>
<td>9,444 schools</td>
<td>4,600 Registered Training Organisations</td>
<td>168 Tertiary Institutions</td>
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<tr>
<td>• 65% Government</td>
<td>• 54 public</td>
<td>• 43 Universities</td>
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<tr>
<td>• 19.9% Catholic</td>
<td>• 2,500 private</td>
<td>• 125 Higher Education Providers</td>
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<tr>
<td>• 14.5% Independent</td>
<td>• 445 VET in school</td>
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<td></td>
<td>• 15 dual sector University</td>
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<table>
<thead>
<tr>
<th>Regulation</th>
<th>National Regulation</th>
<th>National Regulation</th>
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<td>State Government National Curriculum</td>
<td>Australian Skills Quality Authority (ASQA)</td>
<td>TEQSA</td>
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Australia’s population: 25 million: Working Age Population: 16 million (15-65 yrs)
The Case For Action

World of work is changing...

• A 15 year-old of today is likely to have 17 different employers across their working lifetime
• The type of work is changing
• Non-technical ‘enterprise skills’ are more important than ever
• Labour mismatch – skills in demand vs supply

Source: Foundation for Young Australians – *The New Basics* (2016)
Pieces of the puzzle

VET

Industry Employers

Higher Education

Work integrated learning
shared by all sectors

Schools

Community

Family
SCHOOL
What are the Challenges and How to Respond?

• Committed under the *Quality Schools, Quality Outcomes* policy to address career education.
  – Preparing Secondary Students for Work framework
  – National Career Education Strategy
  – The P-Tech pilot program – building connections to STEM study and employment pathways
The Australian Government allocated $3 million to develop a **National Career Education Strategy** aimed at ensuring school students are ‘work ready’ and prepared for the jobs of the future.

**Goals of the Strategy:**
- Support the development of effective career management skills.
- Strengthen School and Industry collaboration.
- Measure and track 21st Century Skills, or General Capabilities as described in the Australian Curriculum.
The Pathways-In Technology *pilot program*

*Geelong P-TECH Partnership – Newcomb Secondary College*
Vocational Education & Training
Australia has a well established and dynamic vocational education & training system

**Features**

- Strong **industry** engagement
- Nationally agreed and consistent standards for training providers
- Nationally agreed competency based qualifications defined by industry
- Educational pathways: School, Vocational Education & Training, Higher Education
- High **employment** rates for graduates

**Number of students by location of training delivery**

- Total VET students: 4,207,700
- Western Australia: 373,300
- South Australia: 236,900
- Victoria: 968,200
- Queensland: 966,100
- New South Wales: 1,299,600
- Australian Capital Territory: 74,800
- Tasmania: 63,900
- Other Australian Territories or unknown location: 148,700
- Overseas: 32,300

Source: NCVER total VET Activity 2015 Report, July 2016
Good practice case studies and videos

Australian school-based Apprenticeship videos

- https://www.youtube.com/watch?v=P13NFLr-mFs
HIGHER EDUCATION
1. Provide national leadership to expand **Work Integrated Learning** (WIL)
2. Clarify government policy and regulatory settings to enable and support growth in WIL
3. Build support - among students, universities, employers across all sectors and governments - to increase participation in WIL
4. Ensure the investment in WIL is well targeted and enables sustainable, high quality experiences, stakeholder participation and growth
5. Develop university resources, processes and systems to grow WIL and engage business and community partners
6. Build capacity for more employers to participate in WIL
7. Address equity and access issues to enable students to participate in WIL
8. Increase WIL opportunities for international students and for domestic students to study offshore.
Research training and work-integrated learning initiatives

Work integrated learning activities for Australian HDR students

- Mentorships: IMNIS, Sydney Genesis, USyd Incubate
- AMSI Intern: NHMRC internship, ANU ANIP, ATSE Science Policy Internship
- Internships: CRC, MCRIP PhD, ATN IDTC, ARC ITTC
- Long term scholarships: CSIRO postgrad scholarship program
- Short courses: ATN eGSA, Garvan PhD, DMTC, AINSE, NMI

- Recent government initiatives to support work-integrated learning for higher degree (HDR) research students have focused on how best to connect with and leverage current effort across the sector.

- There are a range of industry placement opportunities available to HDR candidates in Australia.

- Many, if not all, of Australia’s 42 universities run work integrated learning activities.

- This slide gives an indication of the extent of opportunities available – from short courses and mentorships to long-term scholarships.

Amount of time HDR student spends in industry engagement:

- Sporadic, 1-2 days/month
- 6 – 12 weeks
- 3 – 5 months
- 3-4 years
Scaling the Sciences

Australian Government National Research Internships Program ($28.2million 2016-20)

• 1,400 industry based internships for PhD researchers
• More women in STEM disciplines
Next Steps And Some Challenges

Role of Australian Government:

• Making data and information transparent
• Harnessing partners – convening meetings
• Providing seed funding where gaps are identified
• Remove any funding disincentives
• Addressing the regulatory impediments