

ICT Summit 2009: Linking Research into Teaching and Business

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Overview

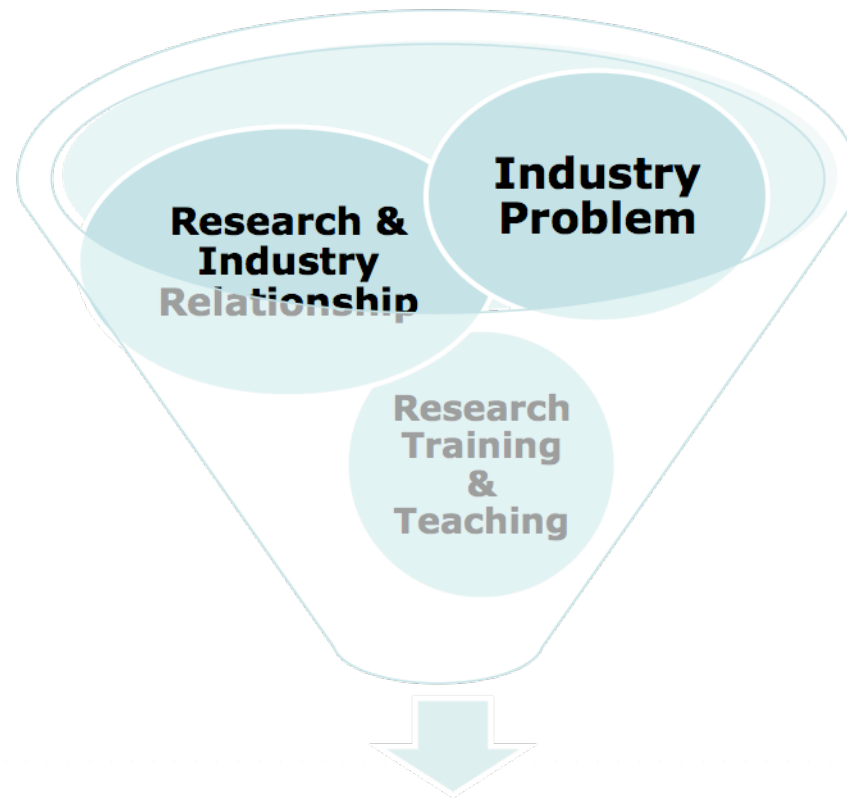
- **The landscape of research industry collaboration in Australia**
 - **Industry Linkages, CRCs, Direct relationship**
- **Industry research collaboration at UB**
- **Industry research & research training examples**
 - **Internet Commerce Security Laboratory**
- **Professional Practice Degree & IBM**



The landscape of research industry collaboration in Australia

- **Australia ranked 16th out of 28 OECD countries for university-industry research collaboration in 1997 and had fallen 10 places to be last out of 26 countries (Carr)**
- **Only one-third of Australian firms successfully introduced an innovation in 2006-07, same level for at least a decade.**
- **World's best today, Germany, - over half the firms are successful innovators**

Linking Research into Teaching and Business



Industry Ready Graduates



Example: Industry research collaboration at UB

- **Research with large Australian Energy company**
- **Produced Optimization Technology – significant savings**
- **Researchers, doctoral student and dedicated industry researcher**
- **Industry researcher onsite, UB researcher with client for a period**



Example: Internet Commerce Security Laboratory (ICSL)

- Collaborative partnership with IBM Global Technology Services, Westpac Banking Corporation, Victorian State Government
- Other partners: Australian Federal Police
- Established to carry out research into internet commerce fraud of benefit to the Banks
- Key focus of research is research training
- Key aspect is having Westpac and IBM staff onsite

Internet Commerce Security Laboratory (ICSL)

- Aim: to produce ongoing capability to address internet fraud, internet security and identity management for financial sector
- PhD & Masters research students research topics in priority areas, plus: work on short term problems in laboratory one day each week
- Aim: to produce highly skilled, industry-ready ICT personnel who will benefit financial sector



Professional Practice Degree & IBM

- **UB Degree: Bachelor of Information Technology – Professional Practice**
- **Innovative course developed with IBM**
- **In years 2 & 3: university study (75%) is combined with practical IBM experience (25%)**
- **“Earn As You Learn” includes units on industry awareness and industry application**
- **Successful students also employed for first half of fourth year = total of 1 year work experience by graduation**



Summary

- **Key elements of success have been:**
- **Clear problem**
- **Embedding**
 - **Clear involvement of Business in research program via dedicated industry staff**
 - **Research as well as research training element**
 - **Clear opportunities for the research outcomes and the research graduates**
 - **The right environment to support research**
- **Understanding interest in research outcomes**



Thank You



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