Work-based Experience for All

Engaging the Next Generation of Actuaries to Solve Industry Problems in a Sandbox

Dr Kevin Liu

Undergraduate Actuarial Program Director, School of Risk and Actuarial Studies, UNSW Business School



Why Work Integrated Learning (WIL)?

Work directly in or with an industry or community organisation to gain real-world experience

"The development of a job-ready graduate is more complex than ever before"

- Australian Government National Priorities and Industry Linkage Fund (NPILF), December 2020

- Changing nature of work, rising importance of transferable skills
- Didactic teaching does not live up to current and future needs
- Limited career-focused learning opportunities

WIL Challenges



How to provide WIL opportunities at a large scale?

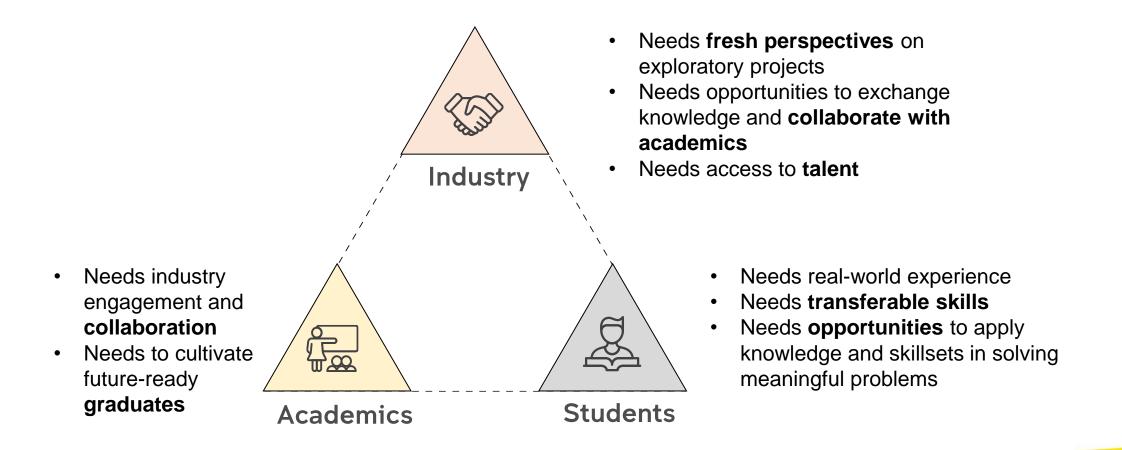
How to achieve meaningful outcomes through WIL?



How to sustain WIL programs at **low cost**?

Enabling flexibility, equity, while optimising outcomes for all stakeholders

The WHY: Tripartite Opportunities





A platform that nurtures tripartite partnerships among industry, academics, and students

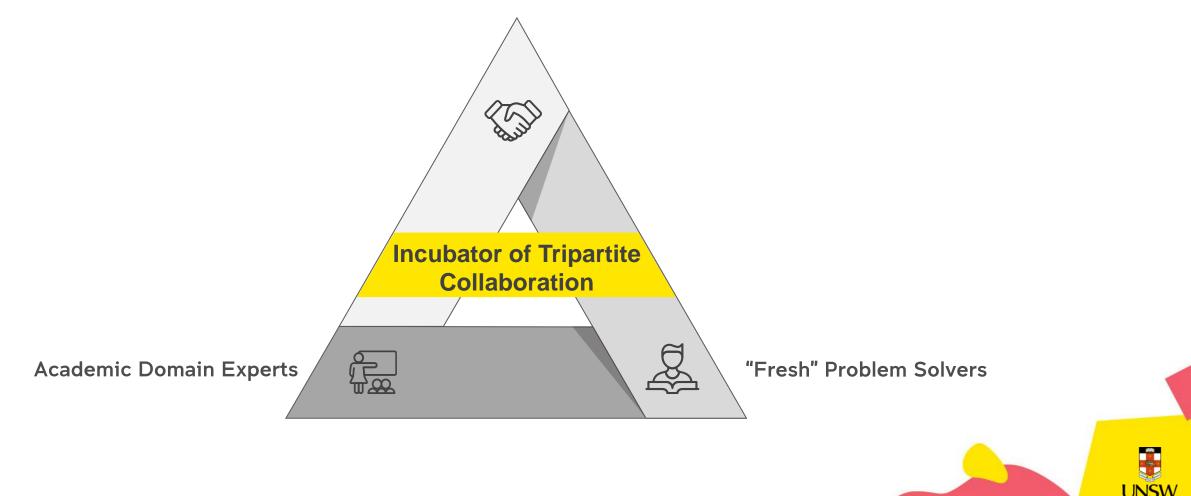
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UNSW Sandbox Program

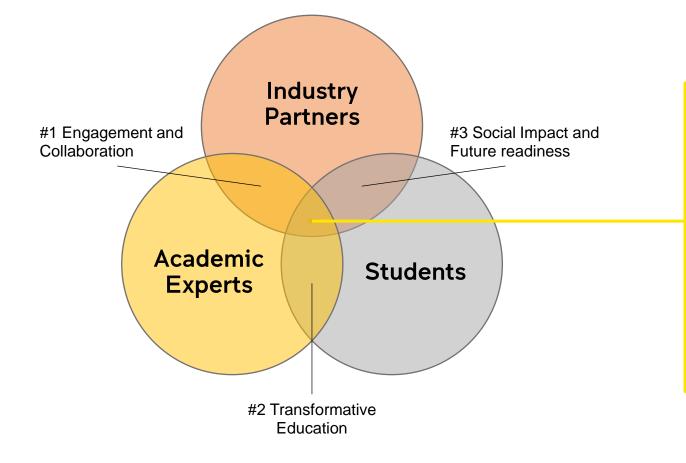


Sandbox Tripartite Collaboration

Industry Problem Owners



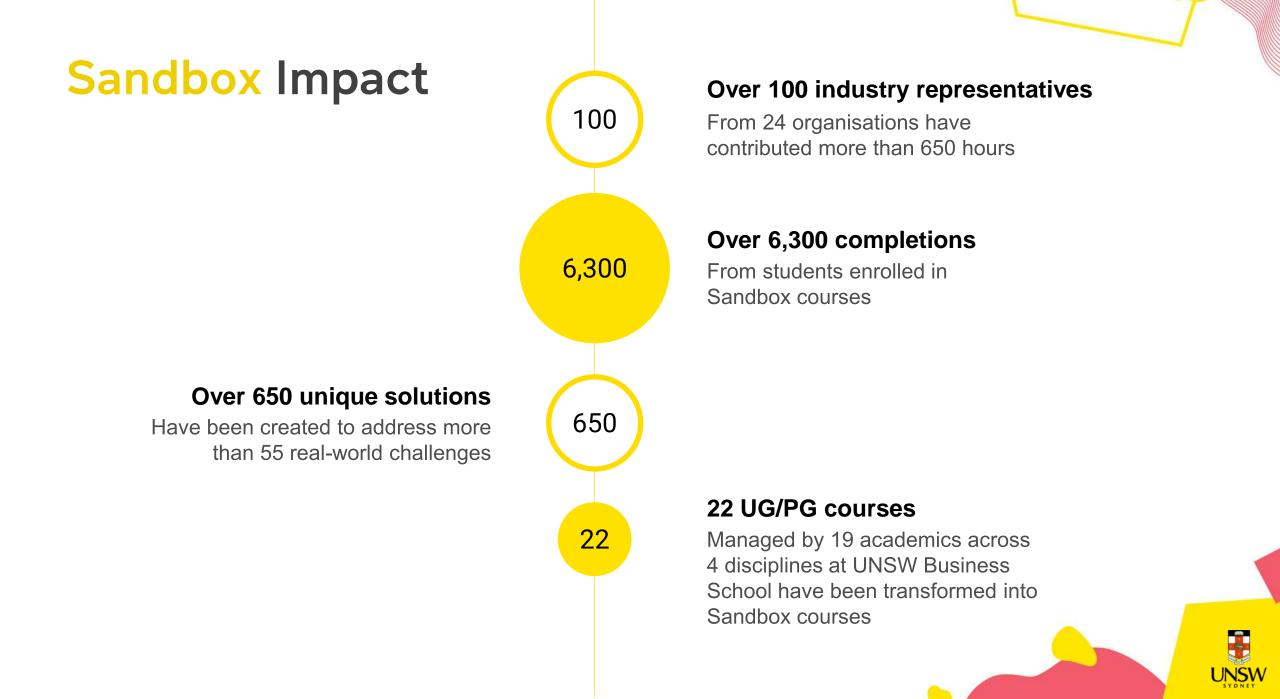
Sandbox Tripartite Collaboration



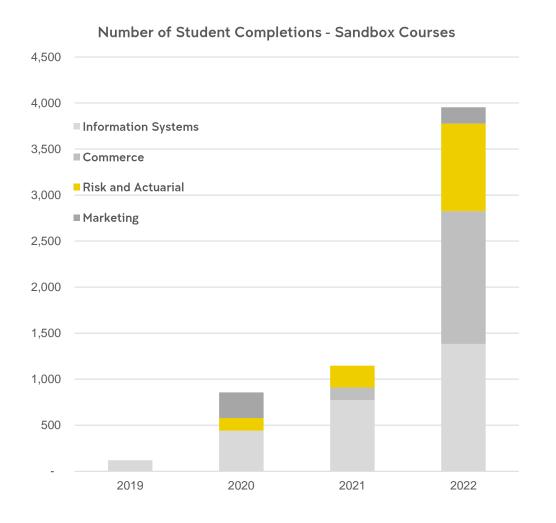
Win-Win-Win:

- Industry partners gain access to subjectmatter expertise and student exposure
- Students gain real-world exposure
- Academics establish industry connections and access means to generate **social impact**

Within-curriculum model ensures student and academic engagement

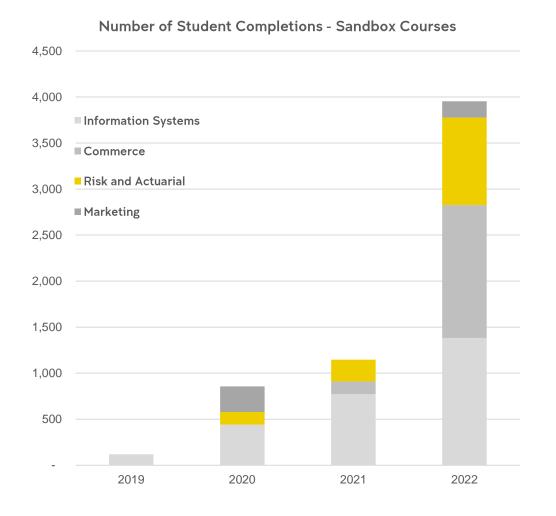


Sandbox Impact





Sandbox Impact



Innovation Awards

The Heinz Harant Award for Teaching Innovation UNSW (2020)

John Prescott Award for Outstanding Teaching Innovation x 2 UNSW Business School (2019, 2022)



National Disciplinary Awards

Cyber Security Educator of the Year The Australian Information Security Association (AISA) (2022)

Most Innovative Educator in Cyber Security

The Australian Women in Security Awards (2022)

ICT Educator of the Year The Australian Computer Society (ACS) (2019)



Retirement Sandbox

Course: ACTL3192 - Retirement Saving and Spending over the Lifecycle

100 UG students
6 industry mentors
2 Sandbox projects

MetLife

• Underinsurance over lifecycle



• Default Retirement Investment Product design

Retirement Sandbox

MetLife

• Underinsurance over lifecycle



Default Retirement Investment Product design

Assessment Structure

Tutorial Participation and Discussion (5%)

StoryWall Discussion Questions (15%)

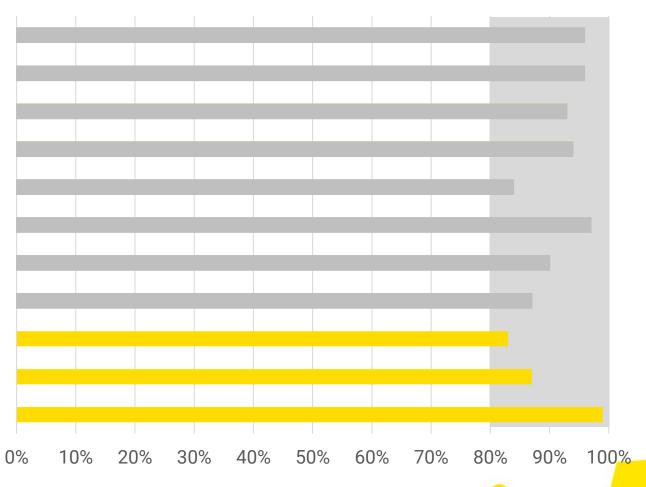
Sandbox Group Project (30%)

Final Examination (50%)



Anonymous Survey (Week 10) - % Agree

Overall, the Sandbox Projects support my learning Important and meaningful problem Real-life industry challenges enriched my learning experience Demonstrate my knowledge and deepen my understanding My interest in the subject area has increased Support provided by the lecturer Engagement and interaction with industry partners Working collaboratively with my peers Improved my confidence in solving real-life problems. Developed new skills via self-directed learning Improved my employability skills



"It was a far more interesting and engaging assessment compared to the vast majority of other assessments I have done before. It felt more relevant, it engaged skills that I believe will be more valuable in the future."

"Before attending this course, I have never thought of working in a superannuation fund, but now I may consider working in a superannuation fund because this seems something interesting!"

"I feel that we have the **responsibility** to help the industry **solve the problems**."

Investment Magazine

INVESTMENTS V IN FOCUS OPERATIONS V INDUSTRY & REG V

Investment Magazine

INVESTMENTS V IN FOCUS OPERATIONS V INDUSTRY & REG V MULTIMEDIA V

Students take on the challenges of engagement and default fund design

"We were really impressed by the presentations from the students. It is highly promising to see engaged bright young minds looking at innovative solutions for the industry" commented APRA's Katrina Ellis, Acting Executive Director, Superannuation.



Leading student groups visiting MetLife's Sydney office (students unless noted otherwise). Back row from left: Jeffrey Scott (MetLife), Hong Ji, Jarrel Dugay, Joseph Yeh, Jiho Lee, Ryan Han, Nathan Rees (MetLife), Wendy Tse (MetLife). Front row from left: Kevin Liu (UNSW), Michelle Lam (MetLife), Lesley Wang, Lynne Jiang, Annie Kim, Sohyeon Kim, Sohee Lee.



Leading student groups visiting APRA's Sydney office (students unless noted otherwise). Back row from left: David Bell (Conexus Institute), Katrina Ellis (APRA), Gary Chan, Rakesh Beniwal, Alastair Nicholls, Yatharth Raval, Shang Wu (Aware Super), Kevin Liu (UNSW). Front row from left: Andrew Uen, Tara Dabrowski, Katherine Liu.





Top student groups were invited to present their solutions to industry partners' Leadership/Executive Team



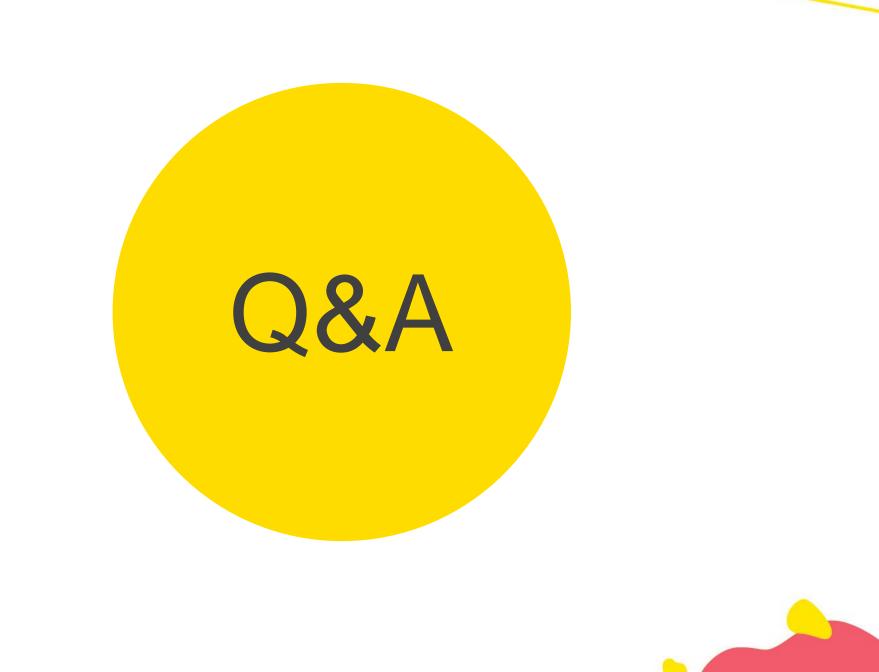
Invited the top student groups to present their MySuper product design solutions to APRA



Video







UNSW



Thank you!

W: unsw.to/sandbox E: <u>sandbox@unsw.edu.au</u>

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