

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





### 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

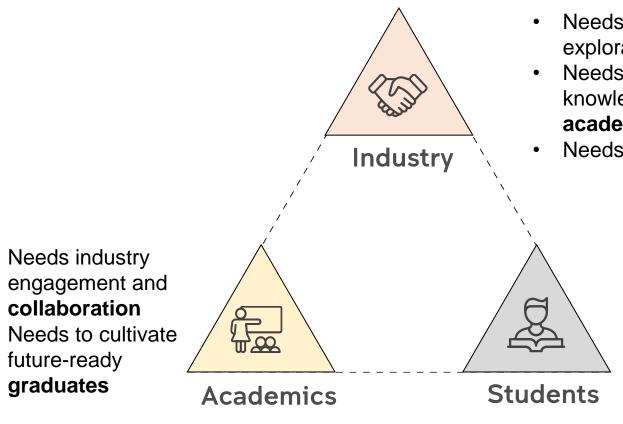


### The WHY: Tripartite Opportunities

collaboration

future-ready

graduates



- Needs fresh perspectives on exploratory projects
- Needs opportunities to exchange knowledge and collaborate with academics
- Needs access to talent

- Needs real-world experience
- Needs transferable skills
- Needs **opportunities** to apply knowledge and skillsets in solving meaningful problems



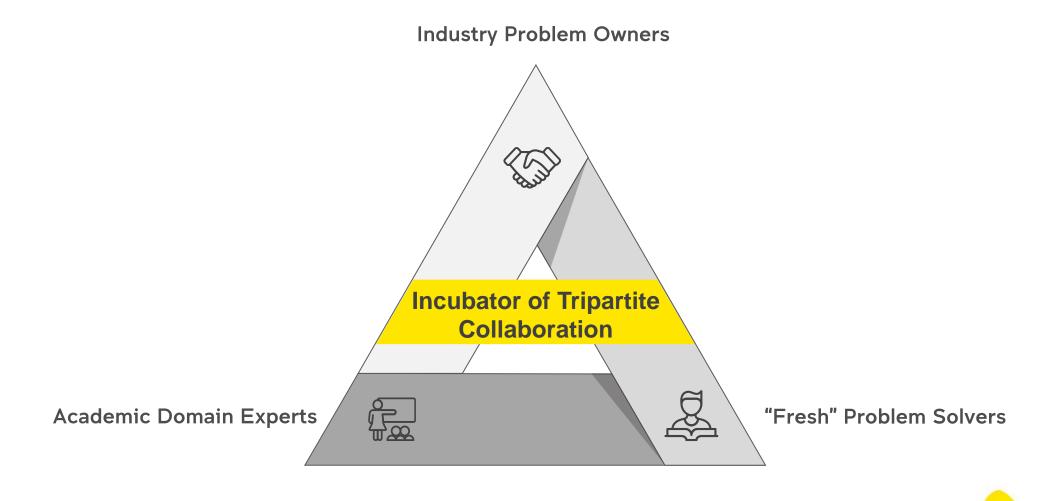


A platform that nurtures tripartite partnerships among industry, academics, and students

UNSW Sandbox Program

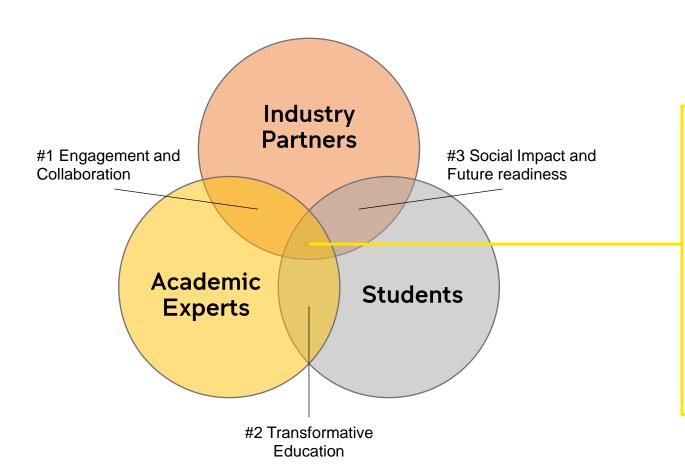
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## **Sandbox Tripartite Collaboration**





### Sandbox Tripartite Collaboration



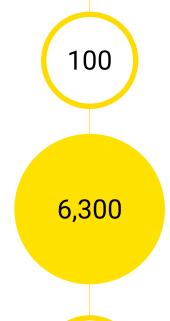
#### Win-Win-Win:

- 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



#### **Over 100 industry representatives**

From 24 organisations have contributed more than 650 hours

#### Over 6,300 completions

From students enrolled in Sandbox courses

### **Over 650 unique solutions**

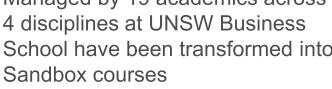
Have been created to address more than 55 real-world challenges



22

#### 22 UG/PG courses

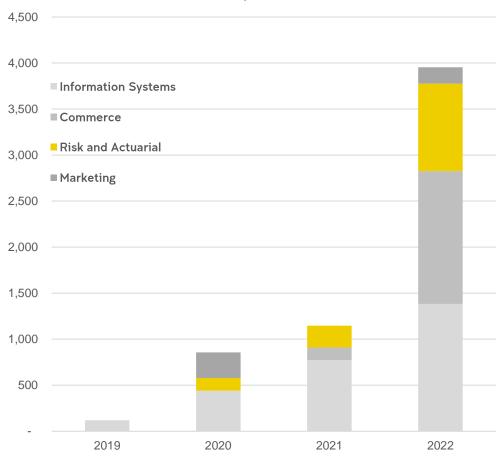
Managed by 19 academics across 4 disciplines at UNSW Business School have been transformed into Sandbox courses





### Sandbox Impact

#### **Number of Student Completions - Sandbox Courses**







### **Deloitte.**

































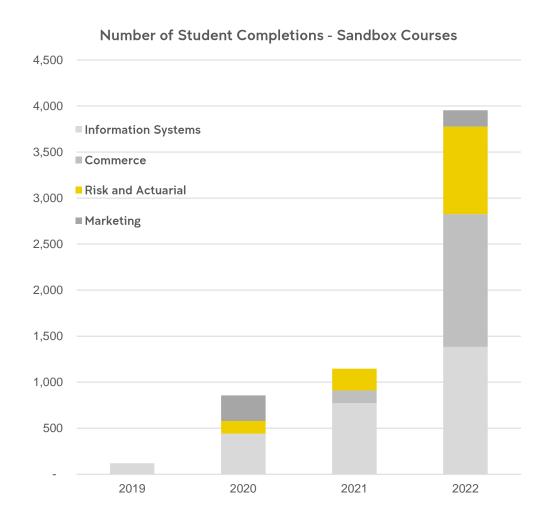








### Sandbox Impact





#### **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)



# **Sandbox Guiding Principles**







### Retirement Sandbox

Course: ACTL3192 - Retirement Saving and Spending over the Lifecycle



100 UG students

- **6** industry mentors
- **2** Sandbox projects



Underinsurance over lifecycle





Default Retirement Investment Product design



### Retirement Sandbox



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 0% 10% 30% 40% 60% 70% 80% 100%



"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**

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MULTIMEDIA V

### Students take on the challenges of engagement and default fund design



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.

### **Investment Magazine**

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"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 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









