



Australian Council
of Deans of Science

Planning for an ACDS Graduate Innovation Forum

University Science Supporting our Graduates and Industry

John Bartlett

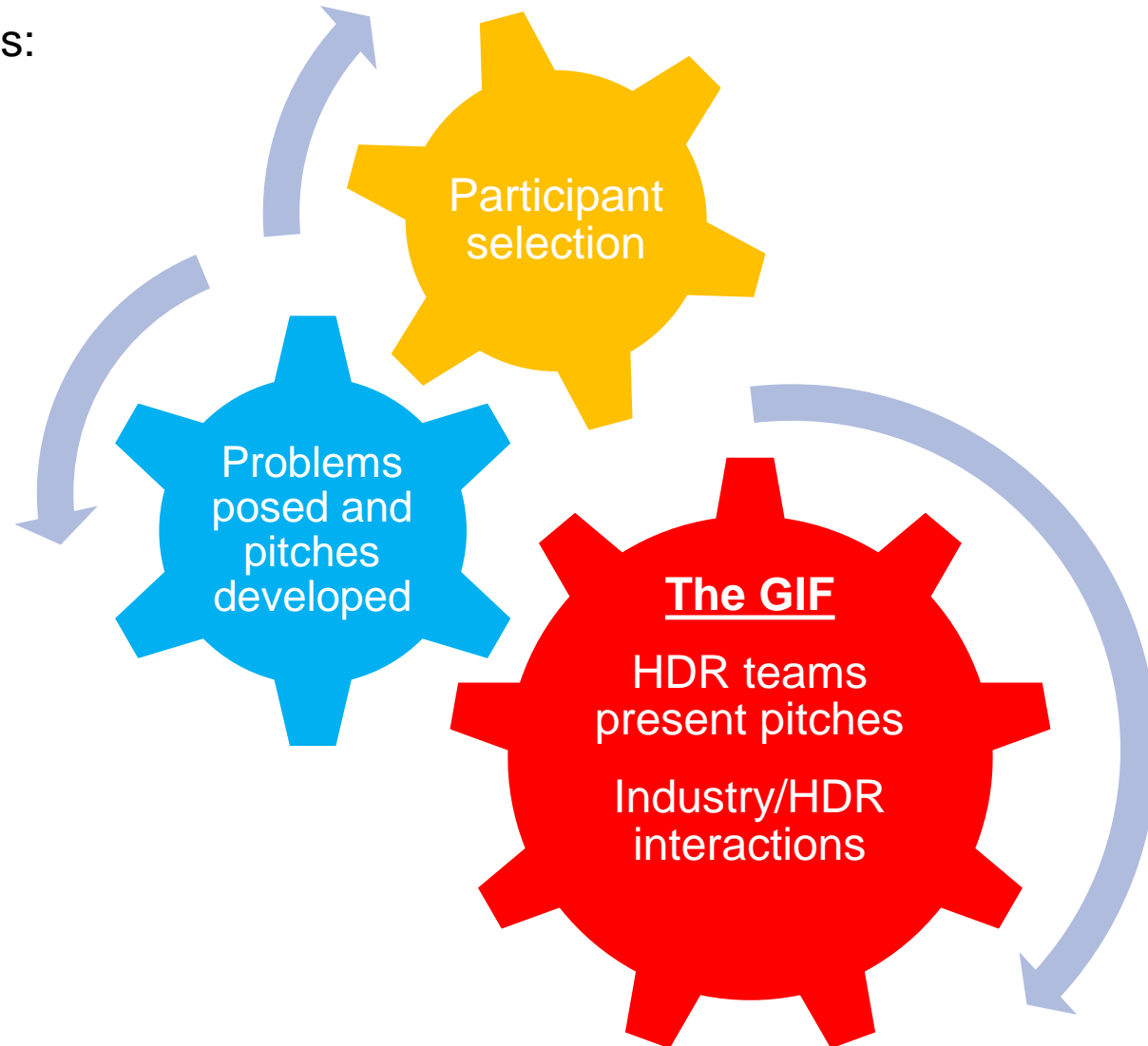
Director ACDS National Research Forum

Australian Graduate Innovation Forum

- Elite national showcase to highlight the value of research-trained science graduates in the innovation space (in support of Australian Sovereign capability);
- Introduce science HDRs to opportunities provided by careers in Industry and raise awareness of broader career paths outside of academia;
- Demonstrate to Industry the value of research-trained staff in enhancing their strategic growth;
- Establish a compelling narrative that engages HDRs and Industry in ongoing discussions

Planning for the ACDS Graduate Innovation Forum

- Inaugural GIF (***demonstrator event***) planned for **August** 2021 as a ZOOM workshop;
- **The approach**: groups of HDR students will address challenges/problems posed by Industry and “pitch” their solutions to Industry, Academic, HDR and Peak-Body colleagues;
- Three key elements:



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HDRs to be selected via competition, to participate in four 8-person teams

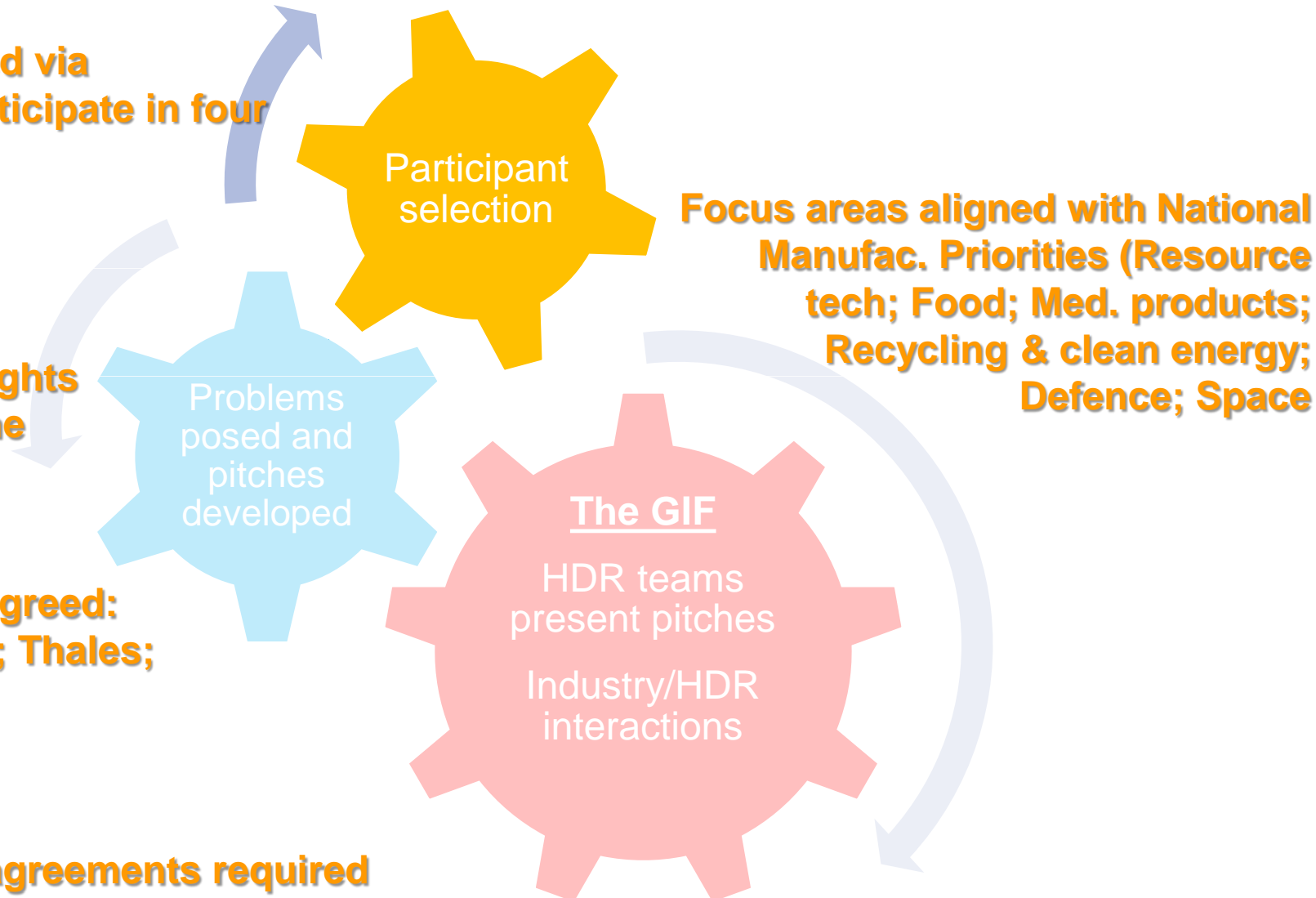


We seek your thoughts on how to select the participants

Industry partners agreed: Airbus; BlueScope; Thales; ROMAR



IP agreements required

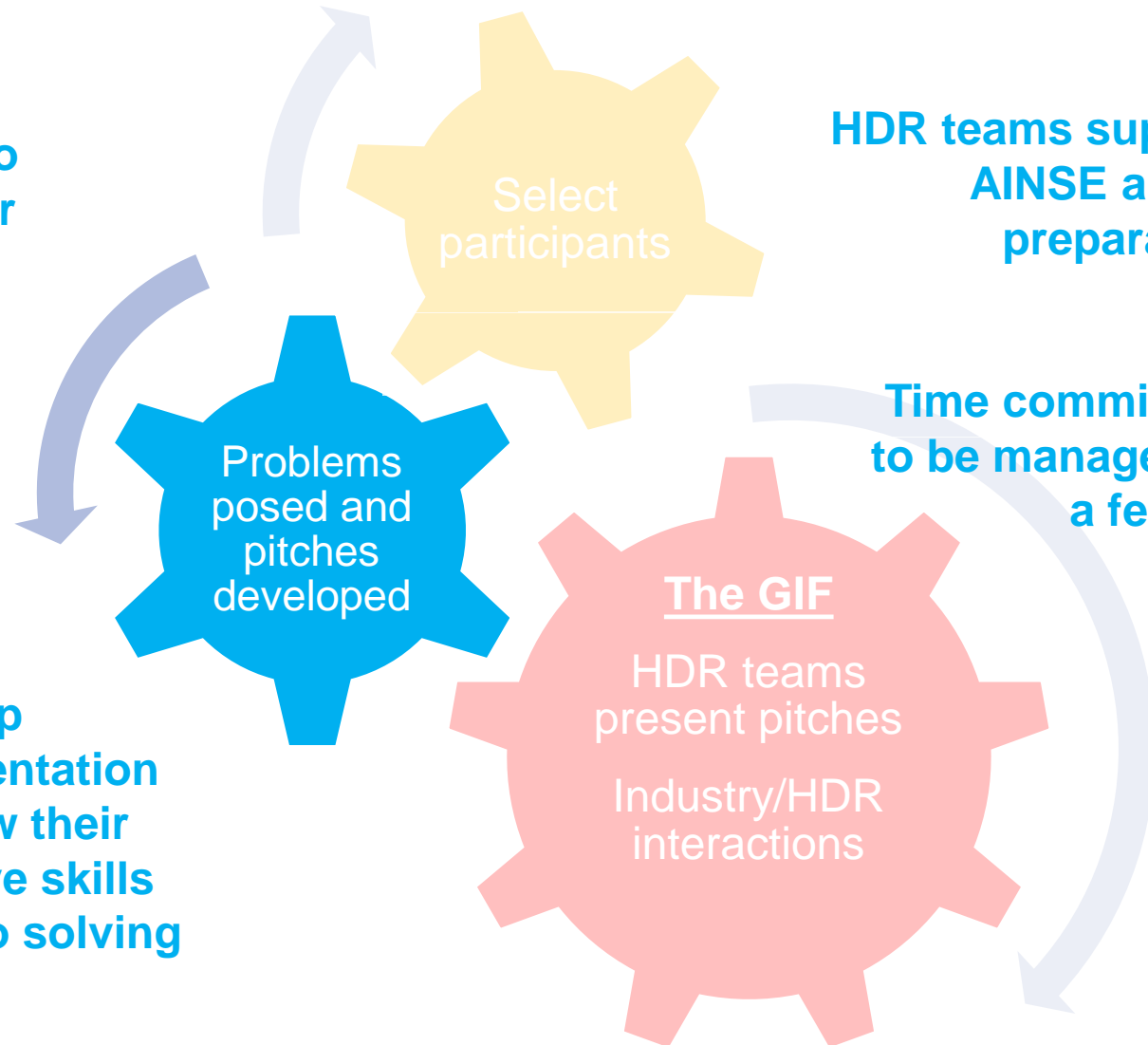


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Industry partners to pose challenges for HDRs to address

HDR teams supported by ACDS, AINSE and ANSTO during preparation of “pitches”



Time commitment of students to be managed – no more than a few hours per week

HDR teams develop “pitches” for presentation at GIF → show how their individual/collective skills might contribute to solving their challenge

The Inaugural ACDS Graduate Innovation Forum

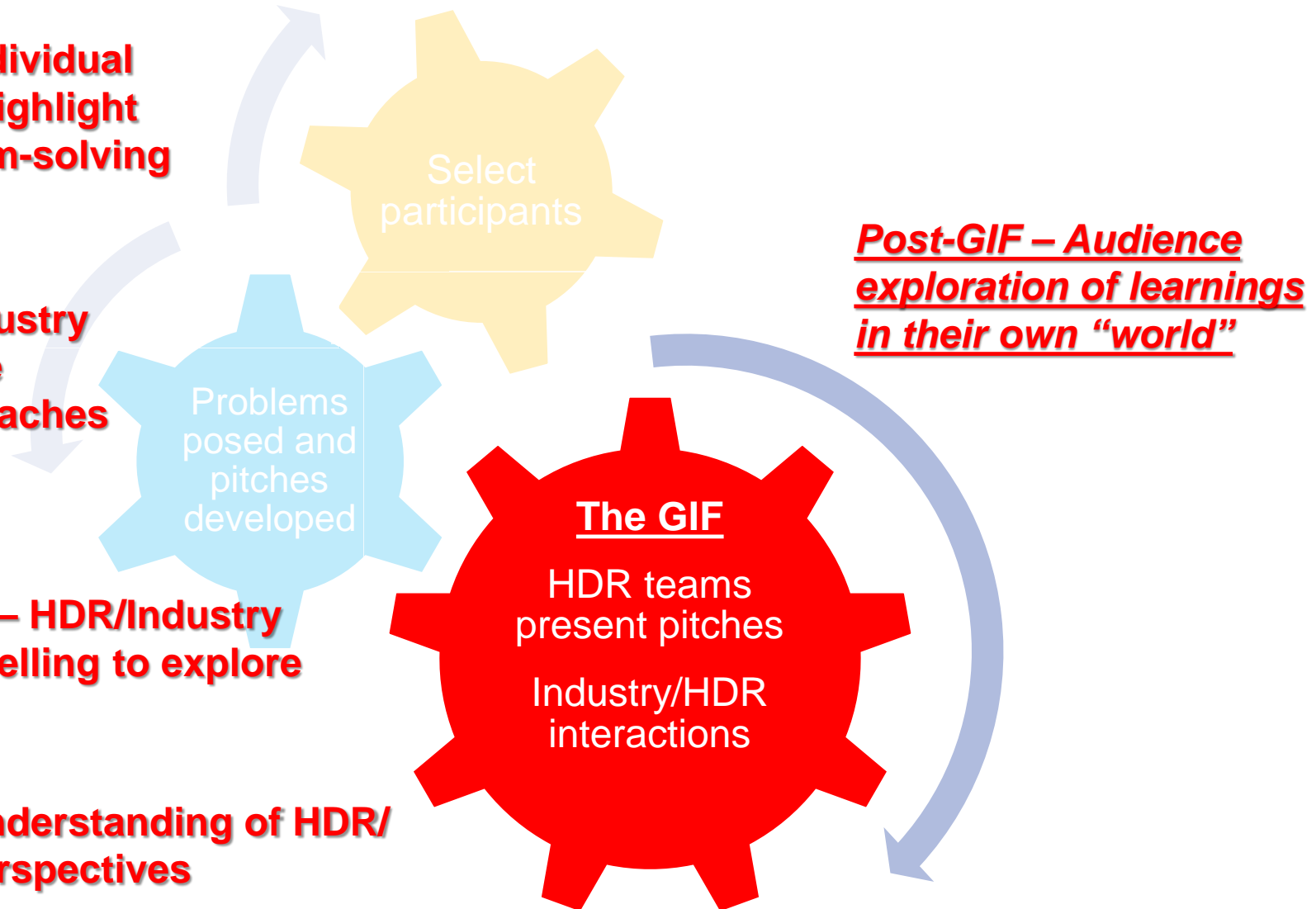
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Pitches: team & individual presentations, to highlight diversity of problem-solving approaches

Feedback from Industry and other audience members on approaches taken by HDRs

Chat-room groups – HDR/Industry interactions/story-telling to explore opportunities

Evolving understanding of HDR/ Industry perspectives



Building on the Inaugural GIF

- The inaugural GIF is not just about solving a problem and celebrating the solution...
- ...it is about articulating experiences of HDR teams and Industry and building a compelling story about the journey – and engaging the audience in that story;

Students:

Understanding the challenges of Industry

Understanding Industry's strategic interests



Industry:

Approaching their challenges in different ways

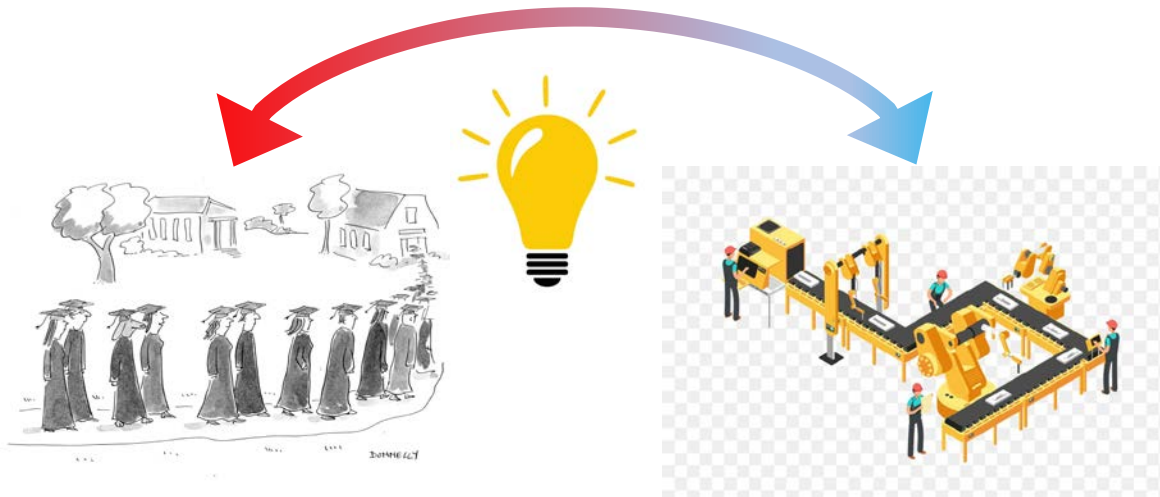
Learning about HDRs' capabilities



Audience: explore outcomes of Inaugural GIF and engage in ongoing learnings and dissemination

Our Industry Partners and their Pitch Challenges

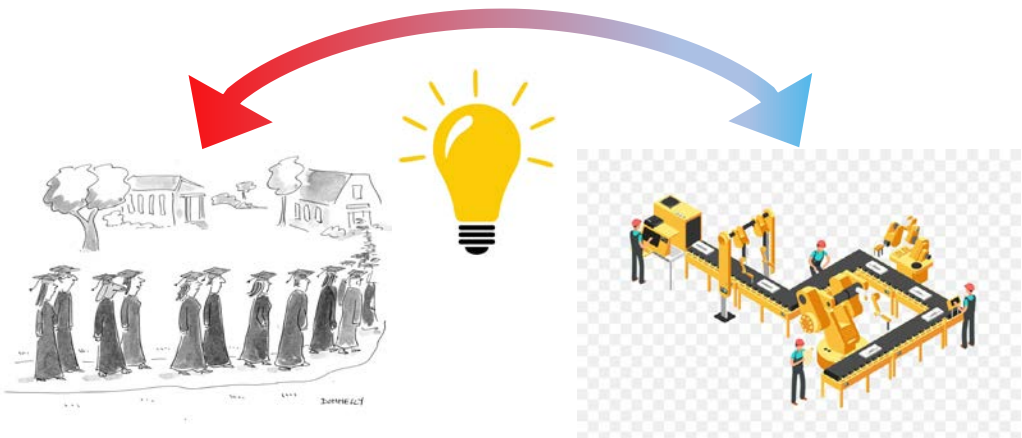
- Airbus (<https://australia-pacific.airbus.com/website/en/ref/home.html>):
 - Impact of radiation on electronic systems.
- Thales (<https://www.thalesgroup.com/en/countries/asia-pacific/Australia>):
 - Mitigation of production challenges for producing piezoelectric materials.



- ROMAR Engineering (<http://www.bluescopesteel.com.au/>):
 - Optimisation of vision systems for non-destructive testing.
- BlueScope Steel (<http://www.bluescopesteel.com.au/>):
 - Pitch – Mitigation of galvanic processes leading to corrosion and reduced lifespan of fasteners in marine environments and coated-steel roofing products.

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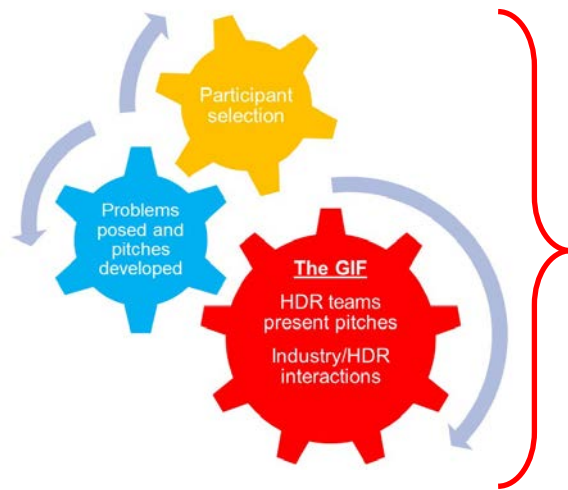


ZOOM meeting with industry partners and this group to be arranged within the next few week

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Questions for the Group

- What approaches should we implement to recruit high-performing students for the GIF?
- How do we ensure that HDR supervisors will support their students' involvement in the GIF, and remain engaged with the initiative and its ongoing benefits?
- Since only a small HDR-student cohort can be involved in the pitch development for the inaugural GIF, how might the outcomes of the GIF be communicated to HDR students and academic staff within our science Faculties?
- Which other Industry participants should be invited?
- Who else should be invited (Members of Parliament; Public Figures; Chief Scientist(s))?
- How do we facilitate ongoing engagement between a large group of HDRs (and academics) and a large groups of Companies (on National scale) with the learnings from the GIF. Some ideas:



- Disseminate outcomes of Inaugural GIF within Faculties → Deans, ADRs, DDoGS, DVCRs;
- Disseminate Industry project book and student 3MT videos via ACDS website;
- Record pitch sessions and disseminate via ACDS website;
- ZOOM “Roadshow”;
- ACDS Science Magazine – distil learnings from Inaugural GIF.