# Industry Frontier: Research Committee December 2021

- ► Start collect contacts of PhD students
  - $\Rightarrow$  Start with a spreadsheet. How can we handle the data protection side of it?
- Start and maintain a spreadsheet of those interested in industry collaboration. Aim help those who would like to collaborate with industry.
  - ⇒ Discussion started

# Spreadsheet on Interest in Industry Collaborations: Discussion started

- ▶ Robert Johnson: Remit & Ethical issues:
  - 1) External collaboration partners outside industry
  - 2) Not willing to work with X for ethical reasons. Put in questionnaire e.g. skillset based "Are there any potential application areas which you would be unwilling to work on?"
  - 3) School policy/statement on ethical collaboration with industry? Some choices of impact could harm individuals and the institution, how do we prioritise and support projects in this regard?
- ▶ BD (Business Development) Team: data file

**Ethical considerations:** Here, we identified one or even the most important barrier!

⇒ Moving towards industry / external engagement strategy.

### Industry Frontier: Remit

- 1) External collaboration partners outside industry
  - ► In my view: Yes, this should include other external collaborators. It is question of the wording.
    - industry needs to recognize themselves in the title
    - other externals as well
  - Proposed title: Industry & External Research Engagement
  - other views / search for good title?

#### Industry Frontier: Ethics

- 2) Not willing to work with X for ethical reasons. Put in questionnaire e.g. skillset based "Are there any potential application areas which you would be unwilling to work on?"
  - questionnaire: Yes, in a more open way: any remarks, e.g. what you would like us not to do...?
  - In my view: The intention here should NEVER be to draw someone into some collaboration but to HELP those into collaborations they are keen to do!
    - (a) Forced collaborations are prone to failure
    - (b) Forced collaborations are prone to damaging our reputation
    - (c) What's more important: We have too many opportunities to take on the wrong ones!
  - Proposed way forward: Take this into an Industry & External Research Engagement Strategy, under "Our Approach", "Our Support"
  - ► Ideas?

#### Industry Frontier: Ethics

- 3) School policy/statement on ethical collaboration with industry? Some choices of impact could harm individuals and the institution, how do we prioritise and support projects in this regard?
- $\implies$  we need to understand our purpose, what we want to do, how we want to do it, and why, with whom and how.

- Purpose
- ► Industry and External Partnerships & Ethics
- Our Support (to be worked out later)
- Aims and Measurable Outcomes (to be worked out later)

#### Purpose

- ► Thoughts
  - Connect (open up new perspectives)
  - ► Learn (How is mathematics used? What is current practice? What are current paradigms? What are urgent needs?)
  - ► Enable (What: Research and impact; How: Prove impact, enhance grant success chances, direct funding, indirect funding)
  - Give (What: insights, expertise, knowledge, skills, prestige; Why: to advance society based on our values)
- Procedure
  - ► To define, see next point:
- Action
  - Discuss: changes?
  - Put the result down in the right form, what form?

#### Industry and External Partnerships & Ethics

- Thoughts
  - Act based on our values: But what are our values? How do we define and protect them?
  - Questions to help us identify partners that may advance our school These are mainly from ATI and we will need to adapt them further to our case:
    - Attitude? Articulation? Alignment? Resources?
- Procedure
  - to be defined, see next item
- Action
  - Discuss way forward,
  - Work out set of questions,
  - Define procedure,
  - ▶ Put the result down in the right form, what form?

Industry and External Partnerships & Ethics: Work out questions based on ATI's list, to understand if an external entity may advance our school:

- \* Attitude: Curious and open minded? Collaborative? Willing to tackle challenges and to break new ground?
- \* Articulation: Clear goals? Clarity on IP early on? Clear legal and commercial processes? HERE IS SPACE TO ARTICULATE OUR VALUES
- \* Alignment: Synergy? Long-term perspective? HERE IS SPACE TO ARTICULATE OUR VALUES
- \* Resources: Willingness to spend time with us? To share other resources such as for instance insight, expertise, data, devices, venues for events etc? Direct funding?