

Valorization Tendencies in Public Research Institutions

Concordia University



Our University

Four faculties

- Gina Cody Faculty of Engineering
- Faculty of Fine Arts
- Faculty of Arts and Sciences
- John Molson School of Business

Research Areas

- Aerospace, digitization, quantum research, biochemistry, chemistry, living laboratories, Volt-Age (electrification), business development, economy, public policy impact, and much more!



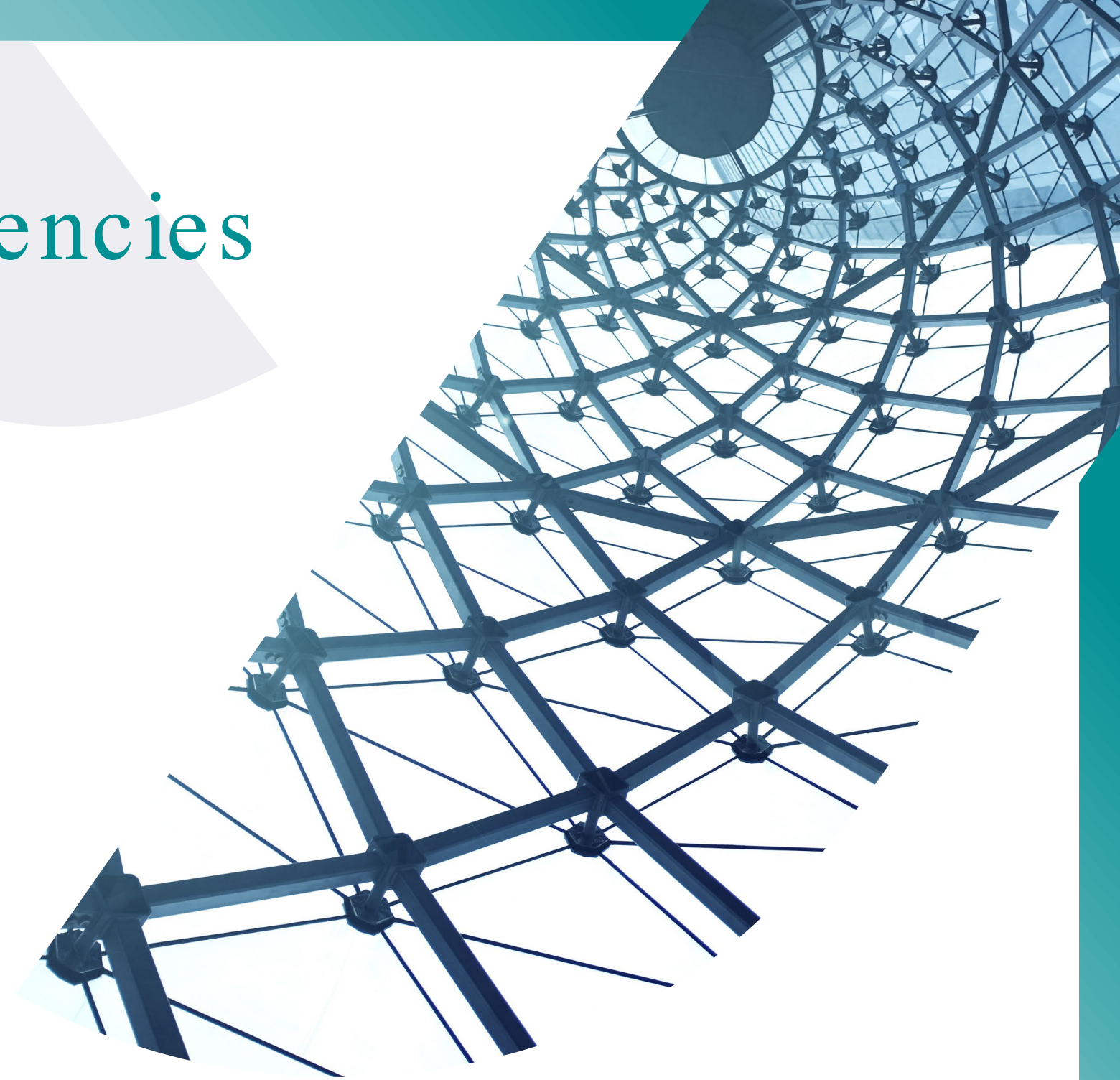
Public Research Valorization Tendencies

Promising Research Areas

- Carbon sequestration, cardiovascular medical devices, AI development (safety and social impact), enzymology, ophthalmology, electrification of society, aerospace polymer coating, quantum technology (theory), business management
- Virtual reality and medicine are lacking
- Our strengths are

Collaboration with aerospace companies, CFREF VoltAge grant, emerging integration with the JMSB faculty and evolution of professor's tenure criteria

- We are looking for more CCTT collaboration and inter-university projects



Challenges and Solutions

- Our challenge: Lack of education in the research community on the value of their research beyond publications
- Our solutions: Active outreach, IP workshops, personal and spontaneous meetings, departmental presentations, high-level management buy-in
- Keys to success: The common desire to create a scientific community that draws on more funding and opportunities rather than simply publishing
- Access the funds: Partnership with Axelys, big CFREF grant, active engagement with industry partners (VP, faculty, department and professor level)
- The only successful method of increasing awareness is in-person communication of information



A Success Story

- Case title: Carbon conversion and sequestration projects for industrial scale applications
- Short summary: Verbal
- Challenges: Aligning the research with the needs of industry
- Solutions: Meeting with industry partners and understanding their needs, then convincing the stakeholders of a scope change
- Success factors: Desire for research impact and additional funding for continuing research. As well as previous successes with the same industry partners
- Lessons learned: Early engagement with industry to angle the technology towards real-world needs. However, this must be combined with a researcher's area of interest.