



UNIVERSITY OF  
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# Challenges

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# Challenges: Space

- ◆ Physical space has not increased with the substantial growth in research productivity.
- ◆ Research capabilities may be constrained when new or larger research facilities are pending.
- ◆ Expansions or modifications to existing research facilities may not be possible.



# Challenges: Technical Experts

- ◆ Labour market trends may make it challenging to recruit and retain qualified technical experts.
- ◆ Training is timely and may prolong research productivity.
- ◆ Students may not be the best resource for the technical upkeep of the infrastructure.



# Challenges: Maintenance

- ◆ Cost of maintaining equipment is expensive.
- ◆ Upgrades are costly and funding may not be readily available.
- ◆ Need for full-time technical experts is increasing and becoming a necessity.



# Additional Challenges

- ◆ Greater opportunities to develop industry clusters, expand national and international linkages.
- ◆ Greater flexibility needed in use of CFI funds for:
  - ◆ Actual building infrastructure
  - ◆ Facilitating the movement from laboratory to large commercial demonstrations; technology maturation; proof-of technology
  - ◆ Support for high costs of patents – protection of intellectual property
- ◆ Race to the finish at warp speed



# Additional Challenges cont.

- ◆ Need for a full scale demonstration plant and sequestration demonstration.
- ◆ Cooperation among participants to establish a common business development vision
- ◆ A full scale commercial capture project being operated in full commercial operation at a coal fired power plant
- ◆ Global branding of Canada's National Champion



# In Conclusion

- ◆ Human and physical space resource constraints are a growing concern.
- ◆ Lack of available funding to address constraints impact research productivity and future projects.





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