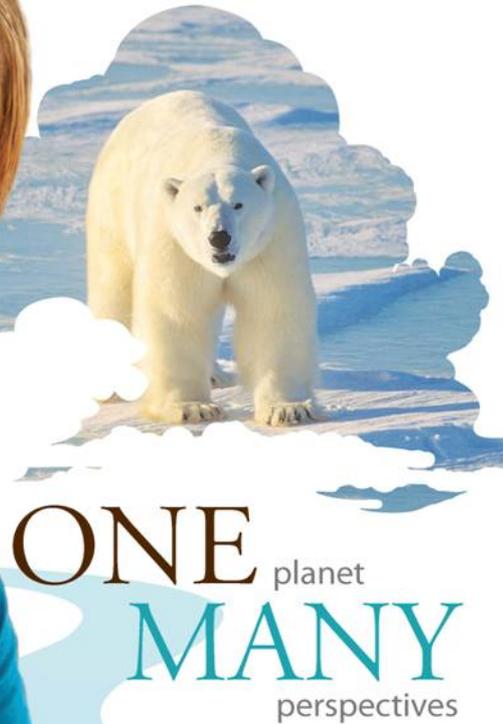


Clayton H. Riddell

Faculty of Environment, Earth, and Resources



BaySys

Contributions of climate change and hydro-electric regulation to the variability and change of the freshwater-marine coupling in the Hudson Bay System

Project PI: Dr. David Barber
(David.Barber@umanitoba.ca)

Project coordinator:
Claire Hornby
(claire.hornby@umanitoba.ca)



UNIVERSITY
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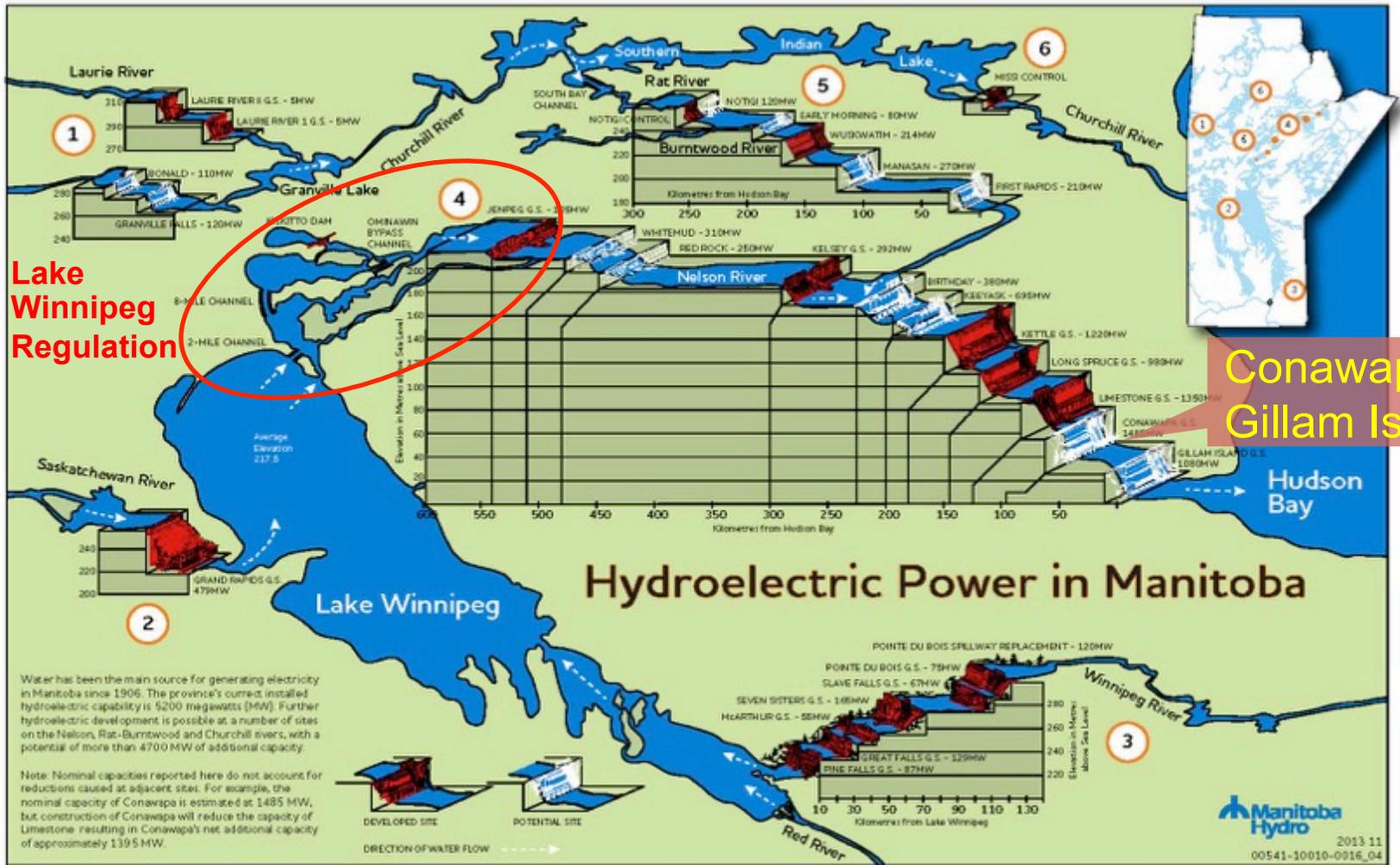
One university. Many futures.

204 474-7252
umanitoba.ca/environment



ArcticNet
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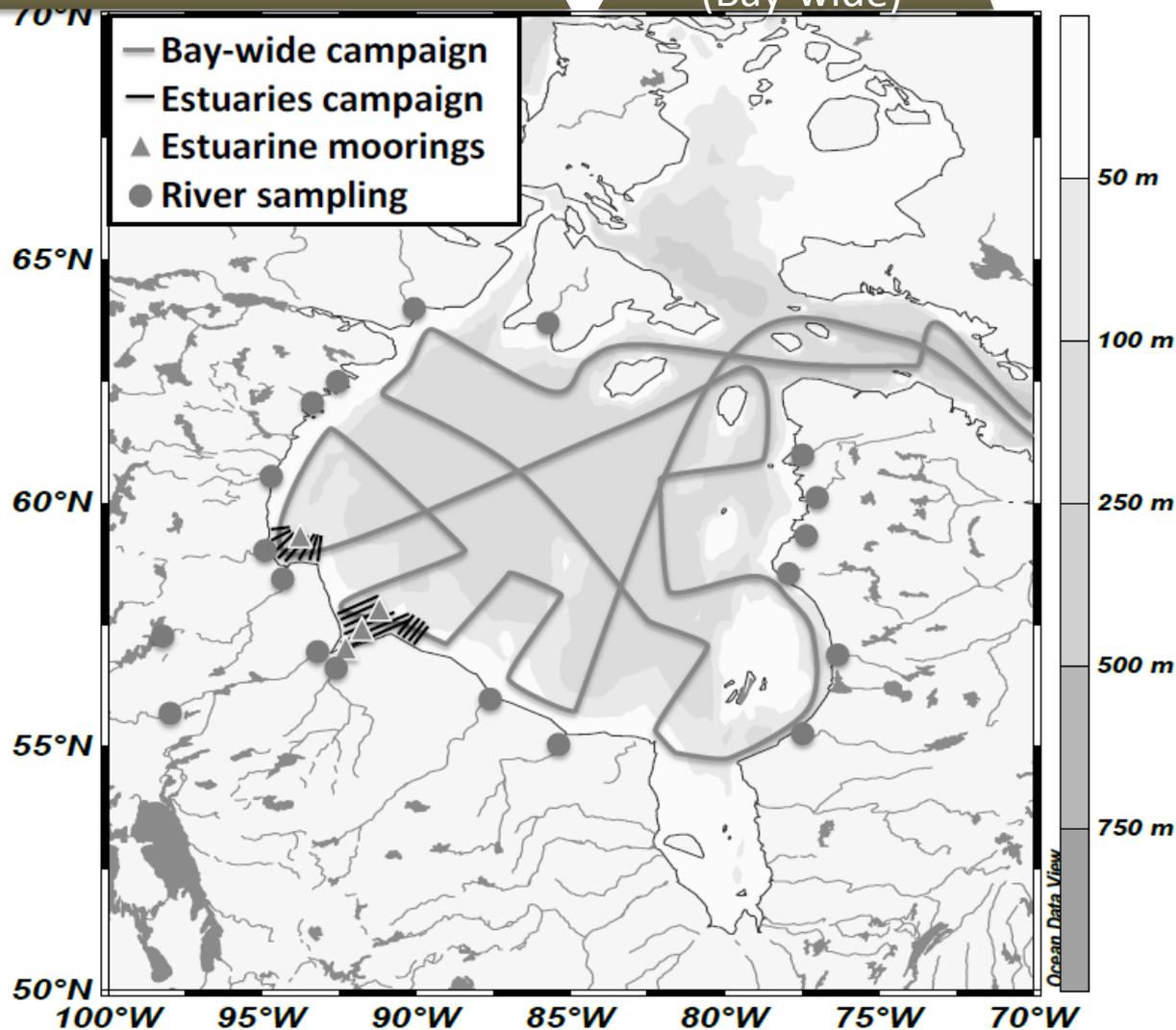


BaySys Sampling 2017

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Estuary winter campaign

Amundsen
(Bay-wide)



BaySys Teams

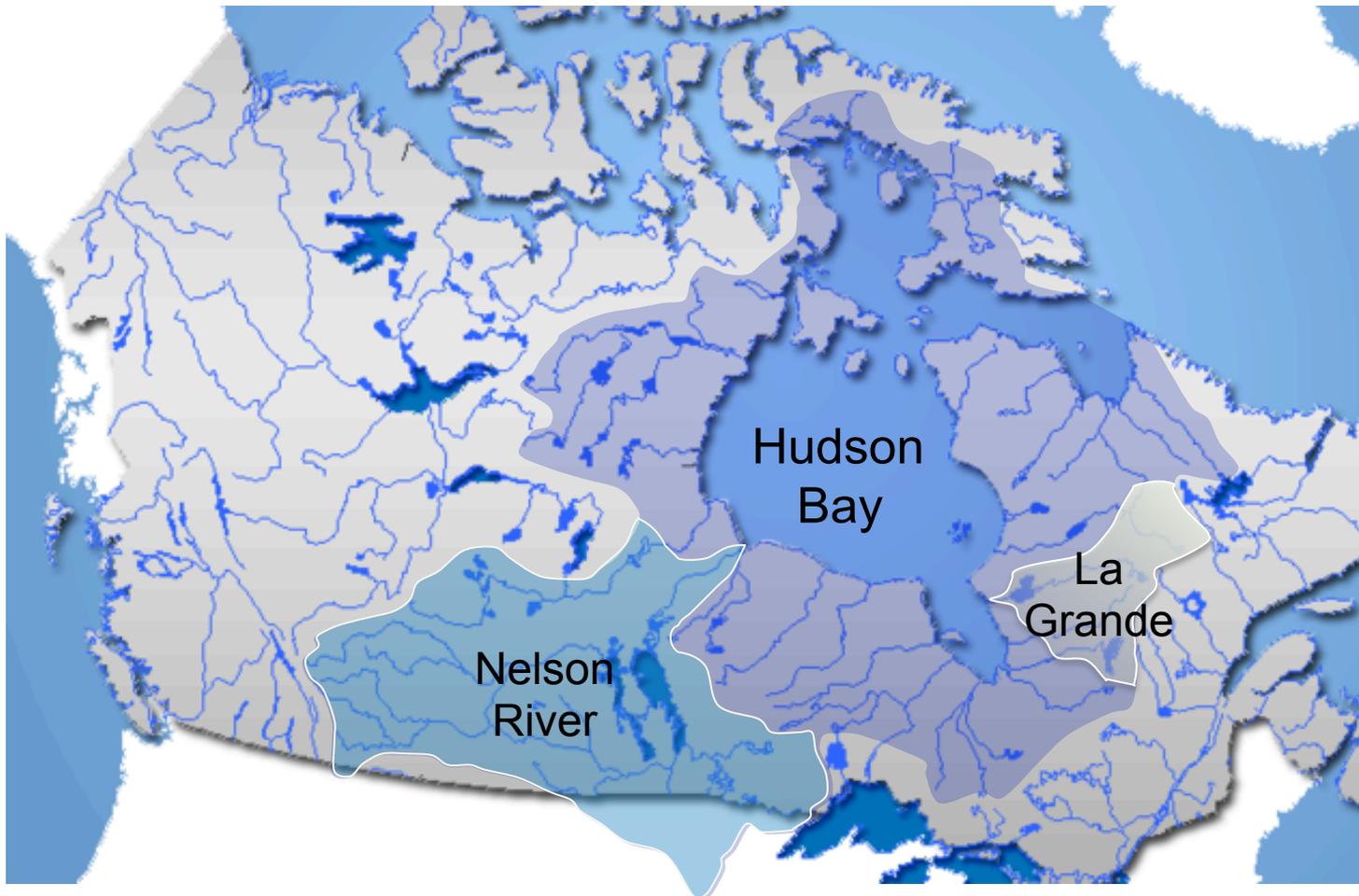
1. Marine/Climate System – J. Ehn; M. Morris
2. Freshwater/Littoral System – T. Stadnyk; K. Koenig
3. Marine Ecosystem – J.E. Tremblay; G. Swanson
4. Carbon Cycling – T. Papakyriakou; B. Gill
5. Contaminants – F. Wang; S. Wakelin/A. Zacharias

Project coordination: C.Hornby/M. Morris



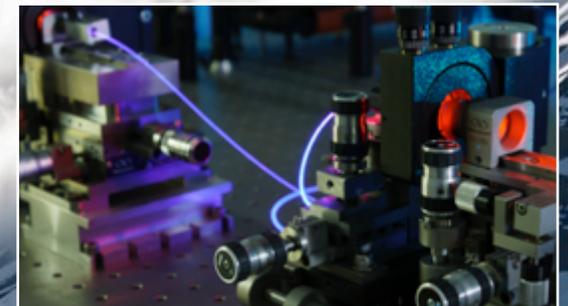
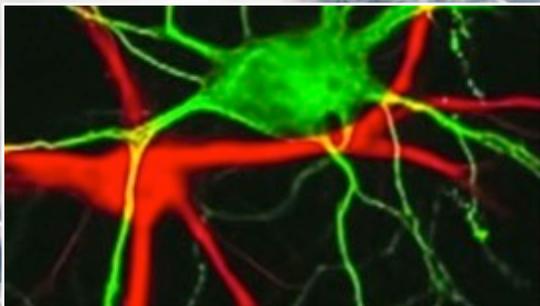


Team 2: Freshwater Systems T. Stadnyk & K. Koenig



Sentinel North

Harnessing the power of light for the benefit of human health,
the environment and sustainable development in the North



Canada



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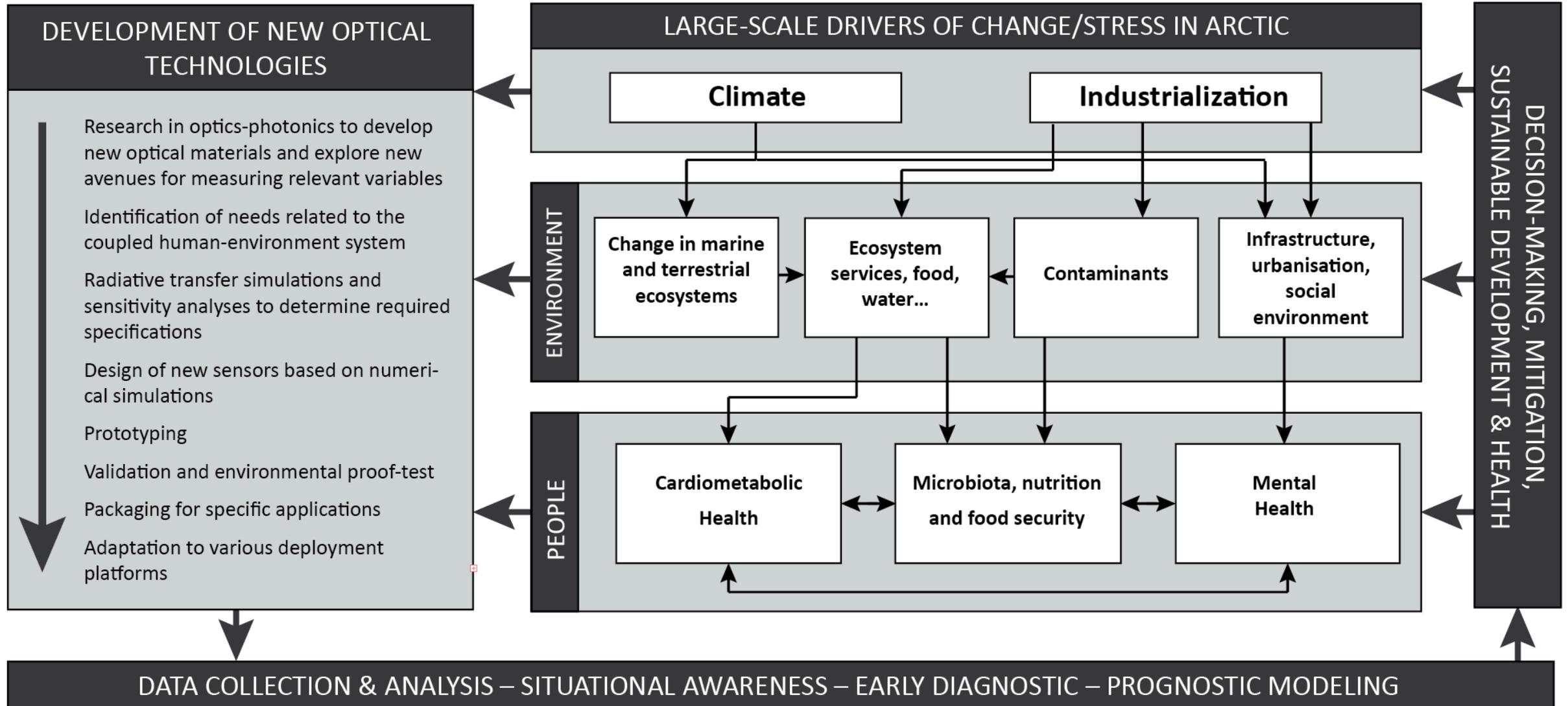
**CANADA
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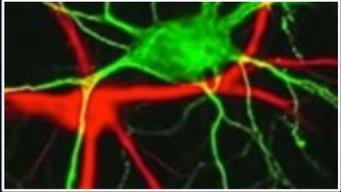
Facts

- 98 MCAN\$ for 7 years to Université Laval
- To sense environment and health in the north using optics
- Internal call for proposals (15 M\$) ongoing
- New miniature sensors for the marine environment
- New imaging systems for UAVs and other flying platforms
- Activities to start late 2016

Conceptual design



Research Themes for the first call for proposals



Theme 1

Complex systems: structure, function and interrelationships in the North



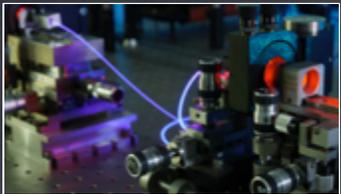
Theme 2

Light as an environment, driver and information carrier in northern environments and human health.



Thème 3

Microbiomes: sentinels of the northern environment and human health.



Theme 4

Technological innovations: monitoring and development of the changing North.



The Circumpolar North

Arctic and subarctic zones as defined by the Arctic Council.

