1st (and only) Synchrotron Lightsource in Canada



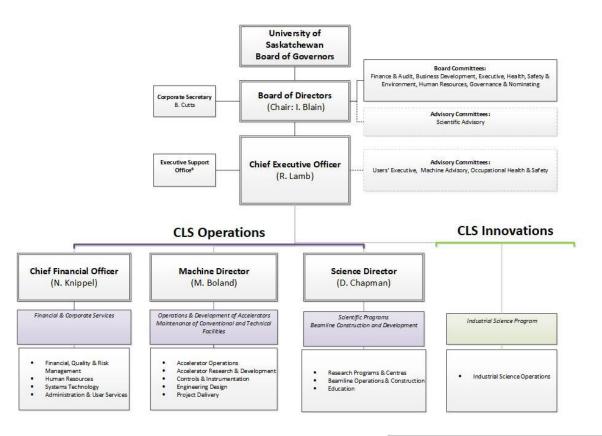


Light Source

Canadian Centre canadien de rayonnement synchrotron

THE BRIGHTEST LIGHT IN CANADA

The Canadian
Light Source is
a non-profit
corporation
wholly-owned
subsidiary of the
University of
Saskatchewan.



*Executive Support Office

- Chief Strategic Relations Officer
- Health, Safety & Environment
- Communications & Outreach
- Executive Assistant



CLS in numbers

909 general users



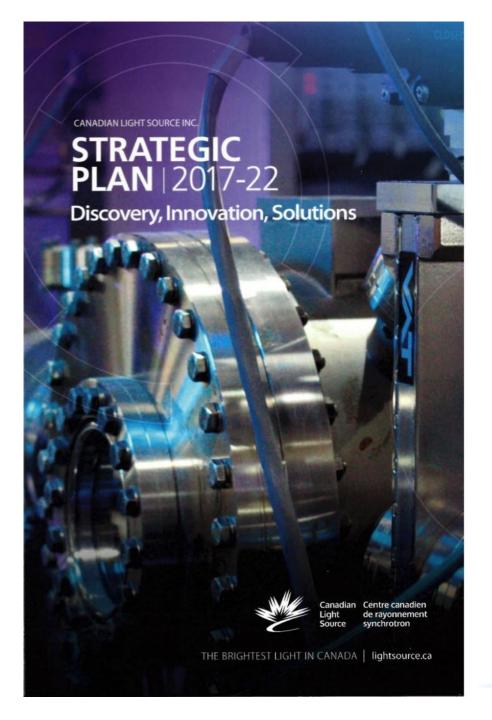
\$40M budget 265 staff 312 peer-review papers2,552 authors



International users







Objectives

- 1. Increase impact by being a solution provider
- 2. Focus research and industry sector activities in areas with the greatest potential
 - Agriculture
 - > Health
 - Environment
 Advanced Materials
- 3. Enhance ma capitalize on machine science and engineer ng expertise
- 4. Establish proad awareness of the CLS as an accessible driver of innovation

- Agriculture
- Health
- Environment
- Advanced Materials

Science Case for the Future

May 2015

Biological / Life Sciences

Real Time Functional BioImaging

- Brightness
- Imaging

Coherent X-Ray Diffraction Imaging of Bio Systems

- Brightness
- Imaging

Multi-Modality Imaging

- Brightness
- Imaging
- Multiple beamlines

Advanced Materials

In-operando Studies

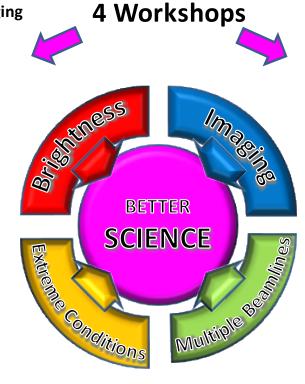
- Brightness
- Multiple beamline access
- Extreme conditions

Real-Time Measurements

Brightness

Coherent X-Ray Diffraction

- Brightness
- Imaging



Structural Biology

Time Resolved Crystallography

Brightness

Nanometer Scale Crystals

Brightness

In-situ Protein-Substrate Reactions

Brightness

Geo / Enviro / Agri Sciences

In-situ microbe-mineral interactions

Brightness

Soils Composition

Multiple beamline access

Extreme Environments

- Brightness
- Extreme conditions

Agriculture

- Imaging
- Multiple beamline access

