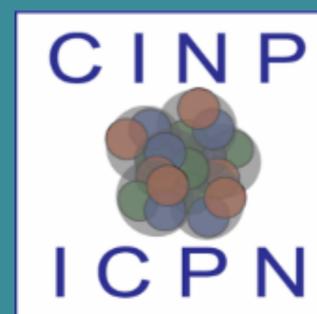


Canadian Subatomic Physics Long Range Plan 2022 - 26

LRP Committee Co-chairs

Brigitte Vachon (McGill) & Adam Ritz (Victoria)

<https://subatomicphysics.ca/>



Canadian Subatomic Physics

Subatomic Physics

Canadian Institute of Nuclear Physics (CINP)

Nuclear structure

Element formation

QCD and hadrons

Fundamental symmetry experiments

Canadian Institute of Particle Physics (IPP)

Precision frontier

High energy frontier

Neutrino properties

Particle astrophysics

Direct dark matter

Canadian SAP community (2015)

233 grant-eligible researchers
(12% women)

31 Universities

TRIUMF, SNOlab, Perimeter Institute

Canadian SAP Long Range Plan

Process through which community expresses its **physics aspirations** and identifies **promising opportunities** for Canada to significantly contribute to answering some of the most pressing questions in the field.

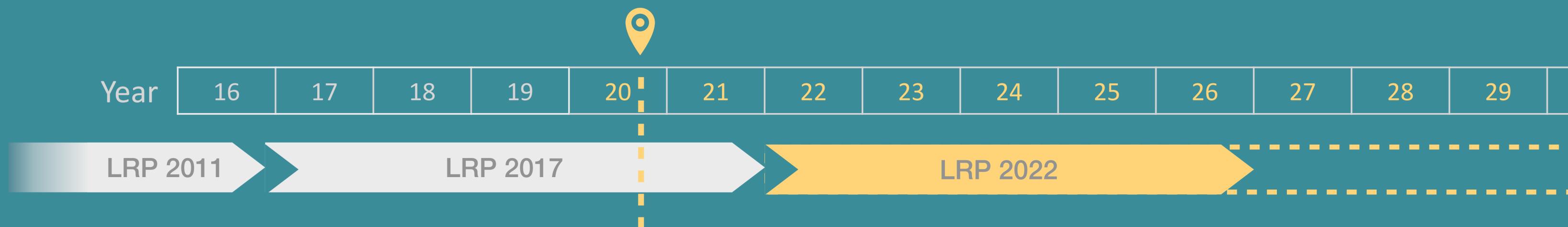
Plan updated every 5 years

Purpose and Value

- **Aim to maximize Canadian impact in a global field, given limited resources...**
- The LRP report **informs** funding agencies of the community's priorities for the field; however, funding agencies still traditionally hold broad peer-review funding competition (e.g. **not mission-driven**).
- The report communicates to international partners (and policy makers) the Canadian plans and priorities, and resource requirements.
- An inclusive planning process that helps to strengthen and coordinate the Canadian SAP community.

Canadian SAP LRP 2022-26

- Commissioning bodies: NSERC, IPP, CINP
- LRP scope is 2022 - 2036; plan active from 2022 - 2026



- Informed by other planning processes : US Particle Physics, US NSAC, Europe, Japan, ...

LRP Organization

- Process organized and coordinated by LRP Committee

LRP Committee Membership

Name	Institution
Adam Ritz (Co-chair)	Victoria
Brigitte Vachon (Co-chair)	McGill
Eckhard Elsen	CERN
Chris Jillings	SNOLAB
Rituparna Kanungo	St Mary's
Bob Laxdal	TRIUMF
Augusto Macchiavelli	LBNL
Juliette Mammei	Manitoba
Jeff Martin	Winnipeg
Niki Saoulidou	Athens
Kate Scholberg	Duke
Alex Wright	Queen's

LRP Committee Ex-officio/observers

Institution	Name
CINP Executive Director	Garth Huber
IPP Director	J. Michael Roney
NSERC Team Leader	Emily Diepenveen
NSERC SAPES Co-chairs	Alison Lister, Thomas Grégoire
TRIUMF ALD Physical Sciences	Jens Dilling
SNOLAB Director	Nigel Smith
Perimeter Institute	Cliff Burgess
CFI Manager, John R. Evans Leaders Fund	Olivier Gagnon
Arthur B. McDonald Canadian Astroparticle Physics Research Institute Scientific Director	Tony Noble

- Snowmass Advisory Group, Representative from the International Community (Canada):
Heather Logan, Carleton University.

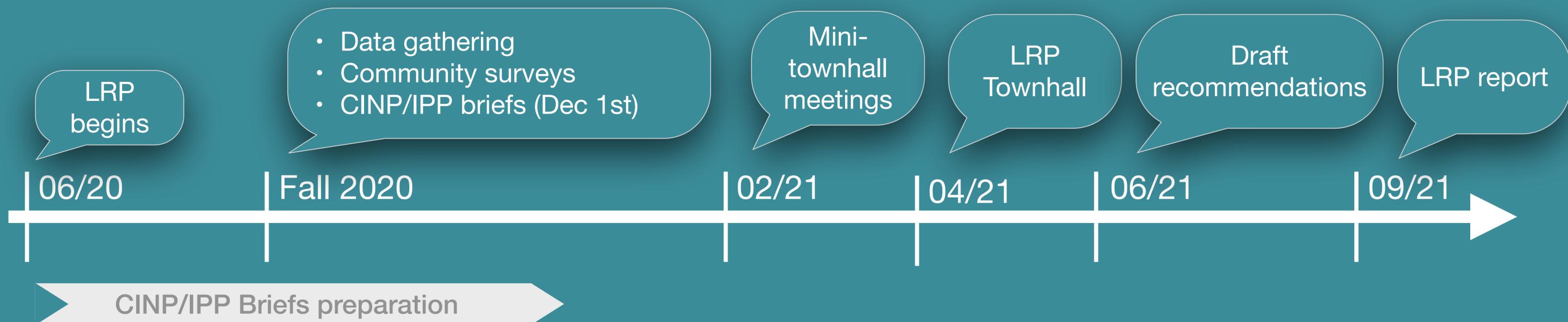
LRP Committee Mandate

Based on broad consultation with the Canadian community:

- Identify subatomic physics scientific ventures and priorities that should be pursued by the community on a 5-15 year time horizon and that would ensure continuous Canadian global scientific leadership.
- Provide budgetary estimates (for capital and operations), including funding ranges for prioritized endeavours allowing for (i) a restrained, yet efficient, contribution, and (ii) more extensive involvement.
- Address funding opportunities, the relationship between funding agencies and other organizations, the activities of national research organizations, and the international context.
- Address Equity, Diversity and Inclusion and support for early career researchers within the the subatomic physics community.

Canadian LRP Process and Schedule

- Community-driven process



lrpc@subatomicphysics.ca
<https://subatomicphysics.ca/>

Summary: Canadian Long Range Plan 2022-26

- Canadian SAP Long Range Plan process ongoing.
 - Final report available in September 2021.
- Community-driven process.
 - Several ways through which community can participate.
 - We welcome any comments, suggestions and concerns from the community.
- You can join mailing list to stay informed about upcoming events.

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