



A NEXT STEP

Part of Canada's
Radioactive Waste Review



CANADA'S INTEGRATED STRATEGY FOR RADIOACTIVE WASTE

Virtual Information Sessions
October and November 2022



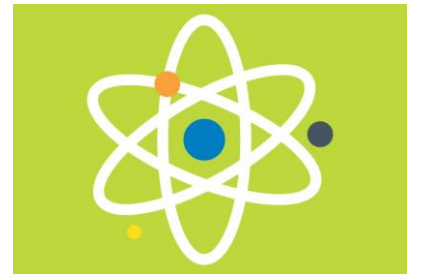
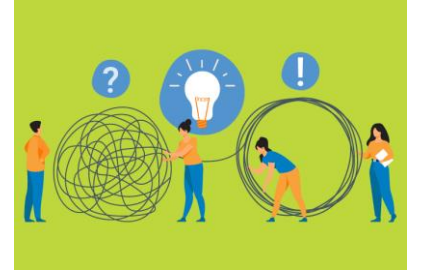
WELCOME



WHY WE ARE HOSTING INFORMATION SESSIONS

AGENDA

1. Welcome
2. Presentation
3. Q+A
4. Closing





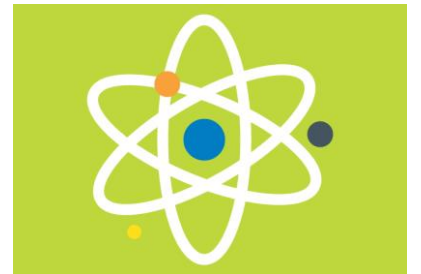
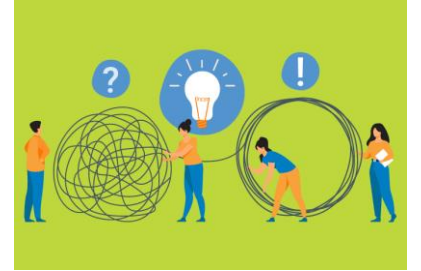
PRESENTATION

**By Karine Glenn, P. Eng., Ing.
Director Impact Assessment, Nuclear Waste Management Organization**

ISRW PROJECT

In November 2020, the Minister of Natural Resources Canada asked the NWMO to lead the development of an **integrated strategy on radioactive waste (ISRW)**

- All radioactive waste safely managed today
- Several long-term plans and projects exist
- Some gaps exist
- This strategy represents a **next step**



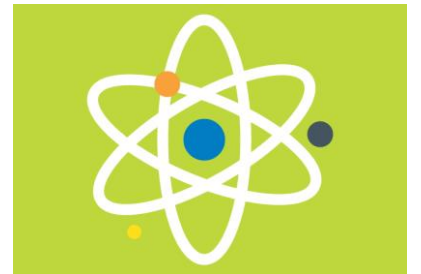
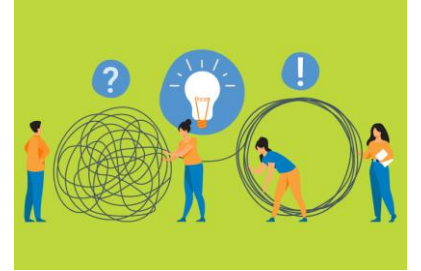
FOCUS IS ON GAPS IN EXISTING PLANS

NO GAPS:

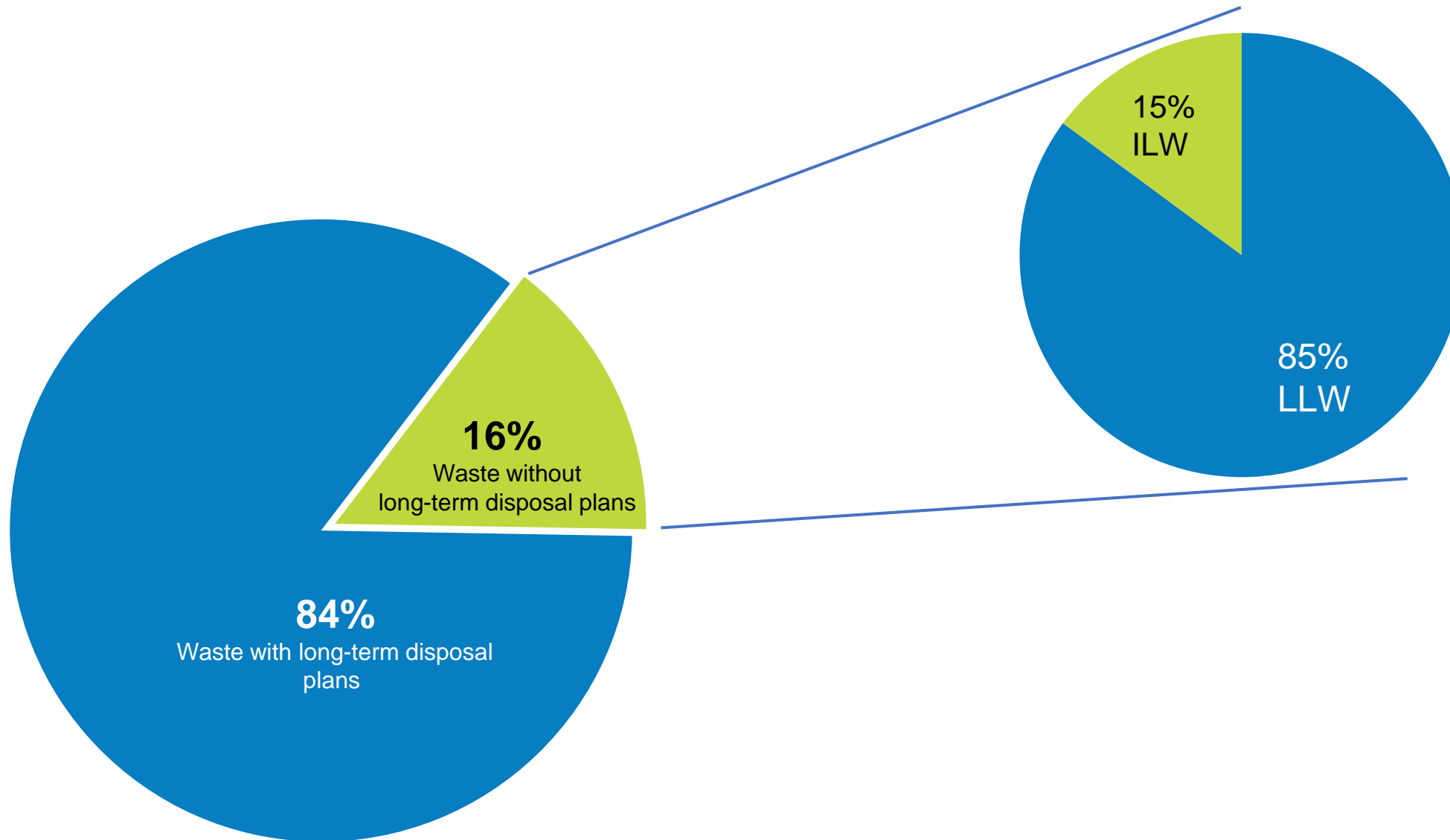
- **High level radioactive waste** - a long-term plan is in place through the NWMO's DGR project
- **Uranium mine and mill waste** - disposal facilities are in operation

GAPS:

- Some long-term planning is underway for **low-level radioactive waste**, but several gaps exist
- **No long-term management plans in place for any of Canada's intermediate-level waste** - this is also a gap in the system.



STATUS OF PLANS FOR TOTAL WASTE INVENTORY IN CANADA



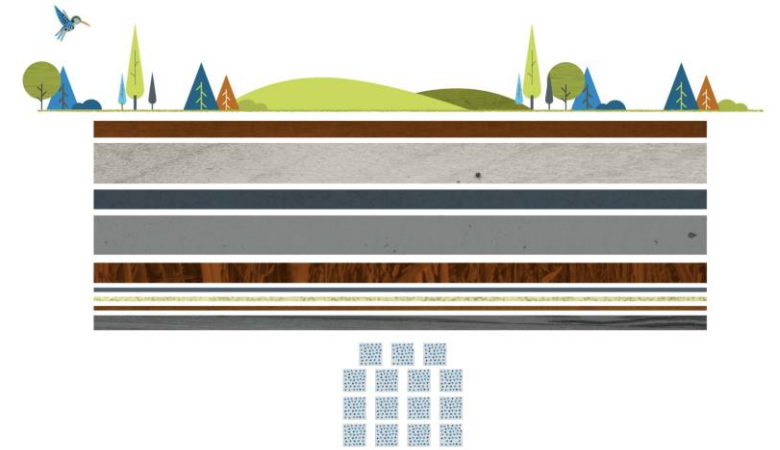
DRAFT ISRW INCLUDES



**Taking Stock of
Current
Waste Management
Situation**



**How NWMO Engaged
on Options to Address
the Gaps**



**Making
Recommendations for
Long-Term
Management Solutions**

ENGAGEMENT TO DATE

- Radioactive Waste Summit (500 participants)
- 13 Community Engagement Sessions
- 27 Roundtables
- 6 Technical Workshops
- 16 Youth Engagement Sessions
- 20+ Indigenous Engagement Sessions
- Surveys: 2000 responses

Almost 4000 participants
Over 1.2 million people
reached via Social Media



FOCUS OF DISCUSSION



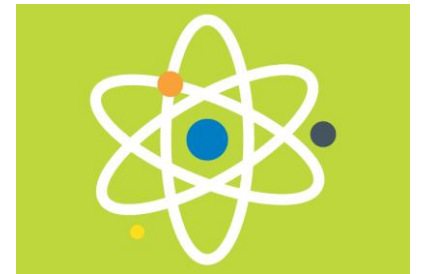
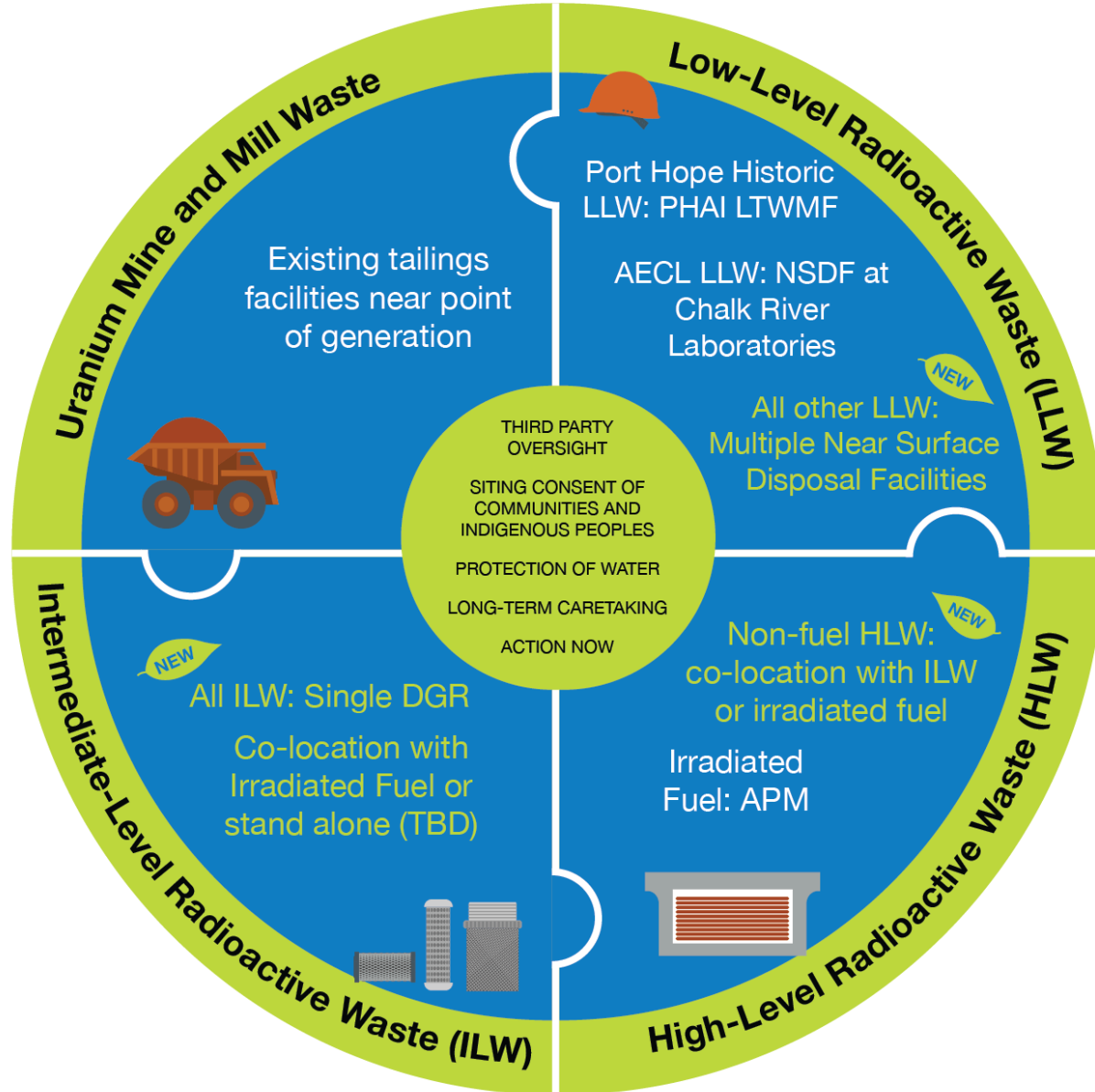
- What is **most important to get right** when developing an Integrated Strategy for Canada's Radioactive Waste?
- How do we best deal with Canada's **Low-Level Waste** and **Intermediate-Level Waste** over the long-term?
 - What type(s) of facilities should we use?
 - Rolling stewardship vs disposal
 - How many of them should we build?
- **Who** should be responsible for implementing the strategy?

WHAT WE HEARD OVERALL



- Top priorities: safety, security, and the environment
- High priority to Indigenous consent and knowledge
- Disposal is the preferred path
- Leaving LLW nearer to where it was, rather than transporting it vast distances, was a fairer and preferable option
- ILW should be centralized in a single facility
- Preference for a separate organization to oversee the implementation of Canada's strategy

The Draft Strategy



Recommendation #1

Multiple near-surface facilities for Low-level waste

Implementation by Waste Owners

- Aligns with international best practices
- Preferred by majority of participants
- Having multiple facilities reduces transportation
- Concrete Vault, Shallow Rock Cavern and Engineered Containment Mound are all potential options
- Regional facilities should be explored

Recommendation #2

Single DGR for Intermediate-level waste

Implementation by NWMO

- Preferred by the majority of participants
- Similar support for:
 - Co-location with irradiated fuel
 - Separate DGR
- NWMO is recommended implementer:
 - Experience in DGRs
 - Smaller volumes do not support multiple sites/implementers
- Could accommodate non-fuel HLW

Recommendation #3

A third-party, independent of the implementing organizations, should oversee the implementation of the strategy

- Should allow for greater ongoing involvement of interested parties throughout the lifecycle of the facilities
- Industry would still remain responsible for the implementation

Recommendation #4

Consent of local communities and Indigenous peoples for siting of future facilities

- Aligned with the objectives of UNDRIP
- Continuous involvement of Indigenous communities
- Indigenous laws and processes where future facilities will be planned should be respected and incorporated as part of the ISRW implementation

Recommendation #5

Design of facilities should prioritize the protection of water

- Safety can be demonstrated from a technical standpoint regardless of location
- Societal support difficult to obtain for facilities located near water

Recommendation #6

Establish long-term caretaking

- Oversight of the waste and of the facilities for as long as future generations deem it to be necessary
- Includes:
 - Transfer of knowledge
 - Periodic review of the monitoring plans

Recommendation #7

Take action *NOW*

- Integrated strategy needed
- Sense of urgency
- Policy stipulates 2050 for significant progress on infrastructure
- Long lead times require on-going commitment and support from government

QUESTIONS FOR CLARIFICATION



Suspend judgment, challenge
your own assumptions



Recognize and respect
diverse perspectives



Share the airtime



Listen to understand



CLOSING

GET INVOLVED!



Register for updates



Learn More / Read the Report



Share feedback on the draft ISRW
(November 24, 2022)

<http://radwasteplanning.ca>



Help us create a safe, integrated, long-term strategy for radioactive waste in Canada

Over the past year, Canadians and Indigenous peoples, including representatives from industry, academics and civil society organizations, elected officials and young people shared their thoughts on the best options to ensure all of Canada's radioactive waste is managed safely, responsibly, and effectively long after we're gone.

Canada is safely managing its radioactive waste today and already has several long-term plans and projects in place. However, there are some gaps in addressing certain streams, specifically low-level and intermediate-level radioactive waste, that need an integrated, long-term strategy. The Nuclear Waste Management Organization (NWMO) was asked by the Minister of Natural Resources Canada to lead the development of this strategy by engaging with Canadians and Indigenous peoples.

We organized a series of interactive, accessible and collaborative engagements that welcomed a diversity of voices. The thoughts and perspectives gathered play an important role in identifying the best approach to ensure all of Canada's radioactive waste is managed safely, responsibly and effectively long after we're gone.

Our work continues. Visit our Reports Page to see what's most important to Canadians and Indigenous peoples on this topic and help us shape Canada's strategy.

[See the timeline.](#)

Draft Integrated Strategy for Radioactive Waste for Public Comment

The Draft Integrated Strategy for Radioactive Waste (ISRW) is ready for public comment. We invite you to provide your feedback during our 60-day public comment period from August 25, 2022 to October 24, 2022.

This draft strategy has been informed by what we heard from Canadians and Indigenous peoples who participated in our surveys or in one of our more than 70 engagement sessions since March 2021.

[Read the Draft Strategy Report](#)

[Share your thoughts on the Draft Strategy](#)

[Visit the Integrated Strategy on Radioactive Waste \(ISRW\) Reports Page](#)

Stay Informed

Follow us on Twitter: [@RadWastePlan](#)

[Register to receive news and invitations](#)

Current and Past Participation Opportunities



Draft Integrated Strategy for Radioactive Waste for Public Comment

We have engaged on the Integrated Strategy on Radioactive Waste (ISRW) and want to ensure all interested participants are provided the opportunity to continue to provide input and advice. We invite you to provide your feedback during our 60-day public comment period from August 25, 2022 to October 24, 2022.



Indigenous Relations

We are committed to long-lasting relationships with Indigenous peoples built upon communication, transparency, respect and reconciliation. We will engage with Indigenous peoples on the Integrated Strategy on Radioactive Waste (ISRW), and ensure all participants are provided the opportunity to provide input and advice.



235
U
Uranium

60
Co
Cobalt

THANK YOU
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<http://radwasteplanning.ca>