

# » Implementing Canada's Plan for Used Nuclear Fuel

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**nwmo**

NUCLEAR WASTE  
MANAGEMENT  
ORGANIZATION

SOCIÉTÉ DE GESTION  
DES DÉCHETS  
NUCLÉAIRES

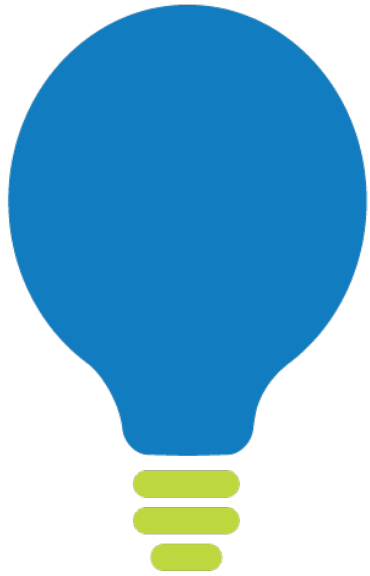




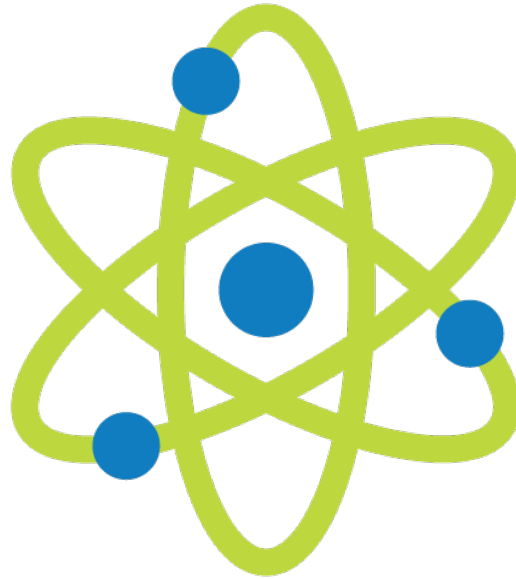


## » Progress on Canada's Plan

# Implementing a safe, long-term plan



Created in 2002



Non-profit organization  
funded by waste owners



Through dialogue with  
Canadians and Indigenous  
peoples, Canada's plan emerged

SASKATCHEWAN

1

2

3

Communities that expressed  
interest in the site selection process

● **Assessments underway in the area**

5. Ignace

21. South Bruce

● **Communities not identified  
for further study**

1. English River  
First Nation

12. Wawa

13. Blind River

2. Pinehouse

14. Elliot Lake

3. Creighton

15. The North Shore

4. Ear Falls

16. Spanish

6. Red Rock

17. Saugeen Shores

7. Nipigon

18. Arran-Elderslie

8. Schreiber

19. Huron-Kinloss

9. Manitouwadge

20. Brockton

10. Hornepayne

22. Central Huron

11. White River

ONTARIO

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# Site Selection Criteria

To identify a preferred location to take into detailed site characterization



Safety

1



Partnership

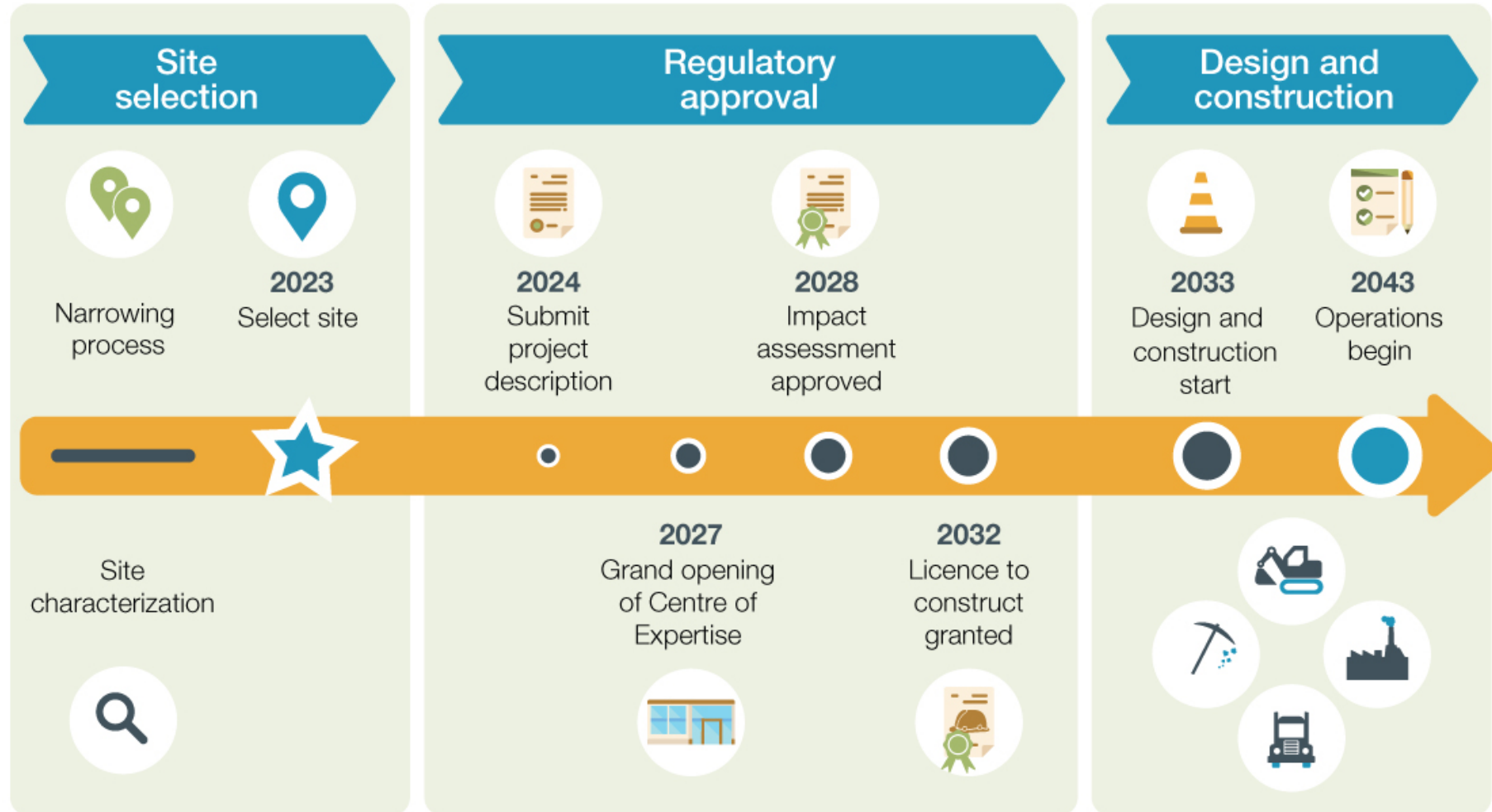
2

Transportation



3

# Project Timelines



MARCH 2021





## » Willingness and Reconciliation



A silhouette of a person stands in shallow water, holding a long canoe horizontally above their head. The scene is set at sunset, with the sky displaying vibrant orange and red hues that reflect on the water's surface. The person's reflection is visible in the calm water.

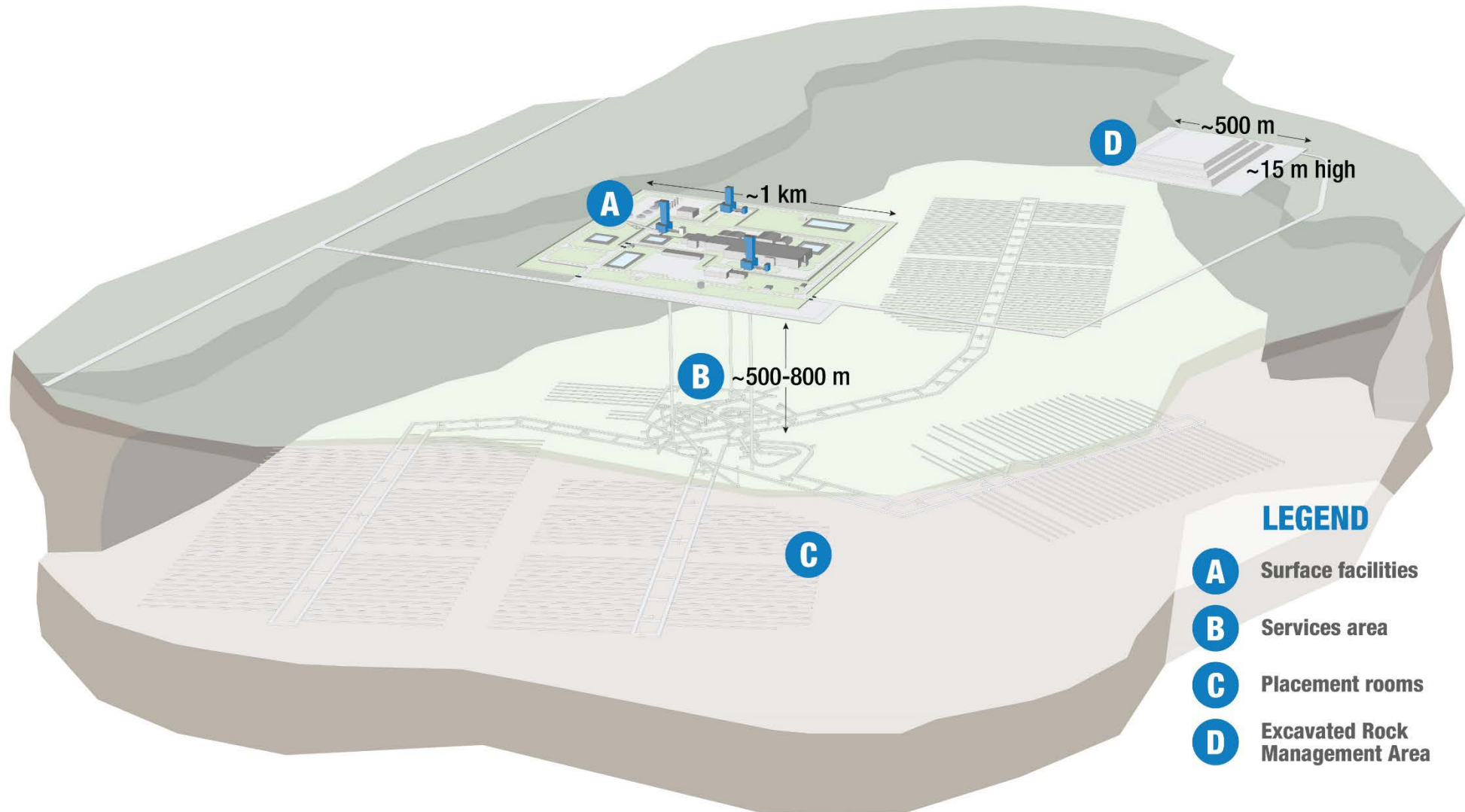
**Wabigoon Lake  
Ojibway Nation –  
Ignace area**

A landscape photograph showing a body of water, possibly a lake or a wide river, surrounded by lush green reeds and marsh vegetation. In the background, there are fields and a line of trees under a clear blue sky.

**Saugeen Ojibway  
Nation –  
South Bruce area**



# The NWMO's Deep Geological Repository





# Site Investigation Ignace

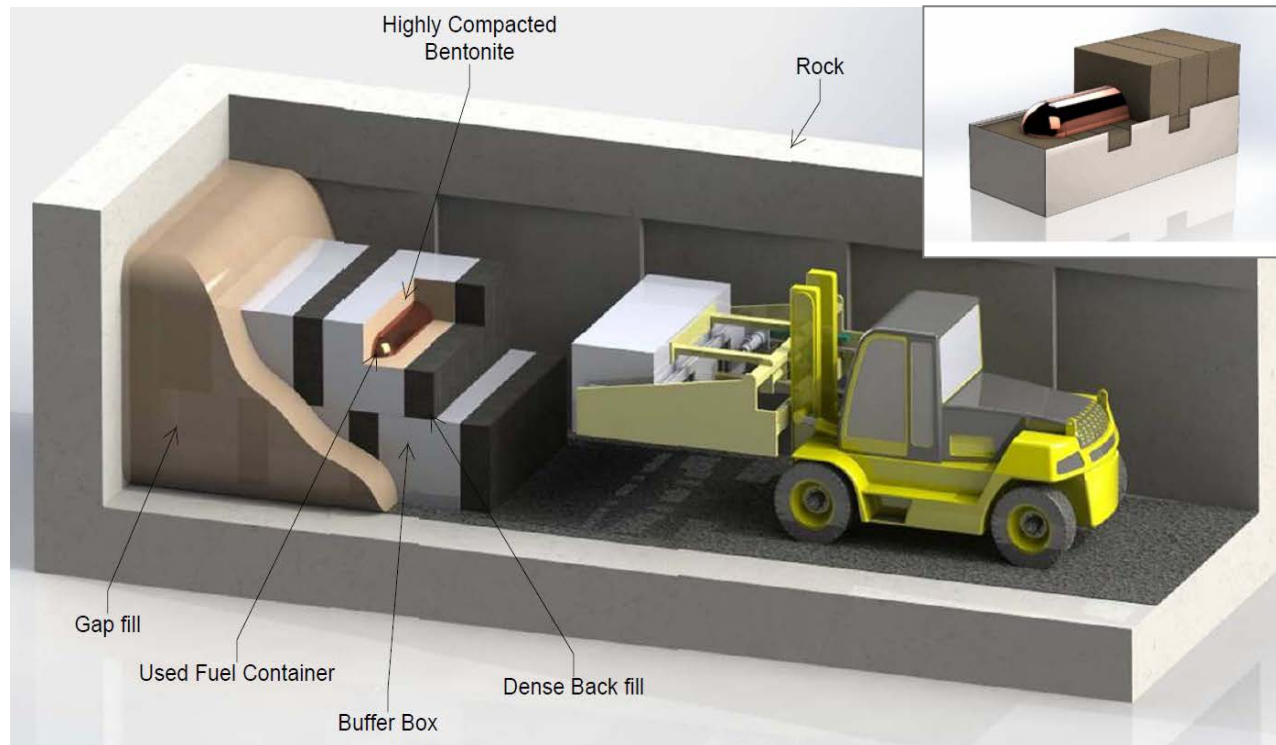


# Site Investigation South Bruce





# Proof Testing & Technology Demonstration





# Used nuclear fuel transportation





# Hearing from the public on priorities, questions and concerns

- Since 2015 we have heard from thousands of individuals and groups on the subject
  - Over 300 meetings
- Development and release of Draft Transportation Planning Framework August 2020
  - Over 50 meetings and hundreds of questions



# Proposed approach to implementing framework

The approach will be flexible and adaptive, and continue to involve people at key milestones along the way





# SMR Fuel Wastes

- NWMO is in discussion with several SMR vendors and utilities
- NWMO will apply the same standard of safety to managing nuclear fuel wastes from advanced reactors, including SMRs:
  - Physical requirements (solid waste form)
  - Characterization requirements (physical, chemical, radionuclides, etc.)
  - Repository requirements (packaging, impact on DGR layout)
  - Transportation requirements (transportable to the DGR site)



# Thank you



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