



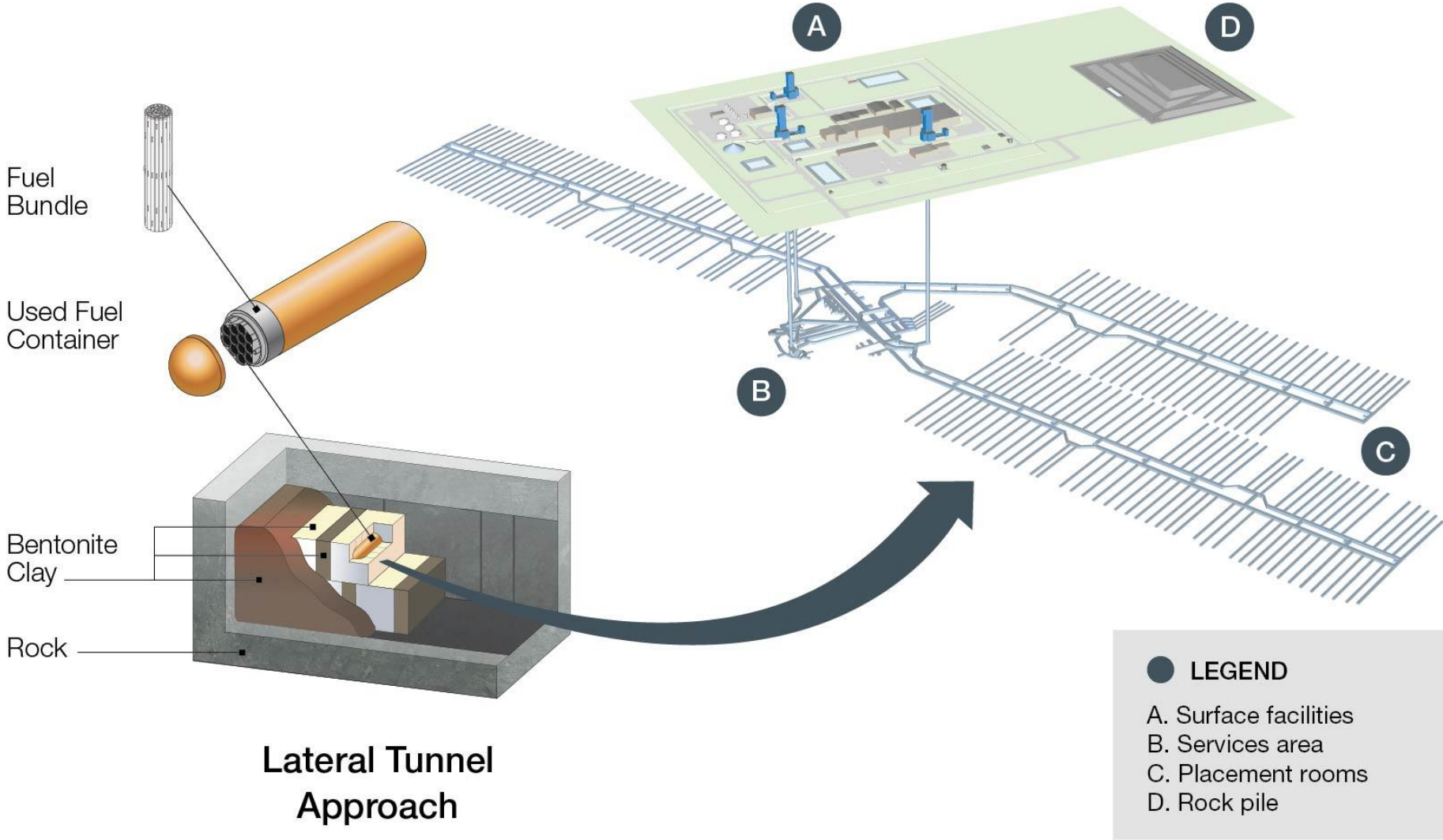
# NWMO Project Update and Transportation Planning

Caitlin Burley  
Director, Strategic Programs and Transportation (Social)  
Nuclear Waste Management Organization  
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## Canada's plan

# Long-term management







● **Interim Storage Facilities**

- 1. Whiteshell Laboratories, Manitoba
- 2. Bruce Nuclear Generating Station, Ontario
- 3. Pickering Nuclear Generating Station, Ontario
- 4. Darlington Nuclear Generating Station, Ontario
- 5. Chalk River Laboratories, Ontario
- 6. Gentilly Nuclear Generating Station, Quebec
- 7. Point Lepreau Nuclear Generating Station, New Brunswick

■ **Assessments underway in the area**

- 1. Ignace / Wabigoon Lake Ojibway Nation
- 2. South Bruce / Saugeen Ojibway Nation



## Siting Update

# Site Investigation: Wabigoon Lake Ojibway Nation - Ignace



# Site Investigation: Saugeen Ojibway Nation - South Bruce





# Site Selection Criteria

To identify a preferred location to take into detailed site characterization



Safety

1



Partnership

3

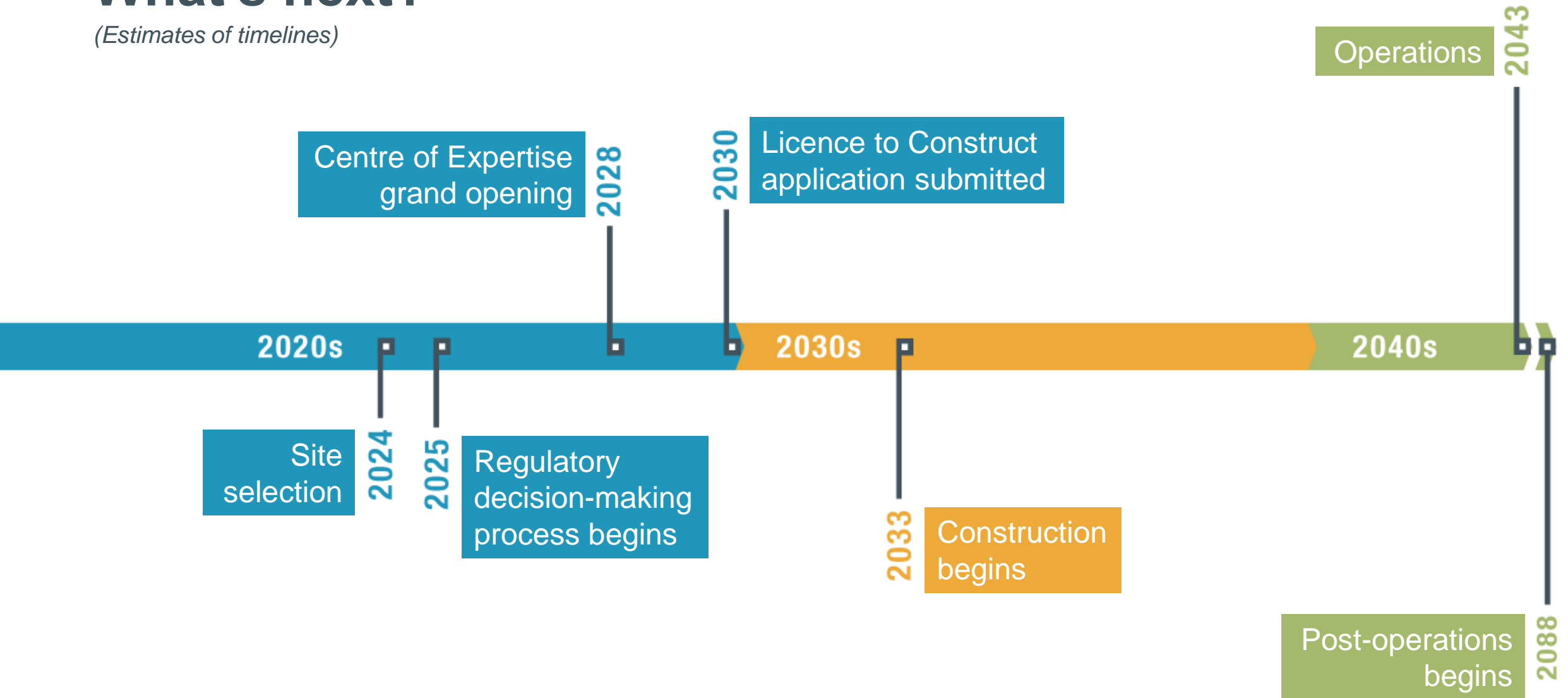
2

Transportation



# What's next?

*(Estimates of timelines)*

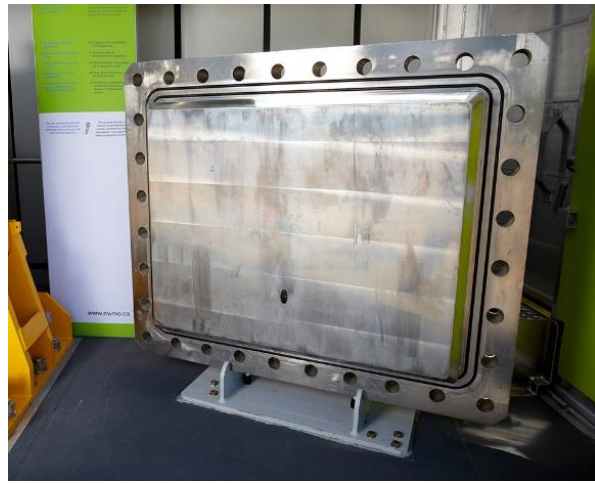




## **Introduction to transportation of used nuclear fuel**



Transportation  
is safe and  
secure



# The NWMO's multi-layered safety program

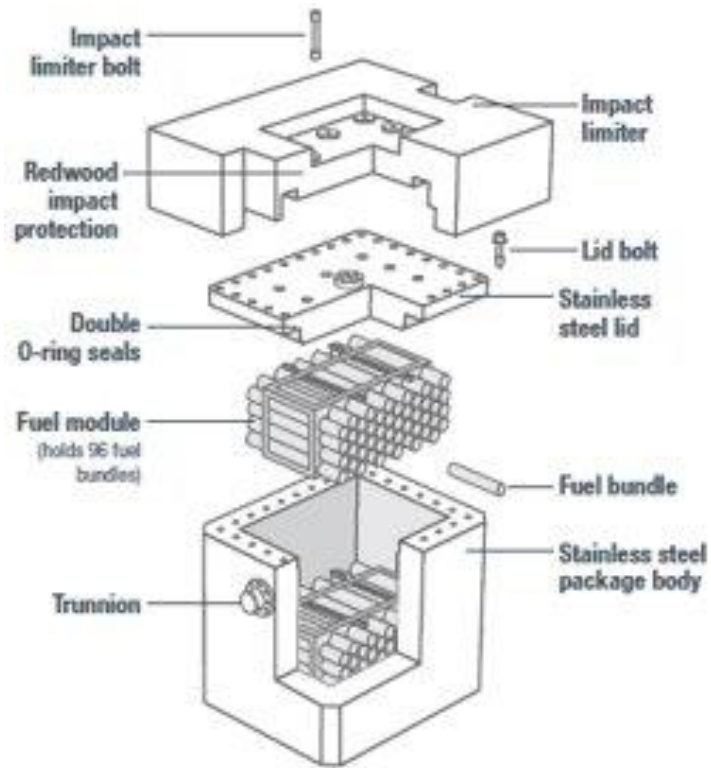
Management system and compliance assurance

Security and emergency management

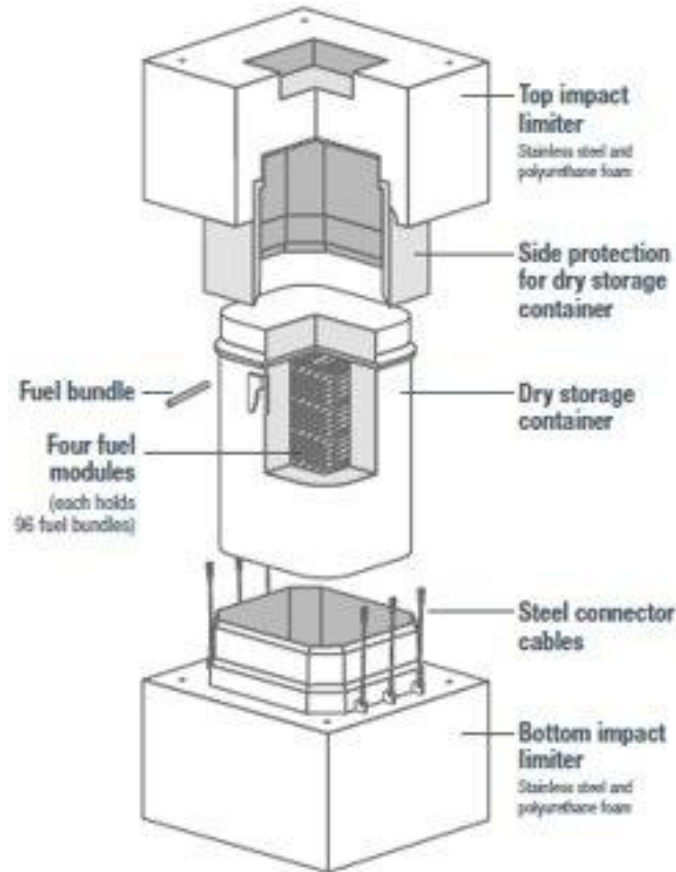
Operational controls

Certified and registered packages

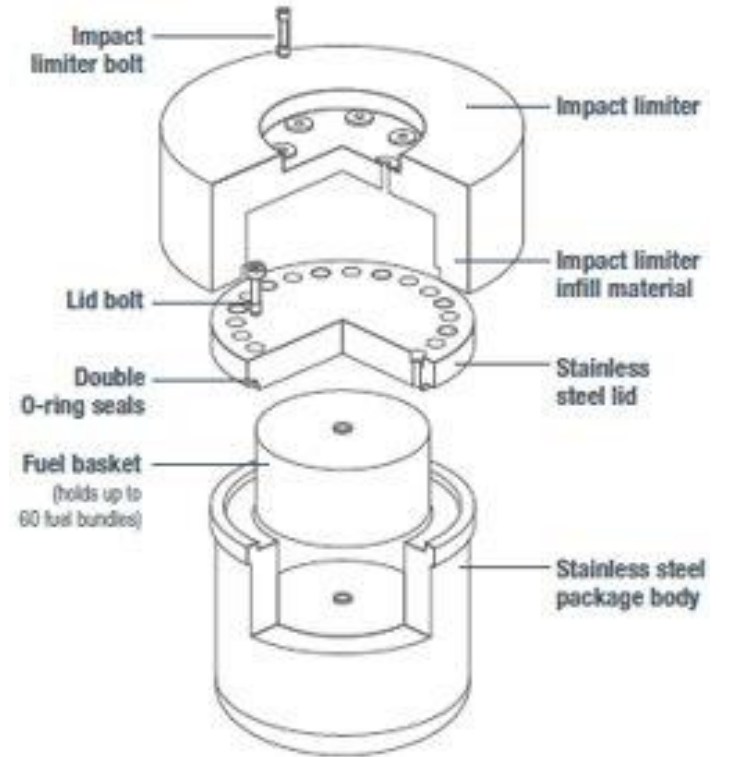
# Transportation packages



Used Fuel Transportation Package (UFTP)



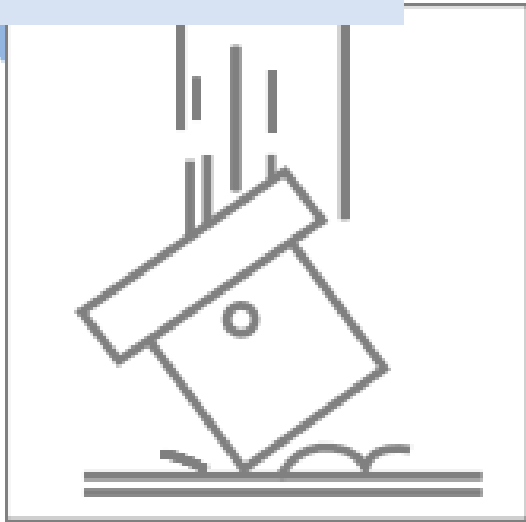
Dry Storage Container Transportation Package (DSC-TP)



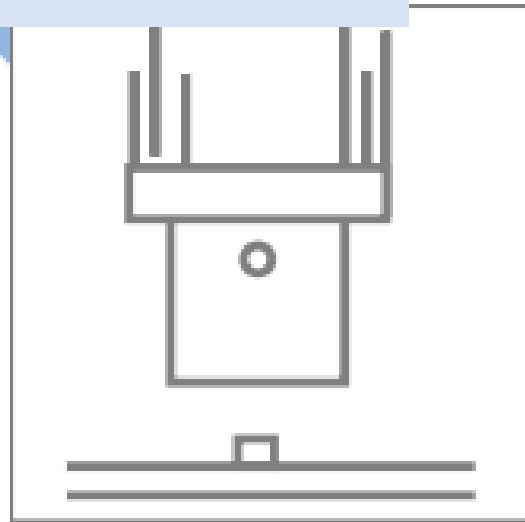
Basket Transportation Package (BTP)

# Transportation package testing

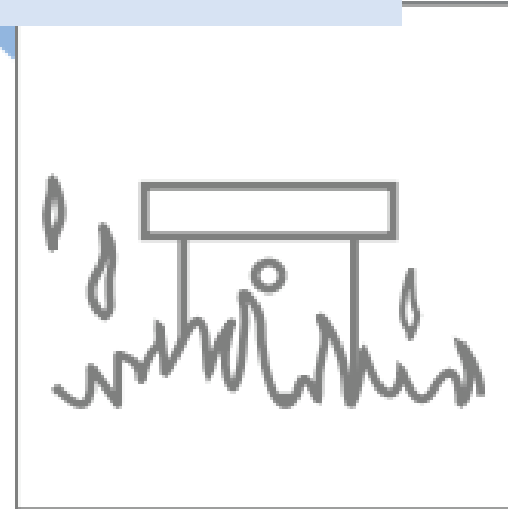
Free-drop test



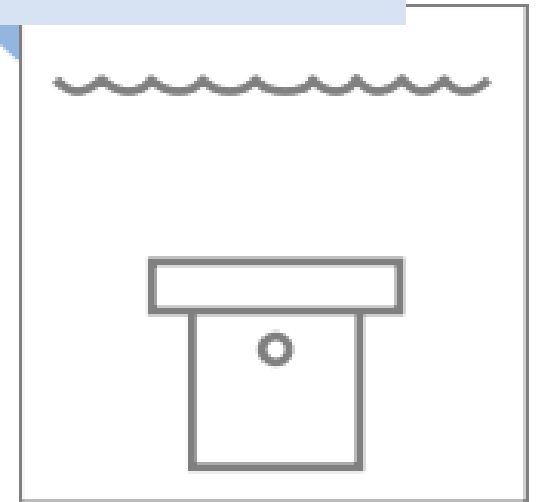
Puncture test



Thermal test



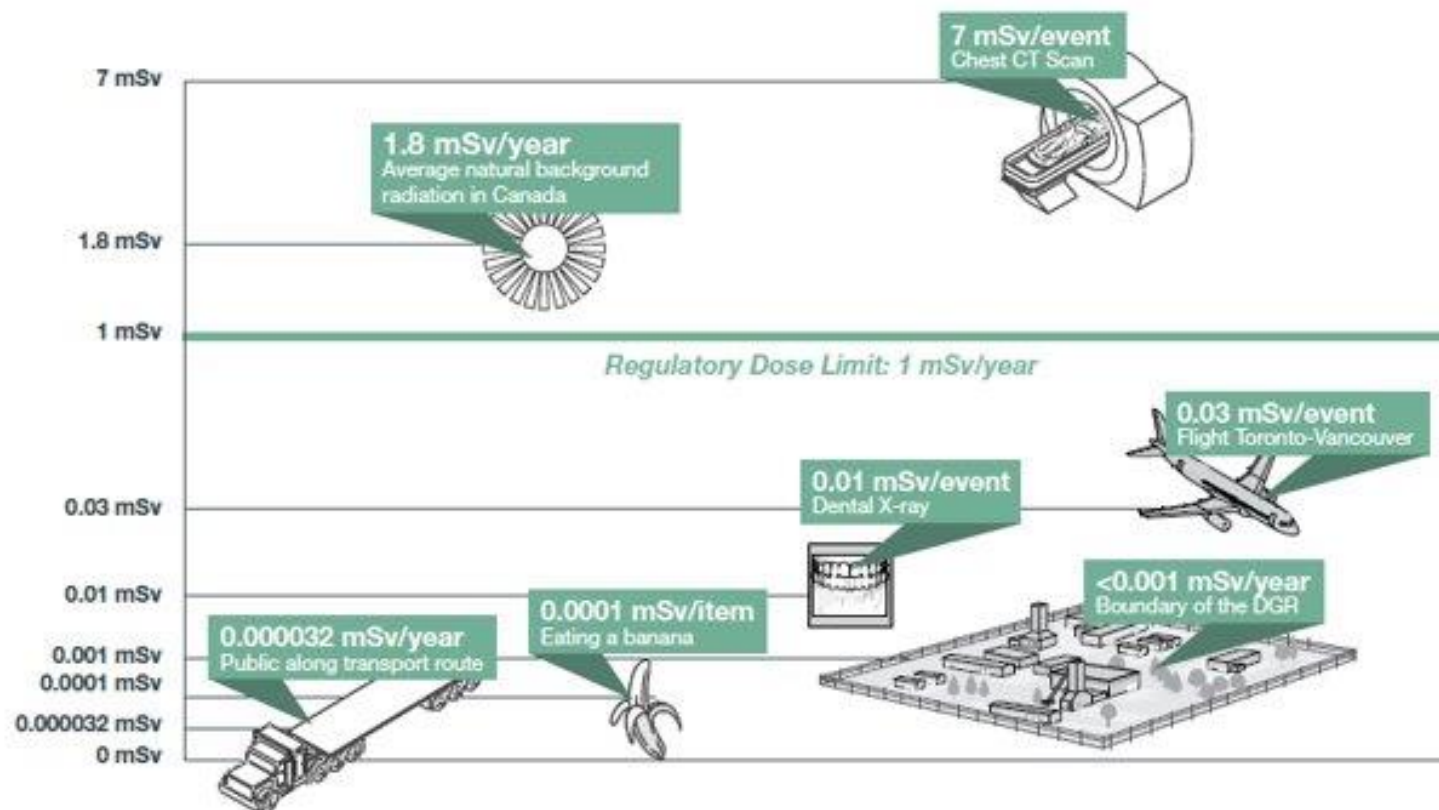
Immersion test



# Radiation safety

## Comparison of Sources of Radiation

The graphic below compares dose rates from common sources of radiation to what members of the public would encounter if they were located 30 metres from a transportation route for used nuclear fuel and experienced all 620 truck shipments or 62 train shipments. Based on a generic dose study, the annual dose would be 0.000032 mSv, which is significantly lower than the public dose limit of 1 mSv set by the regulator.





# Hearing from the public on priorities, questions and concerns

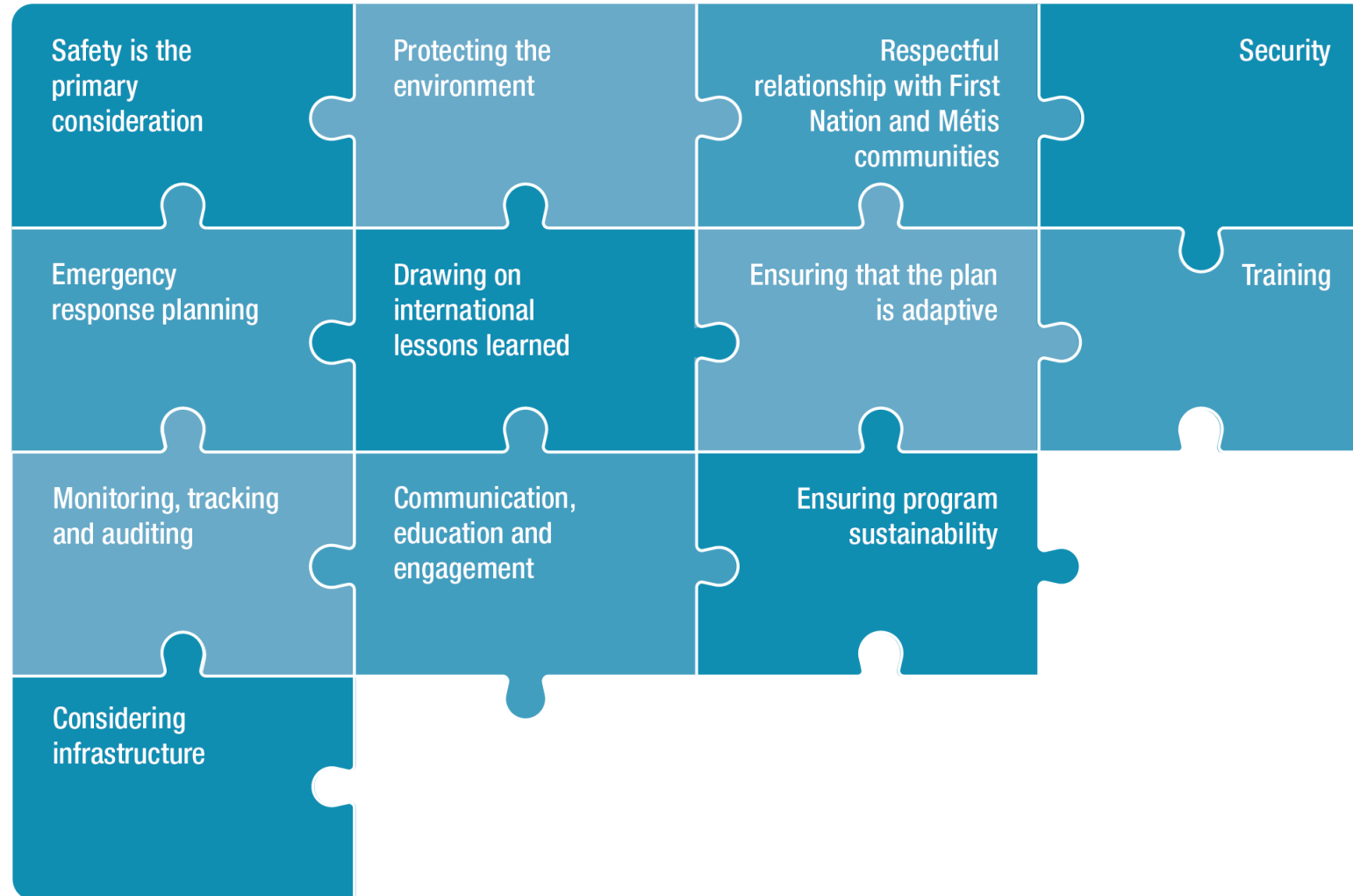
- Since 2015 we have heard from thousands of individuals and groups on the subject
  - Over 1,000 meetings
  - Engage with roughly 5,000 people every year



# Transportation Planning Framework



# Public-identified priorities



# Proposed approach to implementing framework

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

