



**nwmo**

NUCLEAR WASTE  
MANAGEMENT  
ORGANIZATION

SOCIÉTÉ DE GESTION  
DES DÉCHETS  
NUCLÉAIRES



# International Co-operation and Experience

Presentation to Huron-Kinloss Community Advisory Committee  
November 2014

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Director, Environmental Assessment

# Long-term management of used nuclear fuel

Working together on a shared global priority



# Internationally Recognized Approach

## UN International Atomic Energy Agency:

- Geological repositories recognised as safe permanent solution.
- Geological repositories provide:
  - Isolation of radioactive materials deep underground
  - Long-term stability of containment of waste.



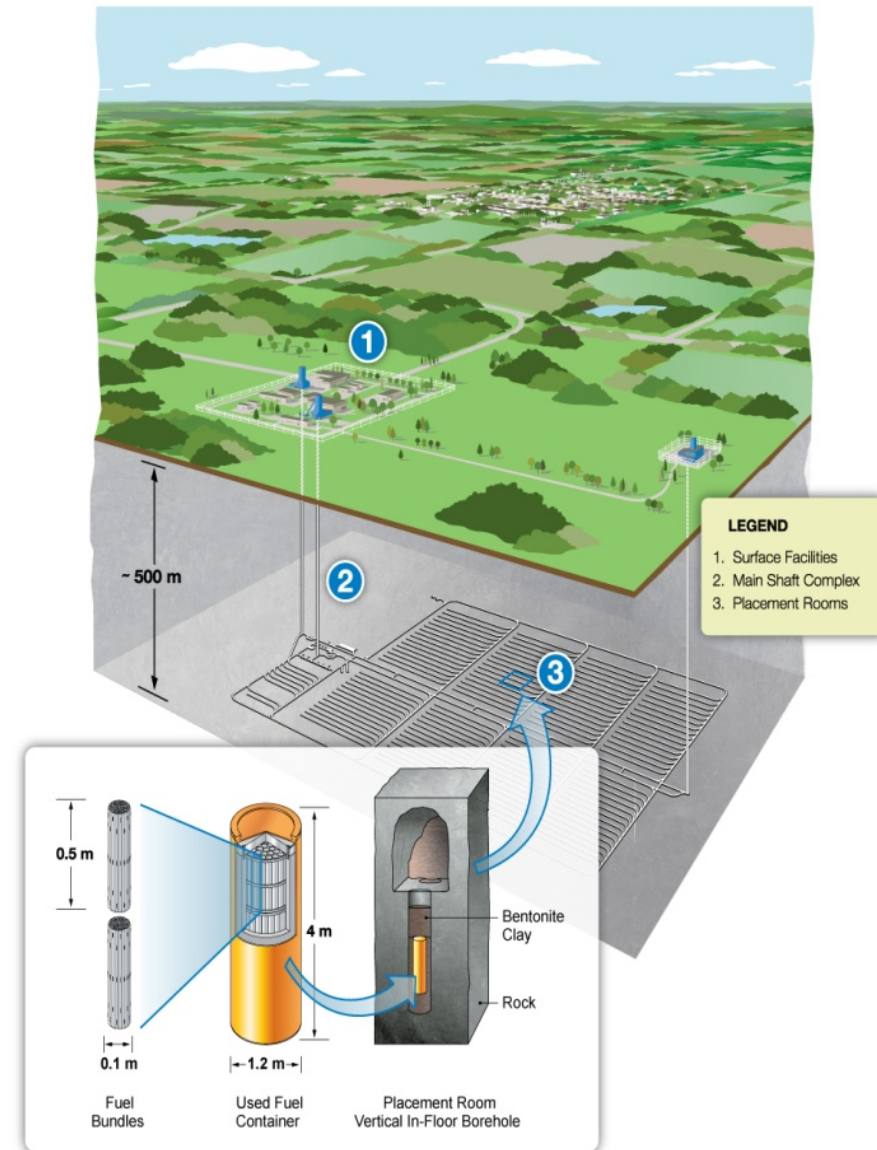
# Internationally Recognized Approach

## Nuclear Energy Agency of OECD:

- Recognizes strong international consensus that placement of used nuclear fuel in a deep geological repository is appropriate route for long-term management

## European Union Directive:

- EU Member States have to include planning and implementation of repository options in national policies



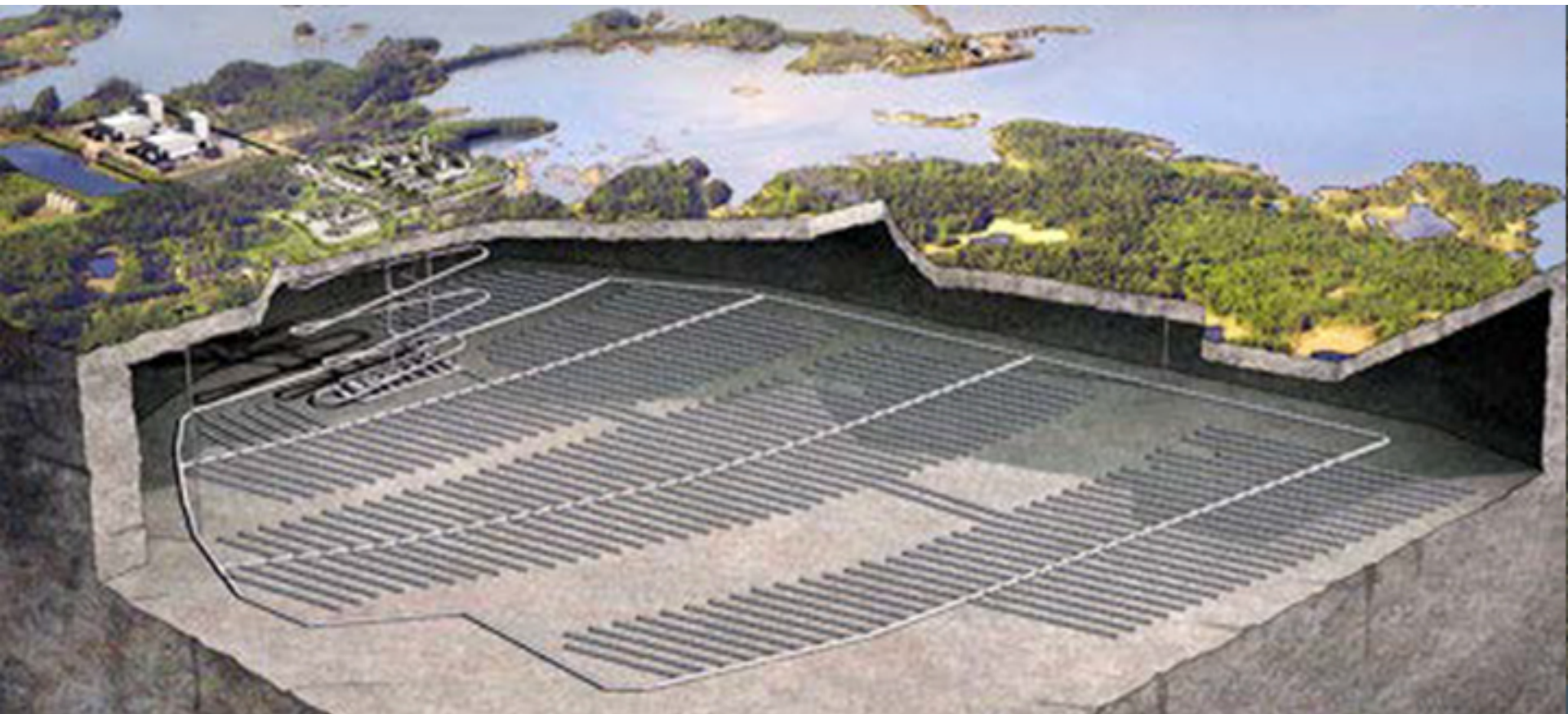


# International Repository Development

Country	Waste Form	Repository Target In-Service Date
<b>Finland</b>	Used Fuel	2022: Willing host community – Olkiluoto
<b>Sweden</b>	Used Fuel	2025+: Willing host community – Forsmark
<b>France</b>	Reprocessed HLW & Used Fuel	2025: Region for repository identified - Bure
<b>United Kingdom</b>	Reprocessed HLW & Used Fuel	2075: Siting underway; (LL-ILW ~ 2040)
<b>Canada</b>	Used Fuel	2035: Earliest possible; siting underway
<b>Switzerland</b>	Used Fuel & Reprocessed HLW	2050: Six potential siting regions identified
<b>China</b>	HLW/fuel (tbd)	2050
<b>Japan</b>	HLW/used fuel	To be decided

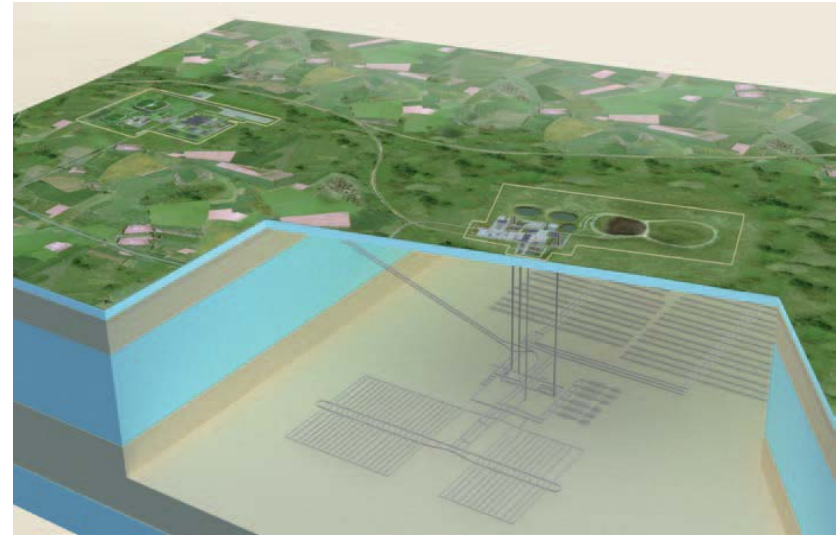
# National projects in progress

## Repository design in Sweden

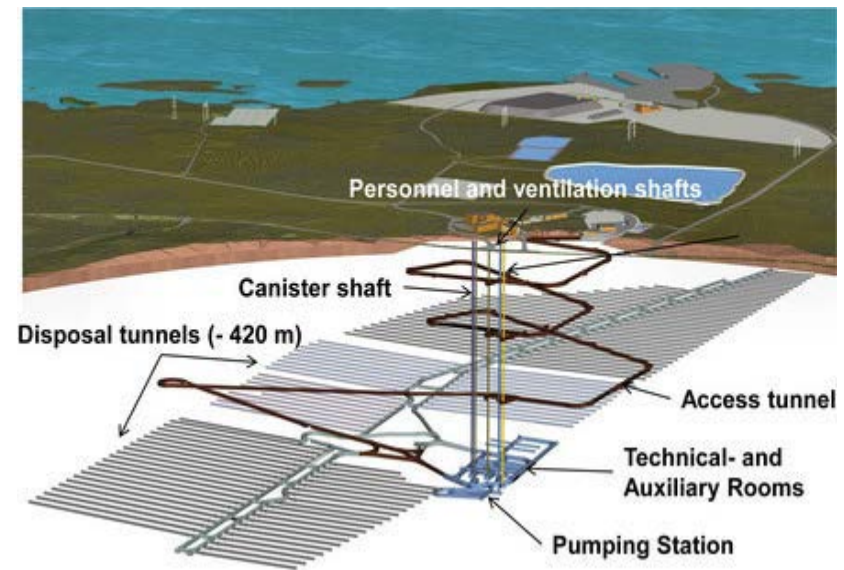


# National projects in progress

## Repository design in France



## Repository design in Finland



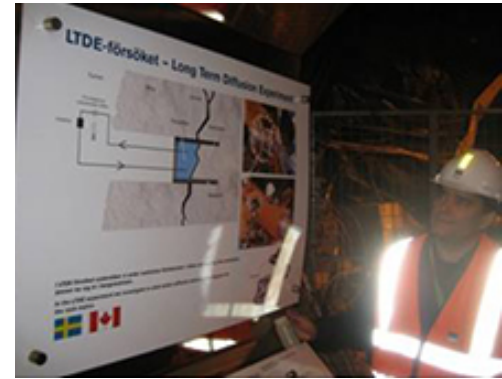
# NWMO's International Co-operation

- **NWMO signed co-operation agreements with:**

- Finland
- Sweden
- France
- United Kingdom
- Switzerland
- South Korea

- **NWMO is active in international organizations:**

- Nuclear Energy Agency (NEA) of OECD
- International Atomic Energy Agency (IAEA)



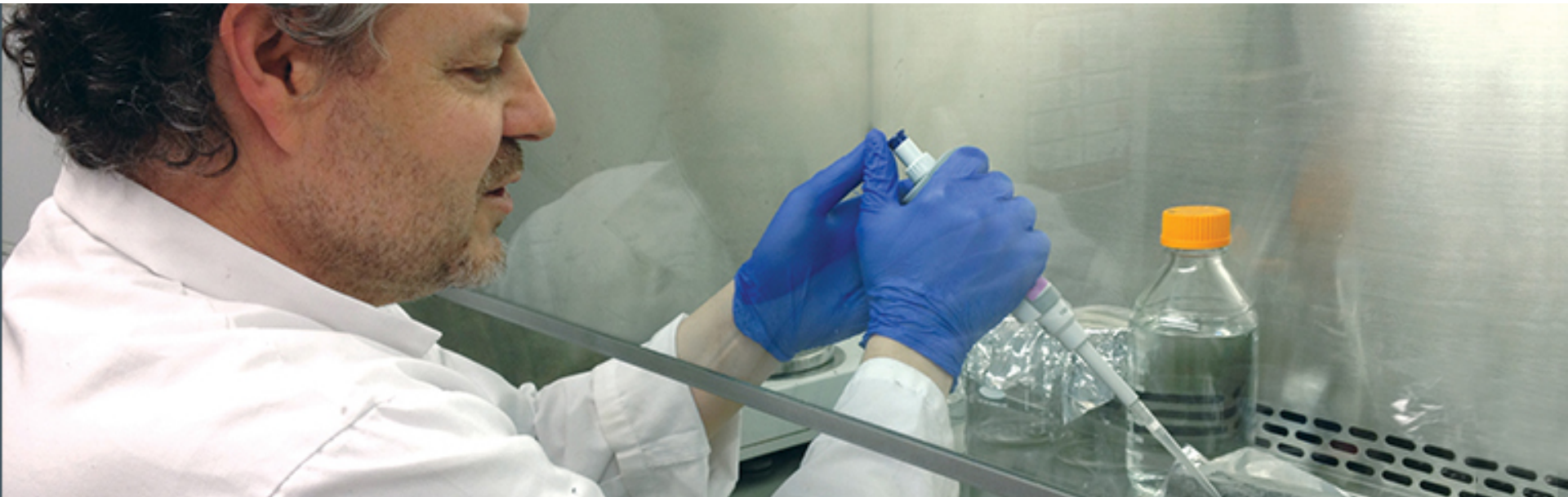




# NWMO's International Co-operation

- **Partnerships:**

- Let us share in research of mutual interest
- Allow us to collaborate in technical development and demonstration
- Encourage us to share learning and experiences
- Ensure NWMO stays abreast of best international practice





# Äspö Hard Rock Laboratory - Sweden



# Mont Terri Project, Switzerland

**Total of 15 International Partner Organizations**



# Greenland Analogue Project



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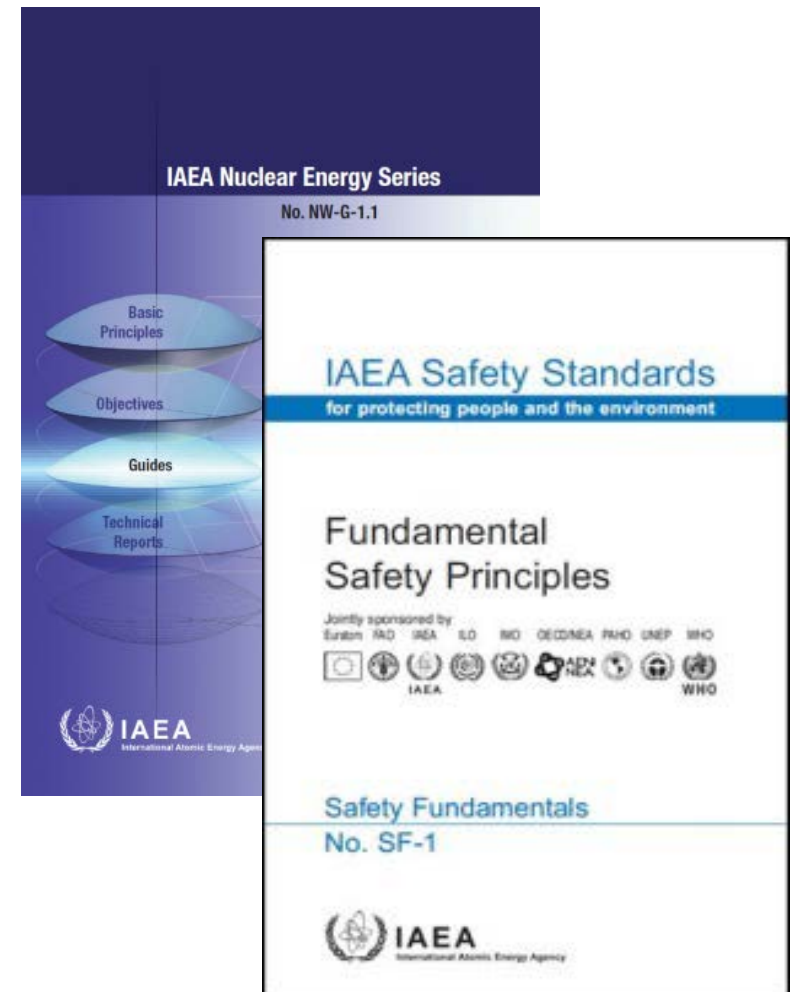
# U.N. IAEA Guidance and Oversight

## International Atomic Energy Agency:

- Issues standards and guidance documents

## Joint Convention on the Safety of Spent Fuel Management

- Countries report against international treaty
- International peer reviews



# Our international exchanges continue...

- Technical programs and demonstration
- Site selection
- Learning from Indigenous Knowledge
- Partnerships and community involvement

