



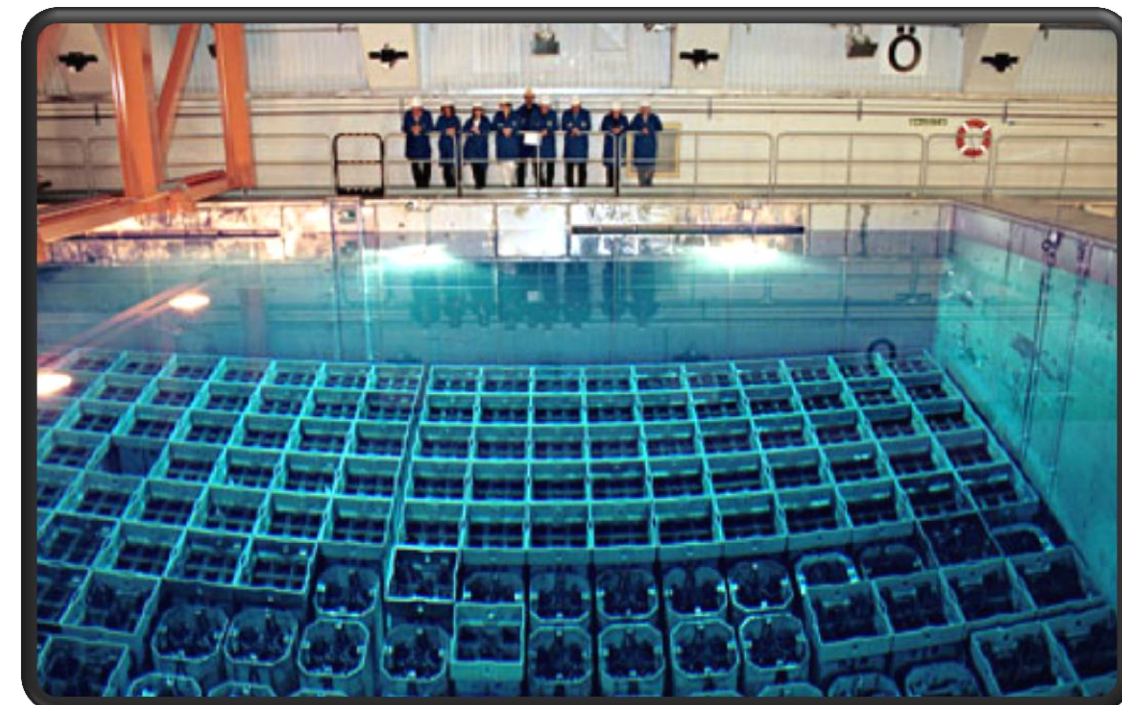
**Radioactive Waste
Management**

Claes Thegerström

Independent Non-Executive Director

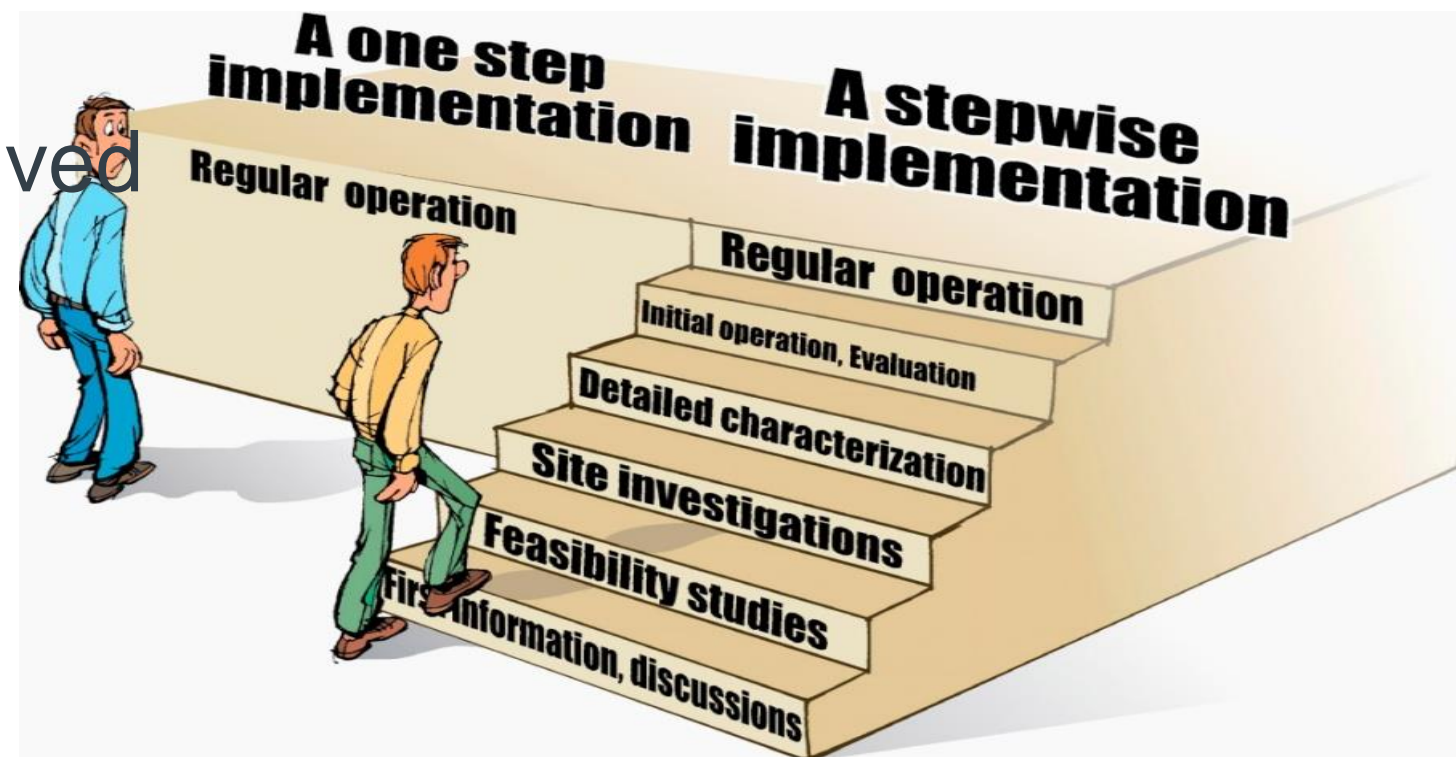
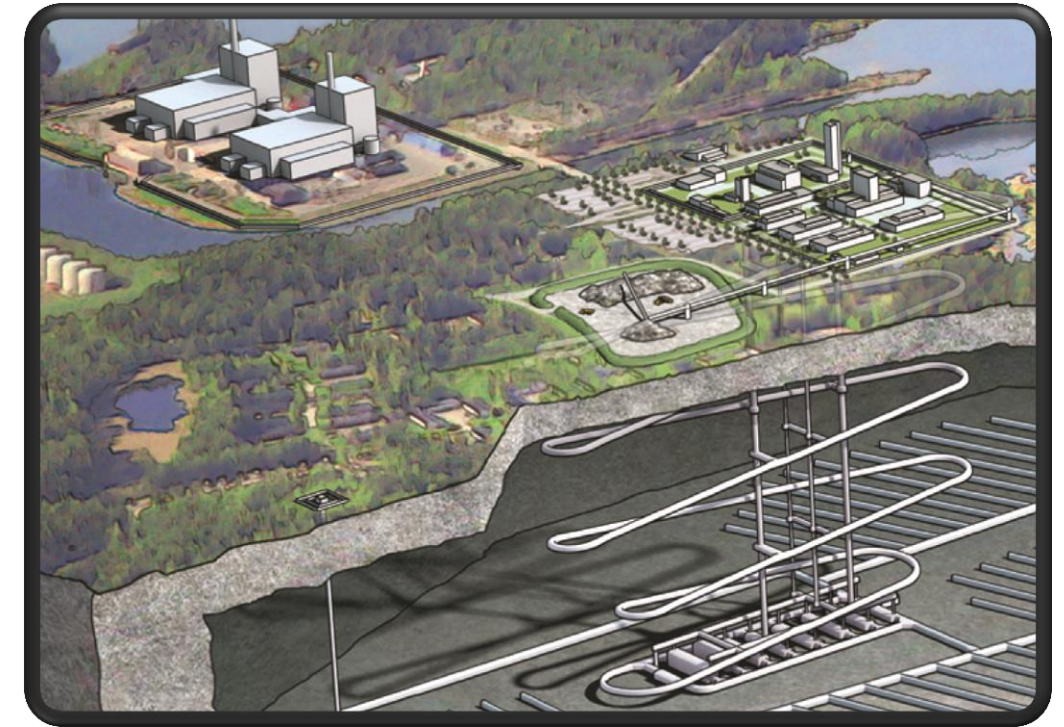
Common challenges

- The radioactive waste exists and it is dangerous
- Its management has ethical, scientific, social and political aspects
- Safe final disposal is a multigenerational project



Internationally shared principles

- Deep geological disposal
- Necessity of social dialogue
- Step-wise decision processes
- Host community must be actively involved and should get national recognition



USA

- Yucca Mountain, Nevada.
1987 – 2009, 15 Billion \$
- 2010 Obama Blue Ribbon Commission.
- Responsibility with US Dept. of Energy
- ??



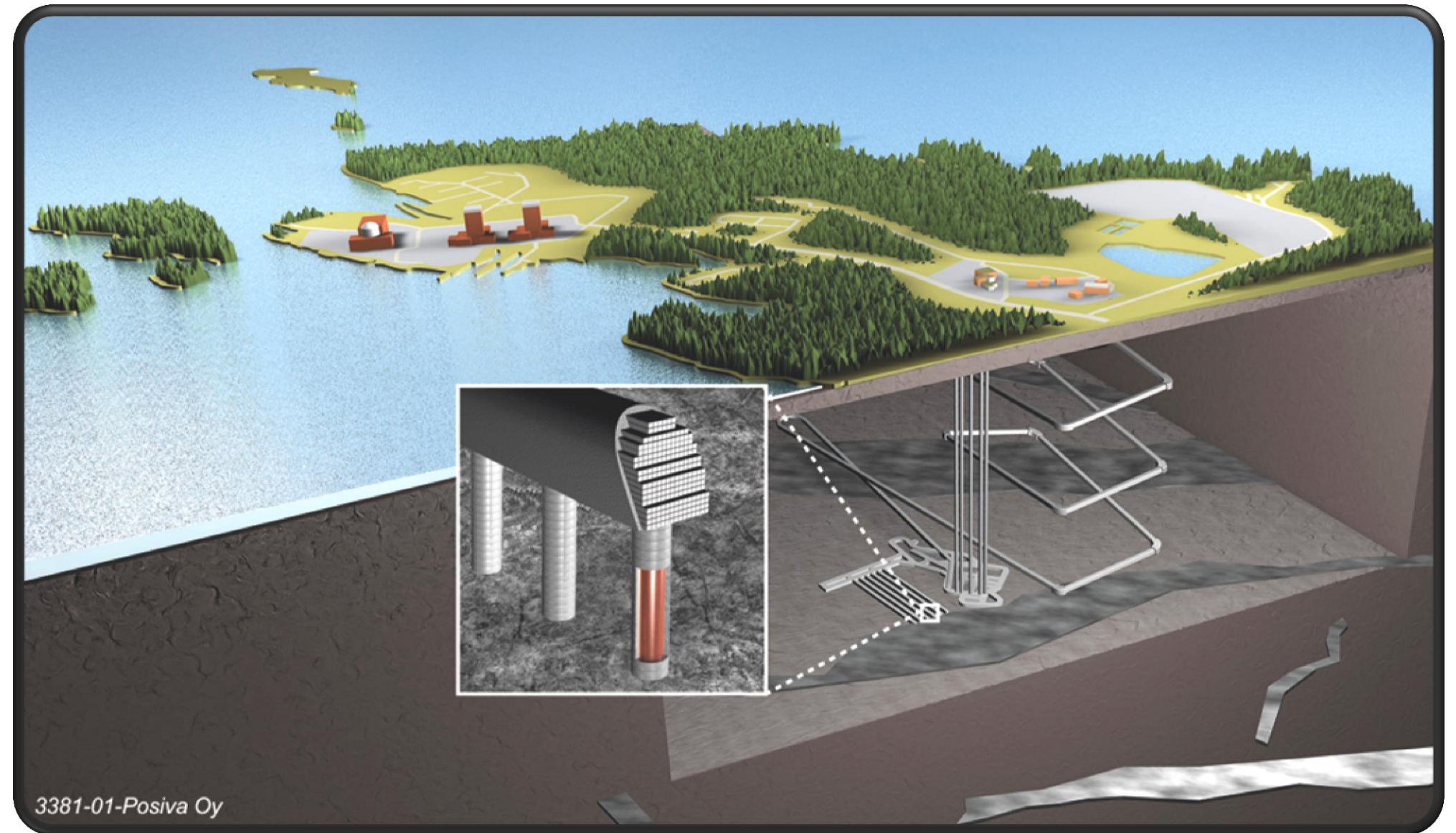
Germany

- Gorleben 1980 – 2000
- Phase out of nuclear
- New siting process
- ??



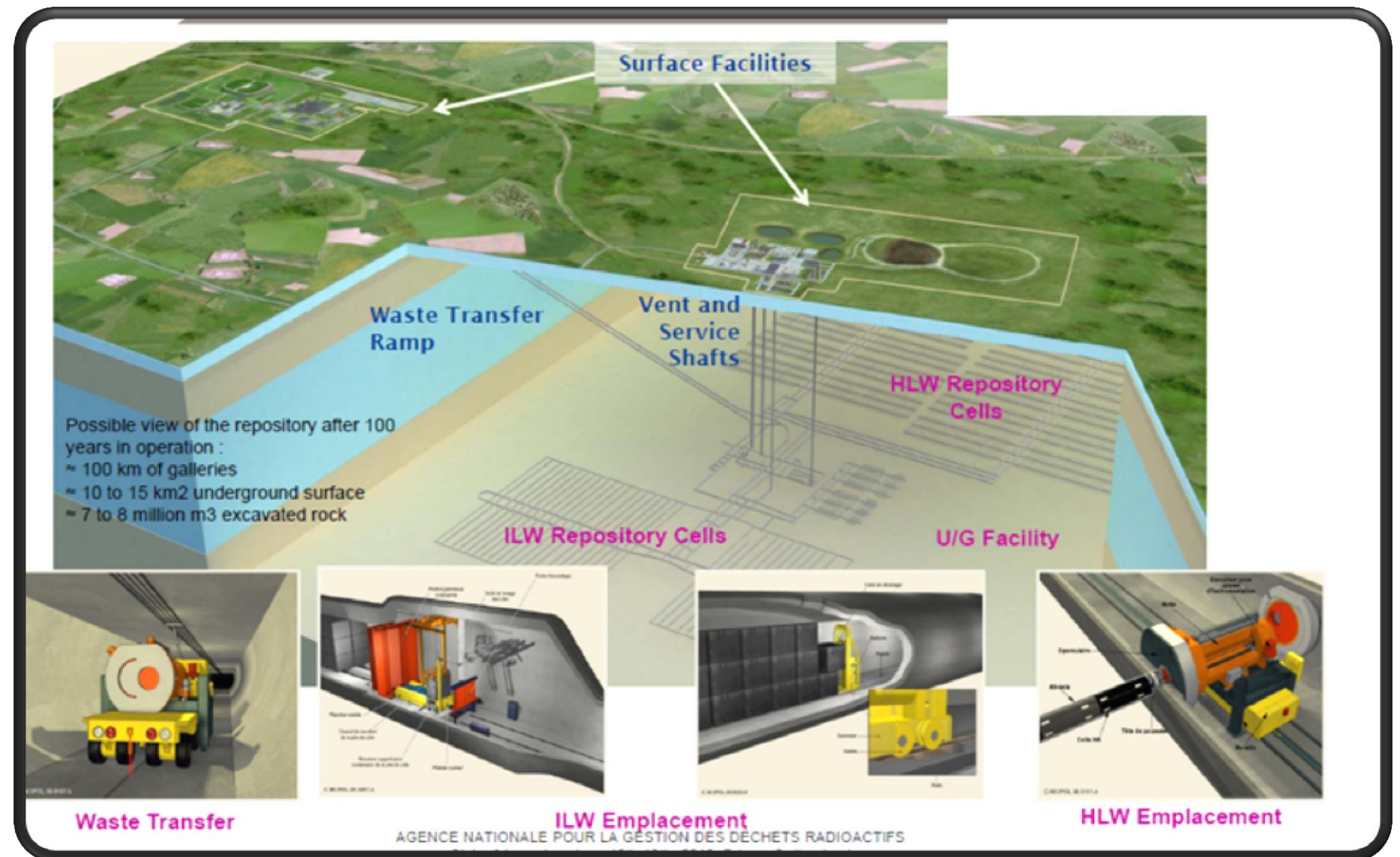
Finland

- Finnish Government has granted Posiva construction licence 2015
- First spent fuel disposal facility project (KBS3)
- Final disposal due to start in 2020s



France

- Site selected near Bure in north east France
- Underground research ongoing
- Licence application planned for 2018
- Initial operating phase 2025



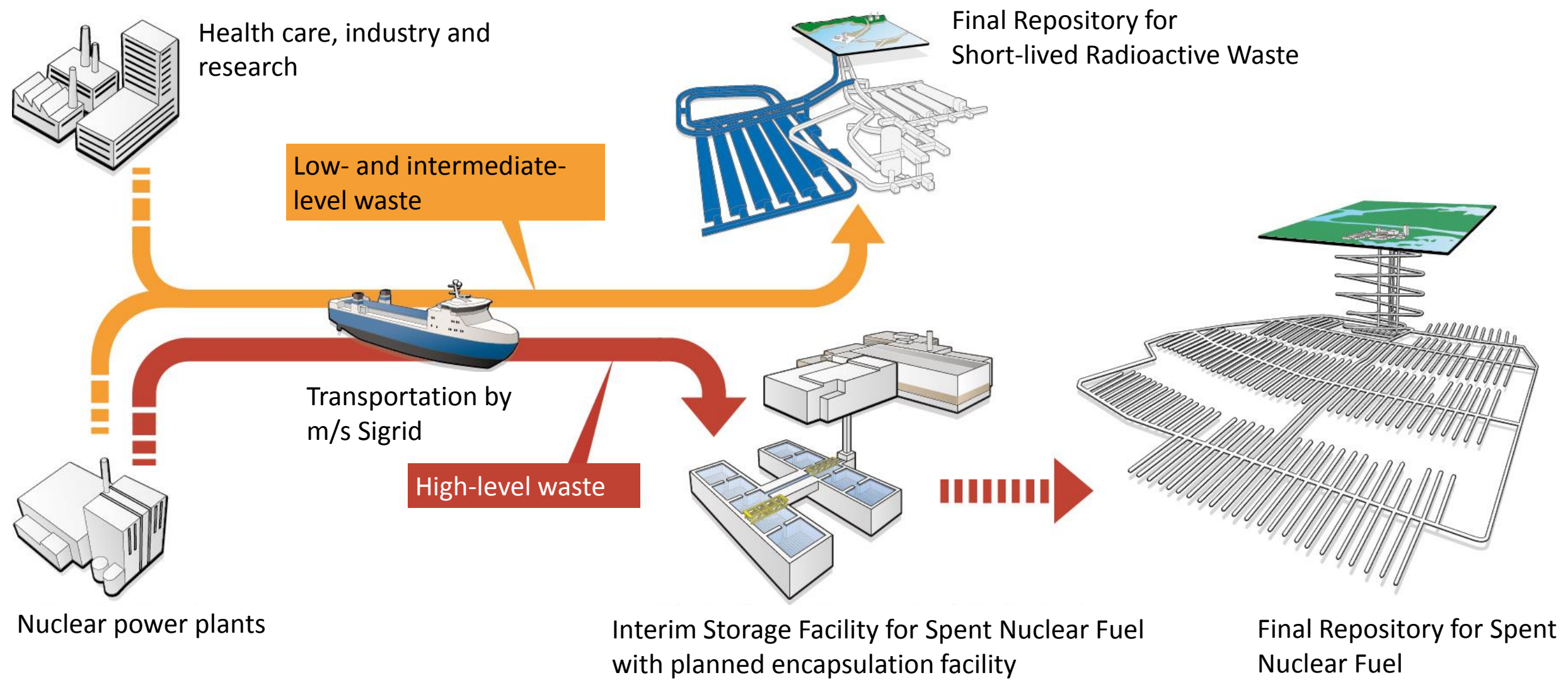
SKB's mission

- Regardless of the future of nuclear power, nuclear waste exists today from the Swedish nuclear power plants.
- This waste must be taken care of to protect people and the environment.
- This task is so extensive that we regard it as one of Sweden's most important environmental protection projects.



Our operations

The Swedish system



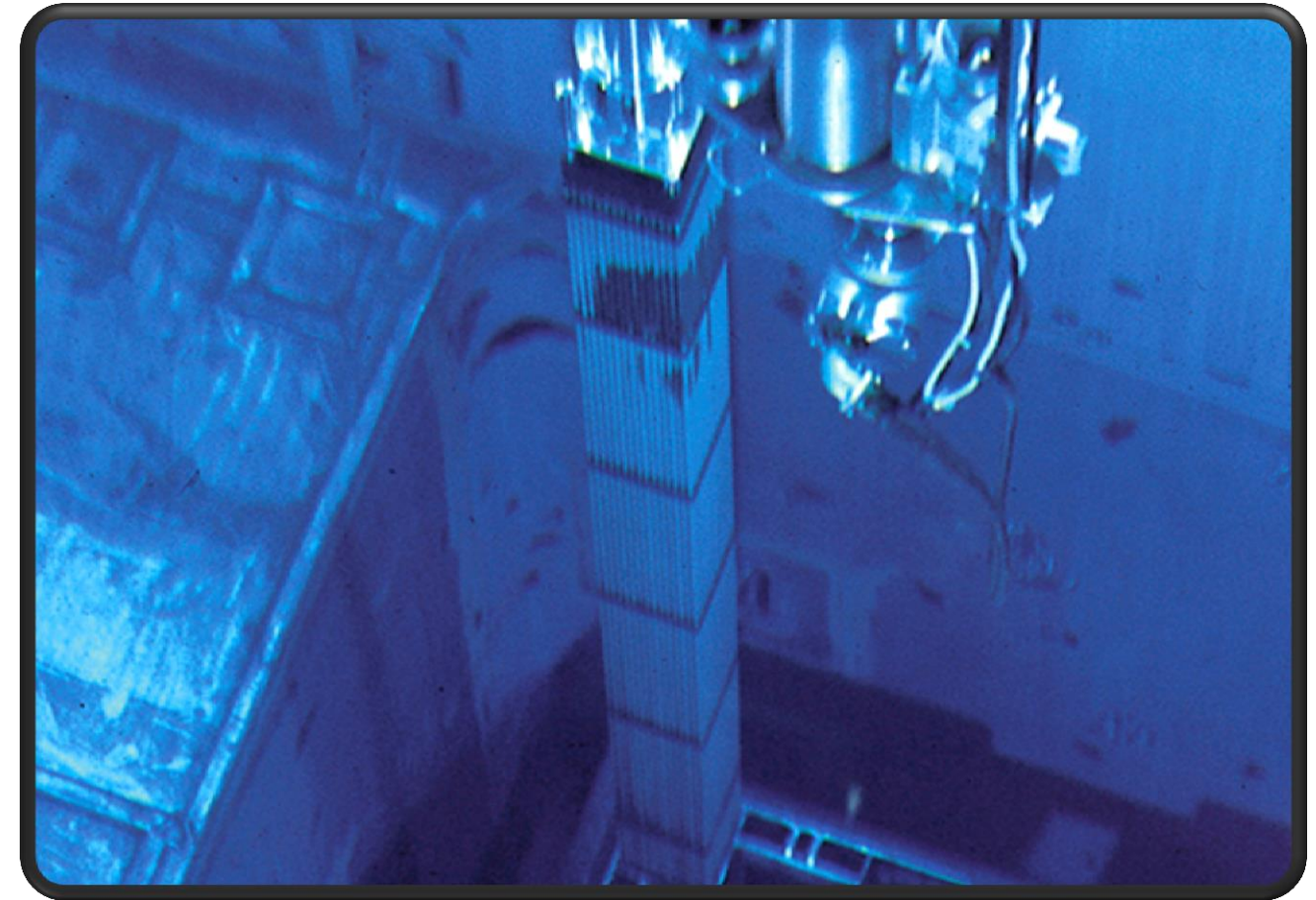
Our operations

Central Interim Storage Facility for Spent Nuclear Fuel, Clab



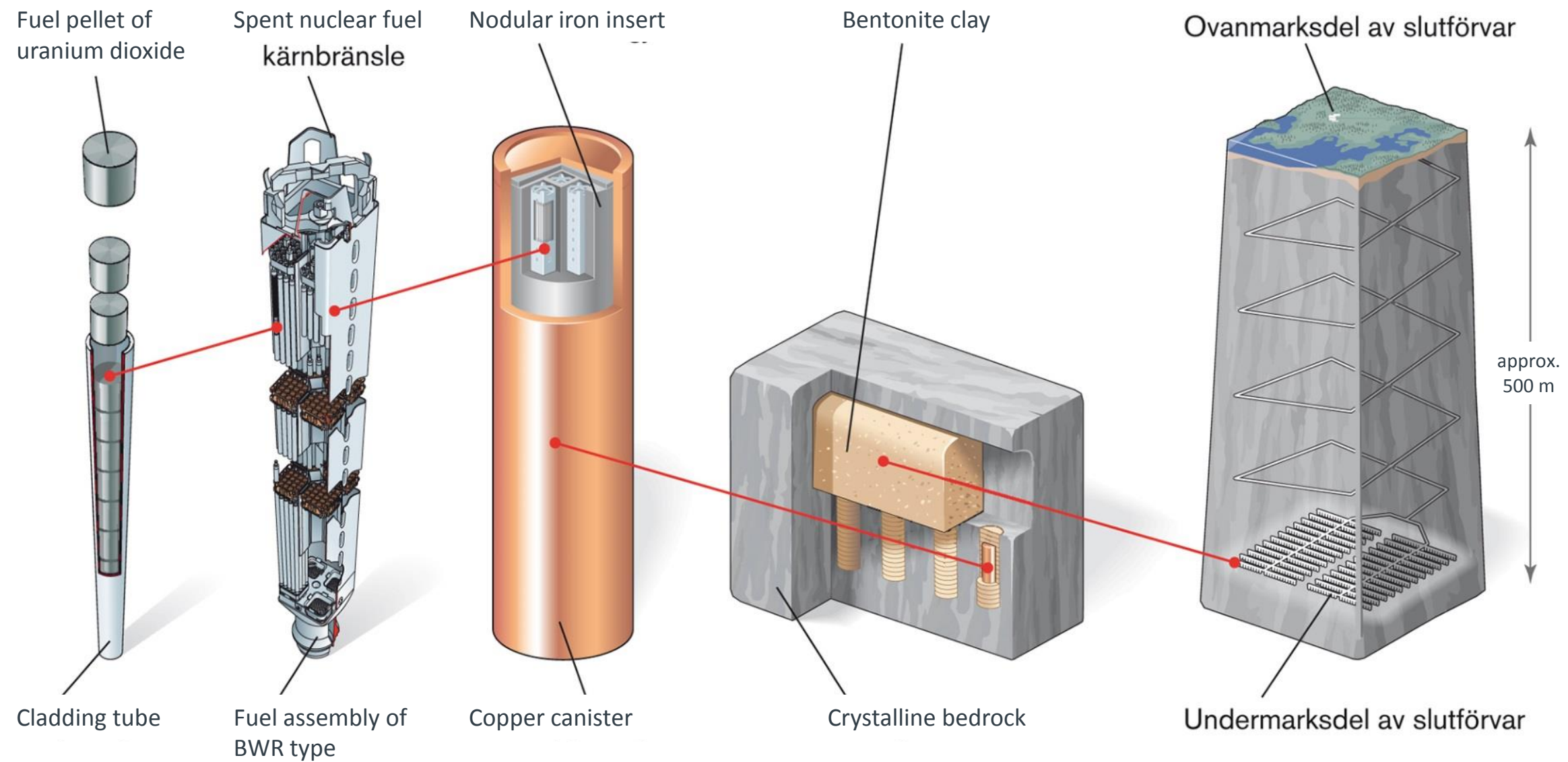
Our operations

Central Interim Storage Facility for Spent Nuclear Fuel, Clab



Future projects

SKB's method



Future projects

Planned facilities

Canister factory and canisters



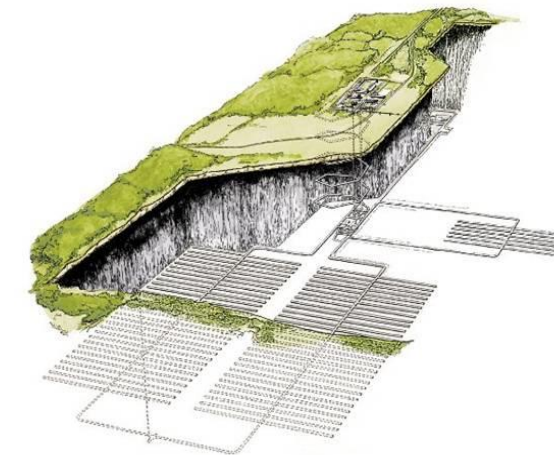
Investment and operation:
SEK 8 billion

Encapsulation plant



Investment and operation:
SEK 5 billion

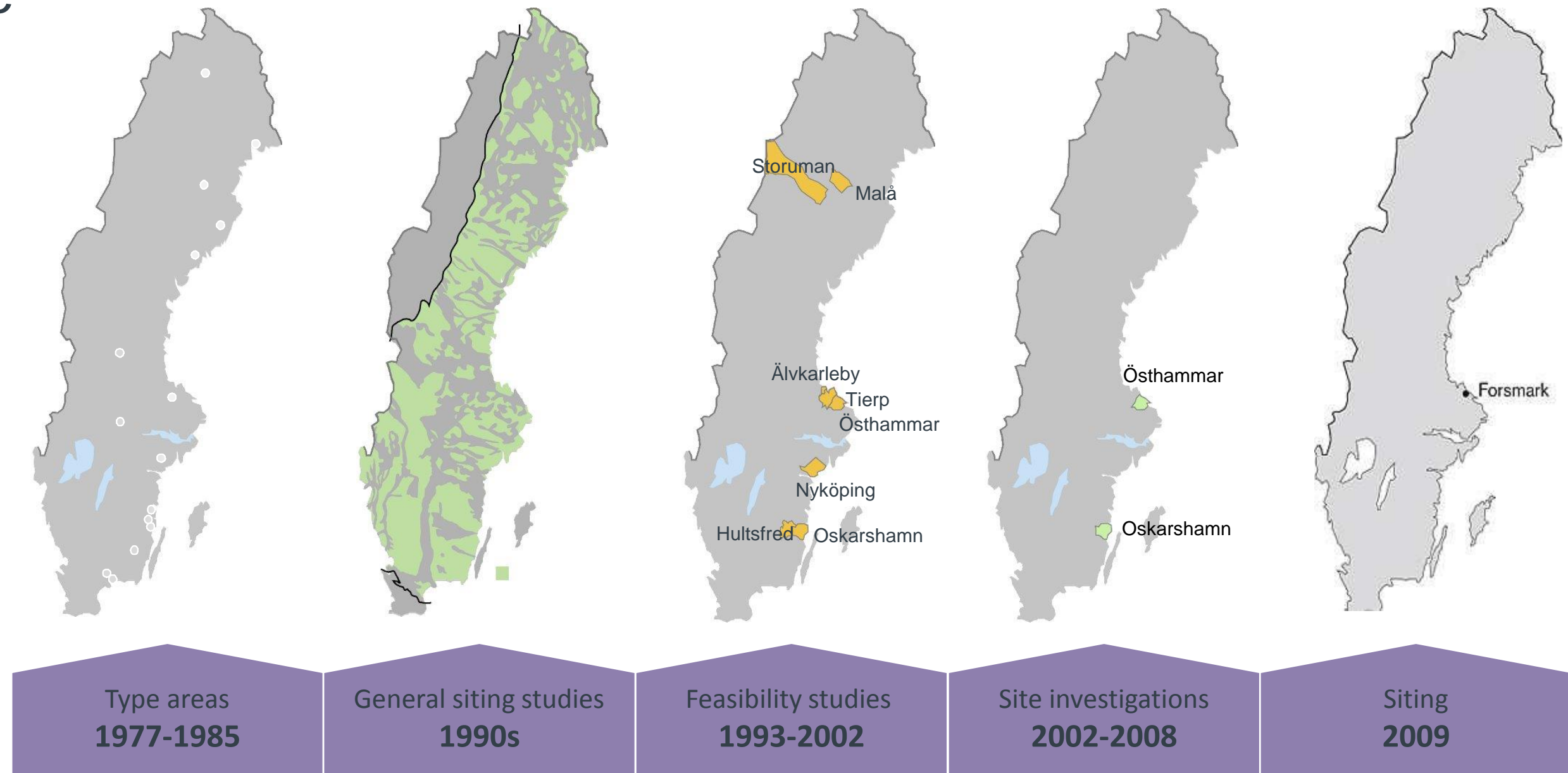
Spent Fuel Repository



Investment and operation:
SEK 24 billion

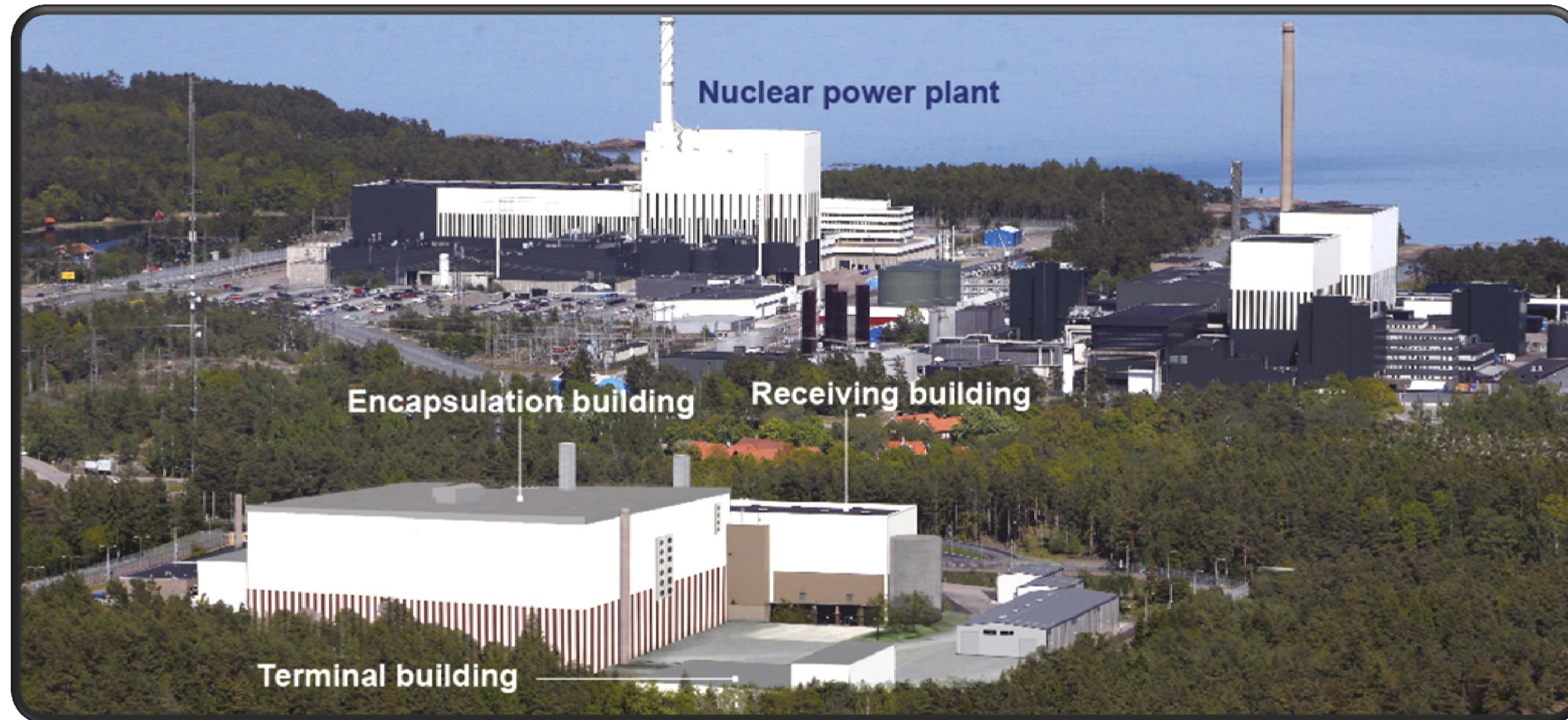
Our mission

Finding a site



Future projects

Encapsulation plant

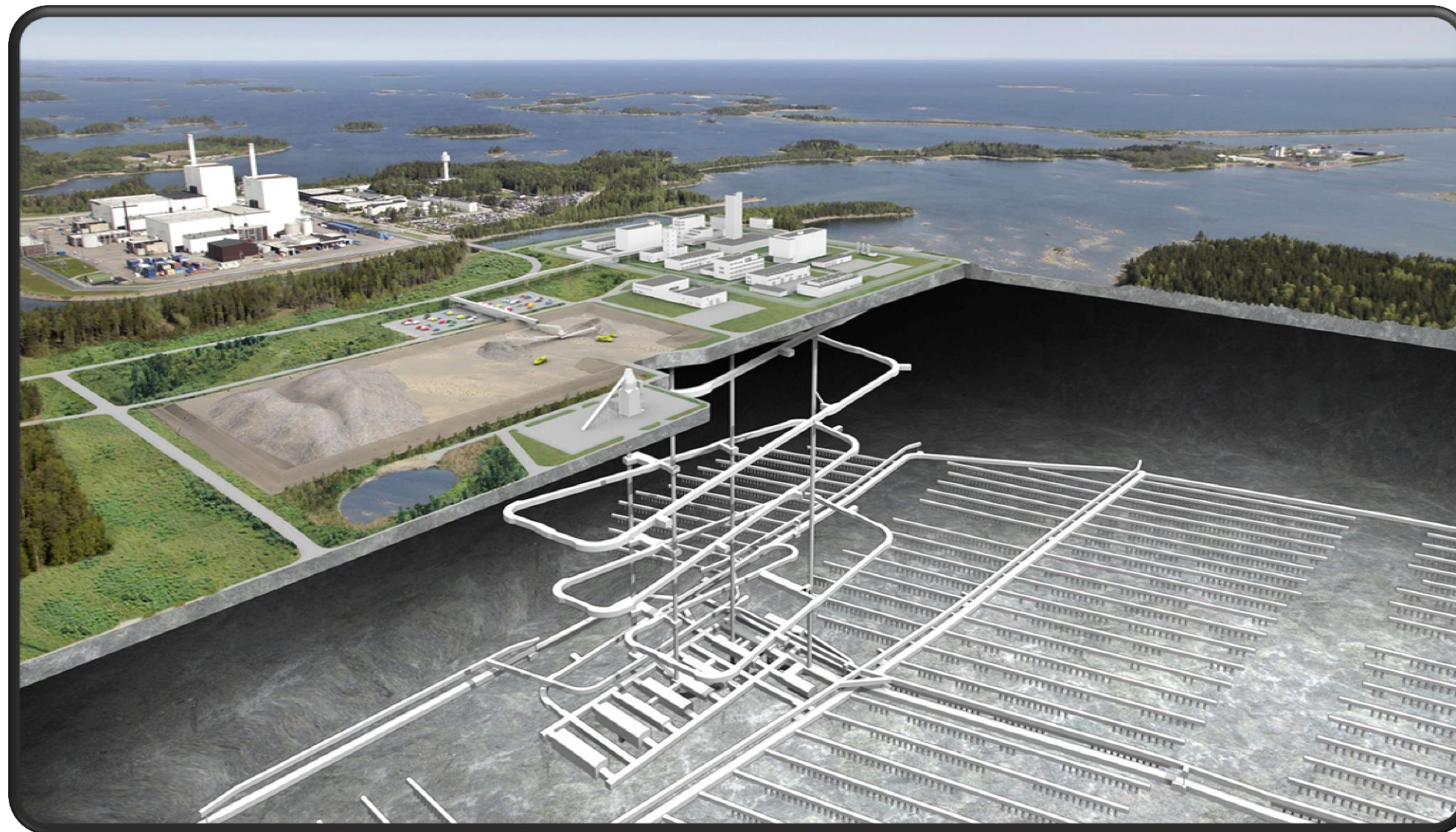


Future projects



Future projects

The Spent Fuel Repository at Forsmark



Dialogue and openness

Facility visits

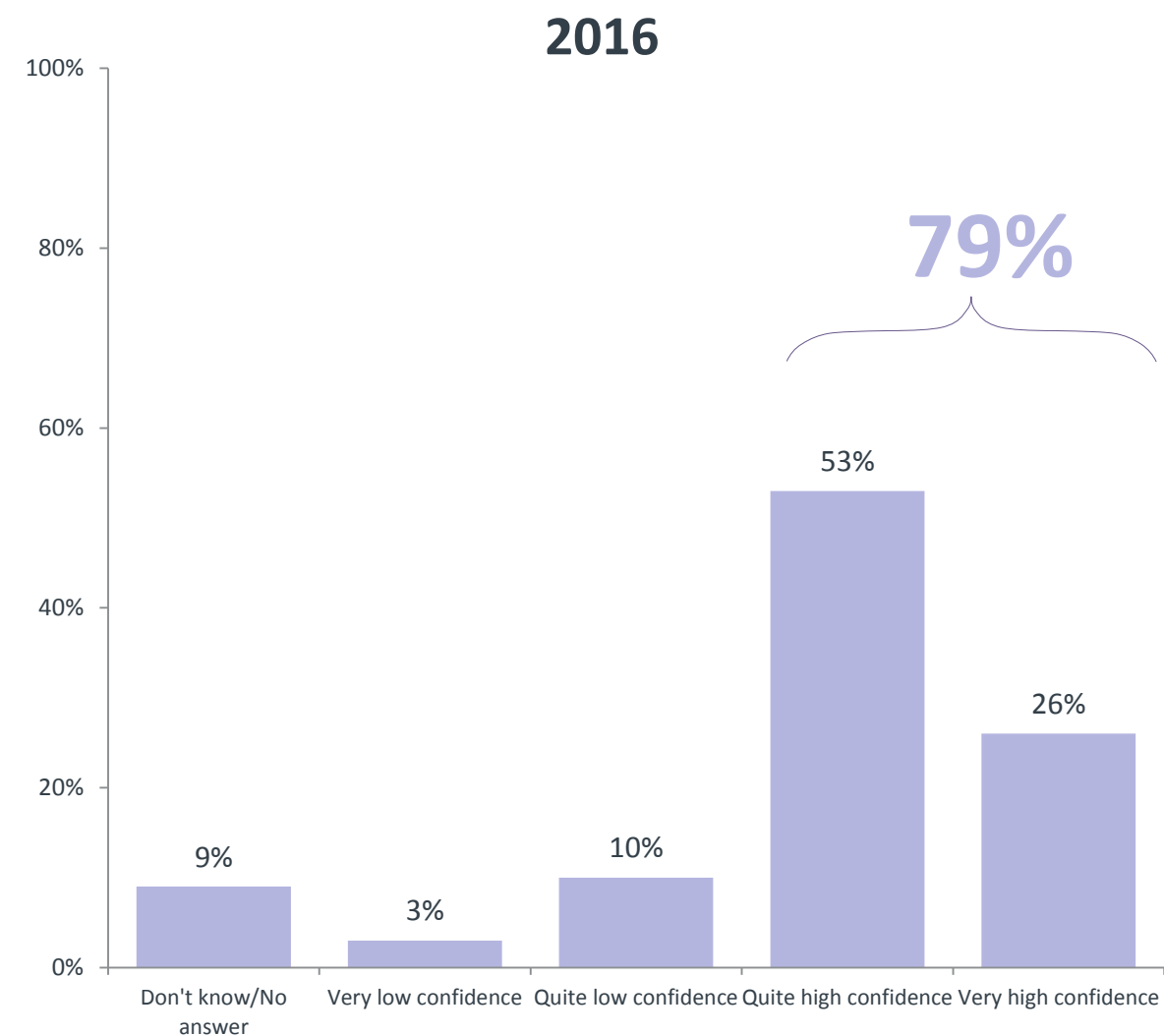
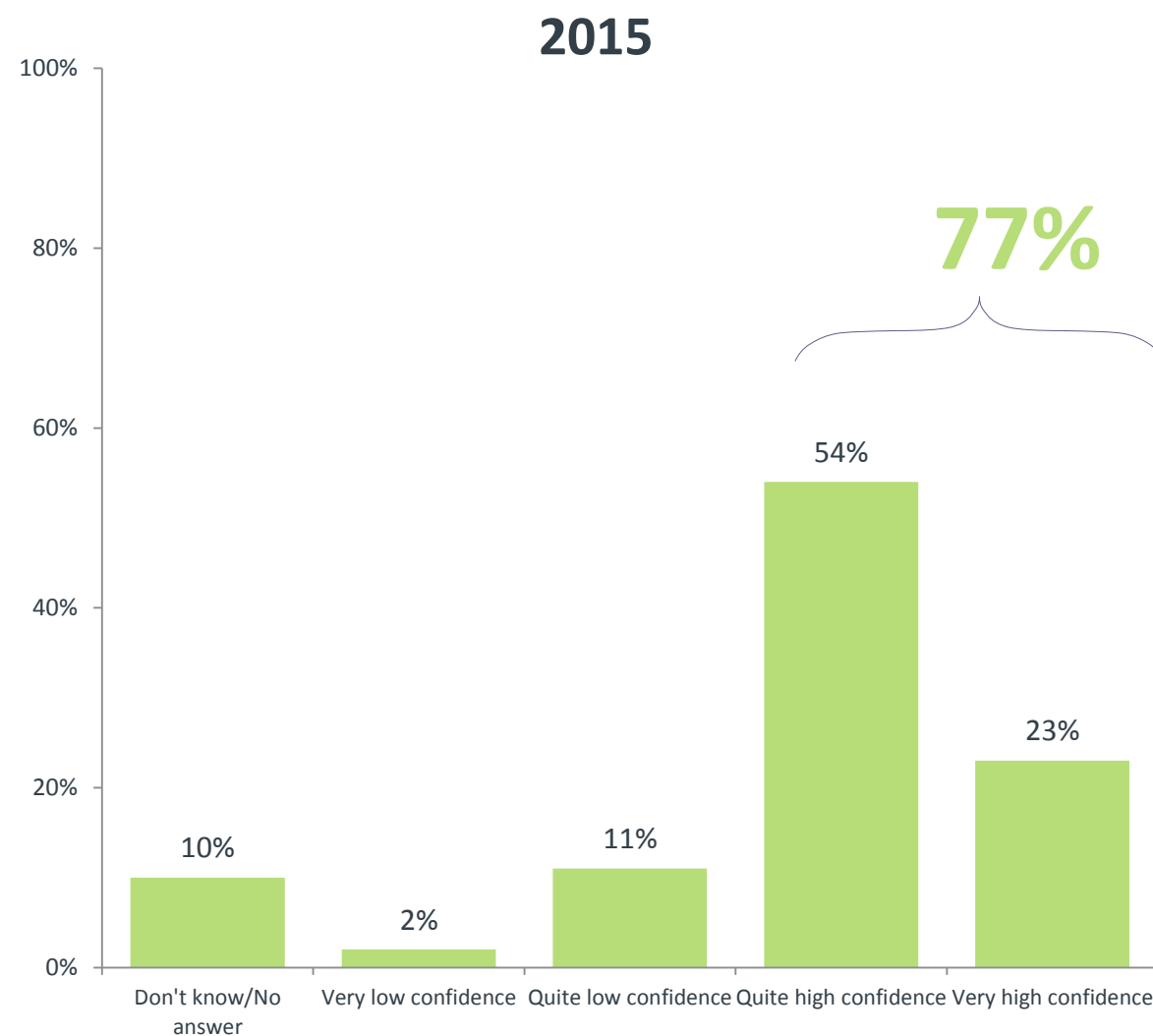


Dialogue and openness



Dialogue and openness

Östhammar: What degree of confidence do you have in the company Svensk Kärnbränslehantering AB, SKB?



Local activities

SKB's work continues – both in Östhammar and in Oskarshamn

Municipality of Oskarshamn

Äspö Hard Rock Laboratory and the
Canister Laboratory

Clab

Encapsulation plant (planned)

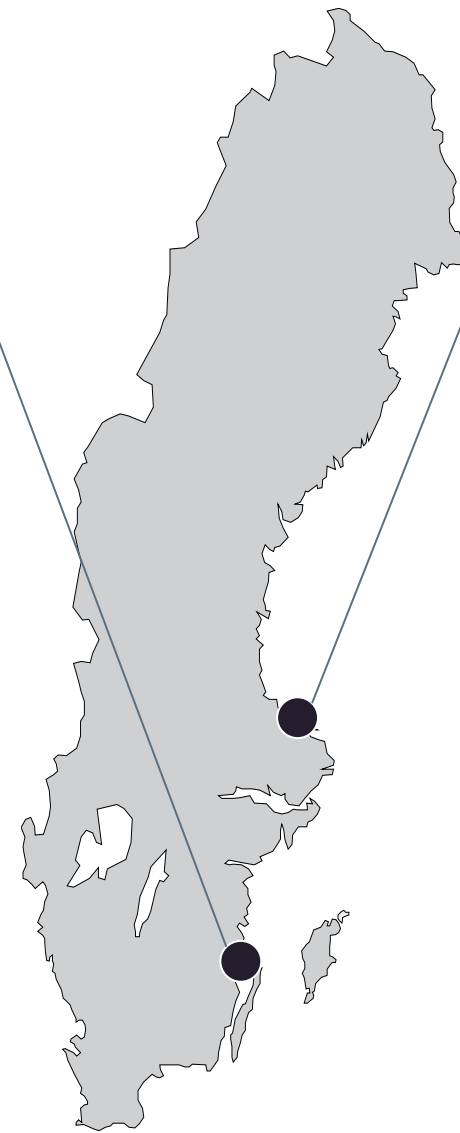
Investment: SEK 2.3 billion
Operation and maintenance SEK 2.8 billion

Added value investments

Added value in the municipality of SEK 1.5 billion
SEK 150 million year 2010-2015
infrastructure investments

Canister factory (planned)

Investment: SEK 200-300 million
Operation and maintenance: SEK 8 billion



Municipality of Östhammar

SFR

Extension SFR (planned)

Investment: SEK 1 billion
Operation and maintenance: SEK 2.3 billion

Spent Fuel Repository (planned)

Investment: SEK 12 billion
Operation and maintenance: SEK 12 billion

Added value investments

The ambition is for added value in the municipality of SEK 500 million.

Local activities

Added value areas

- Education
- Spin-off/support for innovation systems
- Infrastructure
- Visitor's facility
- Labour market expansion
- Special investments in the energy field
- Head office functions
- Further development of SKB's laboratories in Oskarshamn



Local activities

Priorities – SKB Nu AB

- Small and medium-sized companies
- Knowledge-intensive companies
- Women as entrepreneurs
- Businesses with limited requirements for investments in plant
- Entrepreneurs with local roots
- Businesses offering new employment opportunities with a long-term perspective
- Businesses which strengthen SKB's provision of resources in the long term

