

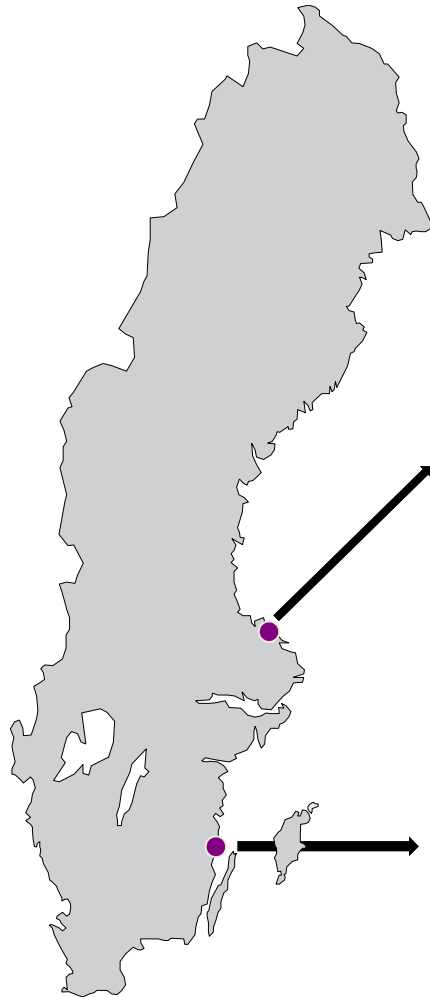


Achievements and Current Challenges for the Swedish Waste Management Program

Christopher Eckerberg
President

Swedish Nuclear Fuel and Waste Management Corporation

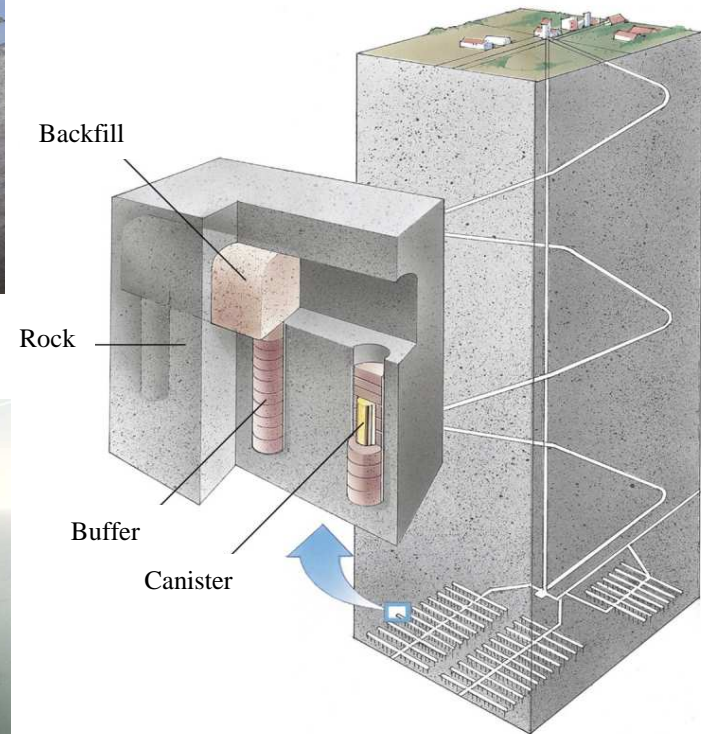
License application submitted March 2011



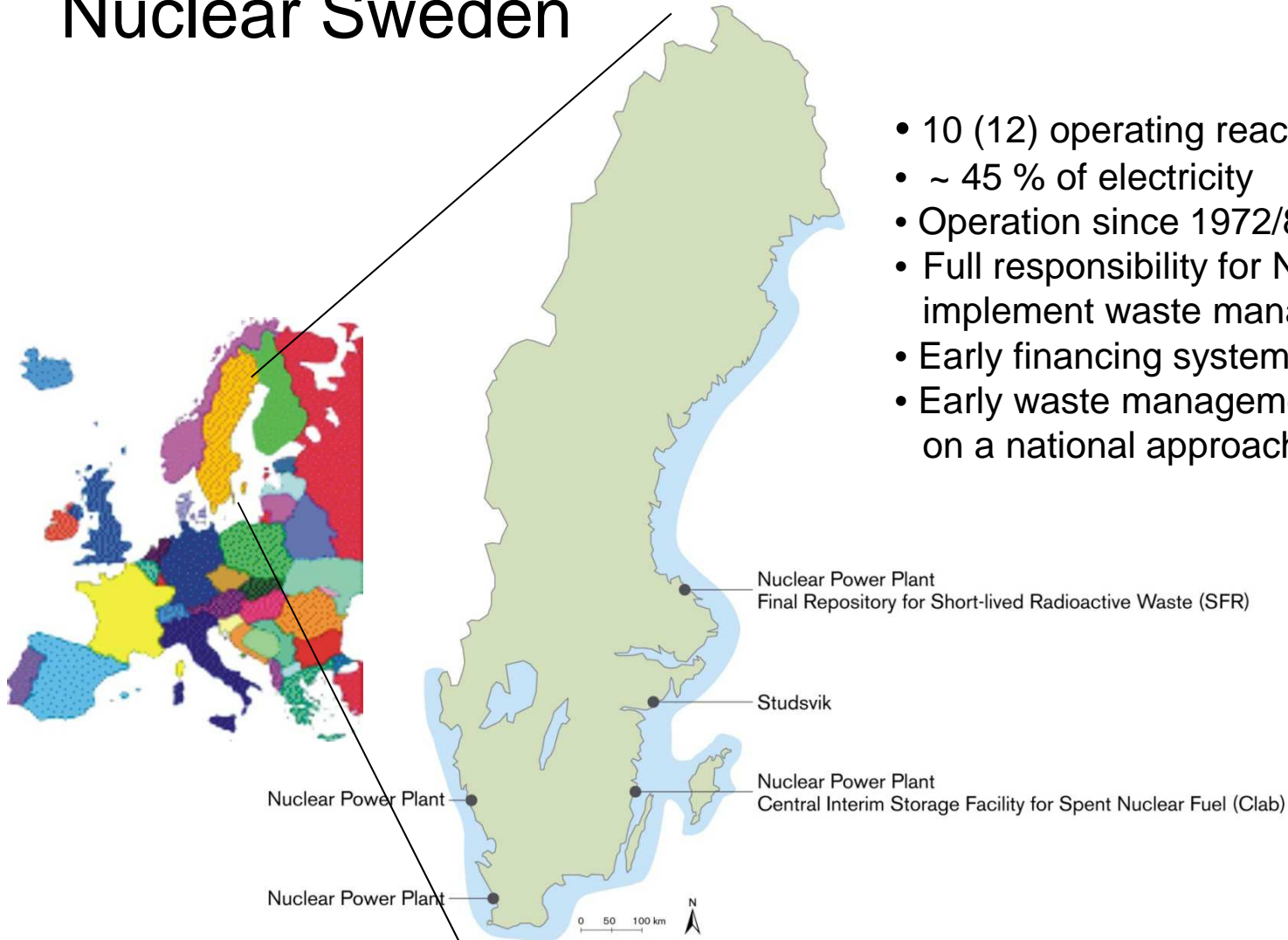
Spent Fuel Repository at Forsmark



Encapsulation plant in Oskarshamn

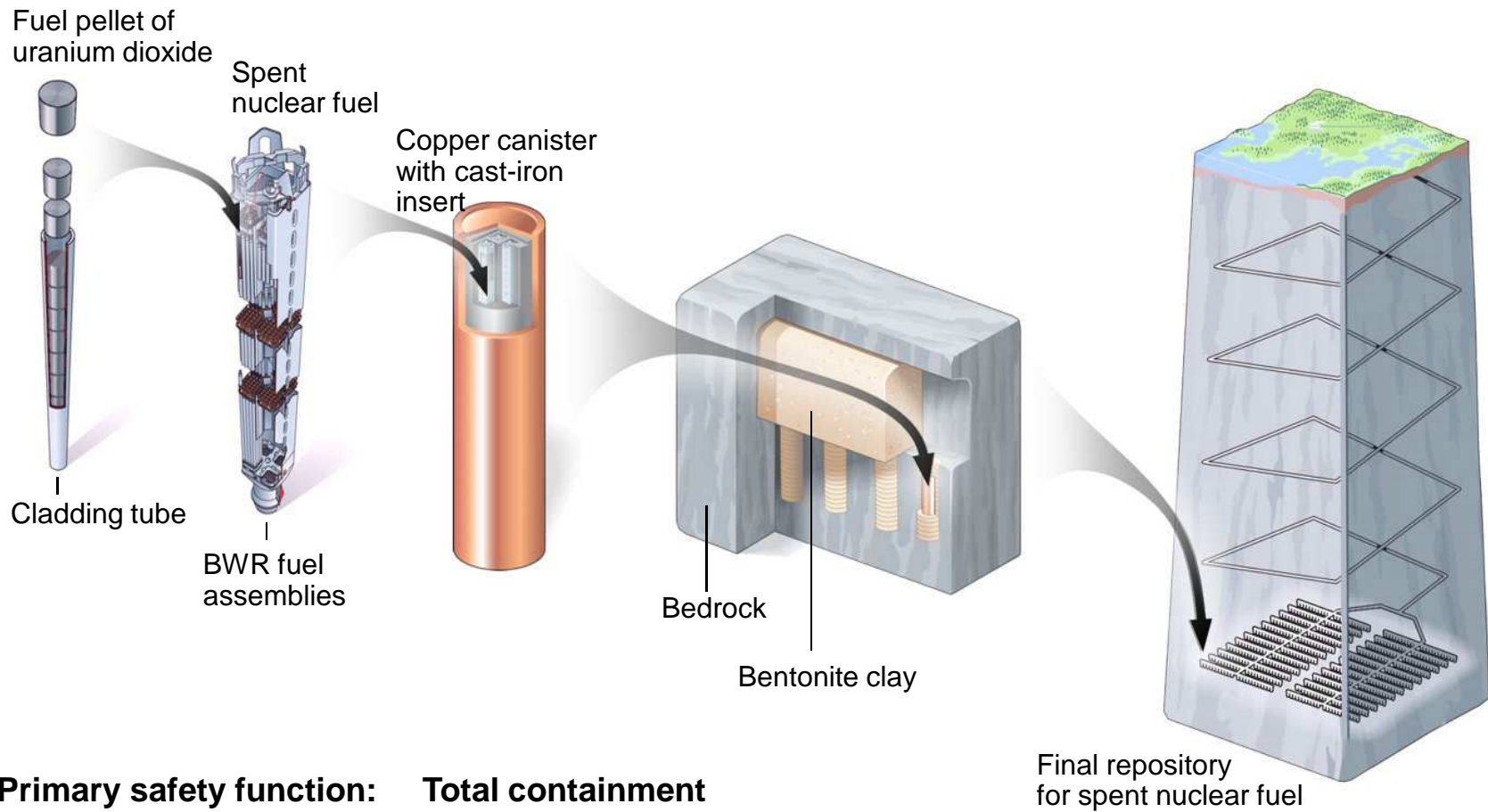


Nuclear Sweden



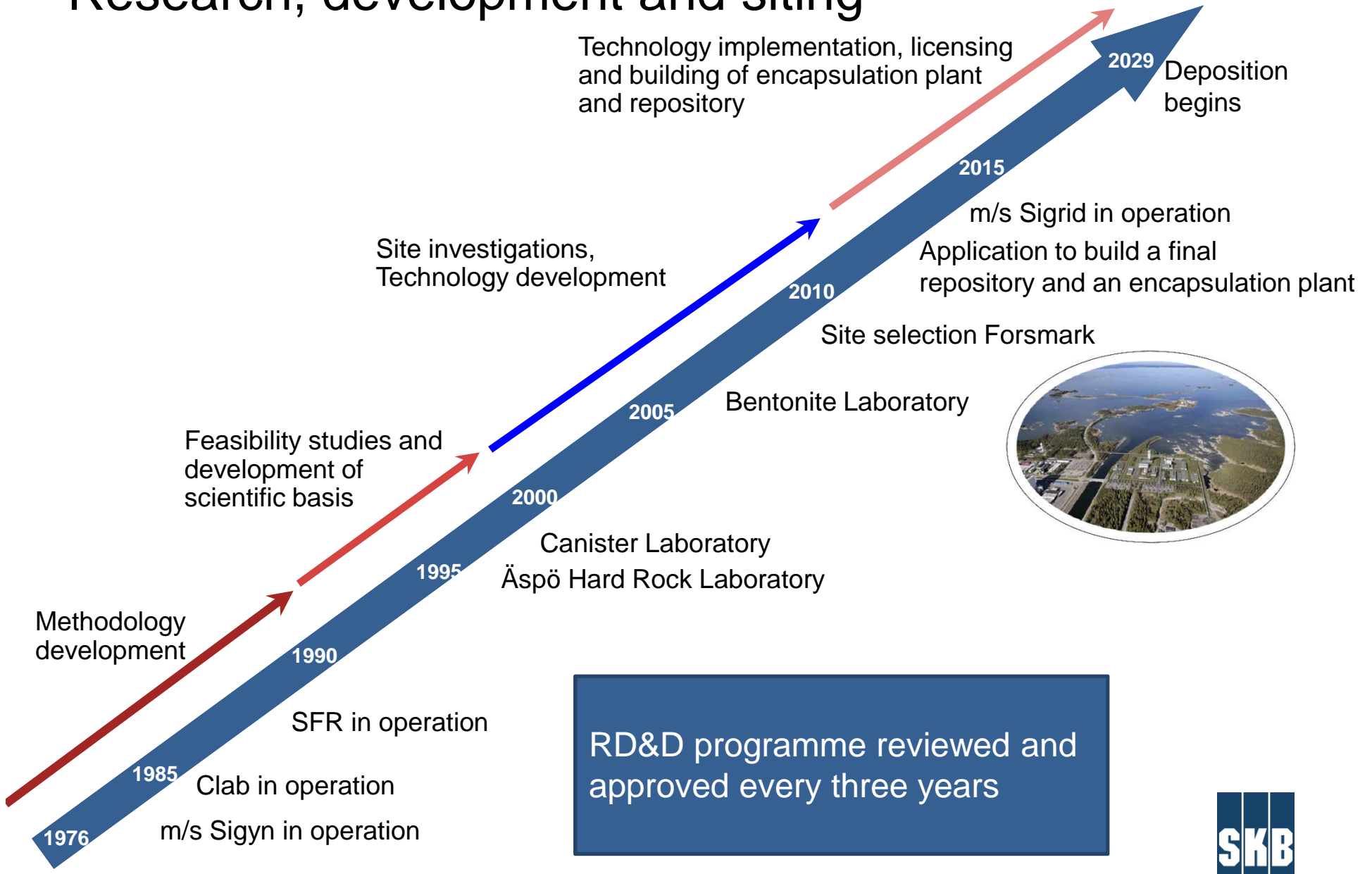
- 10 (12) operating reactor units at 3 sites
- ~ 45 % of electricity
- Operation since 1972/85
- Full responsibility for NPP owners to implement waste management
- Early financing system
- Early waste management system based on a national approach

The KBS-3 method for disposal of spent nuclear fuel



Primary safety function: Total containment
Secondary safety function: Retardation

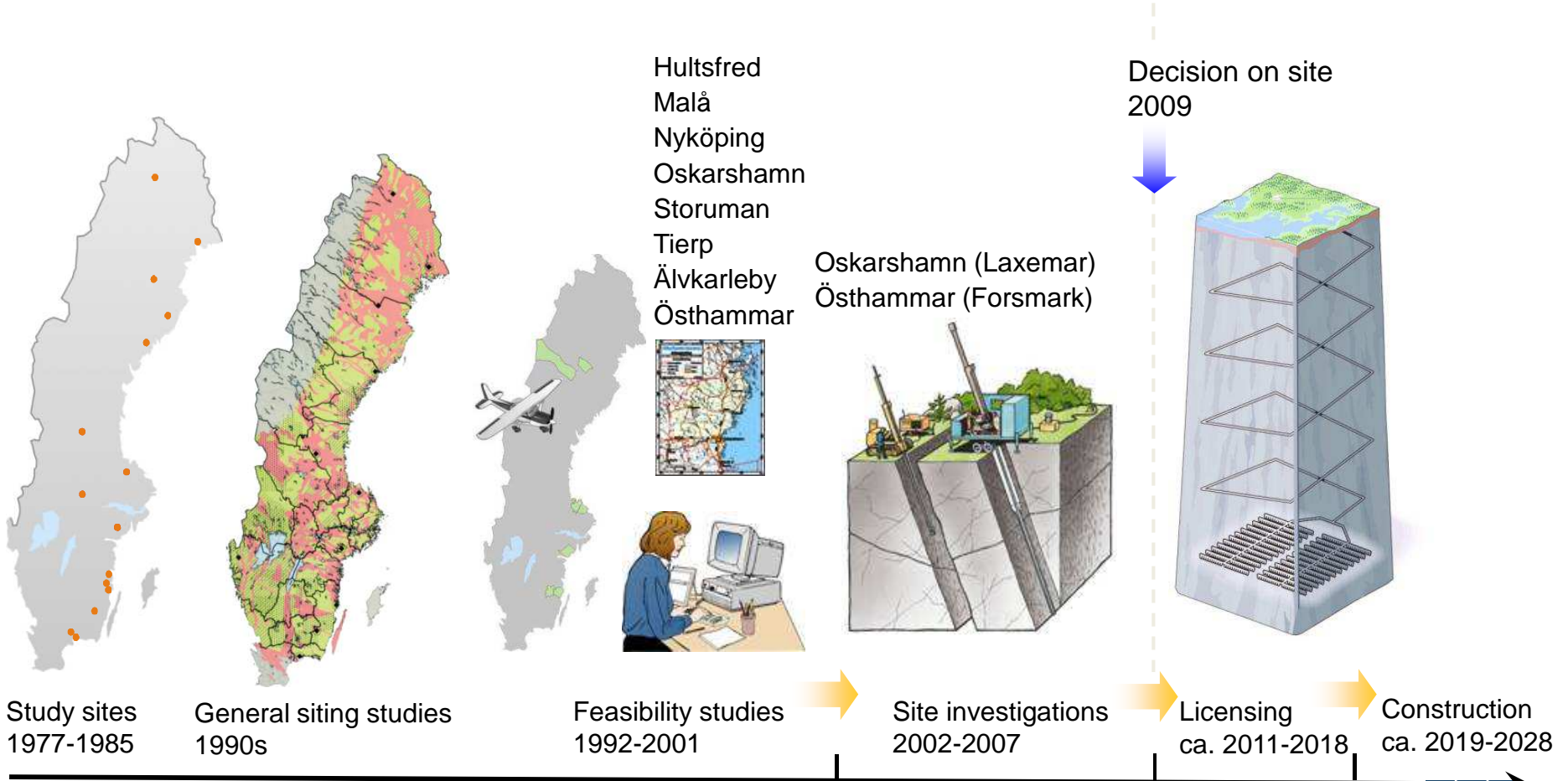
Research, development and siting



Siting of the repository for spent nuclear fuel

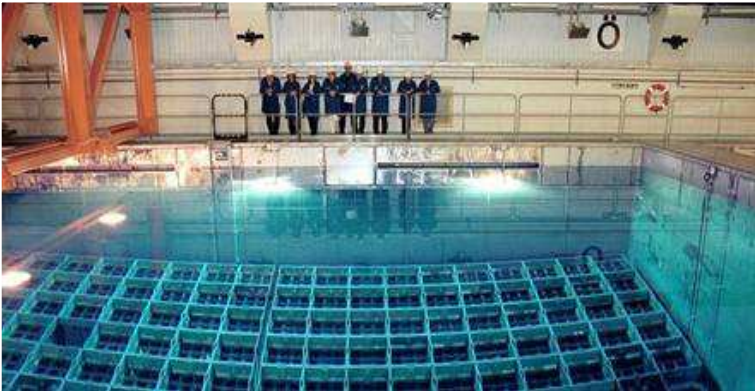
Knowledge accumulation

Siting process



Public consultation and involvement - key to success

- Broad national information
- Focused dialogue with potential local communities
- Strong local involvement of SKB and municipalities
- Ear-marked funding for municipality involvement



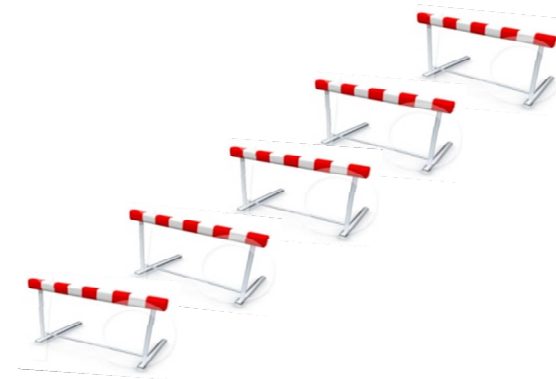
Factors for success

- Clear responsibilities for implementation and financing
- Scientific/Engineering approach
- Trustworthy regulator
- Strong public involvement
- Close cooperation with local municipalities



Remaining challenges

- Licensing and accepting a First of a Kind facility
- Going from theory to practice – Industrialization
- Keeping public confidence



In summary

- KBS-3 concept mature for licensing
- Result of 40 years of dedicated goal-oriented RD&D performed in a cost-effective way
- Responsibility to implement lies with the waste producers. Complete the work by the generation benefitting from the electricity
- Challenges remain for licensing, industrialization and public acceptance
- Key factors for success:
 - Solid scientific foundation
 - Applied technology
 - Public acceptance



More details in coming presentations

Thank you for your attention

