

# Constructing the world's first deep geological repository - POSIVA experiences

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Abu Dhabi, November 2017



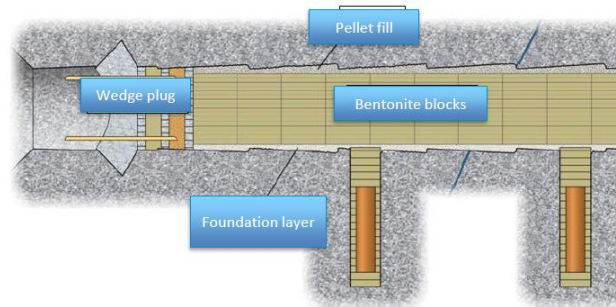
# The world's first construction license for a final disposal facility has been granted

NEWS RELEASE

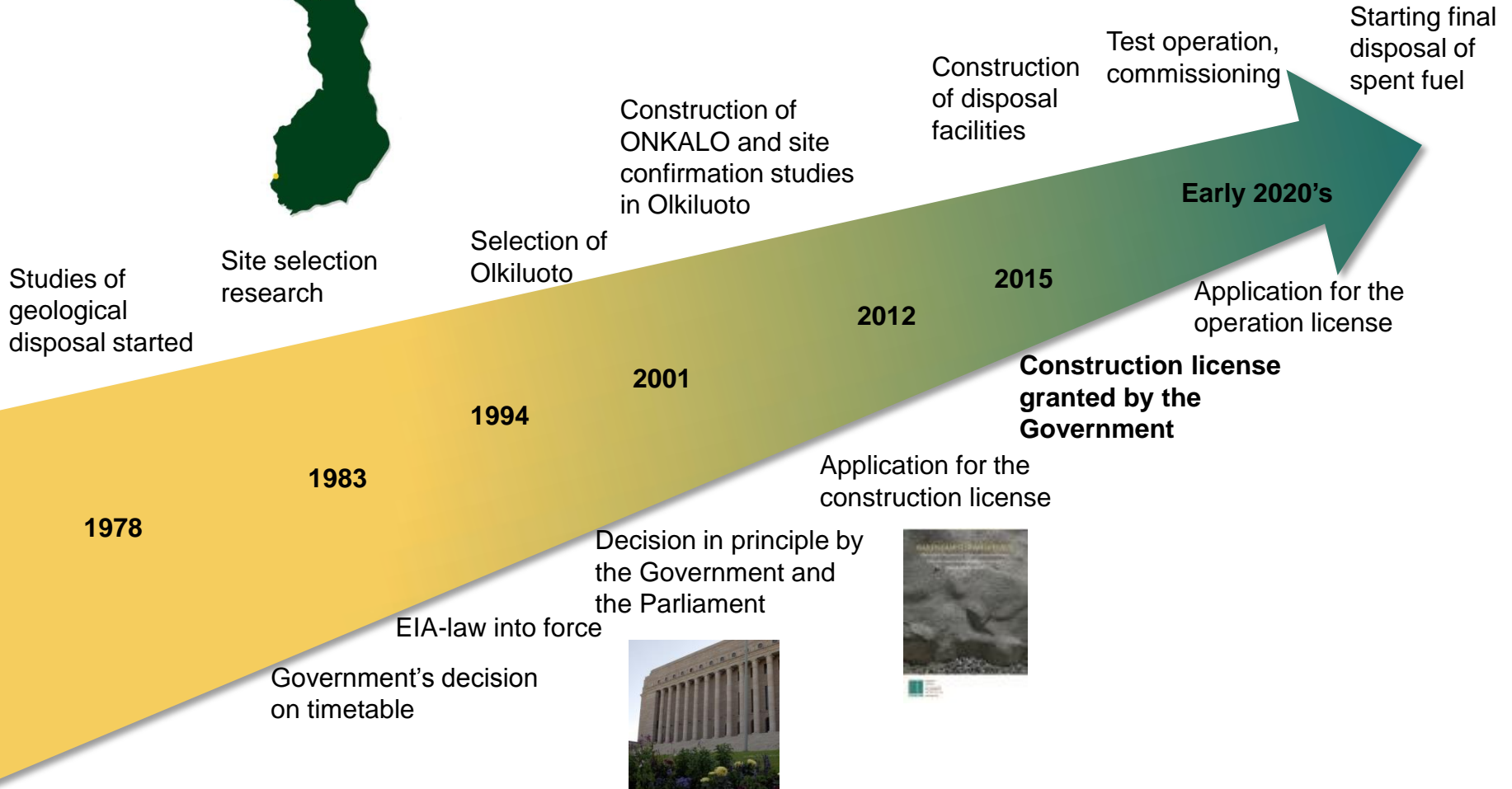
12 November 2015 at 1.40pm

## POSIVA IS GRANTED CONSTRUCTION LICENCE FOR FINAL DISPOSAL FACILITY OF SPENT NUCLEAR FUEL

The Finnish Government has today granted a licence to Posiva for the construction of a final disposal facility for spent nuclear fuel. After an extensive and multidisciplinary research and development work Posiva can now proceed to construction of the final disposal facility in Olkiluoto according to the concept it has developed. The final disposal of the spent fuel generated in the Olkiluoto and Loviisa nuclear power plants into the Finnish bedrock is planned to start in the early 2020's.

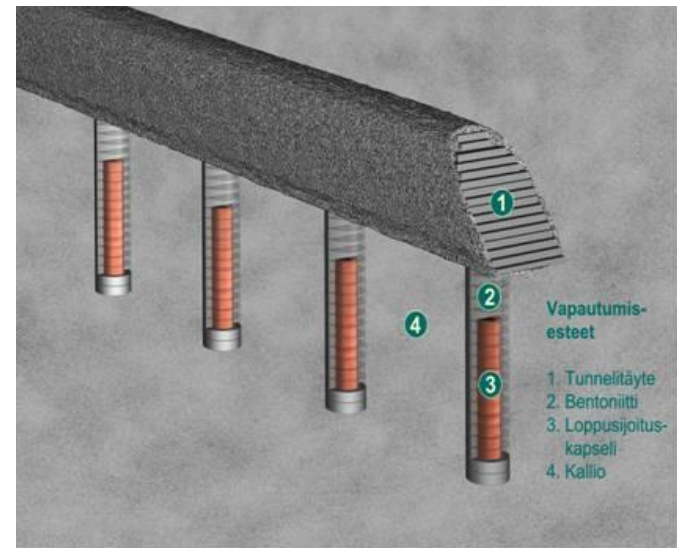
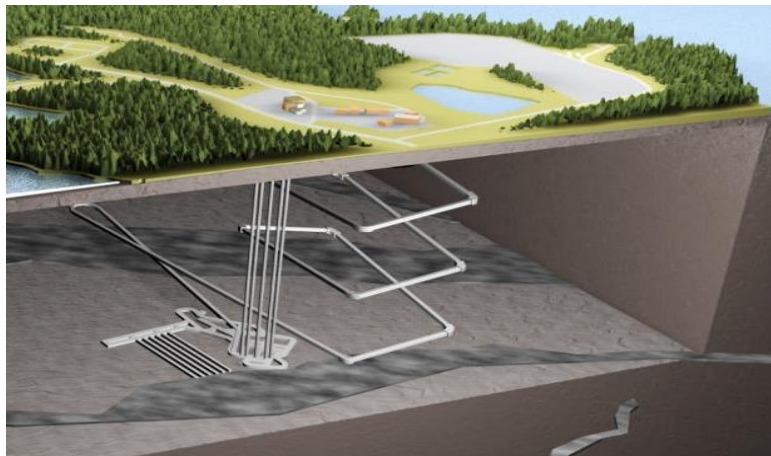


# Posiva's program has progressed already for 40 years



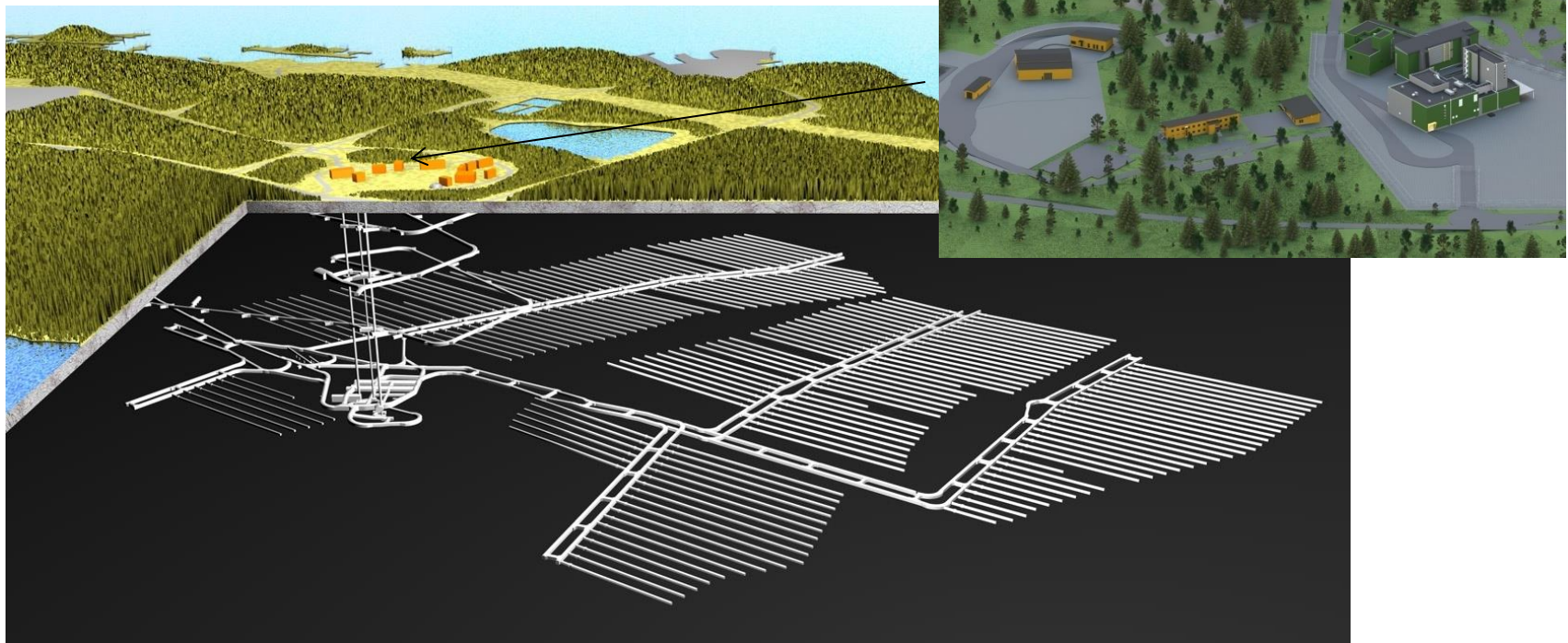


# Construction of above- and underground facilities started in 2016



# Final disposal facility around 2120

- Repository capacity is 6500 tU (about 3250 canisters)
- Depth of the tunnel system -400-450 m and the extent is about 2 km<sup>2</sup>
- Construction and operating time approximately 100 years
- The volume of the cave about 2 million m<sup>3</sup>
- Tunnel length about 60-70 km





# Three “shafts of success”

## Trust and transparency

– it takes years to earn the trust, and only minutes to lose it – we do not risk this under any circumstances

## Independent and trusted authorities

People’s own good, long experience of reliable, employing, tax-paying and transparent **nuclear industry**

Public acceptance of deep geological disposal of spent nuclear fuel

**Kiitos!**  
**Thank you!**

