

Status and beyond
NKS-R programme

Karin Andgren

NKS-R Programme Manager (until Thursday)

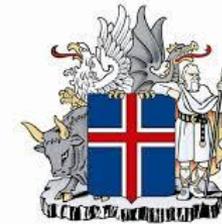


- Has for decades supported Nordic co-operation in nuclear safety research
- To strengthen the Nordic networks an activity should have 3 Nordic countries (at least 2).

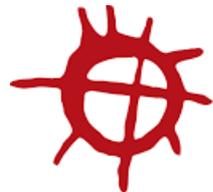


Owners and co-financiers

Owners and Main Financiers



GEISLAVARNIR RÍKISINS
ICELANDIC RADIATION SAFETY AUTHORITY



Statens strålevern
Norwegian Radiation Protection Authority



Co-financiers



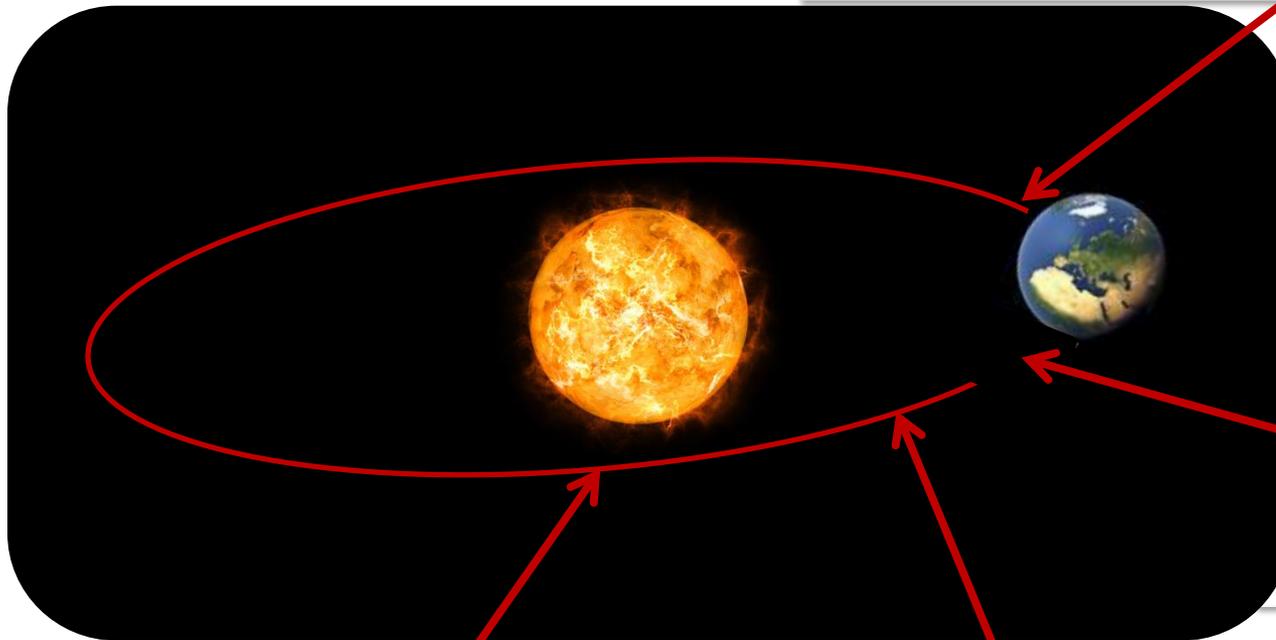
FENNOVOIMA

FORSMARKS KRAFTGRUPP



The NKS year

Funding decision at board meeting in January

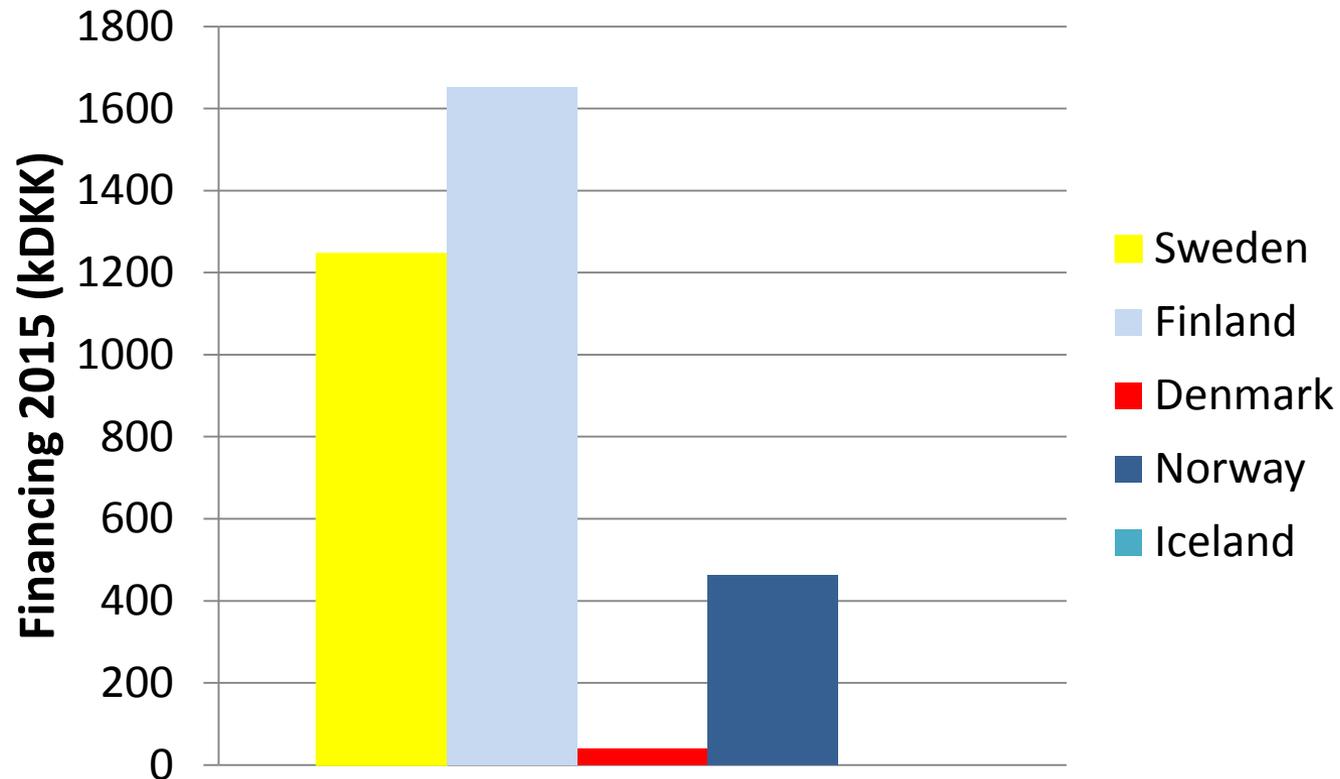


The programme managers
prepare funding
recommendations (Nov-
Dec)

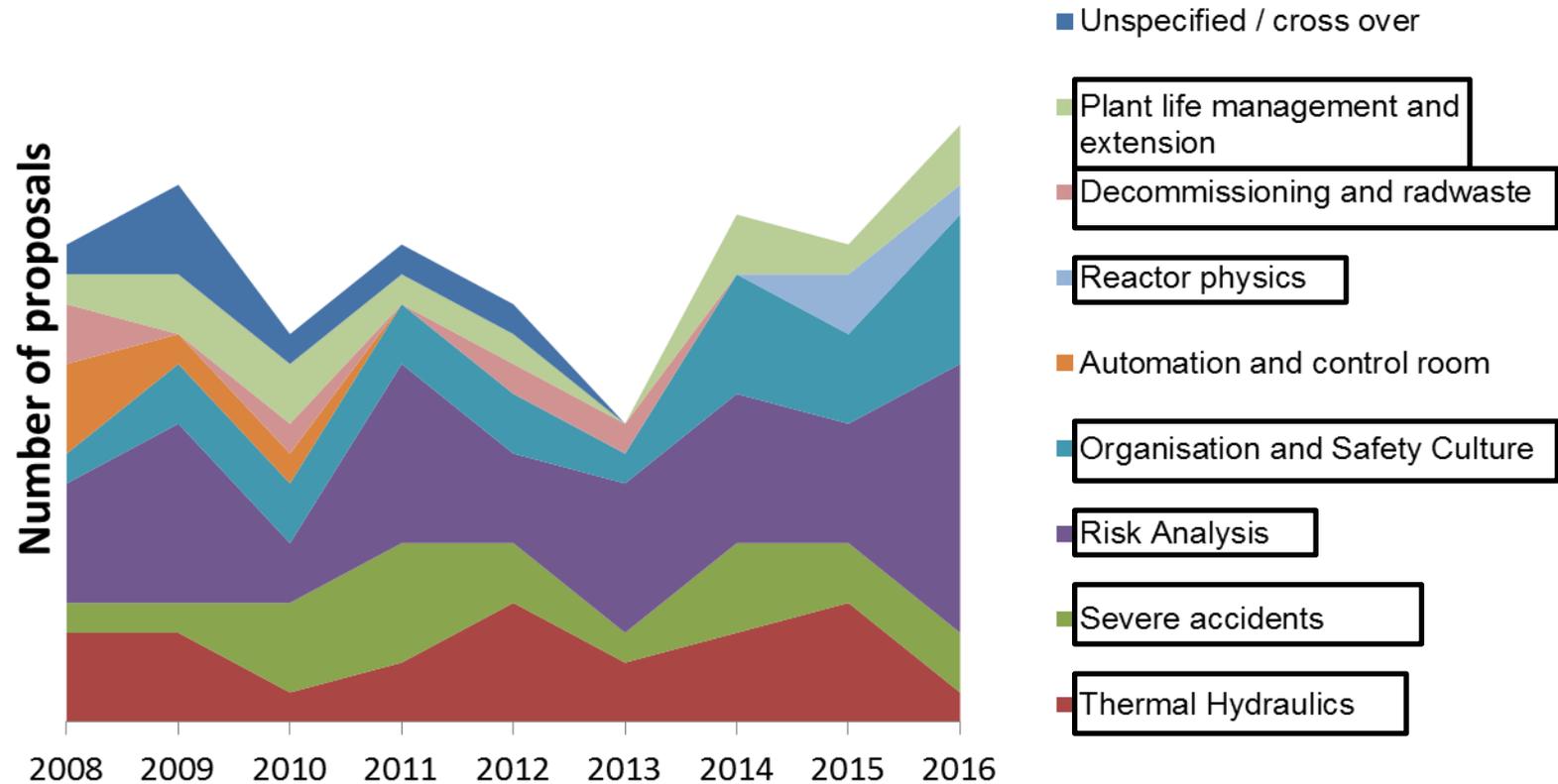
Call for Proposals opens in September

The members of the board
evaluates the proposals (Oct-Nov)

8 projects with a total budget of 3400 kDKK



NKS-R proposals per area 2008-2016



Activities initiated after Fukushima

Examples of activities initiated after Fukushima:

ADdGROUND - Potential of numerical methods to supplement empirical earthquake observations (Project partners: VTT, University of Helsinki Institute of Seismology (SEI), ÅF-Consulting, Aalto University, Geological Survey of Denmark and Greenland (GEUS) and Uppsala university)

L3PSA – Level 3 PSA (Project partners: Lloyd´s register consulting, Risk Pilot, ÅF-Consulting, VTT and Vattenfall)

DECOSE - Debris coolability and steam explosion in Nordic BWRs (KTH and VTT).

- Focus on nuclear safety (including new build)
- Increased interest in decommissioning (both from industry and authorities)
 - Closure of Ringhals 1 & 2 and Oskarshamn 1&2 by 2020



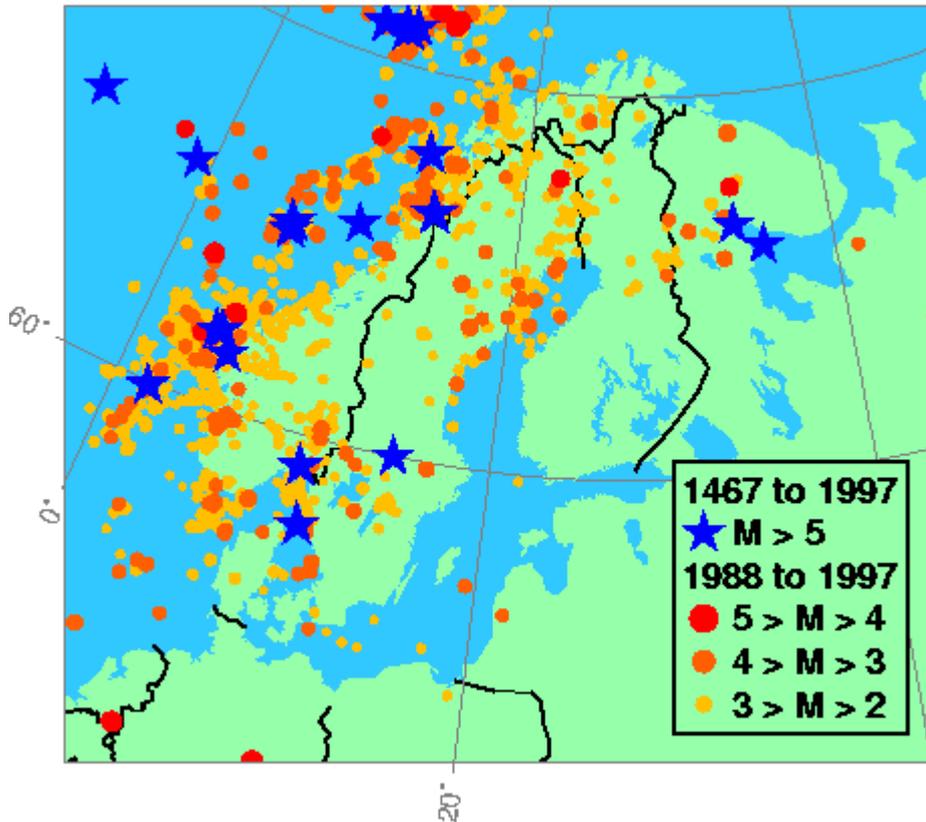
Thank you for your attention!

For more information on the NKS-R programme,

Contact karin.andgren@vattenfall.com or
emma.palm@ssm.se

Ongoing activities 2015: ADdGROUND

Earthquake location and magnitude



Research area: Risk analysis

Potential of numerical methods to supplement empirical earthquake observations.

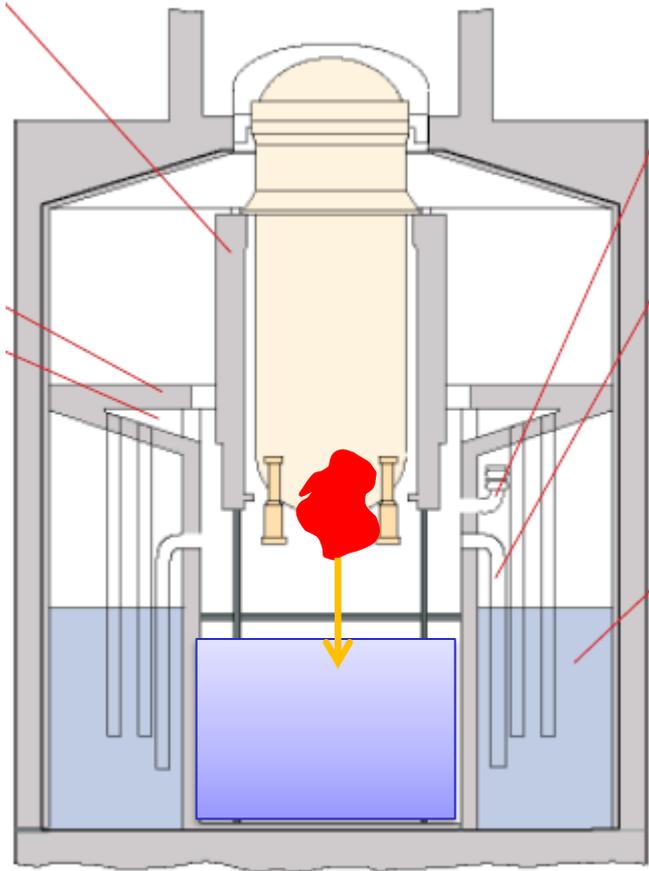
Project partners:

VTT Technical Research Centre, Finland

University of Helsinki, ÅF, Aalto university, Finland

Uppsala university, Sweden

Geological Survey of Denmark and Greenland, Denmark



Research area: Severe accidents

Debris coolability and steam explosion in Nordic BWRs

- Is the debris bed coolable?
- Is there a risk of steam explosion?

Experimental and numerical investigations

Project partners:

KTH Kungliga Tekniska
Högskolan, Sweden

VTT Technical Research Centre,
Finland