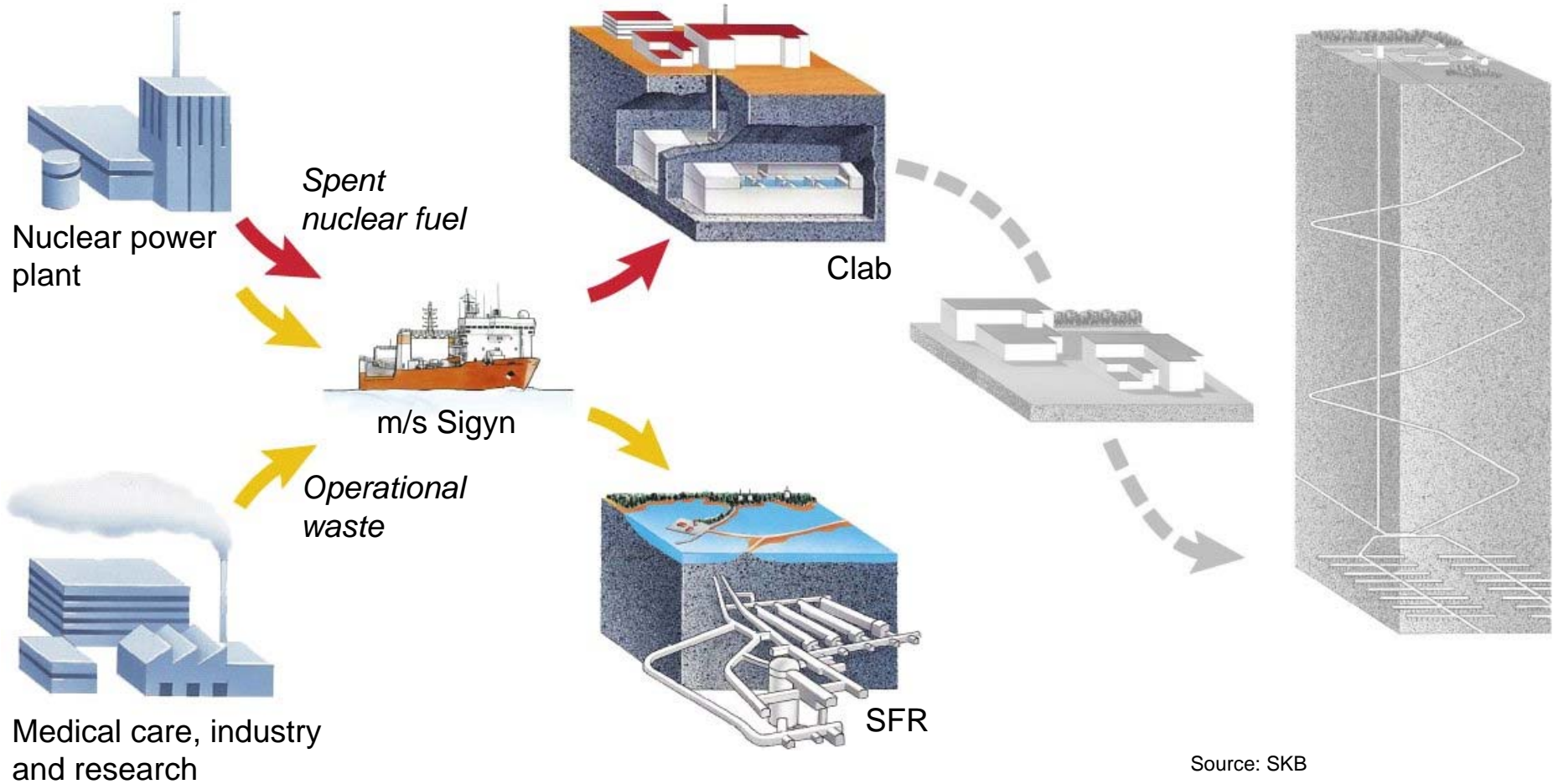


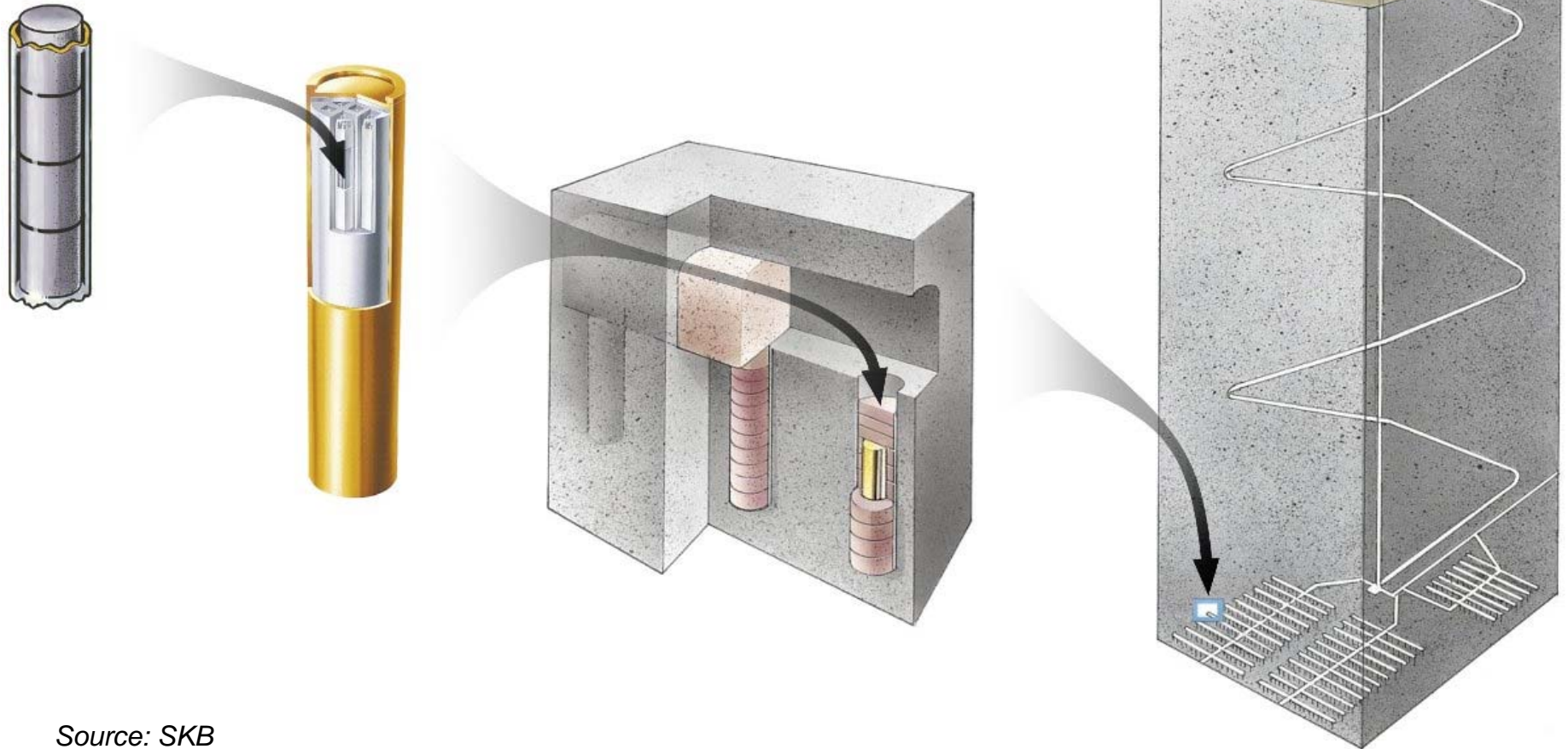
Progress on Deep Repository Programs Around the World. The Swedish Case.

Carl Reinhold Bråkenhielm
Seniorprofessor, Uppsala university
Chair, Swedish National Council for Nuclear Waste

Swedish Waste Management System

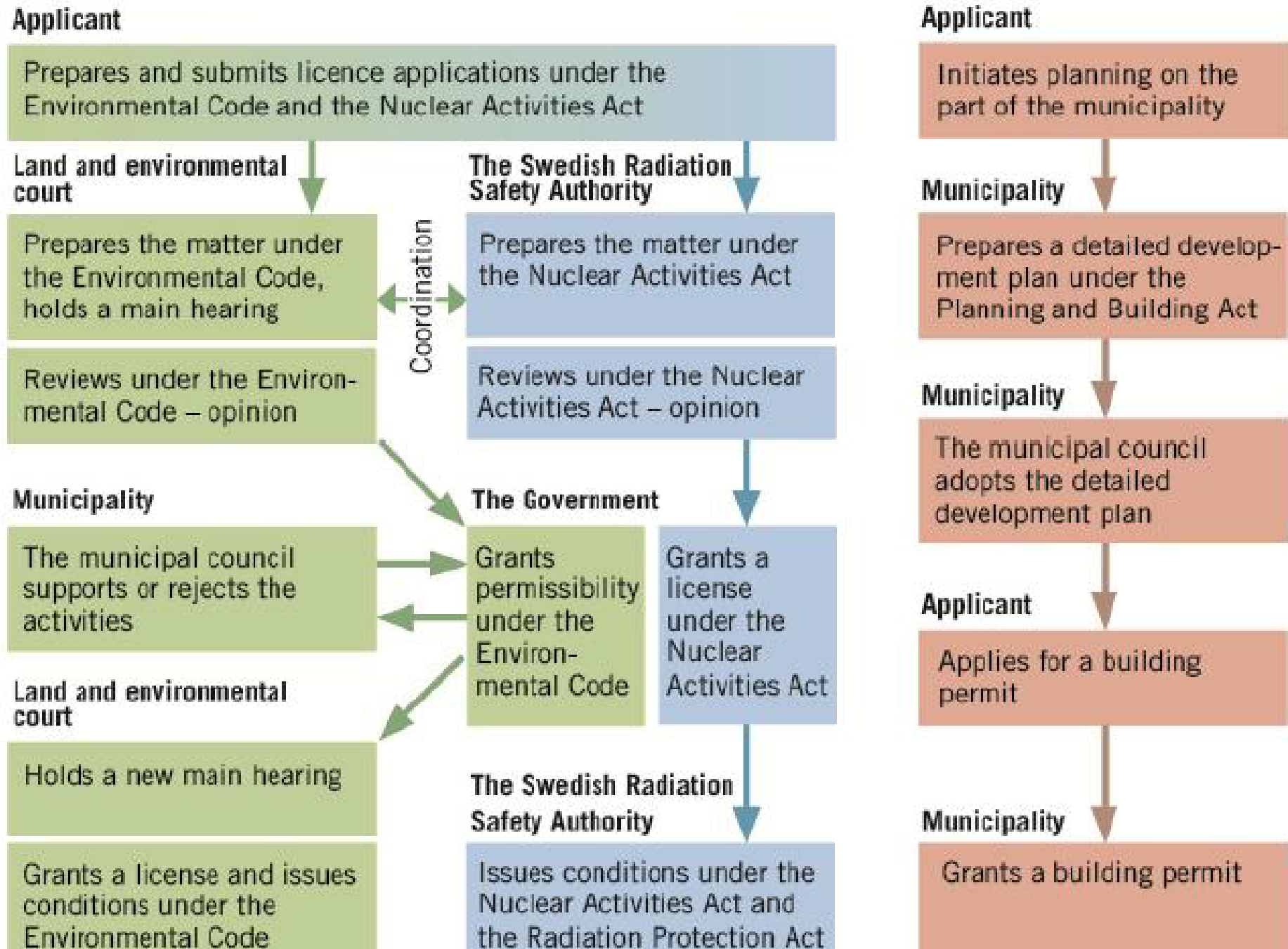


The KBS-3-system



Source: SKB

Figure 1 Process for licensing under the Environmental Code and the Nuclear Activities Act¹



Five important hurdles for SKB

Hurdle overcome on the 29th of June 2016:

- (1) positive decision from the Swedish Radiation Safety Authority (under the Environmental Code) to the Land and Environmental Court on the 29th of June 2016

Hurdles to be overcome BEFORE 2018:

- (2) a decision from the Land and Environmental Court (under the Environmental Code) to the Swedish government
- (3) the Swedish Radiation Safety Authority (under the Nuclear Activities Act) to the government (expected in 2018),
- (4) a decision from the municipality of Oskarshamn (for the encapsulation plant) to the government, and
- (5) a decision from the municipality of Östhammar (for the geologiska repository) to the government.

Final decision by the Swedish government expected in 2018.

SSM's consultation response to the
land and environmental court
(issued on June 29, 2016):

sitory system. The Authority therefore recommends that the land

But...

ns that form the basis for SSM's assessment as well as certain te

Requirements for further analysis

- ...concerning the management of uncertainty in relation to certain technical issues, including specific processes and conditions that may affect the KBS-3 *canister's durability* in the long term.
- ...the EIA ... do not give decision-makers and the general public a complete picture of the risks and possible consequences of the activity being applied for [i.e. *Clink*], even though this relates to highly improbable events.
- ... the Authority considers it disproportionate to continue interim storage of the spent nuclear fuel with the aim of developing such a disposal solution [i.e. *Deep boreholes*]