

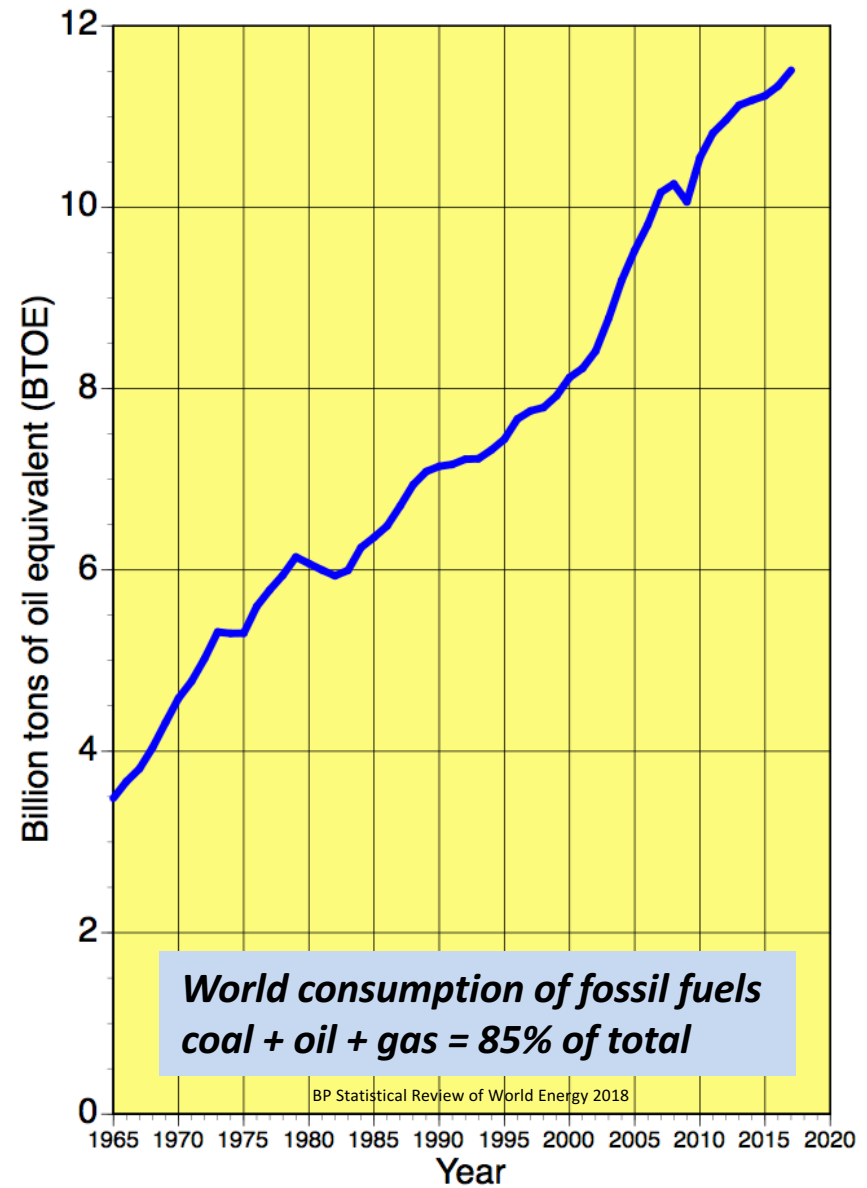
# Disrupting Energy Technology

## Thorium Power for the World

Jean-Pierre Revol

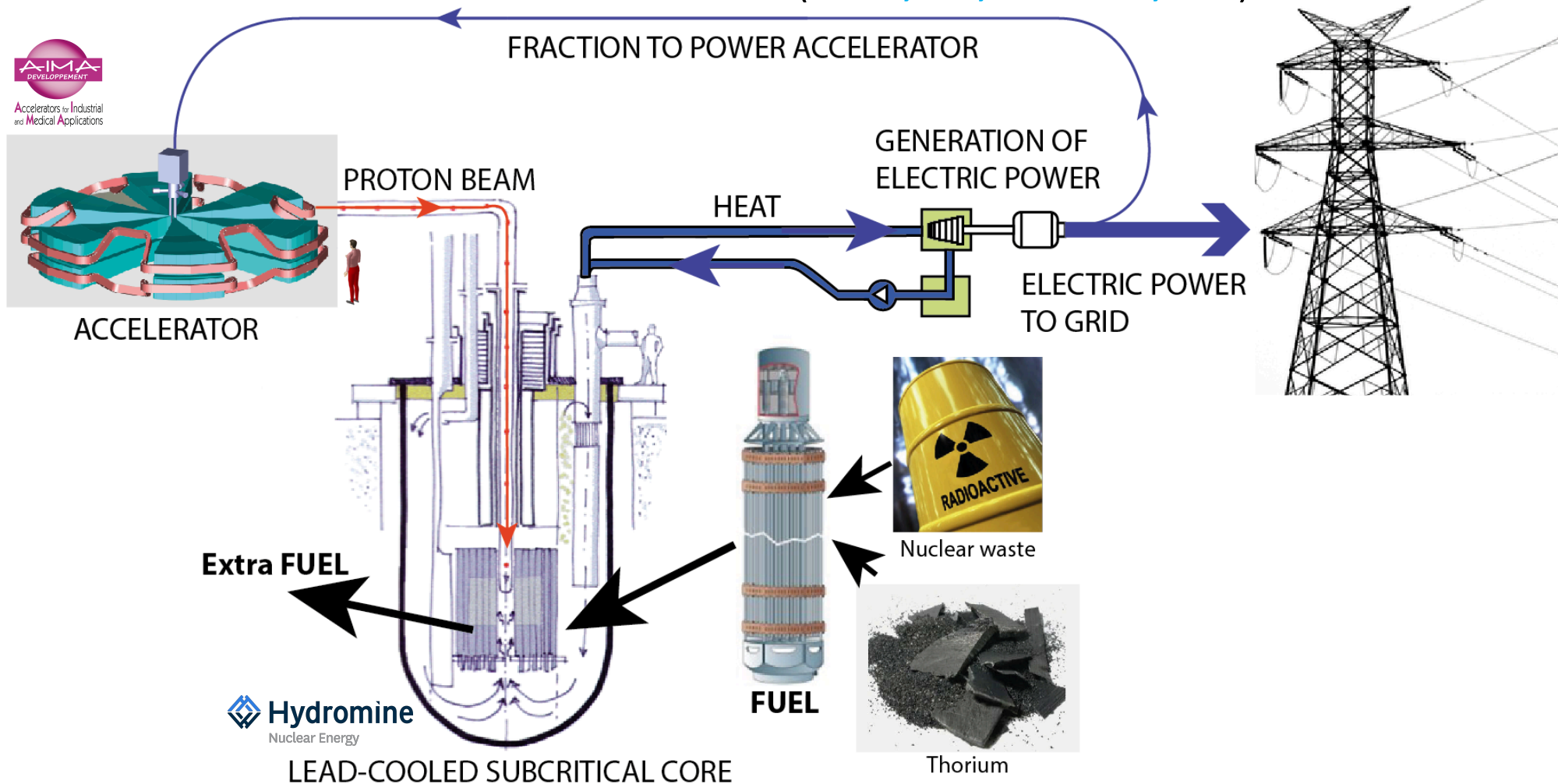


# How to solve our global energy challenge?

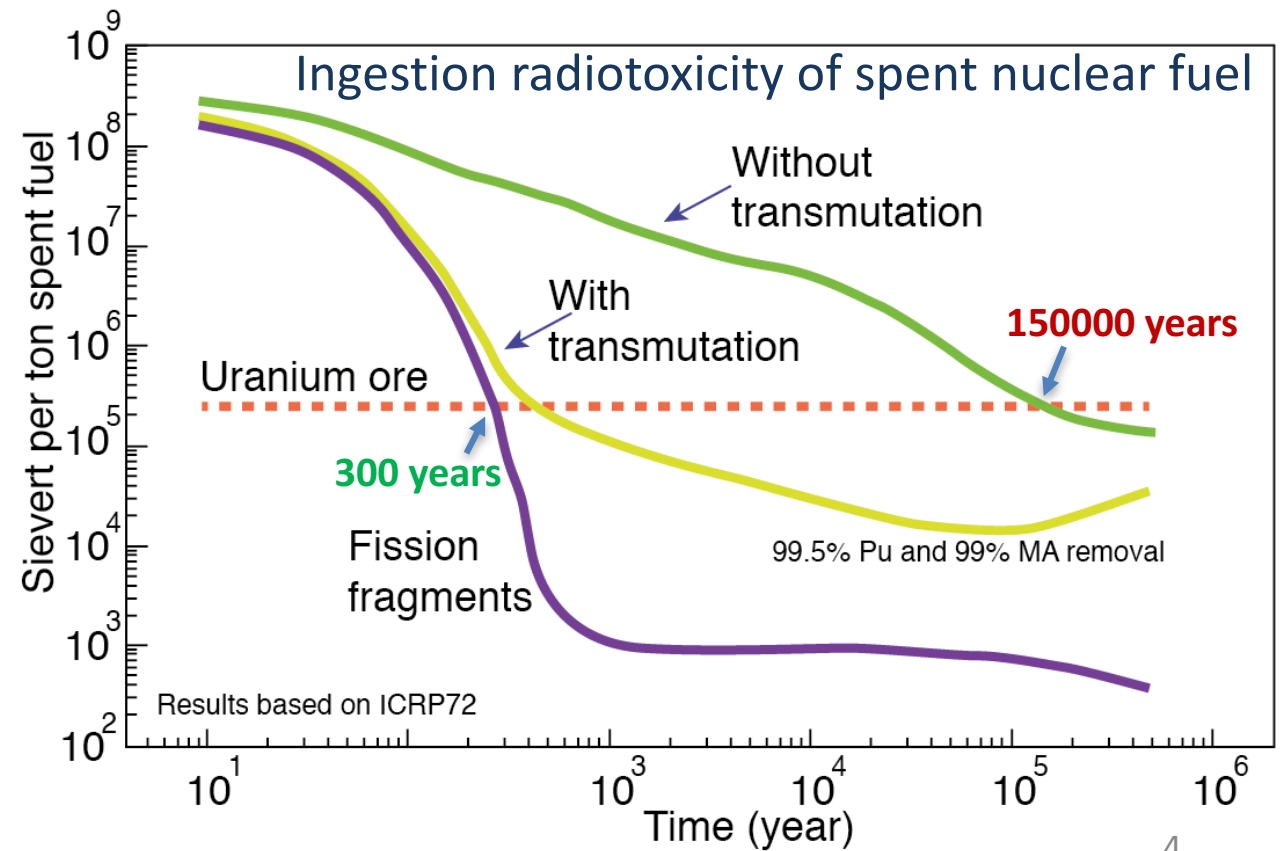


# Technology from research in particle physics

(CERN, PSI, Fermilab, etc.)

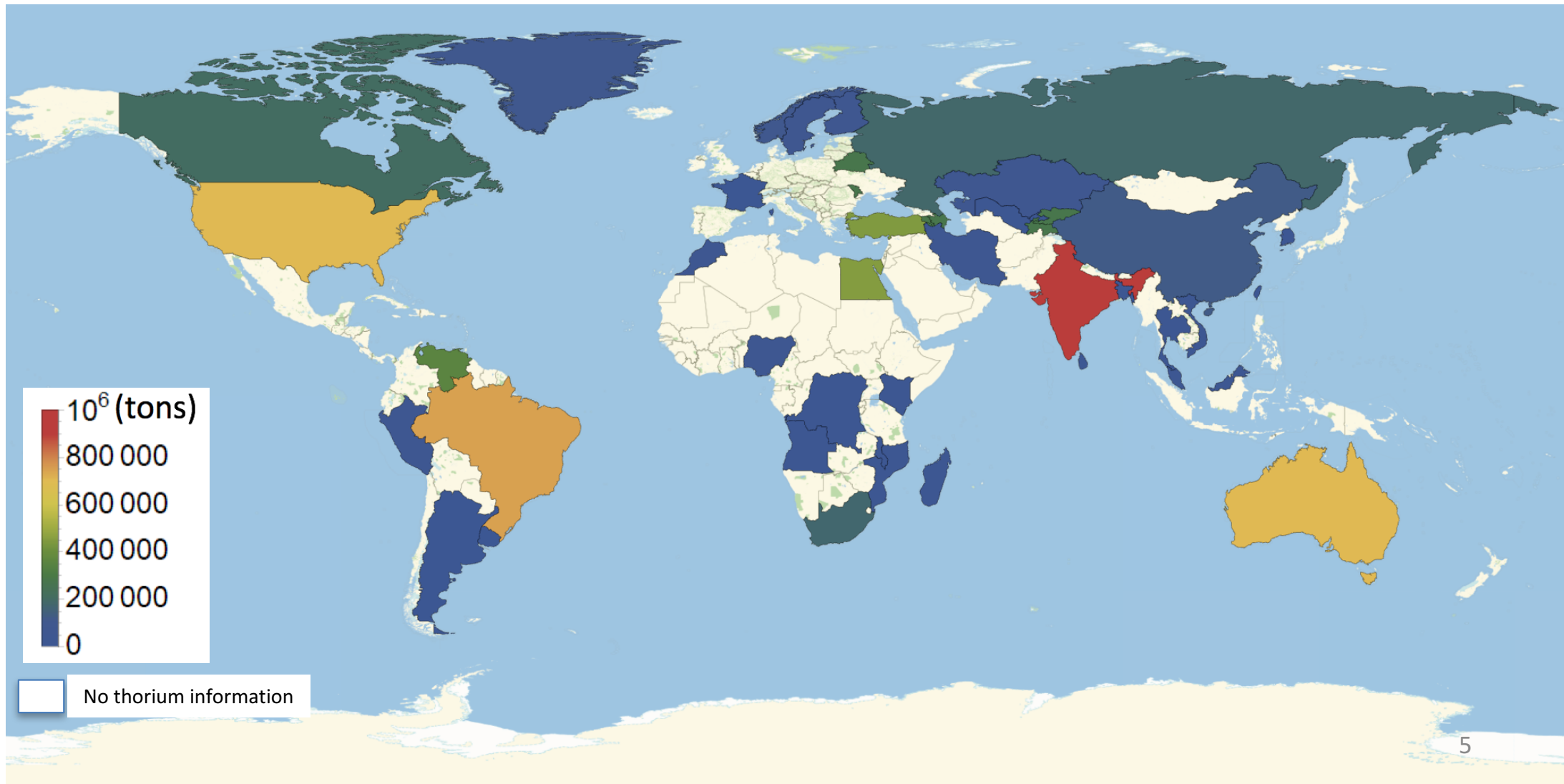


# Destruction of nuclear waste: an alternative to long-term storage

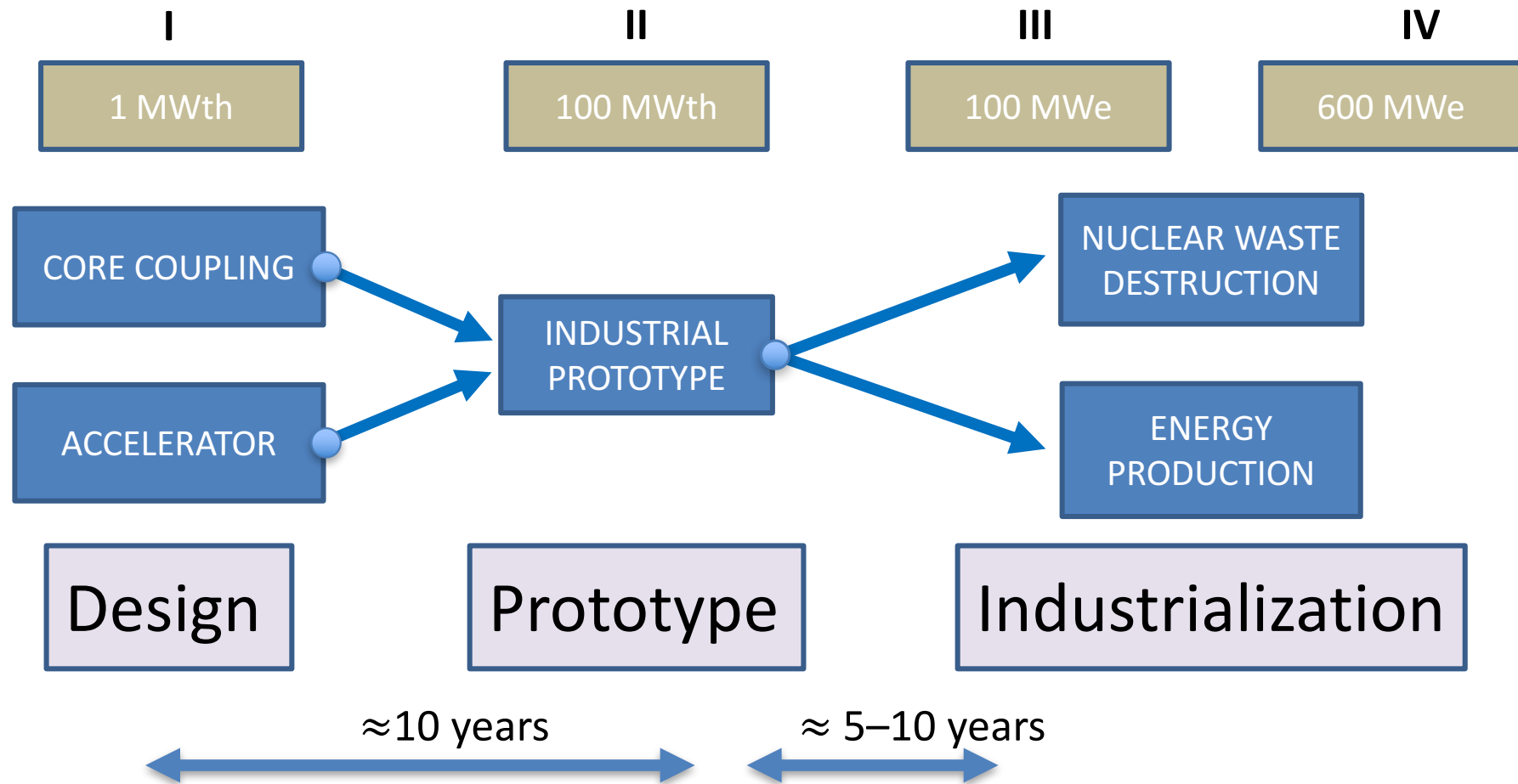




# Thorium: powering the planet for the next 2000 years



# Road Map



# Thorium for sustainable energy

- **Safe and smart-grid-compatible use of nuclear energy for:**
  - Destruction of nuclear waste
  - Production of clean energy
- **Other applications of accelerator technology:**
  - Production of radio-isotopes for medicine, industrial processes, research
- **Investors and new partners welcome**



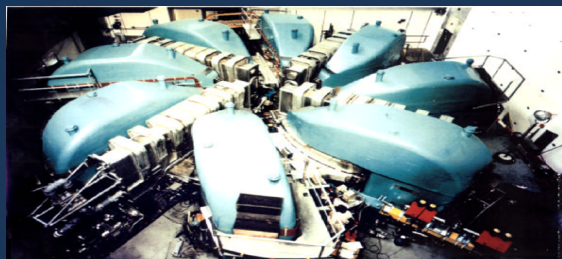
iThEC

<http://ithec.org/en/accueil/>

**RESERVE SLIDES**



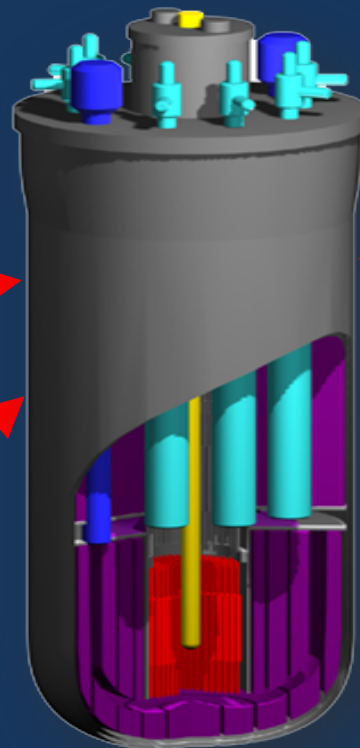
# All basic elements of ADS have now been tested separately



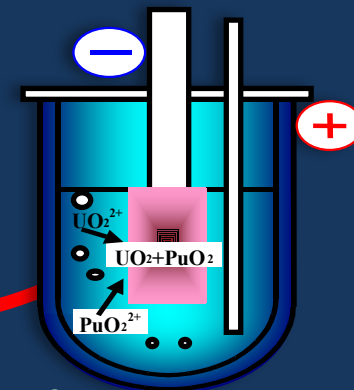
High power  
accelerators  
technology



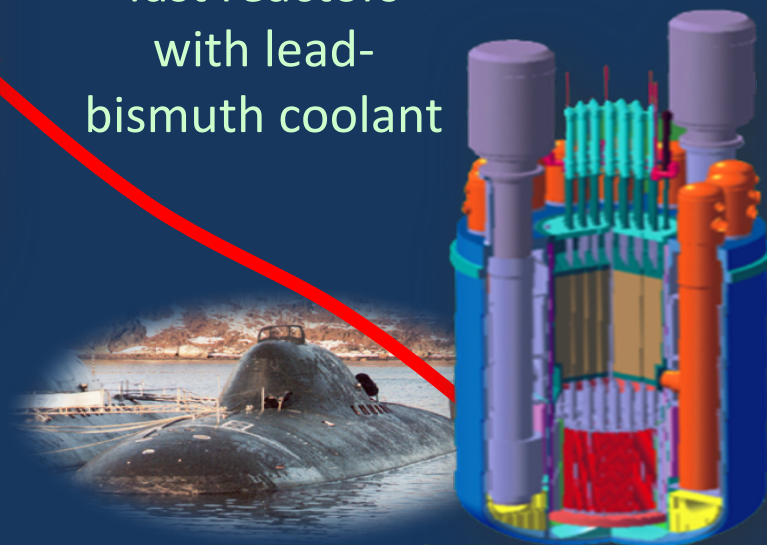
Liquid metal  
targets  
technology



Technology of  
pyrochemical  
reprocessing of  
fuel



Technologies of  
fast reactors  
with lead-  
bismuth coolant



# Cyclotron for ADS (CYCLADS)

**CYCLADS Consortium**

**AIMA Developpement**

**ASG Superconductors**

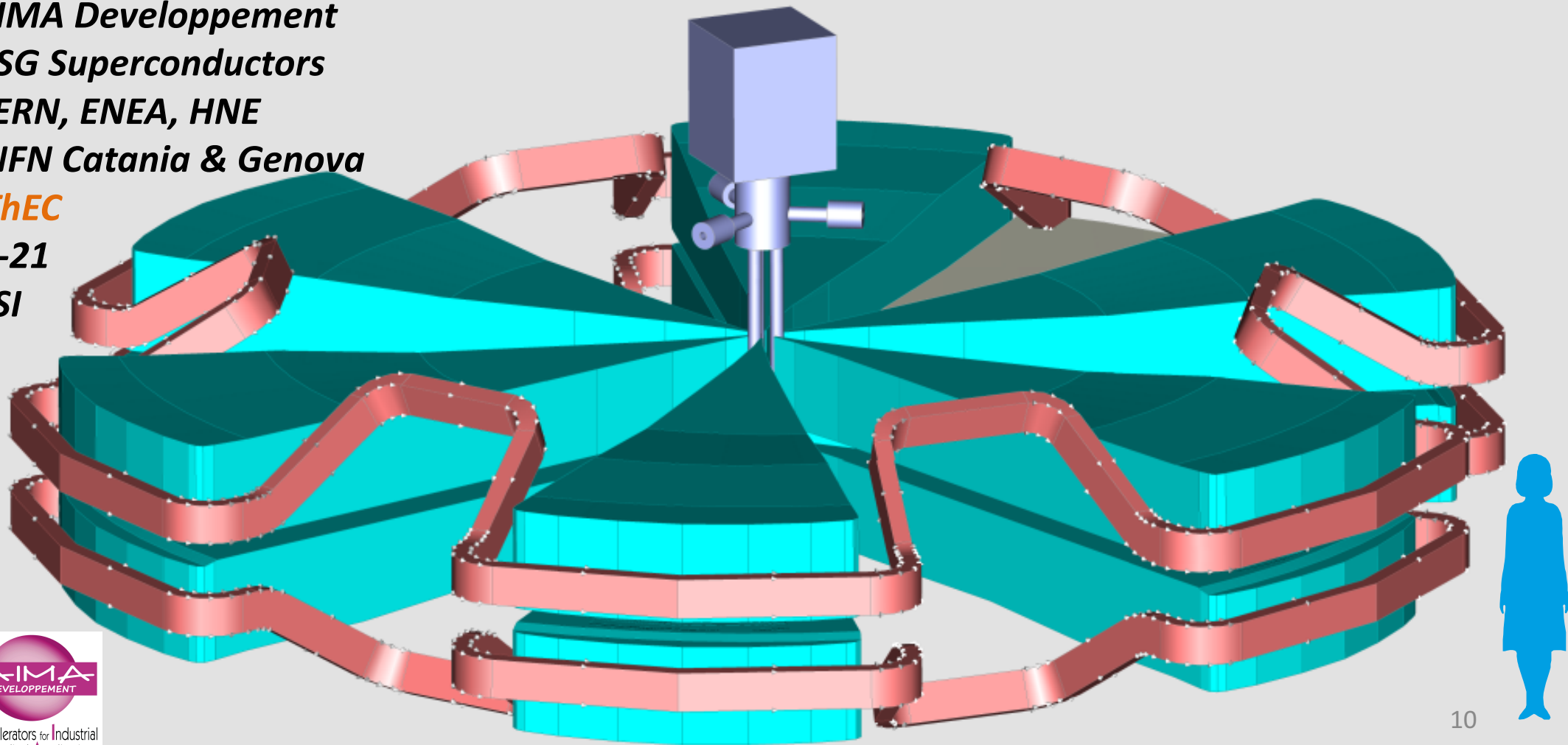
**CERN, ENEA, HNE**

**INFN Catania & Genova**

**iThEC**

**N-21**

**PSI**



# Accumulation of long-lived nuclear waste

