



European Research Programme for the Transmutation of High Level Nuclear Waste in an Accelerator Driven System

Joachim U. Knebel, FZK; Didier De Bruyn, SCK-CEN; Gilbert Granget, CEA; Fabienne Delage, CEA; Concetta Fazio, FZK; Enrique Gonzales, CIEMAT; Marylise Caron-Charles, AREVA NP SAS; Michel Giot, ENEN; Luigi Mansani, ANSALDO; Stefano Monti, ENEA; Alex C. Mueller, CNRS

Contact: ipeurotrans.knebel@nuklear.fzk.de

Information: <http://www.fzk.de/eurotrans>

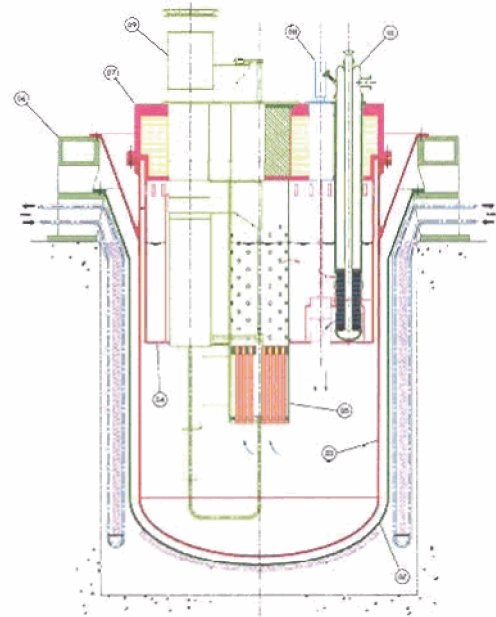
Objectives:

EUROTRANS aims to the demonstration of the technical feasibility of transmutation using an Accelerator Driven System (ADS):

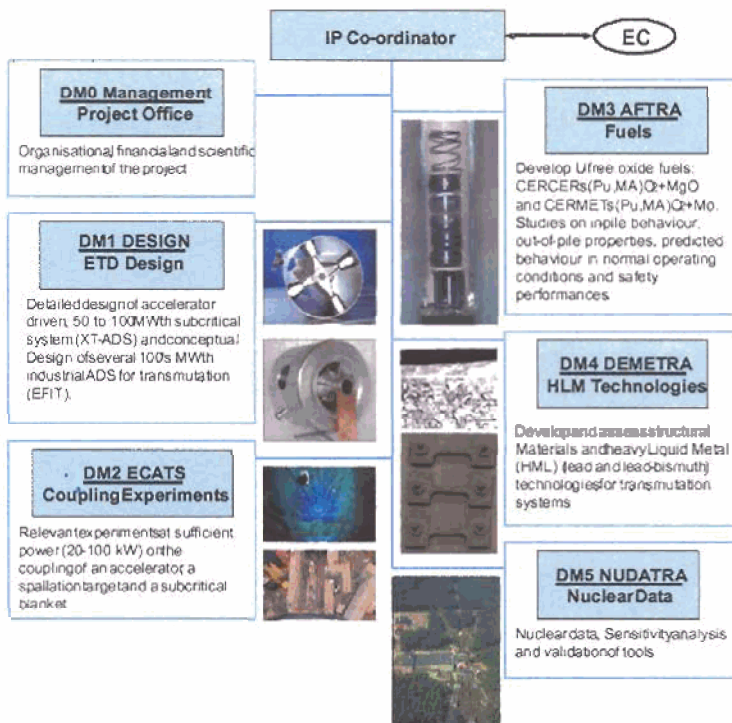
- Advanced design of an experimental facility demonstrating the technical feasibility of Transmutation in an Accelerator Driven System (XT-ADS), and conceptual design of the European Facility for Industrial Transmutation (EFIT),
- Provide validated experimental input from relevant coupling experiments of accelerator/spallation target/sub-critical blanket,
- Development and demonstration of the associated technologies, especially **accelerator components, fuels, heavy liquid metal technologies, and nuclear data,**
- Provide its overall technical feasibility, to carry out an economic assessment of the whole system.



XT-ADS Reactor Assembly



Structure and Tasks



Partners:

9 industry companies, 22 research centers, 17 universities, 15 countries

