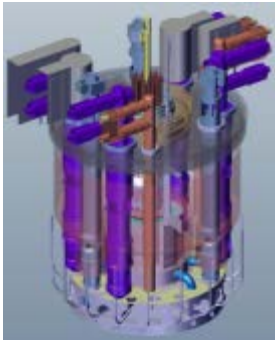


*sodium-cooled  
#600 Mwe*

« Advanced Sodium-cooled Technological  
Reactor for Industrial Demonstration »

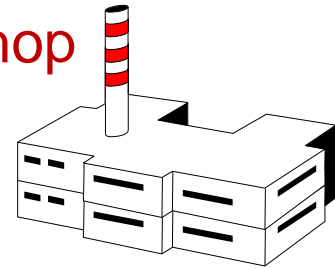


## ■ ASTRID design studies

- Integrated Technology Demonstrator 600 MW(e)
- 4<sup>th</sup> generation reactor
- Irradiation tool

## ■ Core fabrication workshop

- MOX fuel
- A few tons per year

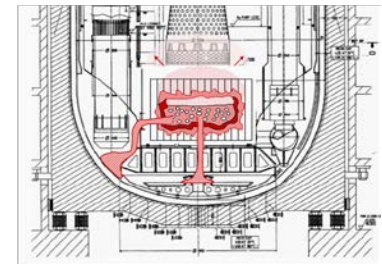


## ■ Full scale component testing

- Large test sodium loops
- Refurbishment of zero power reactor MASURCA

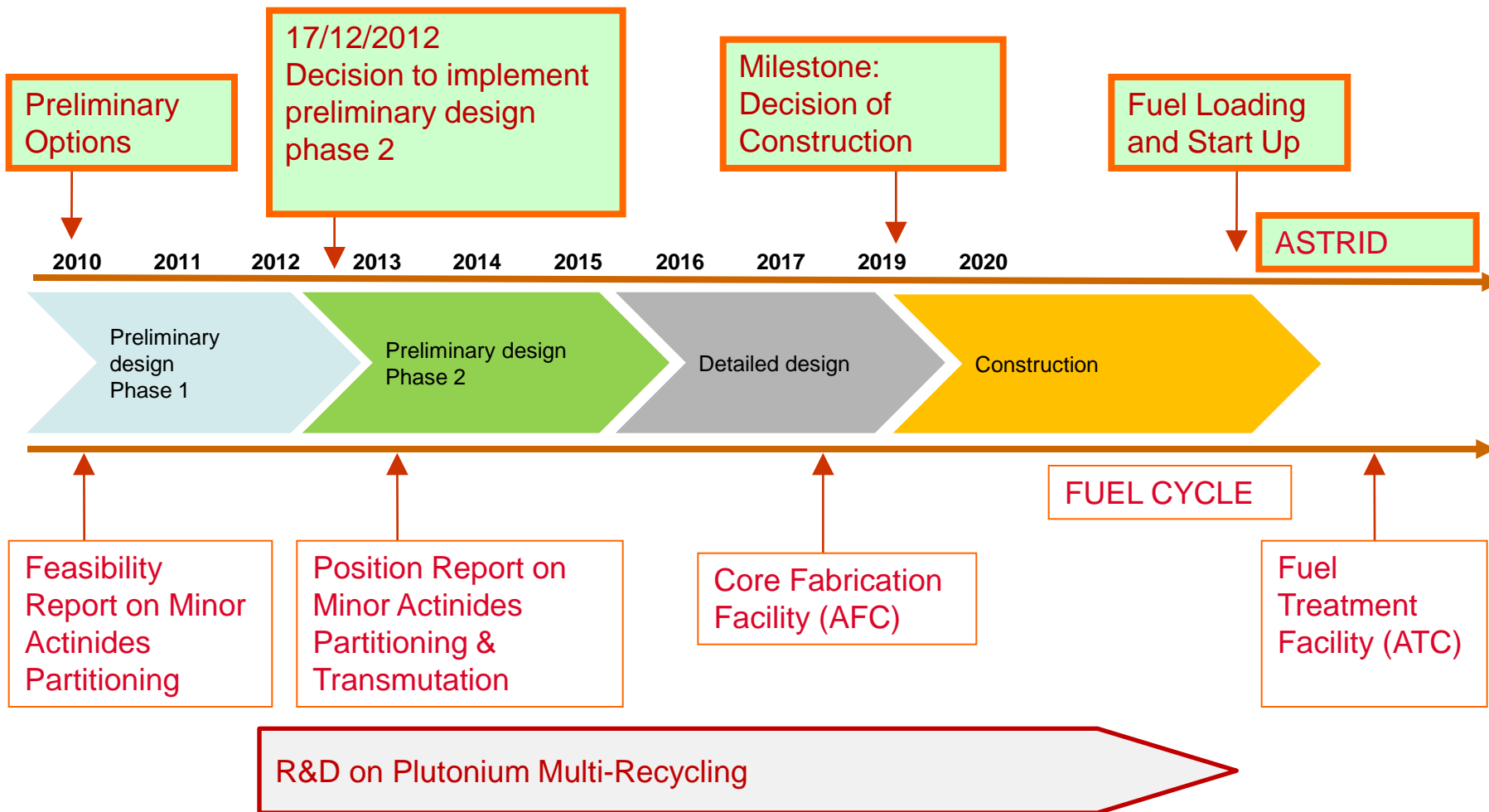


## ■ Severe accidents experimental program



**+ R&D**  
(Including fuel cycle)

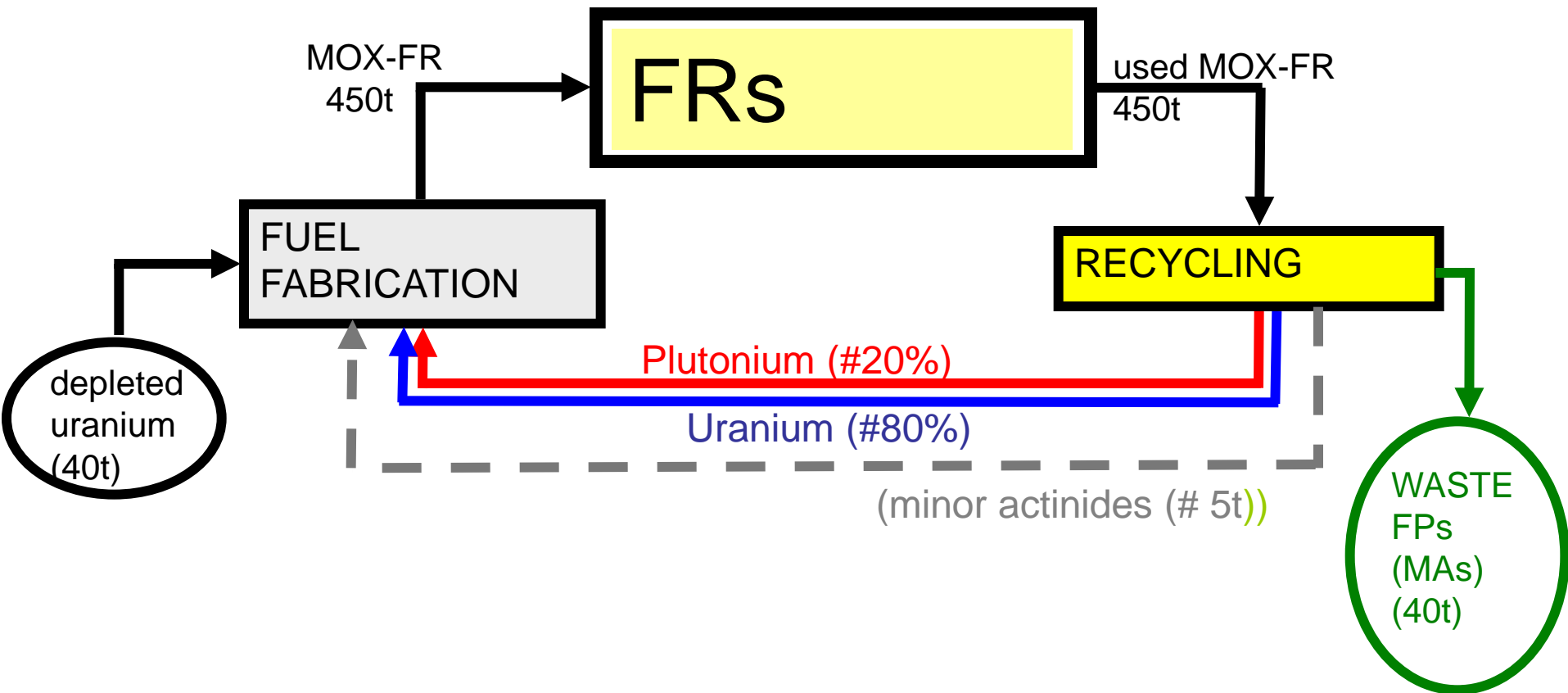
# ASTRID SCHEDULE



- **More than 1200 documents on design studies**
- **Submission of Safety Orientations Document to French Regulator – June 2012**
- **Submission of the “Report on the sustainable radioactive waste management” to French Government – December 2012**
- **Tome 3 is a summary of ASTRID design studies.**
- **Green light to continue « Conceptual design »**  
→ Phase 2 launched in January 2013 until the end of 2015



## Image of a future Fuel Cycle



**ACTINIDE MULTI-RECYCLE IN A FR FLEET**  
 ( principle values, self-balanced fleet, 400 TWh/y)

# Open to International Cooperation

