



# Introduction to Salome\_CFD Days @ EDF

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*Marc Boucker (Nuclear of the Future Initiatives Program)*

# Foster nuclear R&D

## *Two major challenges*



- **Started 2017 within the French Nuclear Institute**
- **Driving Research and Innovation toward existing fleet and new built**
- **Shared across the French Nuclear Industry**





## Develop technological bricks

- Providing *global and long-term vision*, with clearly identified milestones
- *Accelerating* integration of external technological breakthroughs
- Identifying and tackling *technological and scientific challenges*
- Bridging *academic and industrial research*
- Featuring *flexibility*: new designs / existing fleet in operation



## Showcase nuclear R&D and communicate

- Rally academic partners to tackle our scientific challenges
- Enlarge collaboration to new players (start-up, SME)
- Attract new talented people

# Technological Bricks – April 2018

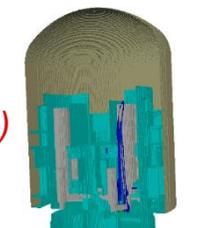
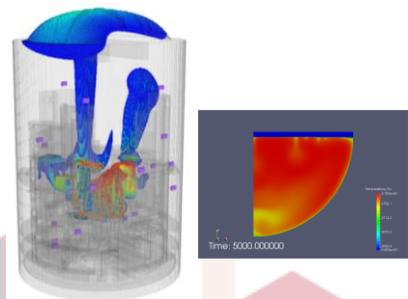
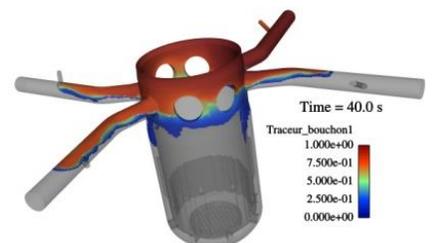
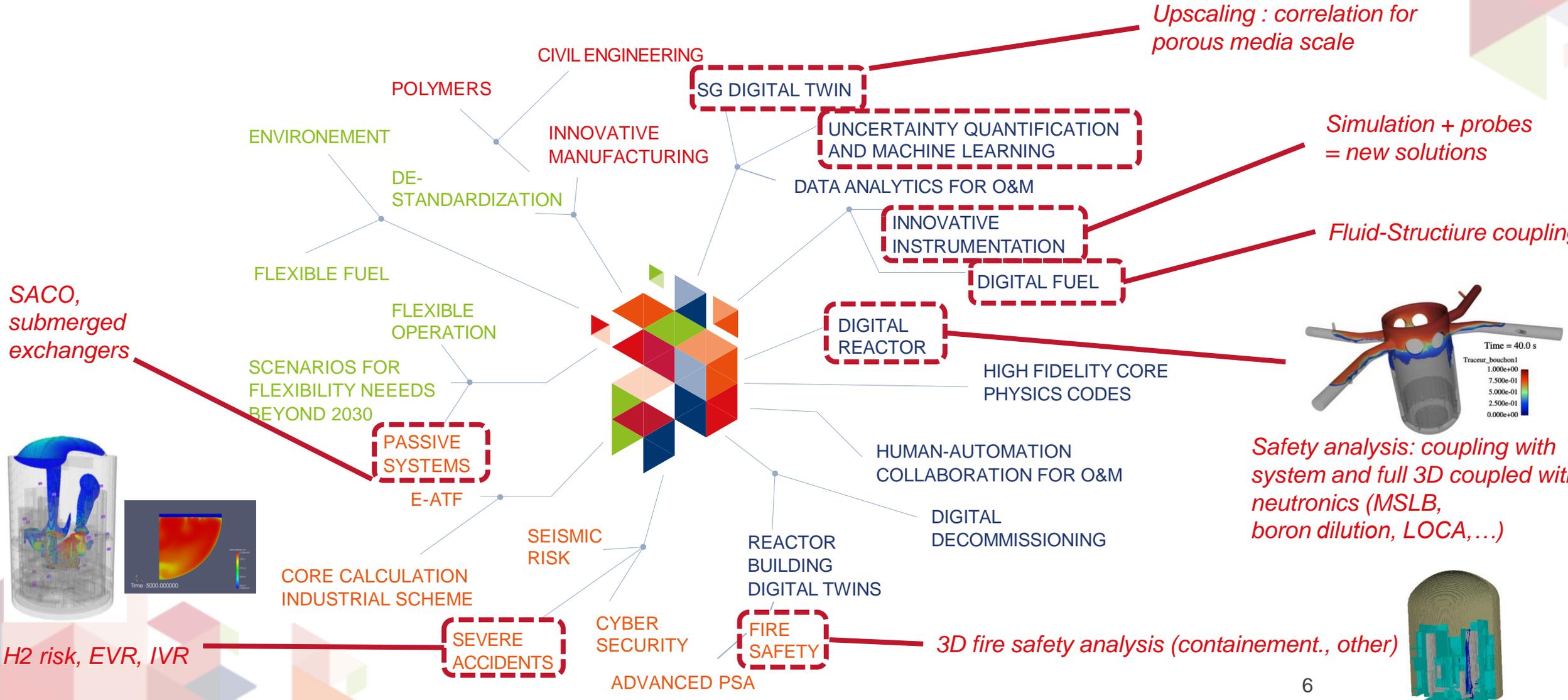


- **Digital: taking benefit of digital throughout the industrial lifecycle**
- **Flexibility: R&D needs beyond 2030**
- **Safety: continuous improvement facing environmental, regulatory, societal evolutions**
- **Construction & fabrication: foster the use of new modes of construction, fabrication, repair**



# Technological Bricks

## Where is/will be CFD ?



# Nuclear of the Future Initiatives

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## Working schemes



**Nuclear sector partners**

**Academic and industry research partners**

**Engineering and operation teams**



**Development in agile mode**

**POC approach**

**Benchmark state of the art**



**Collaborative hub  
at EDF Lab Paris-Saclay**



**co-working, labs**



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