CONTENTS

- Python 3
- Documentation
- Data Model
- Modularity
- GDE: Data Study Manager
- SHAPER
- SMESH
Prerequisites: Paraview 6 (end of 2017) will drop python 2 support

Python 2 countdown is started

Main components will be revised in 2017

Users will have to revise their own scripts

- Migration guide will be provided to help with this transition
Today
- Ageing pages
- Missing high level information

SALOME tool choices
- Doxygen for code
- Sphinx for the rest

A current action revised the structuration of the documentation
- Users manual
  - Especially for casual users
- FAQ & HOW TO
  - How to build an application
  - How to develop in the platform
- References
  - API documentation
- Technical
  - Architectural documentation
- Quality
  - Validation process
DATA MODEL FOR APPLICATION BASED ON SALOME

Roadmap

- 2014: feedback on:
  - XDATA tool from CEA
  - EFICAS tool from EDF

- 2015: 2 ways to define a data model
  - Declarative way based on “XSD” schema
  - Programming way based on class derivation

- 2016: Prototyping theses 2 solutions
  - EDF: experiment a “XSD” schema
  - CEA: on the last JUS for the programming way

  “Design and analysis of numerical experiments with SALOME and URANIE as prerequisite”

- 2017: Design first applications
MODULARITY

Goals

- SALOME as a set of libraries (API definition)
- SALOME as a set of standalone applications (standard file exchange)
- SALOME as a platform for integrating applications (tools to help integration)

Roadmap

- 2016: first set of tools
  - MEDCoupling: its own repository
  - Curve plot
  - Python Console
- 2017: second set of tools
  - 2D views
  - 3D views
  - Distribution as a service
- 201x: Incrementally working
DATA STUDY MANAGER (GDE)

**Roadmap**
- 2016: technical basis development
- 2017: proof of concept by 2 use cases to build
- 2018: first release
SHAPER

SHAPER 2.6.0
- This version can produce industrial shapes
- 3D constraints solver: FreeCGS from FreeCAD
- Scripting available
- Easing the transition
  - GEOM functionalities are covered
  - Shaper will be compatible with today’s scripts

Perspectives
- First release, schedule in 2018
- 2017 will be dedicated to bring the latest features and tests to the module
**SMESH**

### Roadmap

- **2016**: a performance specification is ready. *A factor 2 already earned.*
- **2017**: first improvement stage and performance evaluation
- **2018**: second improvement stage will allow large mesh handling: 50,000,000 cells on local workstation

### And future work

- Deeper relationship between SHAPER and SMESH
- **SMESH flexible** like SHAPER (parametrization)
- Improvements on hexaedral meshes generation
Thank you for your attention