

# VIVACE Forum1 Warwick 20 & 21 September 2005



# VIVACE

Demo 4 a): Complex Collaborative Design

Arnaud Quenardel – Snecma  
Stefan Lindahl – Eurostep

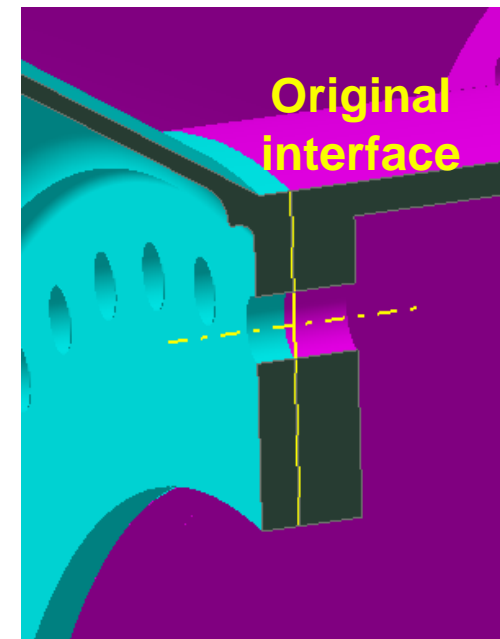
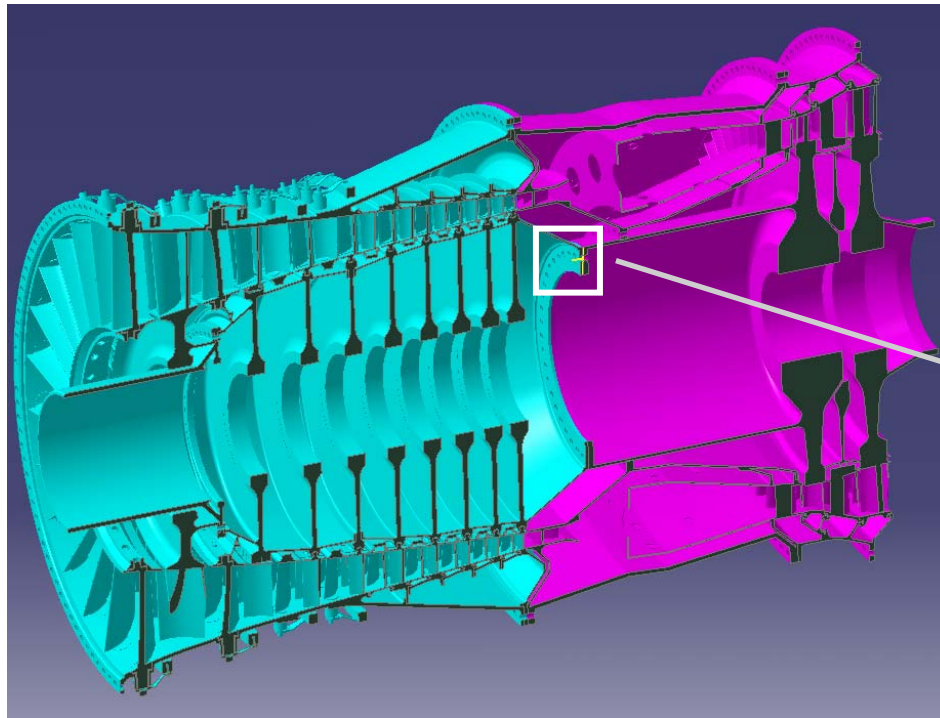


## *Introduction*

- **Interface management is a very important issue of collaborative design, since it ensures the integration of all the modules**
- **What is presented here is an interface management scenario using the hub for the collaboration between all parties involved in interface management**



# *The original situation*





Demonstration starts

**DEMO**

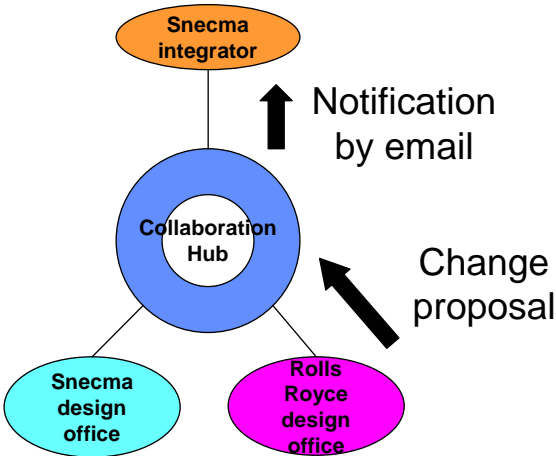
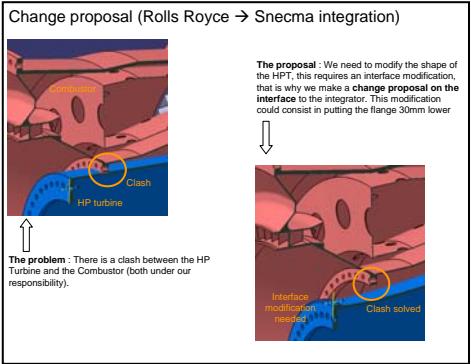


# What has been demonstrated ? D4a/1

- There is a clash inside Rolls Royce design, due to the position of the compressor-turbine interface



- Rolls Royce publishes a change proposal (an 'office' document) on the hub to the integrator



- The integrator is notified by email



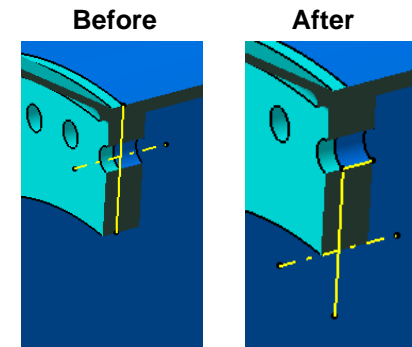
## *Interface review 'virtual' meeting*

- An interface review is organized between the parties involved on the interface
  - The integrator (Snecma integration)
  - The HPC design office (Snecma design)
  - The HPT design office (Rolls Royce)
- Tools used are usual webconferencing tools (**not demonstrated here**)
- Finally the change of the interface is **approved**



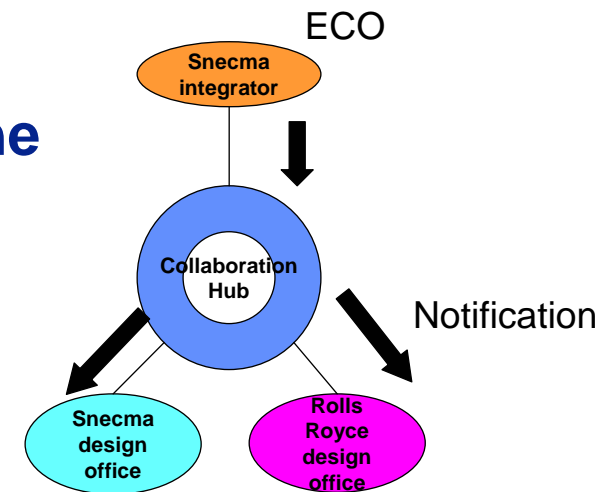
## What has been demonstrated ? D4a/2

- An engineering change order (ECO) is published to the hub with :
  - The original change proposal
  - The minutes of the interface review meeting
  - The new interface model



- Both involved design offices are notified

→ The mechanism of ECO applied on the interfaces ensures an efficient traceability and communication on interfaces changes





## *What has been demonstrated ? D4a/3*

- Both design offices get the new interface definition from the hub
- Design is modified to be compliant with the new interface definition
- New design update is published on the hub in an incremental way (only publishing what has been modified)

