

# TSP Workshop



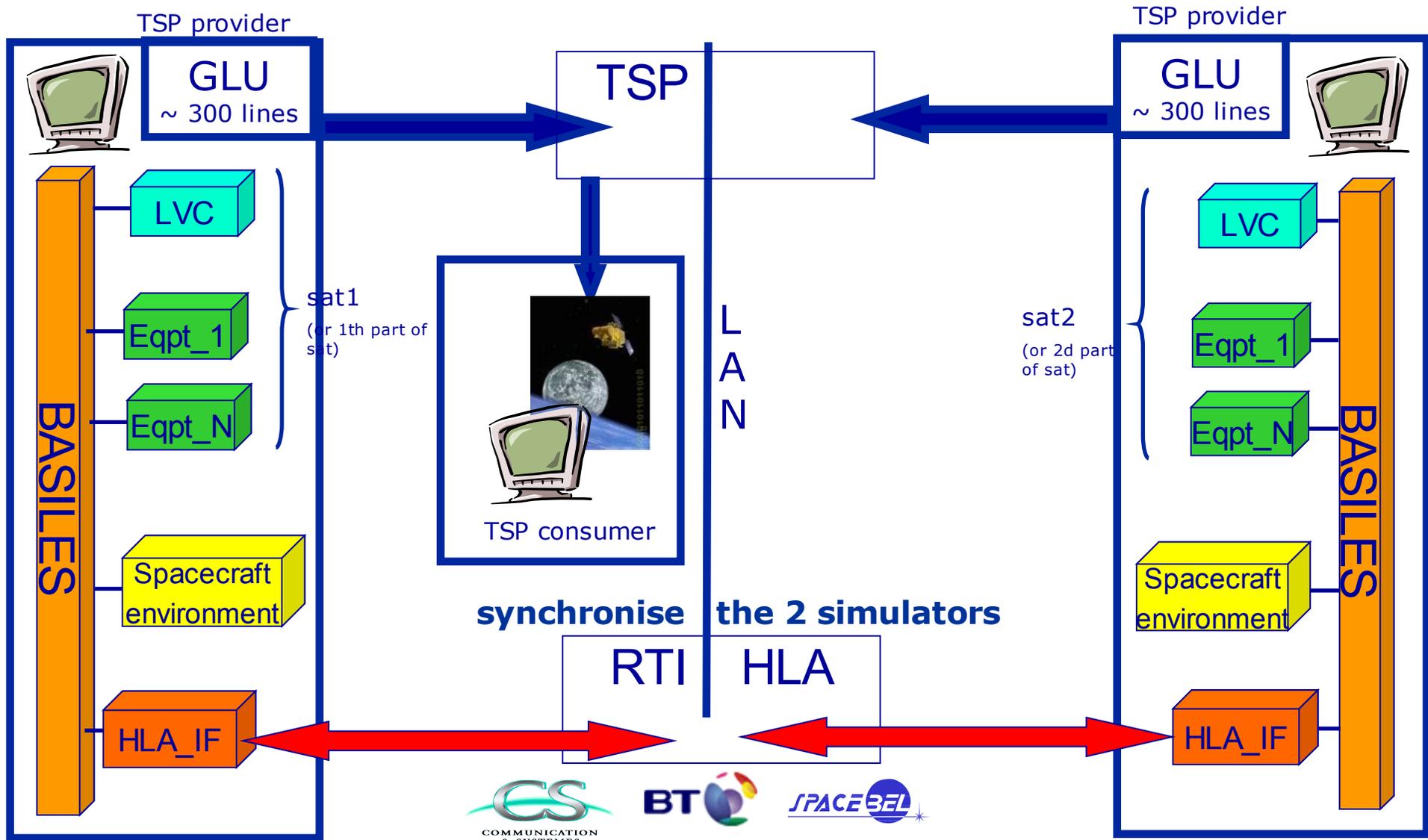
## BASILES Distributed Simulators & 3D Visualization

27<sup>th</sup> March 2007

# Objectives of BASILES

- **BT/CS/SPACEBEL project for the CNES**
- **A common simulation kernel used as a building block for simulator and test environment**  
**May be used for :**
  - Design Study
  - Software Validation
  - Operationnal training
- **Capitalize the multiple experiences on spacecraft simulation**
- **Anticipate the future needs :**
  - Formation flight
  - Autonomous flight

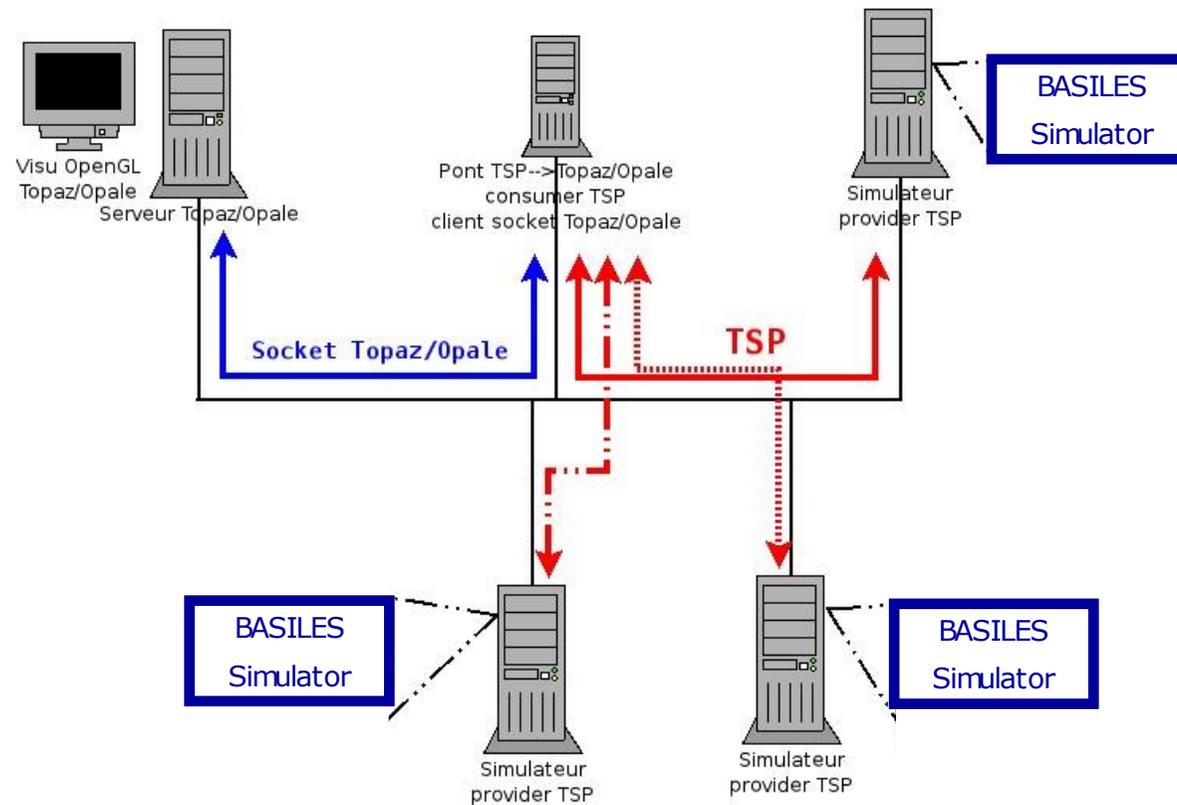
# HLA & TSP cohabitation



## TSP & Topaz/Opale (1/2)

- **CNES product (turn on Windows only)**
- **Need a specific TSP consumer : TspTopazBridge**
  - Dependent of Topaz/Opale
  - **Independent** of BASILES
  - Java product (portable)  
=> can turn on any BASILES PC or on Topaz/Opale PC

# TSP & Topaz/Opale (2/2)



# Demo

- **PRISMA simulation : 2 satellites (formation flight)**

- 1 sat = 1 BASILES simulator

- **Visualization of the 2 satellites with Topaz/Opale**

⇒ **3 PCs**

- 1. Launch Topaz/Opale in real time mode on PC1 (Windows)
- 2. Launch RTI HLA on any PC LINUX
- 3. Launch 1st BASILES simulator on PC2 (LINUX) (provider activate)
- 4. Launch 2d BASILES simulator on PC3 (LINUX) (provider activate)
- 5. Launch TspTopazBridge on any PC (identification of providers & consumer)
- 6. Start BASILES simulation