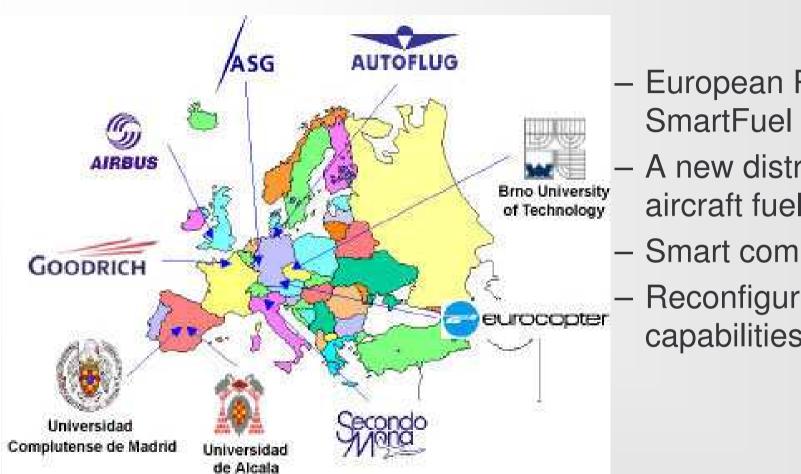


Universidad Complutense de Madrid

Automatic reconfiguration in distributed avionic fuel system control

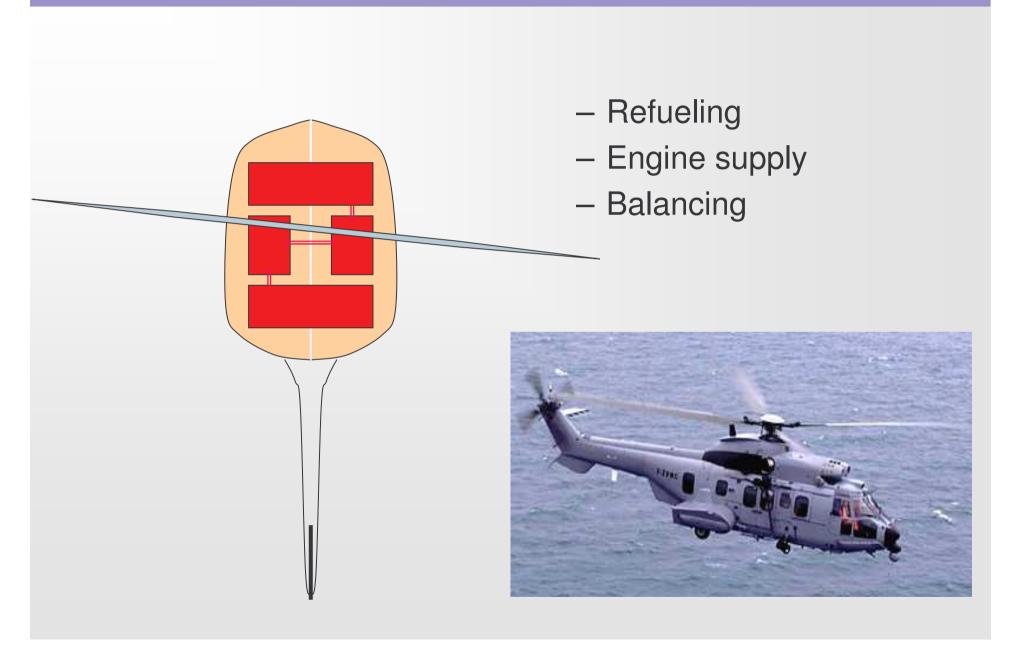
José María Girón-Sierra Juan Fran. Jiménez Carlos Insaurralde Miguel Seminario

Context

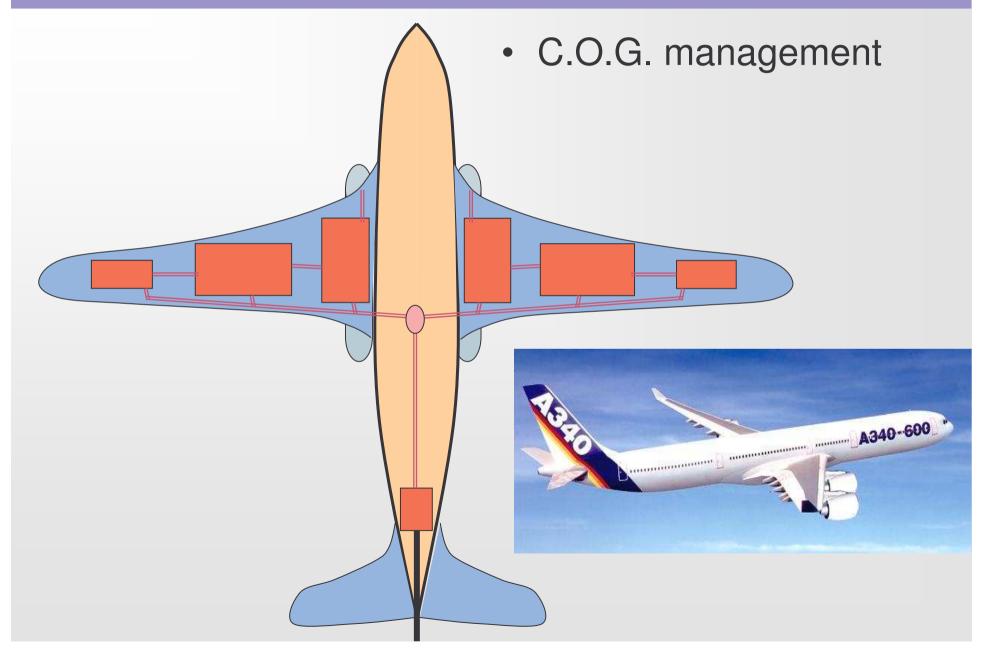


- **European Project**
- A new distributed aircraft fuel system
- Smart components
- Reconfiguration capabilities

Helicopter Fuel System

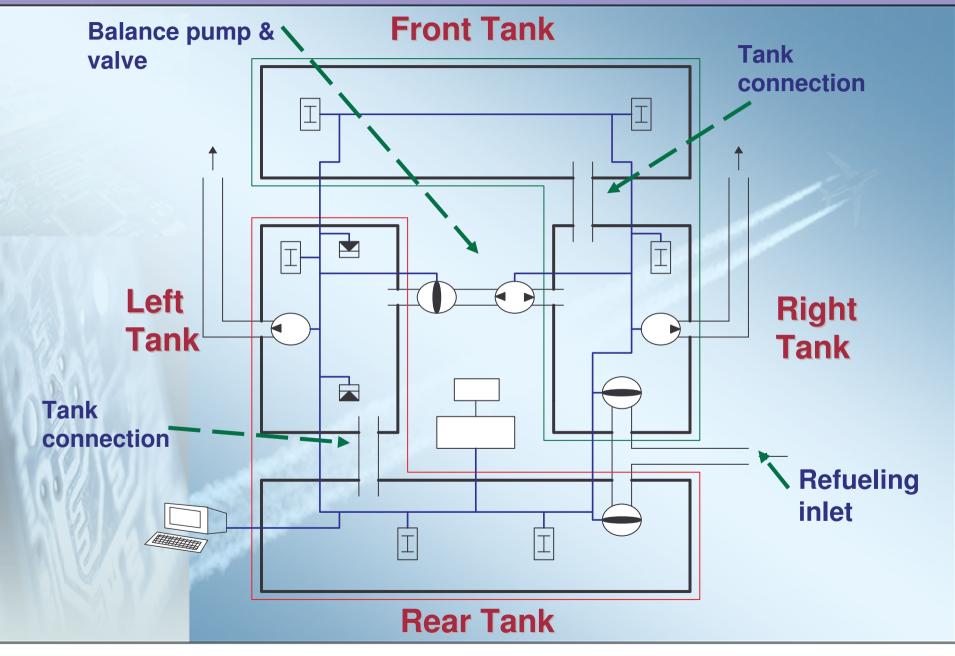


Airplane Fuel System



Aspects of the Develoment State-Vector Communication Protocol CANbus technology Smart Smart Smart Smart **Smart** Sensor Valve Valve Sensor Pump **Smartness Common Core** Human Interface

Helicopter FMS Detail



F

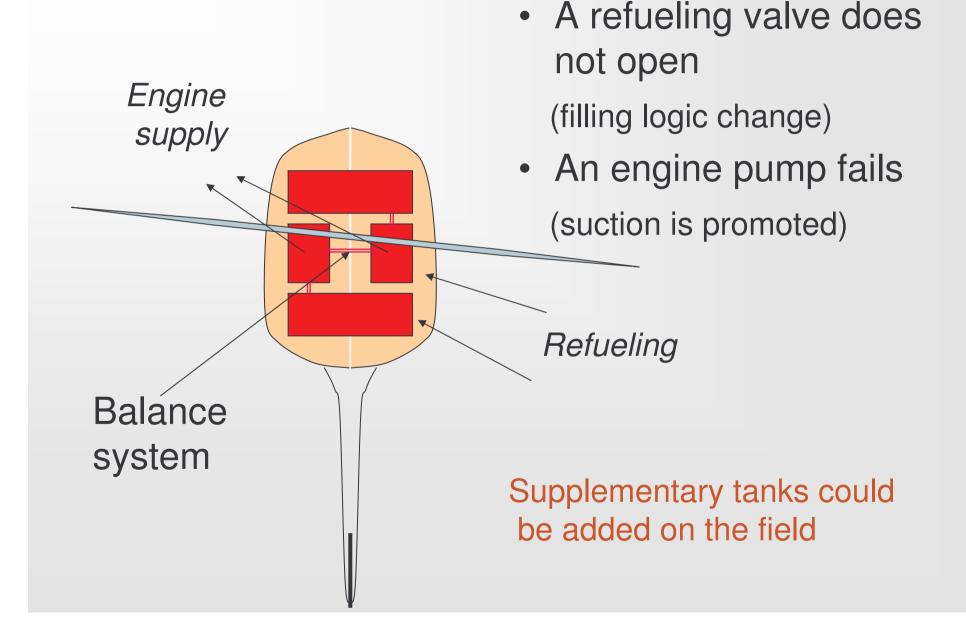
Lab. Physical Simulator (Heli)



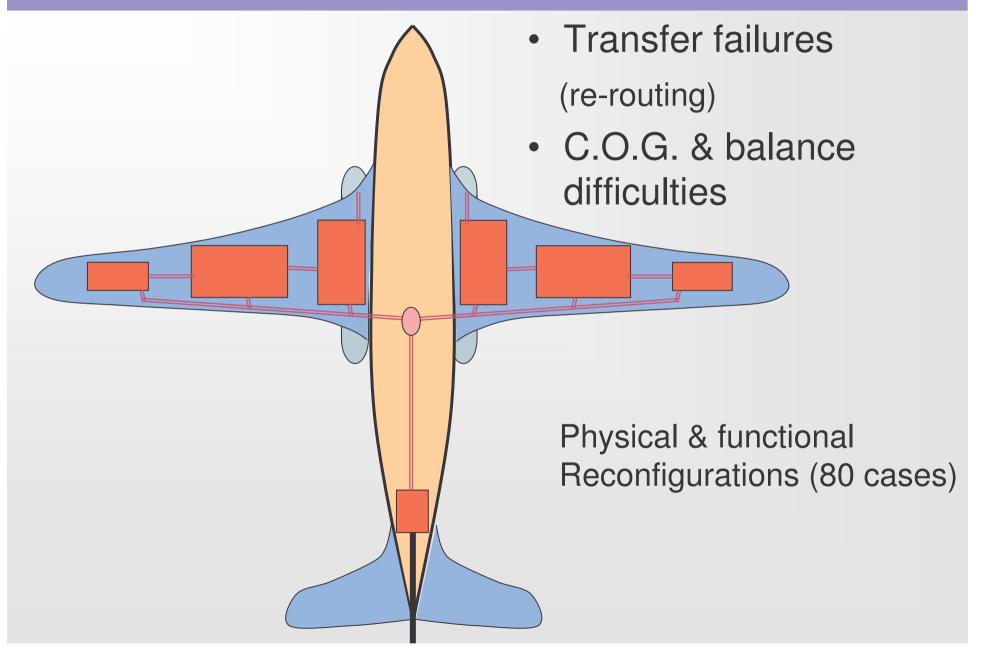
Lab. Physical Simulator (Plane)



Helicopter FMS Reconfigurations



Airplane FMS Reconfigurations



Experimental rig (helicopter)



Experimental Rig (helicopter)

