

## Evaluation of a Deterministic Ethernet Network

**Objectives:** Get full confidence and enable deployment of Ethernet Time Sensitive network (TSN) as embedded network for multi domains architectures (aeronautic, spatial and automotive)



With Airbus, Airbus D&S, Continental, CNES, SAFRAN ED, Thales Alenia Space, Thales Avionics, IRT, ISAE, ONERA



3 M€



36  
months



10  
Members

## Key Results

### ***Define the use of TSN standard for temporal determinism and redundancy (with mixed criticality)***

Guideline for configuring network service in accordance with safety and availability requirement

### ***TSN profile standardization proposals***

Multi-domain hardware specification for Switch / End-point COTS component.

### ***Toolset for development and certification of Embedded Network Architecture***

Simulator, TSN configuration generator and formal verification (Network Calculus)

### ***Electrical and Electronic Architecture Proof of Concept Platform***

Operational demonstrator, Platform for network application benchmarking, Ground for others research projects

