The SMMART integrated R&D project was launched in November 2005. It is planned to run for 3 years with an overall budget of around 25 millions €, co-funded by the European Commission. Coordinated by Turbomeca, the project involves 27 companies and institutions from across Europe.

**SMMART Overall Objectives**

The SMMART project aims at defining a new integrated concept to answer the maintenance challenges of the transport industry – aeronautics, road transport, marine transport:

- **To reduce the time and cost for scheduled and unscheduled maintenance inspections of increasingly sophisticated and complex products.**
- **To remotely provide the adequate up-to-date information** to assist the mobile workers in all their tasks **wherever they operate.**
- **To minimise the cost penalties of unscheduled downtime** on large transport fleets.

**SMMART Contacts**

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More about SMMART

SMMART Concept Overview

Collection of usage data

Mobile worker → Tags Reader → Satellite

Customer → Local repair centre → Engine repair

Components repair → Mobile worker

SMMART Project Key Challenges

To monitor in **real-time** the usage and maintenance data **throughout the life-cycle** of critical sub-assemblies of a vehicle.

To **optimise maintenance management** through a worldwide network.

To provide **new services**: advanced troubleshooting tool, global configuration control, resource planning tool.

To **remotely exchange information** between all life-cycle stakeholders in a **timely, secure and trusted environment**.

To provide **end-to-end visibility** of the logistic supply chain.

To improve **industrial and logistic traceability**.

To optimise **maintenance and logistic planning**.

To further improve **transportation safety**.

SMMART Technical approach

The technical approach of SMMART is based on the combination of:

- **Smart items** capable of operating and communicating wirelessly in the **harsh environment** of a vehicle’s propulsion unit.

- **Re-engineered business processes** addressing technological, organisational and social aspects to support the SMMART concept implementation within the end-user community.