



space solutions

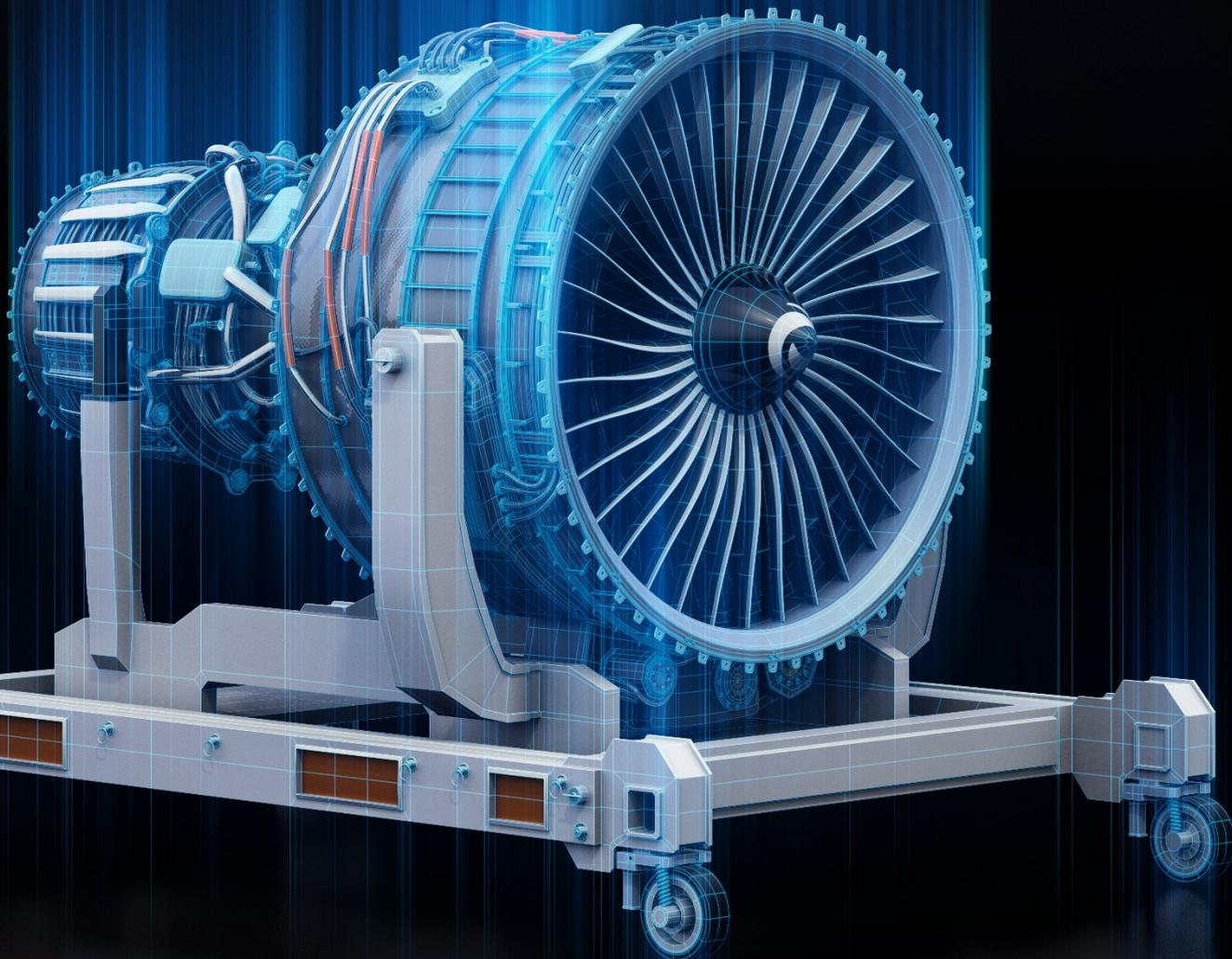
business  
applications

## → FUNDING & SUPPORT OF SPACE ENABLED PREDICTIVE MAINTENANCE SERVICES

Funding up to €60K per Activity

Opening date: 09/12/2019

Closing date: 31/01/2020



## → SPACE ENABLED PREDICTIVE MAINTENANCE SERVICES

Organisations are under pressure to optimise operations and reduce costs for asset maintenance. Predictive maintenance techniques determine the condition of in-service equipment to predict when maintenance should be performed, thereby minimising disruption of normal system operations. This leads to reduced down times and therefore substantial cost savings and higher system reliability. Machine learning and Industrial Internet of Things are the backbone of efficient predictive maintenance. The exploitation of space-based data in combination with those technologies can be of substantial value and open new opportunities to develop applications related to predictive maintenance. The European Space Agency offers technical support and funding to companies developing innovative and commercial space-enabled services for predictive maintenance.

## → KEY AREAS OF INTEREST INCLUDE

- **Predictive Maintenance in Manufacturing:** Early fault detection and diagnosis, intelligent analysis sensor data analysis and maintenance planning.
- **Predictive Maintenance in Railways:** remote condition monitoring of mobile assets and infrastructure, warnings to prevent asset failure and service disruptions, input fleet management and service planning.
- **Predictive Maintenance in Oil & Gas:** remote condition monitoring, digital twins of offshore equipment for diagnostics, impact assessment and training.
- **Predictive Maintenance for Automotive and Connected Cars:** condition monitoring, maintenance planning, spare part logistics and fleet management.
- **Predictive Maintenance in other sectors:** energy sector, vessel maintenance in maritime sector, aerospace, construction and heavy machinery.

## → WHAT WE OFFER



Zero-Equity Funding  
up to €60K per Activity



Access to our  
Network & Partners



Technical & Commercial  
Guidance



Brand Credibility

## → WHAT WE LOOK FOR

- ✓ Motivated teams with business and domain expertise
- ✓ Attractive market opportunities and customer engagement
- ✓ Commercially viable service concepts
- ✓ Technically feasible solutions enabled by Space

### Apply Now!

For further information, go to: [business.esa.int/](https://business.esa.int/)

Official tender documentation: ESA EMITS ([emits.esa.int](https://emits.esa.int/)), AO/1-10127

Submission period: 9<sup>th</sup> December 2019 – 31<sup>st</sup> January 2020 13:00 CEST

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