United Nations International Meeting on the Applications of Global Navigation Satellite Systems - GNSS application for SDGs and g-warming

Vienna 7th December - ICG AppSG

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EUSPA for sustainable development

• Promoting sustainability is a top priority for the European Union (EU 'Green Deal').

• The European Union Agency for the Space Programme, EUSPA, manages the EU's GNSS (Galileo and EGNOS) and earth observation (Copernicus) programs and provides support for research and development projects and business start-ups. The Agency is particularly interested in initiatives that exploit EU space services.

• We have many concrete examples, at the level of the program and projects that we implement, demonstrating the EU Space Program's support for the Green Deal strategy.
EU Space for Green Deal and SDG’s

• Supporting Green Transformation: aligning EU climate strategy with the United Nations’ 2030 Agenda, the Paris Agreement and the Sustainable Development Goals (SDGs).

• The European Green Deal and its objectives require data-driven approaches and methods for proper implementation and monitoring.

• Many variables impacted by the Green Deal can be effectively measured by Earth Observation data and accurate positioning data provided by the global navigation satellites systems (GNSS).
Sectors addressed by Green deal

- Make buildings greener
- Supply clean energy
- Make transport sustainable
- Restore ecosystems and biodiversity
- Ensure a just and inclusive transition

Achieve climate neutrality
Work with nature to protect our planet
Lead the Industrial Revolution
Build a healthier, greener food system
Boost climate spending

Relevance for industry
- Low-carbon technologies driving the future economy
- Higher environmental risk awareness and mitigation by industry
- More transparent sustainability reporting

Example of sectors addressed by the Green Deal
- Sharing economy
- Resource efficiency
- Atmosphere monitoring
- Agriculture
- Waste management
- Clean energy
- Location based services
Green deal applications

• Clean farming: GALIRUMI project for herbicides use reduction increasing the profitability and sustainability of dairy farming. [https://www.galirumi-project.eu/](https://www.galirumi-project.eu/)

• Clean energy: Easy PV project. It uses EGNOS/Galileo-capable drones to support maintenance of photovoltaic [PV] plants. EASY PV solution is conceived to build up an automatic system for acquiring, georeferencing and processing both visible and thermal images captured by an RPAS equipped with a Galileo/EGNOS high accuracy receiver, flying over a photovoltaic field. In this way it is possible to easily (i.e. automatically, with safety improvement for operators and saving time) detect the defective module to be replaced.
Space is a key enabler to efficient, sustainable and environmentally friendly mobility solutions for EU.

**Smart cities, ports and airports**
- Optimised traffic management
- Automation of operations

**Sustainability**
- Emissions monitoring
- Intelligent routes

**Digitalisation**
- Intelligent logistics
- Virtual reality

**Autonomous vehicles**
- New mobility schemes
- New transport infrastructure
- New traffic management systems

Across all transport modes: Aviation, Drones, Maritime and Inland Waterways, Rail, Automotive

Towards European Green Deal Objective: 90% reduction in transport-related greenhouse gas emissions by 2050.
The European Union Agency for the Space Programme is hiring!

Apply today and help shape the future of #EUSpace!