



Eurisy: Bridging space and society

Dominique Tilmans, Eurisy President

United Nations/United Arab Emirates High Level Forum
“Space as a driver for socio-economic sustainable
development”

20 – 24 November 2016, Dubai, United Arab Emirates

**1 100 active satellites are currently orbiting
around the Earth.....**



Note: Artist's impression; size of debris exaggerated as compared to the Earth

... Providing information that can be useful in a number of sectors

Satellite applications can contribute to the achievement of all SDG for 2030

Why isn't their potential fully exploited?

Lack of available usable data

Difficulties to procure satellite-based services (availability, infrastructure and costs)

Lack of accessible communication



Eurisy works for the democratisation of space-based services

A non-profit association connecting space and society

[read more >](#)[About Eurisy](#)[From the Blog](#)[Survey](#)[Good practice](#)[Eurisy Conference](#)

PUBLIC AUTHORITIES

Eurisy informs regions and cities across Europe on the opportunities of satellite applications as tools to support regional social, economic and environmental policies.



SMEs

Eurisy helps SMEs evaluate how operational satellite applications can support them in improving business processes, enhancing their existing products and services, or creating new ones.



SPACE COMMUNITY

Eurisy works with the space community (agencies, industry, service providers) to involve them in a dialogue about how space developments can best support users in their current societal challenges.



MEMBERS

Eurisy's activities are mandated and financed by its members: most European space agencies. Eurisy's members shape space policies and influence investments in space infrastructure.

Non-for-profit
funded in 1994

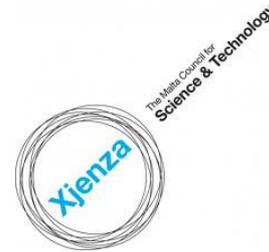
Based in Paris

Members:
governmental
space agencies
and offices

eurisy ACTING COLLECTIVELY

Full Members

Associate Members



OUR OBJECTIVES



Communicating on available satellite-based services

Raising awareness on services which are already operational



Mapping available satellite-based services

Understanding users' needs, challenges and motivations



Collecting direct testimonials from user organisations: public administrations, private companies and NGOs

Giving feedback to decision makers to accelerate the uptake of the services

HOW DO WE WORK?

Growing pool of 200 direct testimonials from 38 countries



Environment, climate and health

Energy, infrastructure and utilities

Communication and digital society

Tourism, culture and leisure

Transport and logistics

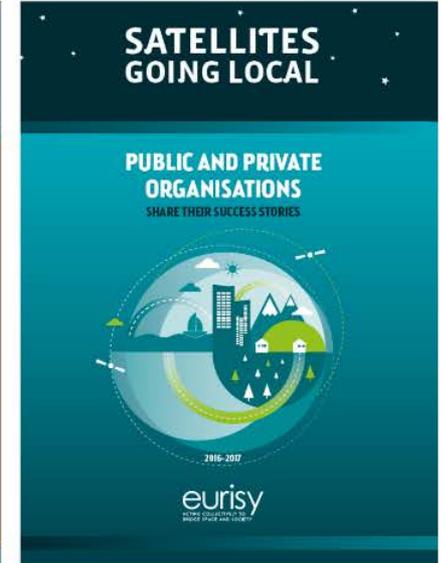
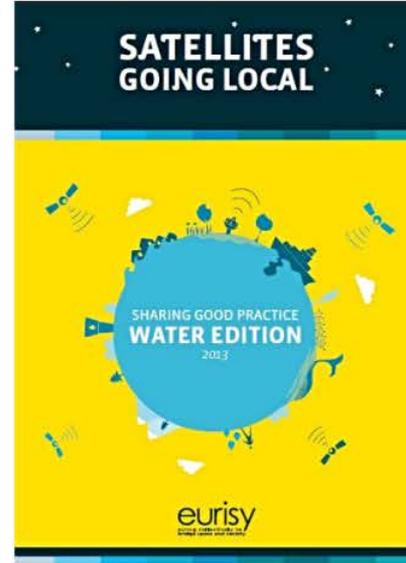
Smart cities

Risk management and emergencies

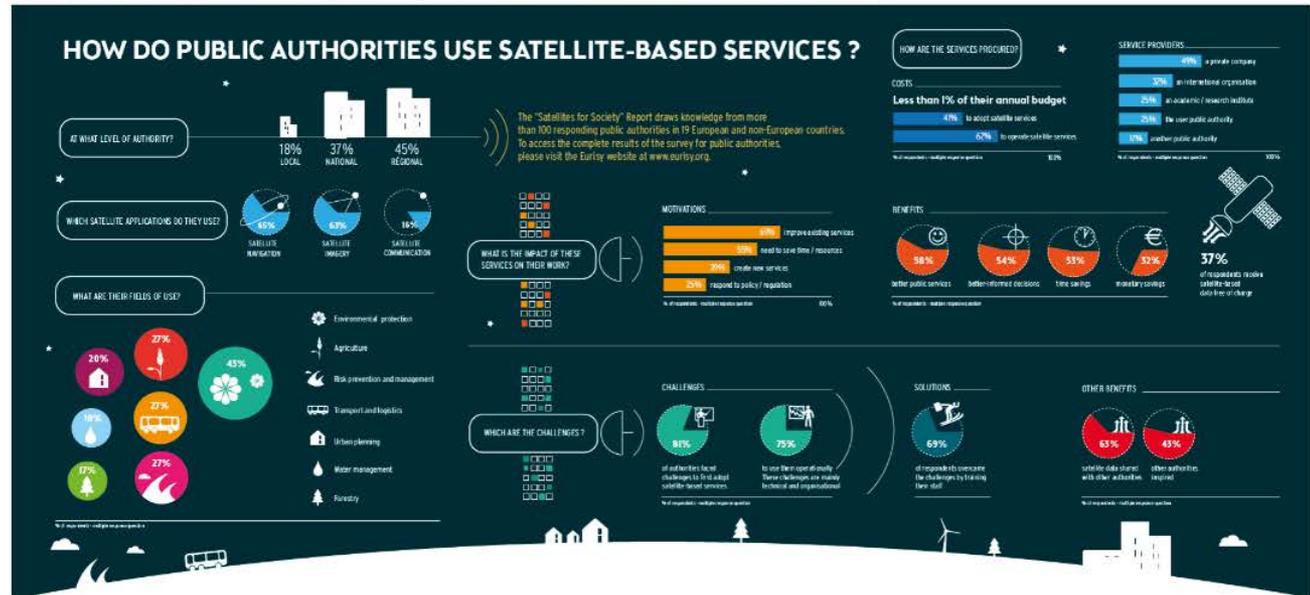
Agriculture, forestry and fisheries



Publications based on direct end-user testimonials



Survey for public authorities



Awareness raising events

In collaboration with space organisations and user communities

Eurisy conferences

Collaboration in partners' events

27 OCTOBER 2016
BERCHTESGADEN

SATELLITE APPLICATIONS FOR THE ALPS

EURISY CONFERENCE

Logos: IDMA, Invest in Bavaria, FSK, devAIRia, SATELLITE NAVIGATION, DLR, FFG, TeleOrbit, cnes

United Nations/United Arab Emirates - High Level Forum:
Space as a Driver for Socio-Economic Sustainable Development
Dubai, United Arab Emirates, 20 - 24 November 2016

Burj Khalifa, Dubai Mall and Mohammed Bin Rashid Boulevard - Dubai, UAE
1 meter pansharpened image captured by DubaiSat 2

WARSAW
19 APRIL 2016

SATELLITES FOR SOCIETY USER FORUM POLAND

Ministry of Economic Development, PARP, esa, POLSKA AGENCJA KOSMICZNA

WHEN SPACE MEETS AGRICULTURE

Fostering interregional collaborations, investments and definition of user requirements

14 - 15 November 2016 | Matera, Italy

Join the conversation #WSMA16

with the collaboration of nereur, TERN, copa*cogeca, and the support of ERIAFF Network

Capital High Tech

20 MAY 2016
BAYONNE, FRANCE

OUTDOOR SPORTS

SURFING AVANT-GARDE SATELLITE SOLUTIONS

EURISY CONFERENCE

Logos: ESTIA, EuroSIMA, cnes, esa, EUROPEAN SPACE IMAGING, ESA/ESM

Joint OECD-ESA Workshop -
Innovation Drivers in Downstream
Space Activities

9 - 10 June 2016

ESA/ESM, Paris, France; Newell Gardner, ESA/ESM; DMTI GFD; United Kingdom

OECD, esa

REGIONS, CITIES AND SMES SHARE GOOD PRACTICES [Go to page >](#)

<http://www.eurisy.org/>

Pioneering local and regional authorities and SMEs from across Europe already use satellite applications in their daily job. For the last seven years Eurisy has been collecting testimonials on how satellite applications have helped them in practice. Click on the map to see some success stories!

[view larger map](#)

REGIONS, CITIES AND SMES SHARE GOOD PRACTICES

Go to page >



- > Environment, climate and health
- > Energy, infrastructure and utilities
- > Communication and digital society
- > Tourism, culture and leisure
- > Transport and logistics
- > Smart cities
- > Risk management and emergencies
- > Agriculture, forestry and fisheries

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You Are Here: [Home](#) // [Good Practices](#) // Forest company Vojvodinasume: sustainable forest management and reforestation through satellite imagery

Forest company Vojvodinasume: sustainable forest management and reforestation through satellite imagery



Year of update: 2016 | Country: Serbia | Sectors of application: Agriculture, forestry and fisheries | Technology: EO | User type: Public - local, regional






The forest company

Located in Northern Serbia, the Vojvodina region spans over 2,150,000 ha. It is predominantly a flat farming region. Forest covers 7% of its surface, i.e. about 154,000 ha. Vojvodinašume is the public entity in charge of 65% of the region's forests and forest land, of which over half are protected areas. It manages four forestry estates along with a fifth section dedicated to hunting tourism.

As the forests are mainly concentrated around river basins, the organisation also supports the implementation of the EU Water and Floods Directive and Natura 2000 regulations in view of its proximity to the EU.

Plan

Satellite



Database of user testimonials

Welcome to Europe's largest resource of pioneering users' testimonials on operational satellite applications

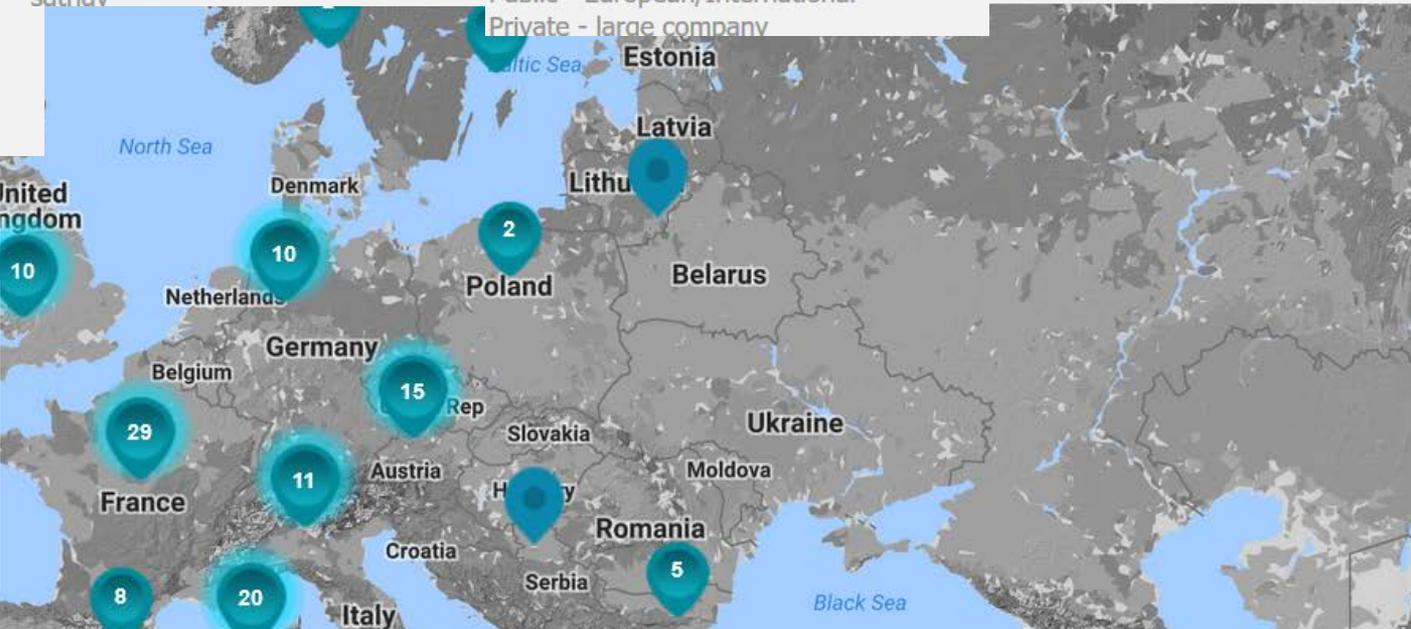
Pioneering public authorities, agencies and SMEs from across Europe share their hands-on experience, to inspire their peers to follow suit. It is not about the technology; it is about how end-users make it work for them.

- Sector of application - - Technology - - Type of user - Search by keywords 

- Sector of application -
 - Environment, climate and health
 - Energy, infrastructure and utilities
 - Communication and digital society
 - Tourism, culture and leisure
 - Transport and logistics
 - Smart cities
 - Risk management and emergencies
 - Agriculture, forestry and fisheries
- Technology -
 - EO
 - satcom
 - satnav
- Type of user -
 - Public - local, regional
 - Private - SME
 - Public - European/International
 - Private - large company

Map

- Country -
- Austria**
 - Belgium
 - Bulgaria
 - Czech Republic
 - Denmark
 - Estonia
 - Ethiopia
 - Finland
 - France
 - French Guiana
 - Germany



- Sector of application - - Technology - - Type of user - Search by keywords [Q]

- Country - **Search** Reset search

Map Satellite

Ideas for future evolution:

- Enlarge database of user testimonials
- Map all operational satellite-based services
- Continue promoting knowledge exchange
- Set up a more comprehensive portal to share knowledge on operational satellite-based services

Conference on Satellite Applications for Health and Ageing

Satellite data and signals can help ensuring healthy lives and promoting well-being for all at all ages



Indicative sub-themes:

- ★ Remote and autonomous healthcare
- ★ Healthy lifestyle promotion
- ★ Urban planning and mobile reporting for safety and accessibility
- ★ Epidemics monitoring and prevention
- ★ Remote assistance and guidance to the elderly and persons with disabilities
- ★ Reactivity, mobility, communication and coordination in emergency contexts

Satellite-based services in use to build smart sustainable cities: a case study analysis

Objectives:

- ★ Identify areas in which satellite-based services can make cities inclusive, safe, resilient and sustainable
- ★ Analyse success stories
- ★ Evaluate the transferability of good practices in other cities.



DIMENSIONS

Environment
and climate
change

Integral urban
development

Governance

DELIVERABLES

List of available
satellite
applications

9 Case Study
Reports

User Forum to
discuss
transferability

Satellite-based services in use to build smart sustainable cities: a case study analysis

11 SUSTAINABLE CITIES AND COMMUNITIES



Goal 11: Make cities inclusive, safe, resilient and sustainable



Satellite applications can contribute reaching many of the targets of SDG 11.

How? Let's have a look at some examples.....

City of Diemen (The Netherlands): Coping with soil resilience with the support of satellite imagery

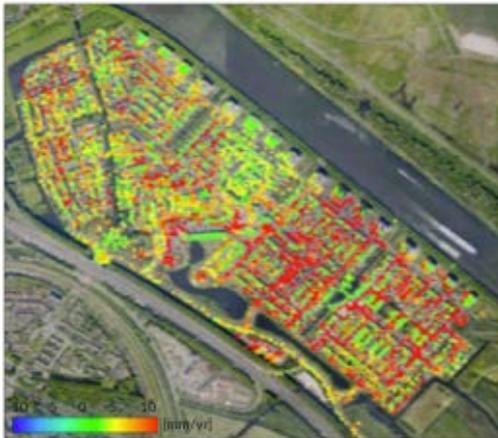


City of Diemen (The Netherlands): Coping with soil resilience with the support of satellite imagery



In 2011, the Department of Infrastructure ordered a **city-wide deformation map based on satellite imagery** from a local company.

Over 100 radar images recorded by ESA satellites from 1992 to 2010 were used.



The map shows subsidence in millimetres for specific locations, allowing the Municipality to prioritise maintenance where most needed.

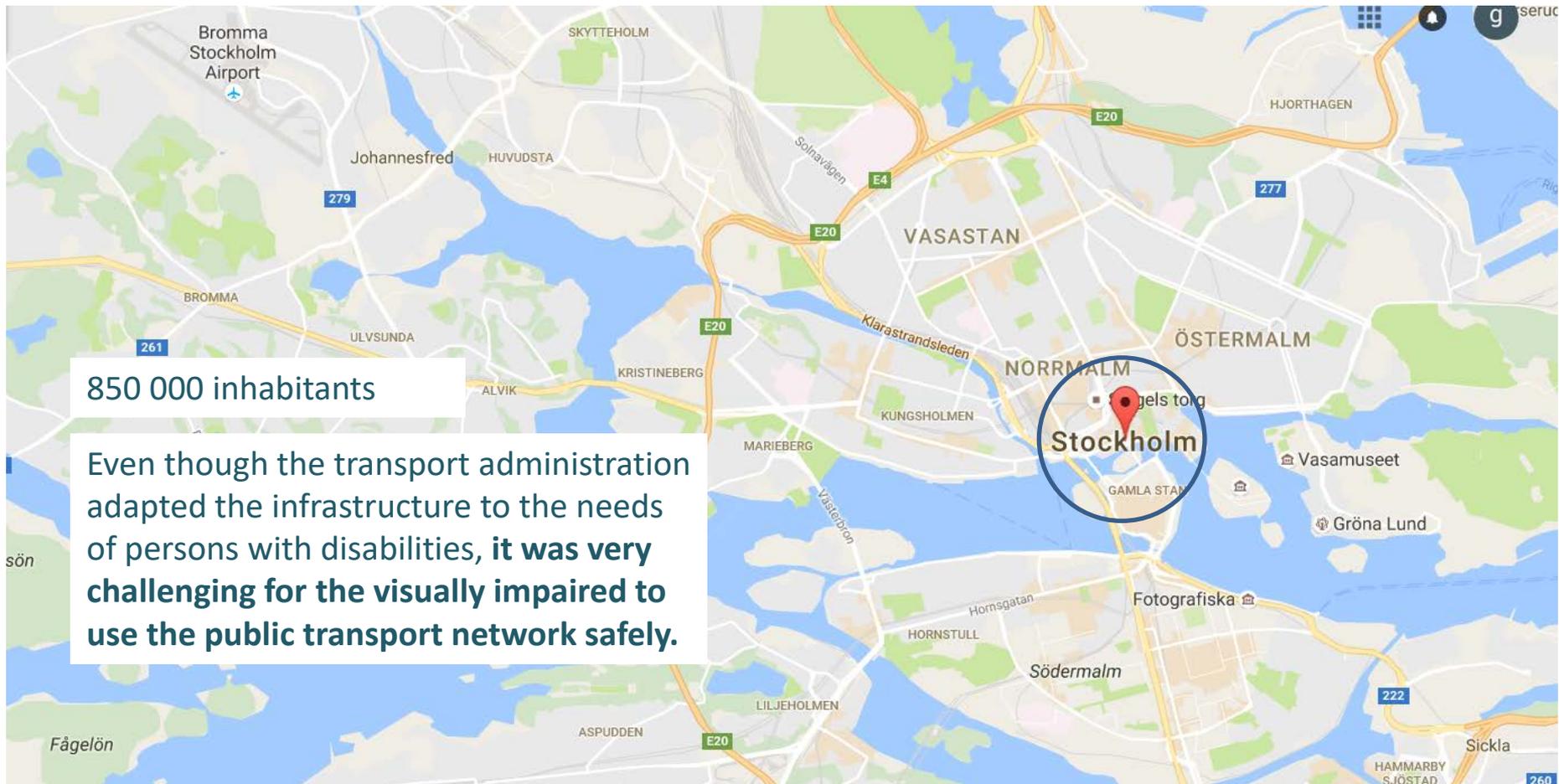


The map cost EUR 10.000

To assess soil resilience with field measurements would have cost ten times more

SDG 11 Target: By 2030, significantly **reduce the number of deaths and the number of people affected** and substantially decrease the direct economic losses relative to global gross domestic product caused **by disasters, including water-related disasters**, with a focus on protecting the poor and people in vulnerable situations

Stockholm (Sweden): Improving accessibility for persons with disabilities with the support of satellite navigation



850 000 inhabitants

Even though the transport administration adapted the infrastructure to the needs of persons with disabilities, **it was very challenging for the visually impaired to use the public transport network safely.**

Stockholm (Sweden):

Improving accessibility for persons with disabilities with the support of satellite navigation



Stockholms stad

The city's Traffic Administration, in collaboration with other entities developed **e-Adept**

By means of a **mobile phone**, a **GPS receiver** and other navigational equipment, the device can communicate with the City's local road database in which a digital pedestrian network is stored.

The pedestrian network gives the user guidance on the whereabouts of pedestrian crossings, excavation works, steps and other things which people need to be told or warned about along the way.



SDG 11 Target: By 2030, provide access to safe, affordable, **accessible and sustainable transport systems for all**, improving road safety, notably by expanding public transport, with special attention to the **needs of those in vulnerable situations**, women, children, persons with disabilities and older persons

... Some more applications of satellite information and services ...

Environment and climate change



Sat Nav to track and plan bin collection



EO to measure Urban Heat Islands

Integral urban development



Sat Nav for intermodal transport

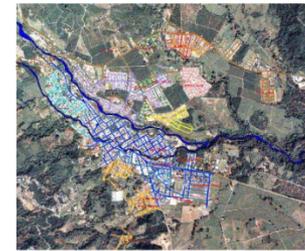


Satellite imagery to monitor green volume

Governance



Sat Nav for collective urban planning



EO data to enhance cadastral transparency

To reach the SDG we must use all available tools

Satellites provide us with information and enables services which were unimaginable 20 years ago



To fill the gap between space and society we need to improve our communication on operational satellite-based services to public and private users and facilitate procurement

Thank you!



Contact us to know more
about Eurisy's activities
and exchange your
experience

www.eurisy.org

Dominique Tilmans, Eurisy President
dominique.tilmans@eurisy.org