



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

It's obvious: Satellite applications can contribute to the achievement of all SDG for 2030

But: Why isn't their potential fully exploited?

- > Lack of available usable data
- > Difficulties to procure satellite services (availability, infrastructure, costs,...)
- > Difficulties to draw up specifications.
- > 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



Mapping available satellite-based services



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

Raising awareness on services which are already operational

Understanding users' needs, challenges and motivations

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

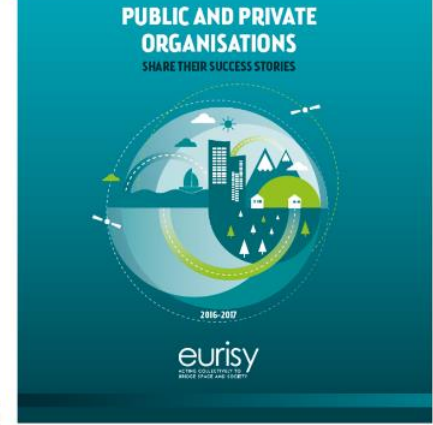
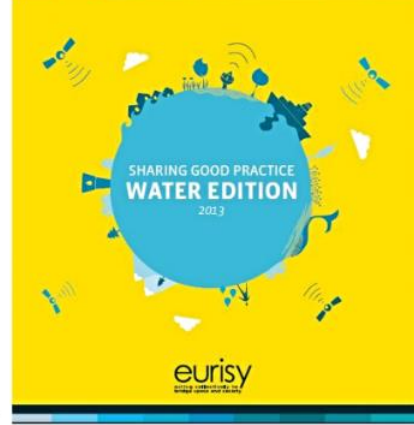
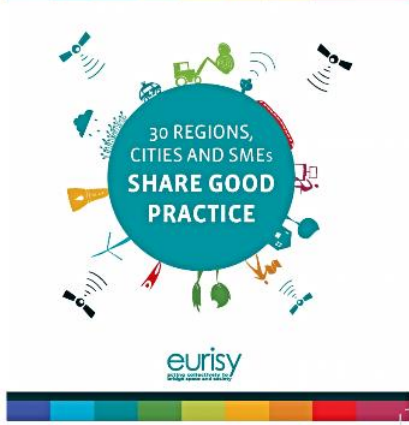
Smart cities

Risk management and emergencies

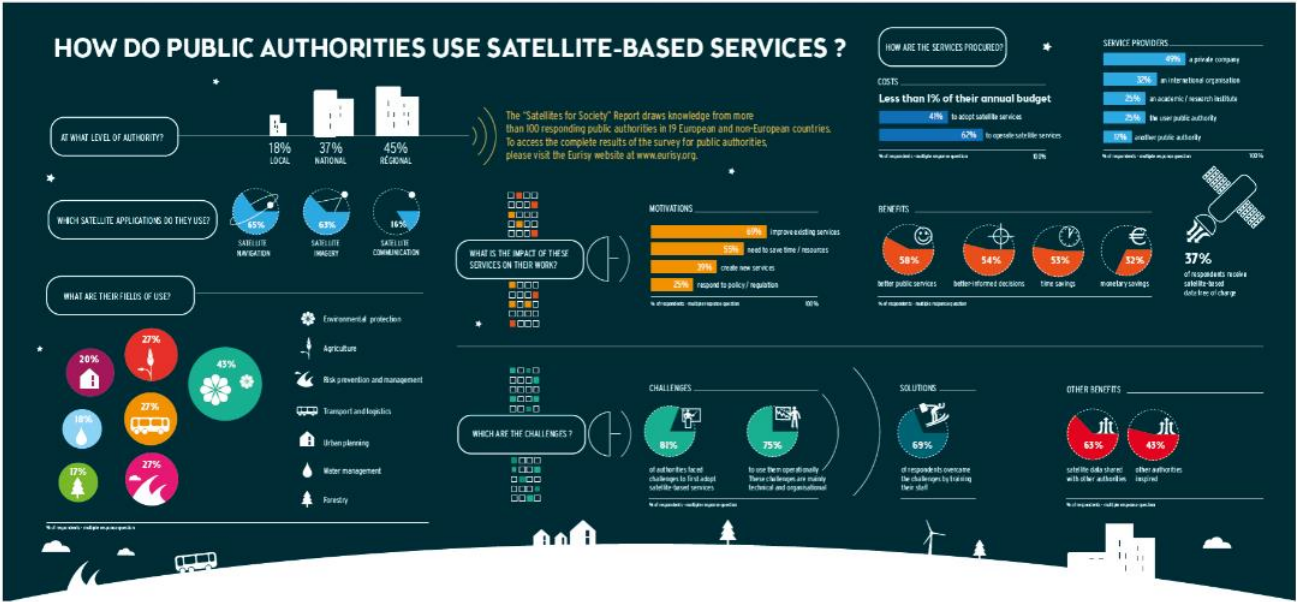
Agriculture, forestry and fisheries



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: IDA, Invest in Bavaria, FSK, devAIRis, 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 pan-sharpened image captured by DubaiSat-2

WARSAW 19 APRIL 2016

SATELLITES FOR SOCIETY USER FORUM POLAND

Logos: 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

Logos: REGIONE BASILICATA, nereur, ERN, copa*cogeca, ERIAFF Network

OUTDOOR SPORTS EURISY CONFERENCE

20 MAY 2016 BAYONNE, FRANCE

SURFING AVANT-GARDE SATELLITE SOLUTIONS

Logos: Capital High Tech, ESA, EuroSIMA, cnes, esa, AIRCRAFT SPACE IMAGING, ESA

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

9 - 10 June 2016

Logos: ESA, OECD, esa

Database of user testimonials

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

Plan Satellite

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

Central Command for Maritime Emergencies: monitoring sea pollution on German coasts using satellite information

Antwerp: a traffic scenario assessment service to monitor air quality in the city

North Rhine-Westphalia: monitoring air quality

Danube River Basin: Flood risk maps for an integrated mitigation

Arno River Basin Authority: monitoring of hydro-geological phenomena using satellite imagery

The SOAEL cooperative: sparing fertilisers thanks to satellite information

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 >

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

[f](#) [g+](#) [t](#) [in](#)

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

eurisy.org/

Get a roundup of all our stories and upcoming events about once a month.

subscribe

Pioneering local and regional daily job. For the last helped them in practice

20/11/2016

Eurisy: Bridging Space and Society

Panel 2: Making a difference: Working Together Towards Sustainable Space

Database of user testimonials

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

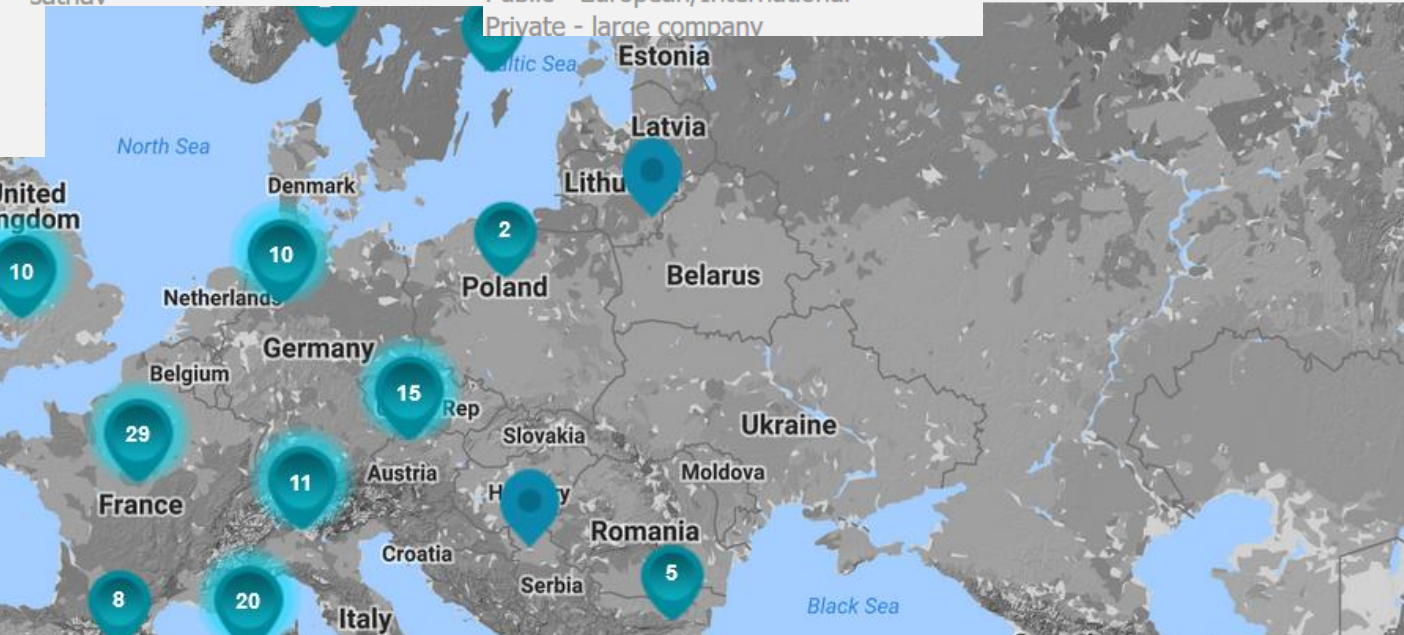
Pioneering public authorities, agencies and SMEs from across Europe share their hands-on experience, to inspire their peers to follow suit. It is not about the technology; it is about how end-users make it work for them.

- 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

- Country - **Search** Reset search

Ideas for future evolution:

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

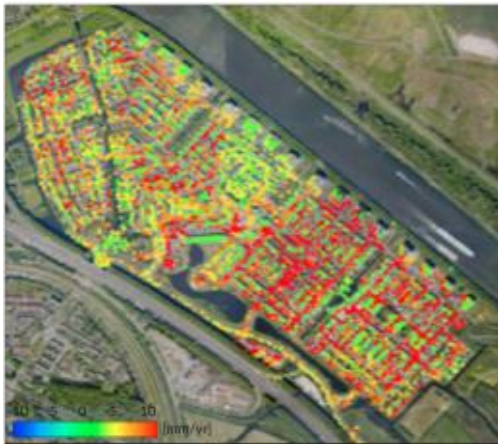


City of Diemen (The Netherlands): Coping with soil resilience with the support of satellite imagery



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.

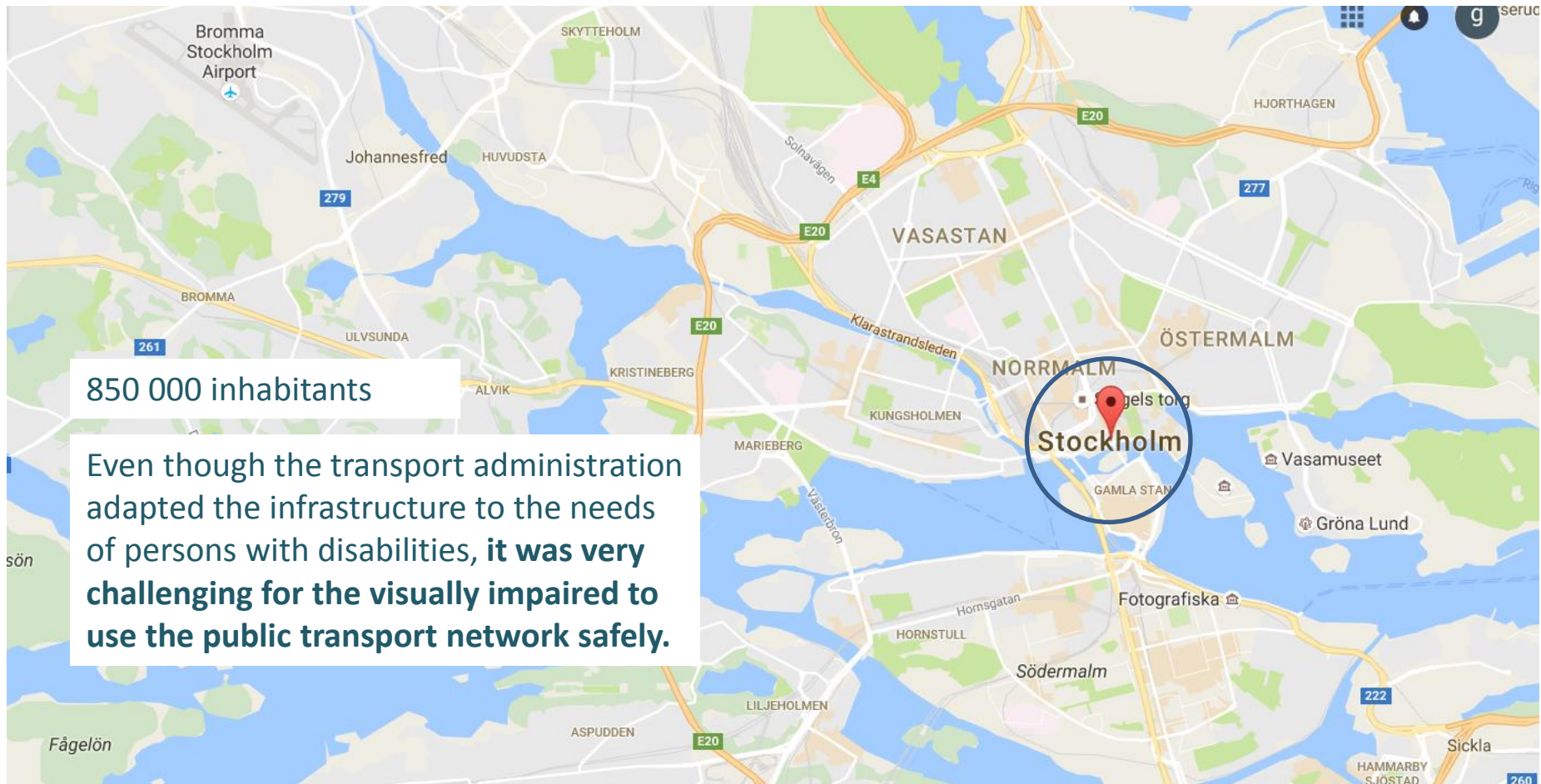


The map cost EUR 10.000

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



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

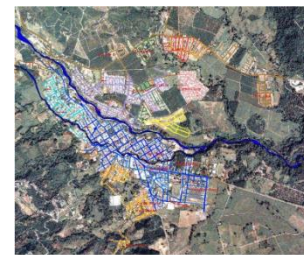


Satellite imagery to monitor green volume

Governance



Sat Nav for collective urban planning



EO data to enhance cadastral transparency

To reach the **SDG** we must use all available tools!!

We'll never explain enough that satellites:

- . Help to make decision
- . Give solutions
- . Are less expensive
- . Personal gain
- . Save time for management
- . Provide information and services unimaginable 20 years ago

To fill the gap between space and society we need to improve **our communication. Not technical but accessible to the end-users!**

A priority!!!!



Thank you!



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

www.eurisy.org

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