



# TANGO

Telecommunications Advanced  
Networks for GMES Operations

## IDENTIFYING THE NEEDS FOR SATELLITE TELECOMMUNICATION

The TANGO project focuses on the use of satellite telecommunication solutions to serve the needs of the Global Monitoring for Environment and Security (GMES) community. It aims at supporting their future operational information services and the associated end-users when expressing their telecommunication needs in the domain of risk and crisis management, maritime services, land cover, atmosphere, security and humanitarian aid.

With a large involvement of GMES key players, TANGO implements a bottom up approach to identify the requirements to further adapt, develop, integrate and demonstrate satellite telecommunication innovative solutions. The TANGO solutions are developed to meet various needs, such as improved and faster data collection, fast data dissemination, provision of GMES data products to the end-users, early warning systems and ad-hoc networking.

## TANGO COMMON TELECOMMUNICATION SERVICE PLATFORM (CTSP)

The project is developing TANGO "Common Telecommunication Service Platform", a unique interface for GMES service providers, which will enable fast access to various telecommunication solutions and optimise capacity sharing among the GMES users. The project will define the conditions for an operational exploitation of the TANGO platform, based on adequate partnership.

TANGO demonstrations will contribute to marine and emergency response core services. Demonstrations will also integrate satellite telecommunication solutions with on-going developments in the framework of risk and crisis management, fisheries management, maritime surveillance, support to humanitarian aid and security. This covers the generic demonstrations planned within TANGO, and actual support to other GMES projects demonstrations. In both cases, TANGO will bring to the GMES service providers the telecommunications and CTSP offer.

The interfaces between the CTSP and the telecommunication solutions adapted within the project are defined. The core functions of the CTSP prototype are specified. A prototype will be used during specific demonstrations to validate key objectives: cost reduction and facilitated access to telecommunications solutions.

TANGO has completed the collection of telecommunication requirements through contacts with major GMES projects. A systematic approach for assessing the needs has been established, relying on the definition of a clear and agreed terminology and TANGO reference architecture. The requirements were added to a database through a dedicated web interface developed within the project. As a result, a public document summarising the key benefits expected from telecommunications in the various themes is now available.



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## LIST OF PARTNERS

- EADS ASTRIUM SAS, France
- United Nations Operational Satellite Applications programme (UNOSAT), International Organisation
- European Union Satellite Centre (EUSC), International Organisation
- Joint Research Centre (JRC), International Organisation
- Avanti Communications Ltd, UK
- Synoptics Integrated Remote Sensing & GIS applications BV – Microsoft, The Netherlands
- Centre National d'Etudes Spatiales (CNES), France
- Infoterra GmbH, Germany
- SES Astra S.A., Luxembourg
- SPOT IMAGE S.A., France
- Politecnico Di Torino (Turin Polytechnic University), Italy
- Collecte Localisation Satellites SA (CLS), France
- Worldspace France, France
- Univerzita Karlova v Praze (Charles University), Czech Republic
- EADS Security Networks, France
- NEWTEC CY N.V., Belgium
- Netherlands Organization for Applied Scientific Research (TNO), The Netherlands
- SkyCat Group Limited, UK
- SpaceChecker N.V., Belgium
- Navigs SARL, France
- INESC INOVACAO Instituto de Novas Tecnologias (INOV), Portugal
- INFOTERRA France SAS, France
- POLITECHNIKA POZNANSKA (Poznan University of Technology), Poland
- Space Research Centre, Poland

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## PROJECT INFORMATION

TANGO: Telecommunications Advanced Networks for  
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Integrated Project

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