

MEDEO

Methods and tools for dual access to the EO databases in the EU and Russia.

EU AND RUSSIA, OBSERVING OUR PLANET TOGETHER

Earth observation (EO) is a driving force for innovation, with growing market opportunities. Yet currently, technical barriers challenge the efficient exchange of valuable EO data sets between Russia and the EU. The MEDEO project seeks to bridge this divide.

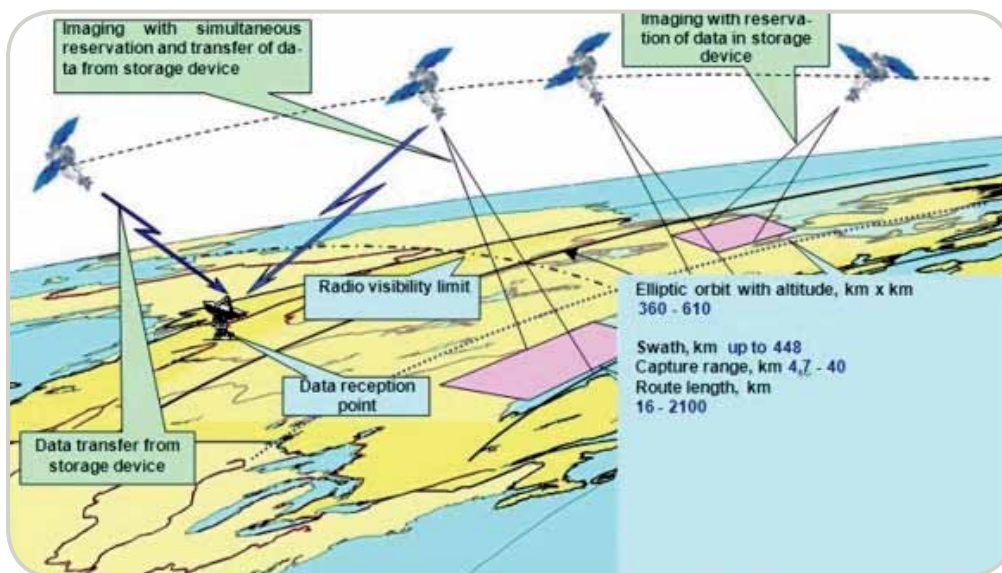
European and Russian satellites orbit our planet every day, obtaining valuable information about the state of the Earth, which are useful for a great deal of societal applications, from crisis management to agricultural monitoring. Yet, whilst looking at the same planet – our Earth - Europe's and Russia's eyes in the sky have had a blind eye to each other. Today, efficient exchange of this valuable information is still subject to significant technical challenges.

Seeking to enhance the framework conditions for the development of joint Russian and European cooperative scientific and application programmes, the MEDEO project sets out to break down this existing technological divide.

Thereby, the project will support the market for EO services, which is growing rapidly and constitutes a source of innovation in Russia and the EU. The project will do this by developing the data format conversion tools, allowing for reciprocal access by users to existing EO data sets in Russia and Europe in the areas of fire-crisis management, and agriculture/crop monitoring. Built around a consortium of EO experts who have been the driving forces behind the Russian civil EO satellite system Resurs-DK, and leading representatives of the European EO community, the MEDEO project facilitates data exchange between the current and future Russian Resurs satellites, and ESA EO missions. In practice, such data exchange will be facilitated by means of comparable web interfaces, allowing for search for EO images in the EU's and Russian datasets.



KLAUS BRIESS
IS PROJECT COORDINATOR



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MEDEO will develop tools and methods to allow for reciprocal access to existing Earth Observation (EO) data bases in the EU and Russia.

QUESTIONS & ANSWERS

What do you want to achieve with this project?

The MEDEO project is aiming at bridging the gap between the Earth Observation data format standards applied in Europe and Russia. This will technically enable users (e.g. GEOSS service companies) to access to and use of the extensive datasets of EO data gathered in both regions.

Why is this project important for Europe?

The project will create the technological preconditions for availability of new datasets for European users in various applications (e.g. hazard situations management, environment protection, agriculture, etc.). This makes Europe more innovative, competitive and secure.

How does your work benefit European citizens?

Diversification of EO data sources and getting access to better quality EO data will enable the European public services and industry to provide enhanced services to the citizens and be more competitive on the global markets of GEOSS related services.

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LIST OF PARTNERS

- Technical University of Berlin, Germany
- Engineering, Consulting and Management Office, Germany
- Aratos Technologies S.A., Greece
- State Research and Production Space-Rocket Center of the Russian Space Agency "TsSKB-Progress", Russia
- Ryazan State Radiotechnical University, Russia

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PROJECT INFORMATION

Methods and Tools for dual access to the EO databases
of the EU and Russia (MEDEO)
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