

Brief Company Introduction

EU-Japan Partnering Support Mission in the Space Sector - Networking Seminar

Rainer Fockelmann, GAF AG Tokyo 2015, March 9th

Basic Facts / Association

Basic facts:

- Private sector company, headquarters
 located in Munich, GERMANY
- Founded in **1985**, **30 years** of professional experience in applied earth observation
- Today ~200 staff members, one of the leading and largest EO-GI companies in Europe
- Shareholder:

e-geos Telespazio

Specialised in:

- EO data reception, distribution and value adding
- Geo-information services and applications
- International technical assistance and consulting (>500 projects)

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Implementation Large Projects - Overview

International network of Partner Companies and Technical Experts

Number of Projects

Realised GAF Projects updated 2014 GAFAG

Company Services Overview

Services offered:

- Geo-Data Store
- Data Processing
- Information Systems
- Software Development
- Integrated Services
- Management Consulting



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Thematic Application Areas

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Project domains:

- Agriculture Policy
- Border Information
- Civil Security
- Coastal Zone/Marine
- Defense/Military Security
- Forestry Policy
- Land Management
- Mineral Sector
- Nature Resources
- Water Management



Example Mining in Madagascar

Example: Tri-Stereo Digital Surface Model

Product Features:

- VHRO data (spatial resolution <1m)
- 3D product
- Flight animation
- Produced entirely from EO data – no additional data from the ground needed



Tri-Stereo DSM Example Armenia – Flight over downtown Yerevan

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Example: Emerge

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Project: Copernicus Em

- **Global** application
- EO data delivery: 24
- Multi-sensor approac
- Thematic map delive
- **Operational Service**



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Example: Air Quality Downstream Service

Project:



- Copernicus air quality downstream service
- Air quality information for Paris (France)
- Ease-to-use information on O3, NO2, PM10
- Local information (grid resolution 50*50m)
- Mobile Application: (2)











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Example: REDD+ Service

Deforestation & forest degradation due to timber exploitation – Eastern Cameroon





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Example: REDD+ Service

Development of pre-operational EO-based Methods for Improved Forest Cover Change Mapping and Degradation / Direct Biomass Estimations in the REDD Framework

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Highly interested in:

- Climate Change/REDD: Seeking for partnerships with Japanese companies to extend project activities in Asia and other regions
- Consulting/Technical Assistance projects: Cooperation in developing countries in order to serve Multi-lateral Development Banks such as Asian Development Bank or World Bank
- Earth Observation data: Enlargement of Japanese EO data portfolio (by including new/upcoming Japanese sensors) for data reselling/distribution to other regions
- EO data application on mobile devices (transfer of business models to Europe or to Japan)
- Expansion of products and services together with Japanese partners, such as Copernicus Downstream Services, Air Quality Monitoring, Emergency Mapping...







Thank you very much for your attention!

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