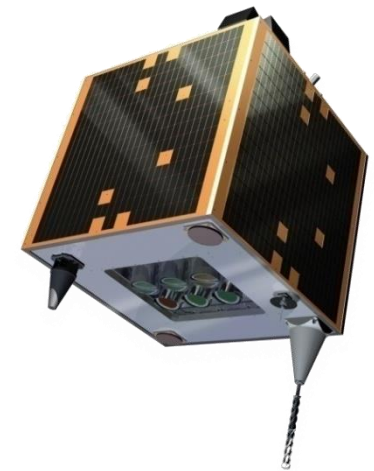


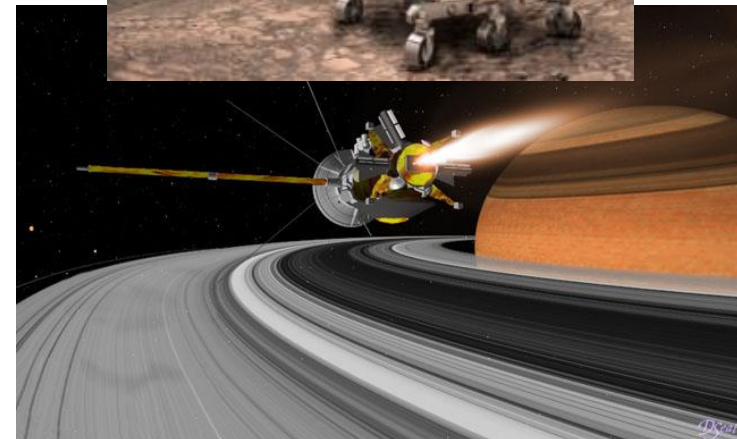
# **Workshop European Interparliamentary Space Conference**

## **Data Policy**



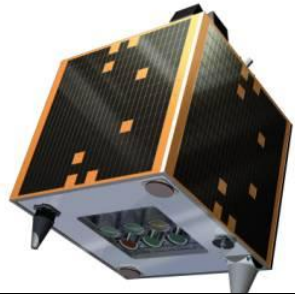
**Madrid  
March 24<sup>th</sup>, 2015**

- **Introduction: ELECNOR DEIMOS**
- **DEIMOS Earth Observation Systems:**
  - **DEIMOS 1**
  - **DEIMOS 2**
- **European Data Policy:**
  - **Copernicus free of charge data policy**
  - **Future European legislation on data security checks for EO systems**
- **Conclusions**





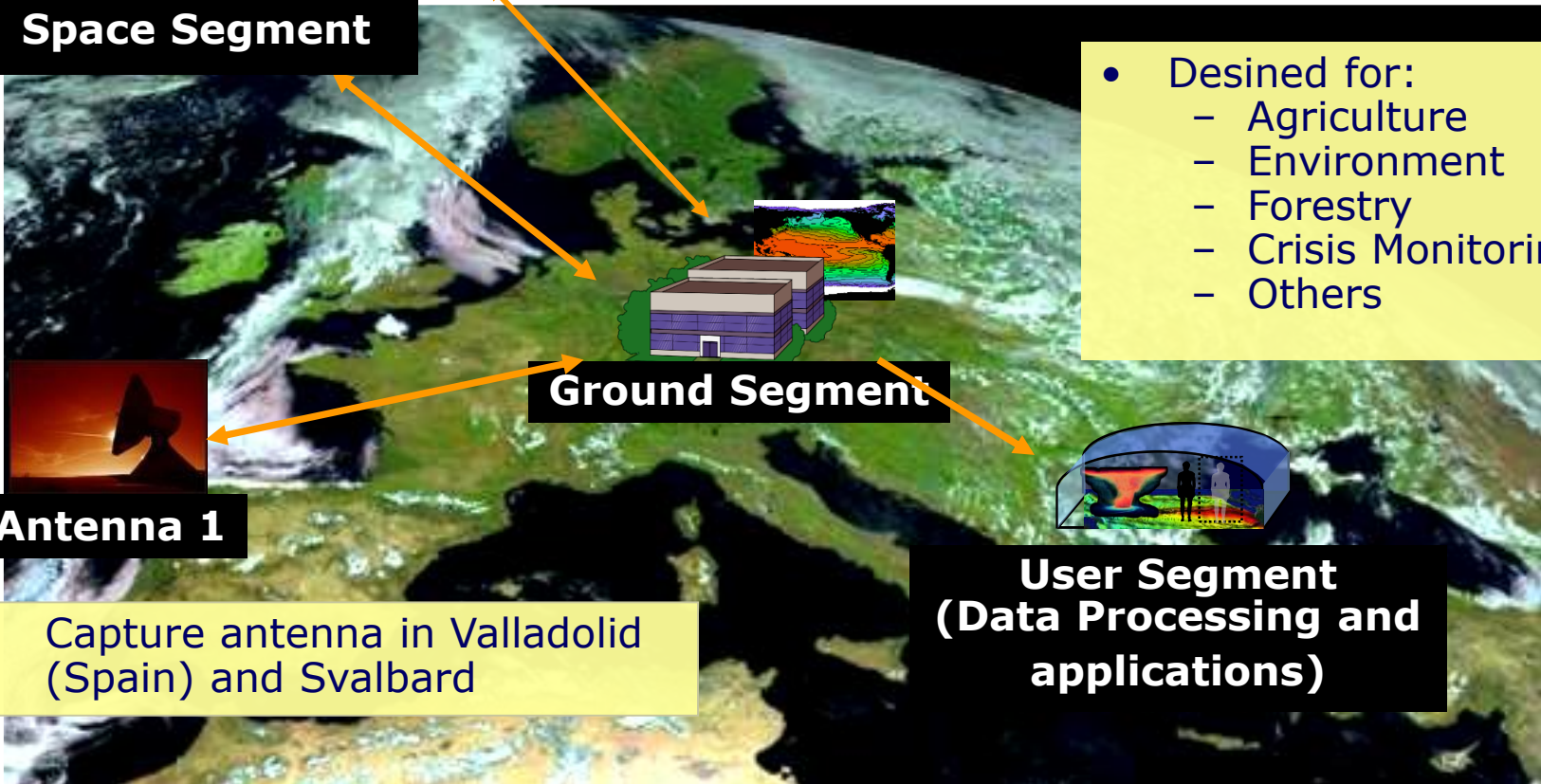




**Antenna 2**

- DEIMOS-1 Multispectral Satellite (SSTL)
- High resolution (20 m)
- **Very large swath (650 Km)**
- **High time revisit capacity**

**Space Segment**



- Designed for:
  - Agriculture
  - Environment
  - Forestry
  - Crisis Monitoring
  - Others

**Antenna 1**

- Capture antenna in Valladolid (Spain) and Svalbard

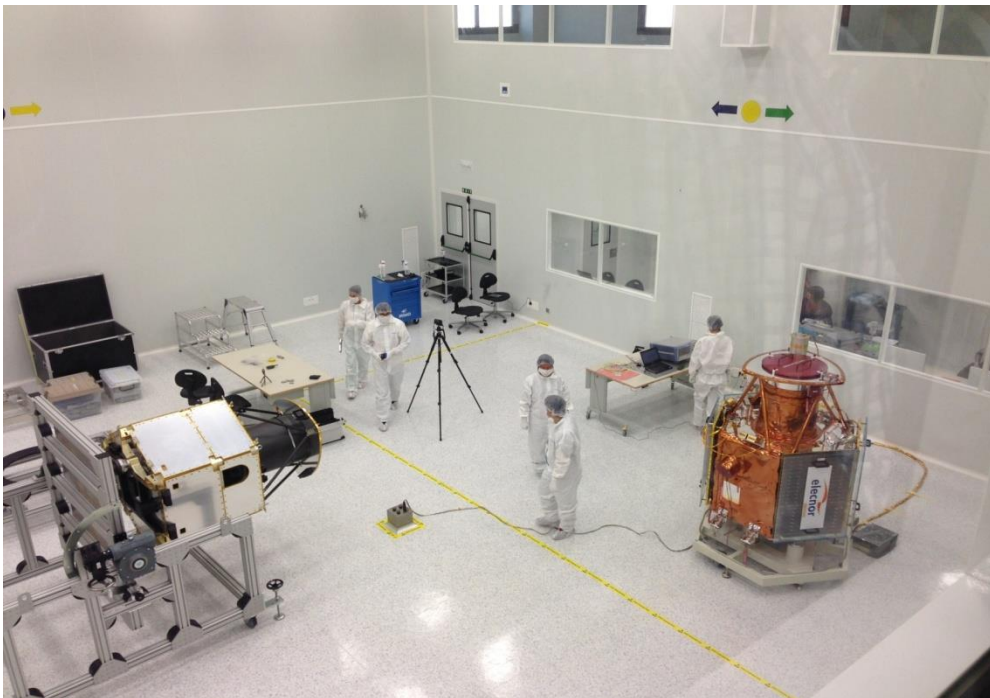
**Ground Segment**

**User Segment  
(Data Processing and  
applications)**

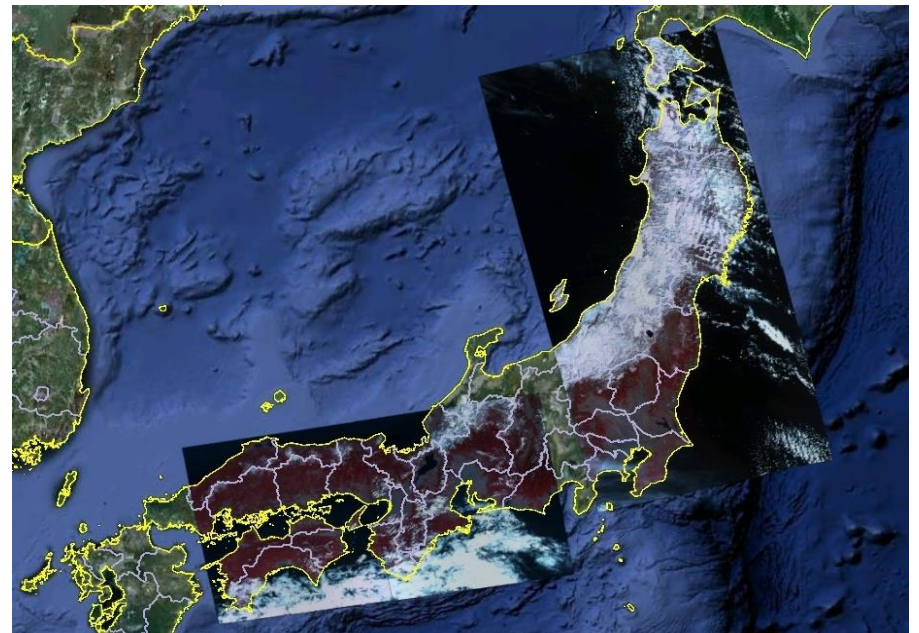


# DEIMOS -2 Very High Resolution System

- **DEIMOS has developed the very high resolution satellite DEIMOS-2:**
  - **Optical multispectral (panchromatic, R, G, B, NIR)**
  - **Very High Resolution (75 cm)**
  - **The satellite has been integrated in the new installations of DEIMOS in Puertollano with SATREC I (Korea) as partner**
  - **Validation and Test at INTA (Spanish MoD)**
  - **Complete Ground Segment and User Segment developed by DEIMOS**
  - **Launched: June 19th 2014**
  - **Very High Image capacity (150,000 km<sup>2</sup> daily)**

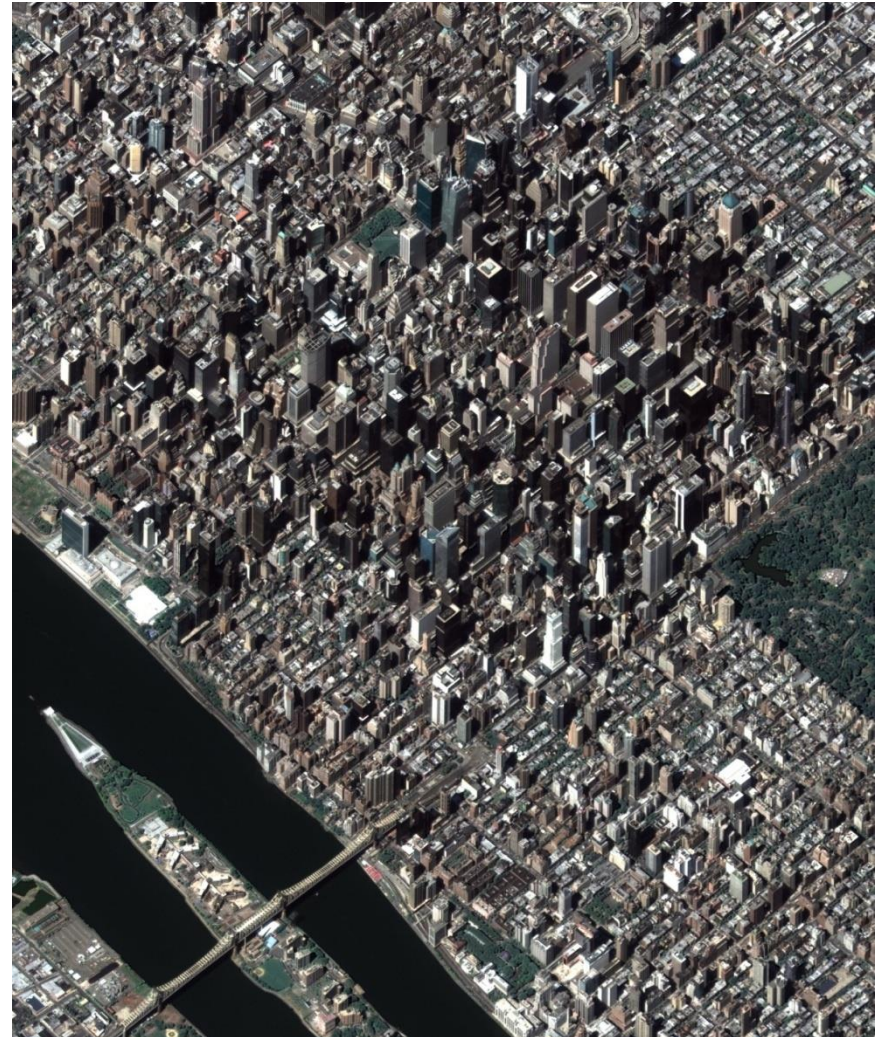


- **Agribusiness:**
  - Precision agriculture
  - Crop yield estimates
  - Water resources and irrigation
  - Environmental impact
- **Environmental monitoring:**
  - Pollution control
  - Spill detection and tracking
  - CO2 absorption and REDD
  - Treaty compliance
- **Development and sustainability:**
  - Urban-rural interaction
  - Change detection
  - Renewable energy
  - Urban sprawl
  - Mapping
- **Crisis management:**
  - Forest fire tracking and recovery
  - Flood monitoring and recovery
- **Defense and Intelligence:**
  - Military and security intelligence
  - Border control
  - Piracy

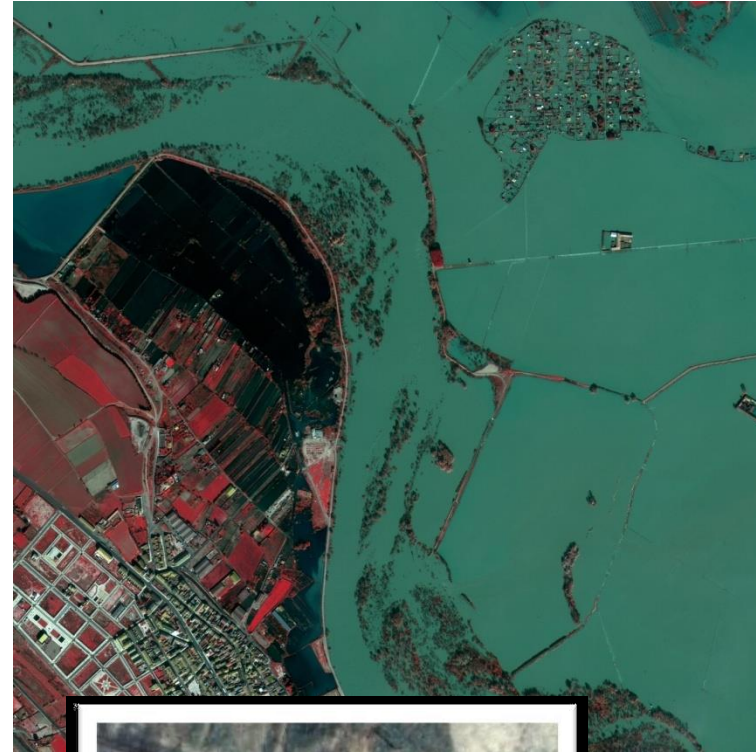




- Copernicus free data policy is going to have a very negative impact in the EO data commercial industry
- Free worldwide data from Sentinel 2 is impacting the European actors in the mid resolution:
  - DMC Ii in UK
  - Rapid Eye in Germany
  - DEIMOS in Spain
- Those companies have invested in satellite systems, creating several hundred of high skill jobs in Europe and now they face the competition of free data from European institutions



- **Why free worldwide data?**
- **Two reasons have been proposed:**
  - **US is doing the same with Landsat**
  - **This policy is going to create 28,000 jobs in the value added industry in Europe**
- **US/Landsat versus Europe/Sentinels:**
  - **This is not a reason, no need to do the same as US**
  - **US has no industry in the mid-resolution**
  - **Setinel 2 data is 10 times better than Landsat in geometrical resolution (10m versus 33m) and 3 times better in revisit (5 days versus 16 days)**
  - **US shall stop buying European mid data resolution**

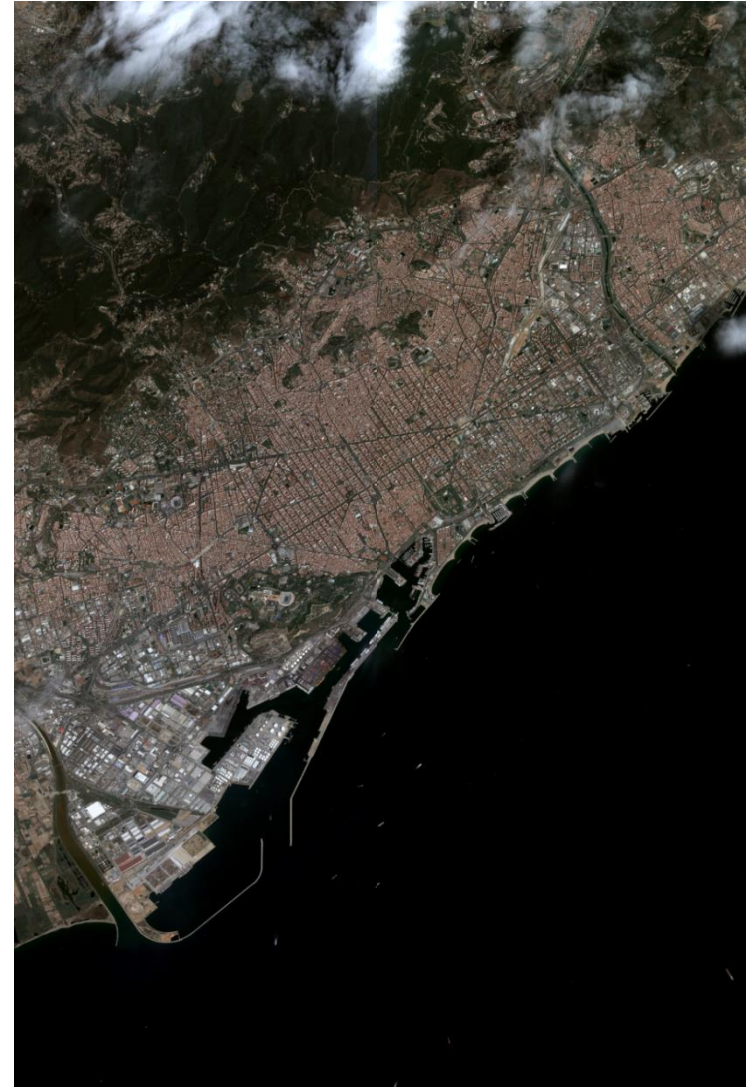




- **Generation of 28,000 jobs in Europe:**
  - The generation of 28,000 jobs in Europe due to the free data policy has not been demonstrated in any document
  - What can be easily demonstrated is the lost of jobs in the mid-resolution European EO data commercial industry (Rapid Eye, DMCIi and DEIMOS)
  - Very high quality European free data is going to create thousands of jobs in those continents where the cost of a programmer is much lower than Europe
  - Most of the jobs shall be created in Asia and other continents, but not in Europe



- **The EO commercial data industry proposes the following options:**
  - **Free of charge data distribution within all European institutions**
  - **Alternatively, free of charge data within Europe**
- **If above options are not adopted, there should be a minimum set of measures to reduce the impact in the European EO data industry:**
  - **Continue with the Third Party Mission scheme to procure additional datasets for Copernicus**
  - **Provide to the industry a roadmap of long term investments and data policies to allow the positioning of the EO industry**





- The future European legislation in EO security checks should be limited to the sensitive information: very high resolution data
- The worldwide EO commercial data market is very competitive, therefore the European legislation should be done in a way that:
  - It is not affecting the capacity of companies to offer to the final user a very high flexibility and very short delivery times
  - It is not reducing the competitive advantages of the European industry
  - It is not reducing the worldwide market that can be reached by our industry



- **Free worldwide data distribution from Copernicus is going to have a very negative impact in the European EO data industry**
- **Limitation to free data within Europe is proposed as a mitigation measure**
- **In order to allow further private investment and creation of jobs in the EO data industry, a clear map of the long term future policy in Copernicus is needed**
- **The European legislation in the EO data security checks should be limited to very high resolution data and must be implemented in a way that is not affecting the commercial flexibility of the companies in order to avoid a competitive disadvantage with respect to competitors in other continents**

