

#### LAZIO CONNECT

Increase competitiveness of Aerospace Cluster in the Lazio Region

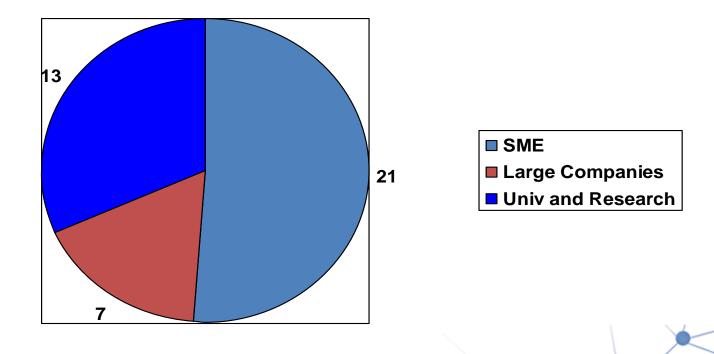
"The Aerospace platform supporting collaborative enterprising"

JAPAN MISSION

4 – 9 September 2017

# -LAZIO CONNECT-

#### 41 Members LAZIO CONNECT – break down





## Aerospace Technological District – LAZIO REGION FACTS AND FIGURES

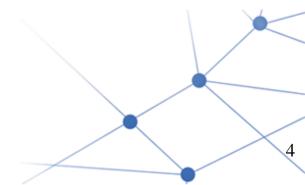
- Over 5 billion Euro in turnover
- **30,000** employees
- 200 prominent sized companies
- 10 research bodies/centres: ASI, CNMCA, CNR, CSM, ENEA, ESA/ESRIN, INAF, INFN, INGV, RSV
- 8 universities: La Sapienza, Tor Vergata, RomaTre, Cassino, Tuscia, Link, UniCusano, Lumsa
- 4 technology parks: Tecnopolo Tiburtino, Tecnopolo di Castel Romano, Pa.L.Mer., PST Alto Lazio
- 4 engineering faculties, 12 departments, 30 university advanced training programmes
- 3,000 specialists involved in aerospace research including university professors, researchers and other specialised scientists
- Incubators and Support services for technology transfer and start-up creation: ESA incubation centre, Bic Lazio, E2bLab Tor Vergata, Sapienza Innovazione, ILO Roma 3, Itechspazio (incubator for space projects joint sponsored by local authorities and ESA)

#### THE LARGEST AEROSPACE CLUSTER IN ITALY

#### **KEY CAPABILITIES**

#### LAZIO CONNECT-

- 1. DETECT: Deep knowledge of the world of Sensors
- 2. UNDERSTAND: Transform complex data into useful information
- 3. MAKE SURE IT WORKS ALWAYS: Design, develop, test and deploy systems and materials that resist in extreme conditions



#### **OUR MARKETS (Some...)**

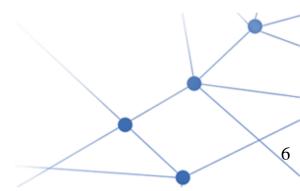
#### LAZIO CONNECT

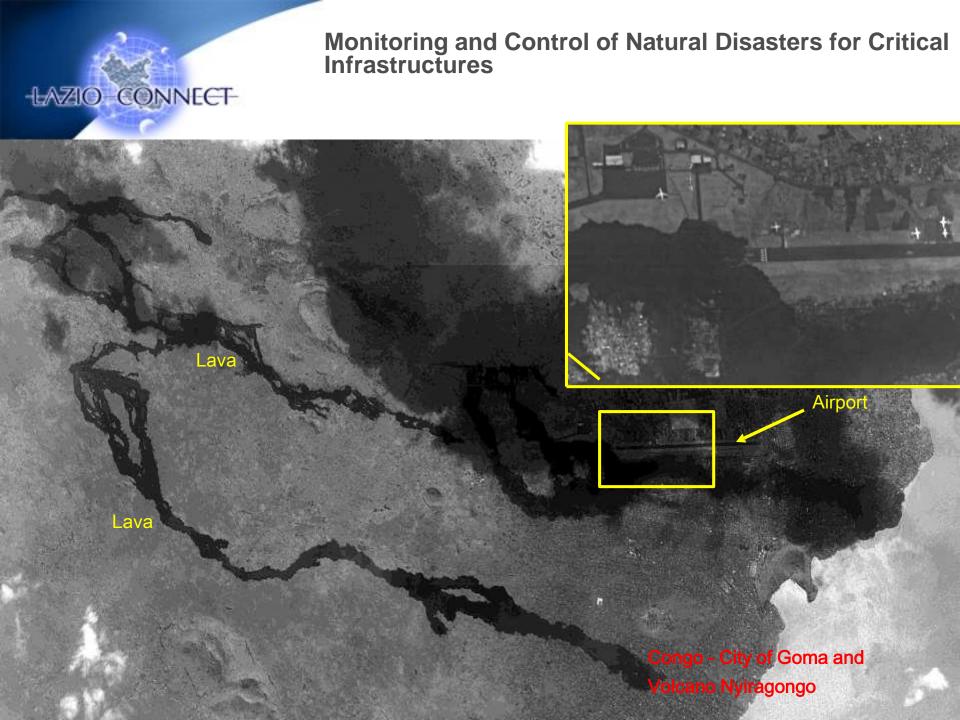
- 1. Space (e.g. satellite planning and manement, satellite communication M2M)
- 2. Agrifood (e.g. certification of products, bioengineering)
- 3. Aeronautics
- 4. Services for small and large Airports
- 5. Technologies and Systems for Railways
- 6. E-Health (e.g. aid to diagnosys, Tele pressence and telemedicine)
- 7. Cyber security
- 8. Broad Band Infrastructure
- 9. Software and Hardware development and integration
- 10. Earth Observation Services

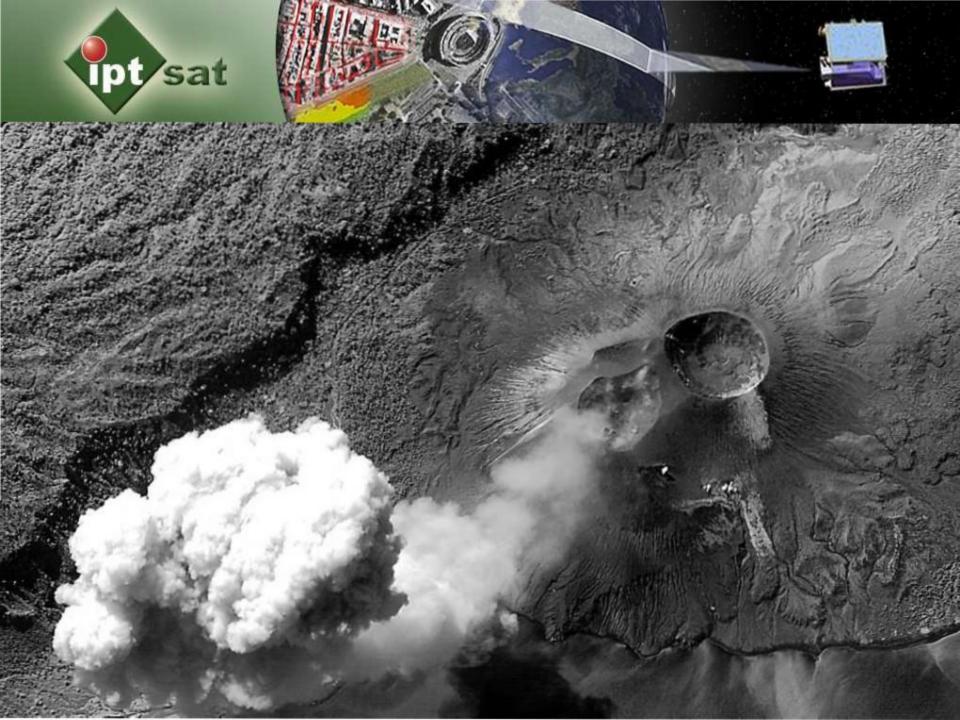
#### **EARTH OBSERVATION SERVICES**

#### LAZIO CONNECT

- 1. Critical Infrastructures
- 2. Disaster and Events
- 3. Urban Plannin and management
- 4. Agrifood
- 5. Sustainable mobility
- 6. Logistics
- 7. Environmental monitoring
- 8. Protection of cultural assets











## **Monitoring and Control of Natural Disasters for Critical Infrastructures**

USA - New Orleans Flood 2001

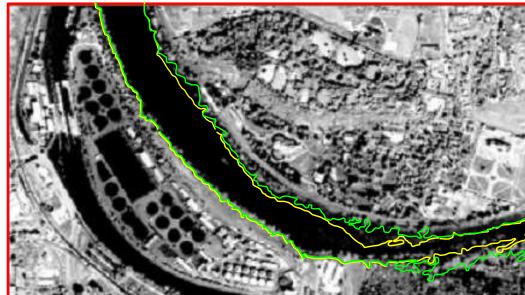




### **Monitoring and Control of Natural Disasters for Critical Infrastructures**

Czech Republic - Prague Flood of 2002







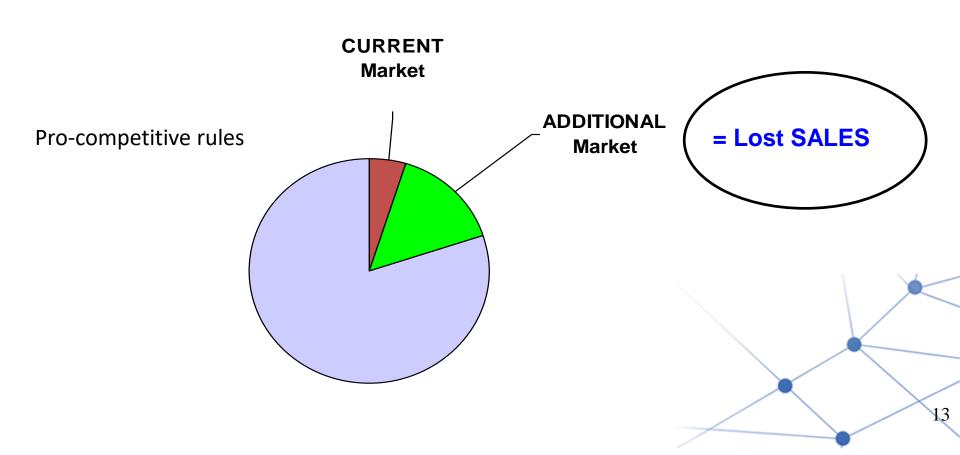
#### Knowledge

Environmental monitoring of potentially at-risk industrial sites of the Territory





Eliminate the barriers to collaboration along the entire life cycle of the product in order to access ADDITIONAL market

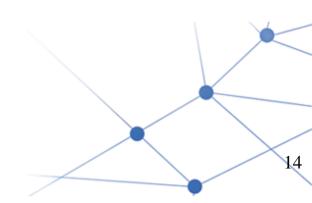


#### OUR FIVE KEY SERVICES



- 1. Competence Mapping of available capabilities in LAZIO Region
- 2. Facilitate access of members to regional, national, European and international innovation funding
- 3. Medium-Long term collaboration of SMEs and Research Organizations with Large Organizations
- 4. Building, running and promoting Virtual Enterprises in core markets to pitch for innovation funding and national and international public tenders
- 5. Copernicus Relay for Italy

For more info: www.lazioconnect.it





## **COPERNICUS – the world most comprehensive earth observation program**

### WATCHERS IN THE SKIES

Once its Sentinel satellites are fully operational, Copernicus will probably be the world's most comprehensive Earth-observation programme. In addition to Sentinels 1 to 6, a Sentinel 5 Precursor satellite will be launched in 2016 to minimize the gap in atmospheric data following the expiration of Envisat in 2012.

#### SENTINEL-1

Launch date: 1A: Launched; 1B: 2015

Payload: All-weather radar Revisit time: 1-3 days

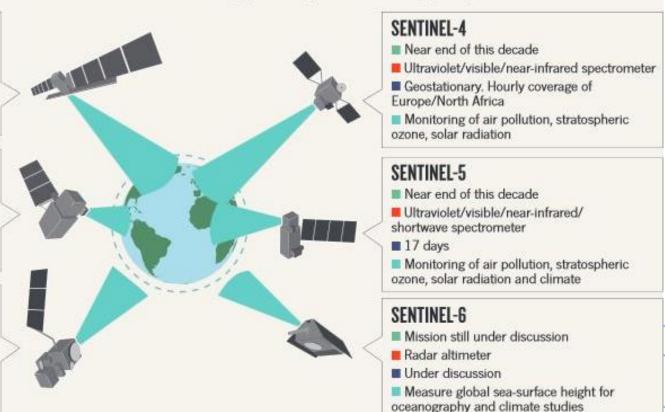
Applications: Monitoring sea ice and the Arctic, land surface motion risks, disaster response

#### SENTINEL-2

- 2A: 2015; 2B: 2016-17
- Optical sensors with 13 bands
- 2–5 days
- Monitoring land-use changes, agriculture and ecosystems, volcanoes and landslides

#### SENTINEL-3

- 3A: 2015, 3B; 2016–17
- Sea/land temperature radiometer, sea/land colour instrument
- 1-2 days
- Sea-surface and land-ice topography, sea and land surface temperatures and colours



#### THE NOVELTY



# Sentinel Data Policy = FREE and OPEN access



The EC Regulation on Copernicus Data and Information policy stipulates the main principles of Sentinel Data Policy:

- ✓ Open access to Sentinel data by anybody and for any use
  - ✓ Free of charge data licenses
  - ✓ Restrictions possible due to technical limitations or security constraints.

Copernicus Contributing Missions data access
follow their owners data policies.

## -LAZIO CONNECT-

#### **LAZIO CONNECT – Italy Copernicus Relay**

- Promoting Copernicus as a sustainable source of full, free, open and reliable information to meet the needs of national/regional/local public services
- Boost the development of services with high commercial potential by local entrepreneurs.
- Increase Copernicus awareness at the national, regional and local level.

More on Copernicus Relay Centres:

http://www.copernicus.eu/news/copernicus-family-growing

#### WHY ARE WE HERE?



- To Seek **Partners** interested to deploy our innovations together
- To Seek <u>Companies</u> with capabilities tha complement ours for international collaborative projects (e.g. HORIZON 2020)

If you are one of these come and talk to me today!

