National Research Council of Italy - Institute of Methodologies for Environmental Analysis
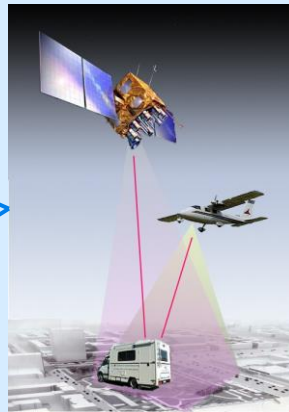
(CNR-IMAA) – www.imaa.cnr.it

imaa
istituto di metodologie per l'analisi ambientale

MISSION: development and integration of **Earth Observation (EO)** methodologies for the study of a wide spectra of geophysical and environmental processes

Satellite and ground-based remote sensing

In-situ measurements and sensor network

Environmental modelling

ICT for EO data interoperability

HUMAN RESOURCES: more than **140 researchers**

IMAA in FP7: 20 projects mainly in **SPA, ENV, ICT, SEC, Energy**

ACTRIS "Aerosols, Clouds, and Trace gases Research Infrastructure Network"   INFRA-2010-1-1.1.16: Research Infrastructures for Atmospheric Research;

MODELPROBE, G-MOSAIC, GIGAS, EUROGEOSS, SAFER, REACCESS, ISTIMES, DORIS, GEOVIQUA, DORIS-NET, EGIDA, WEZARD, SAGRES, ITARS,ELITE,LAMPRE,IMAGE, BEYOND.

IMAA in H2020: GAIA-CLIM (Gap Analysis for Integrated Atmospheric ECV CLImate Monitoring), Call EO-3-2014 (1 March 2015 - 29 February 2018).

Research Infrastructures:

- **Atmospheric Observatory** (one of the 5 European sites of GRUAN – GCOS UPPER-AIR NETWORK and site of EARLINET network)
- **Receiving, archiving and processing system for satellite data**
- **Mobile laboratory systems** equipped with Lidar, Interferometric and radiometric instruments, geochemical and geophysical sensor
- **Full Scale Lab Hydrogeosite**

Expression of Interest to TOPIC 2015

WATER-2-2015: b) [2015] Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation

WATER-4-2015: Harnessing EU water research and innovation results for industry, agriculture, policy makers and citizens

WATER-5-/2015: c [2015] Development of water supply and sanitation technology, system and tools, and/or methodologies

EXPERTISE:

- Development of **integrated energy system models** at different spatial scales and individuation of strategies to optimize the resource utilization
- **Integrated sensing technologies** for non-invasive **survey of subsoil and vegetation**
- **Development and experimentation of EO techniques** for remote sensing data analysis and the characterization and the modelling of surface processes and the phenomena linked to natural, environmental and anthropic risks