

# Partners

**ACTRIS-2** unites 31 Partners from 20 European countries:

Consiglio Nazionale delle Ricerche, IT  
Centre National de la Recherche Scientifique, FR  
Leibniz Institut fuer Troposphaerenforschung e.V, DE  
National Observatory of Athens, GR  
Norsk Institutt for Luftforskning, NO  
Ilmatieteen Laitos, FI  
Paul Scherrer Institut, CH  
Helsingin Yliopisto, FI  
Eidgenoessische Materialpruefungs- und Forschungsanstalt, CH  
European Centre for Medium-range Weather Forecasts, UK  
Meteorologisk Institutt, NO  
National Institute of Research and Development for Optoelectronics, RO  
Ludwig-Maximilians-Universitaet Muenchen, DE  
European Commission - Joint Research Centre, BE  
Universidad de Valladolid, ES  
Universidad de Granada, ES  
Agencia Estatal Consejo Superior de Investigaciones Cientificas, ES  
Koninklijk Nederlands Meteorologisch Instituut, NL  
Cesky Hydrometeorologicky Ustav, CZ  
Lunds Universitet, SE  
The Cyprus Institute Limited, CY  
Rheinisches Institut fuer Umwelt-Forschung an der Universitaet zu Koeln e.V., DE  
Deutscher Wetterdienst, DE  
University of Leeds, UK  
Natural Environment Research Council, UK  
Pannon Egyetem, HU  
B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus, BY  
Consorzio Nazionale Interuniversitario per Le Scienze Fisiche della Materia, IT  
Institute of Nuclear Research and Nuclear Energy - Bulgarian Academy of Sciences, BU  
National University of Ireland, Galway, IE  
Instytut Geofizyki Polskiej Akademii Nauk, PL

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**Aerosol, Clouds,  
and Trace gases  
Research InfraStructure**

**Coordinated Advanced  
Atmospheric Observations  
in Europe**

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[www.actris.eu](http://www.actris.eu)



## Project

ACTRIS-2, funded by Horizon 2020, is the pan-European initiative for coordinating long-term observations of aerosols, clouds, and short lived gases from the ground.

The objective of ACTRIS-2 is to consolidate the construction of a unique user-oriented Research Infrastructure initiated more than 15 years ago for providing 4-D integrated high-quality data from near-surface to high altitude (vertical profiles and total-column), relevant to climate and air-quality research. ACTRIS-2 is a European contribution to the Global Atmosphere Watch program of the World Meteorological Organisation (WMO-GAW) and the research component of the European Monitoring and Evaluation Programme (EMEP). It supports European activities of the AERosol ROBotic NETwork (AERONET). ACTRIS-2 activities also support the strategic priorities of the intergovernmental Group on Earth Observations (GEO) and develop synergies with national initiatives.

The distributed observation platforms of ACTRIS-2 are located both in Europe and outside and will improve systematic and timely collection, processing and distribution of data and results for use in modeling, in particular towards implementation of atmospheric and climate services.



## Objectives

ACTRIS-2 pursues the following targets:

- Maintaining and increasing the availability of long-term observational data relevant to climate and air-quality research on the regional scale
- Continuing to develop and disseminate integration tools to fully exploit the use of multiple atmospheric techniques at ground-based stations, for the calibration/validation/integration of satellite sensors and for the improvement of the parameterizations used in global and regional-scale climate and air-quality models
- Opening calibration facilities and advanced observing platforms to Trans-National Access for the benefit of a large user community including SMEs, and further facilitating virtual access to high-quality information, products and services enhancing the ACTRIS Data Centre
- Maintaining and enhancing the capacity of training in the field of atmospheric observations particularly directed to young scientists and researchers from non-EU developing countries
- Promoting innovation potential and technological standardization with European SMEs for transfer of observation technologies and methods
- Developing a sustainable strategy for maintaining ACTRIS-services in the long term



## Services

### Lidar Calibration Centre (LiCal)

LiCal offers a wide range of services for testing and calibration of lidars and ceilometers, from characterizing and optimizing single components to assessment of the performance of complete systems.



### AERONET-EUROPE Calibration Centre

AERONET-EUROPE is the European support to the NASA AERONET programme for routine calibration and maintenance of sun/sky/polar photometers to produce high-quality aerosol column integrated properties.



### European Centre for Aerosol Calibration (ECAC)

ECAC ensures quality assurance and capacity building through calibrations, inter-laboratory comparison services, and station audits for supporting high-quality physical, optical, and chemical in-situ aerosol characterization.



### ACTRIS Data Centre

Free and open access is offered to all ACTRIS infrastructure data, innovative and mature data products, and tools for QA, data analysis and research, including services and support for data providers and station personnel.

### Access to ACTRIS stations

Free access is provided to a worldwide community of users including SMEs to eighteen top-class observing platforms in Europe for research and training, offering advanced equipment and high level of services and support.