

# CNR-INO National Research Council - National Institute of Optics

Our **<u>MISSION</u>** is to promote, support and perform research in the strategic fields of **Optics**, **Atomic Physics** and **Matter-Radiation Interaction** 

Main site: FLORENCE



#### INO UNIT OF TRENTO **FRENTO** BRESCIA INO UNIT OF BRESCL SESTO FIORENTINO PISA INO INO LORENCE UNIT OF SESTO FIORENTINO UNIT OF FISA INO INO UNIT OF LECCE HEADQUARTERS OF ARCETRI NAPLES ABORATY OF CAPALLE LABORATY OF OFIFICIO BORATY OF CAREGO LECCE INO UNIT OF NAPLES

#### NUMBERS (2013): >167JCR/ISI publications >70 research projects > about 21 M€ budget

## Six sites all over Italy

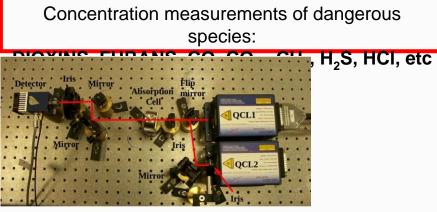
## **STAFF AND FACILITIES**:

About **160** researchers, **50** temporary employees, technicians and administration. Optical, mechanical and electronical workshops

www.ino.it



#### **Spectroscopy & PHotonics for Environmental Research and Earth** Studies (www.ino.it/SPHERES): Expertise and Applications

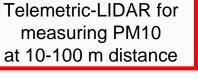


Trace gas measurements in the upper troposphere/lower stratosphere: CO, CH<sub>4</sub>, H<sub>2</sub>O, HNO<sub>3</sub>, etc

> Fluorescence LIDARs (FLIDAR) for the monitoring of ecosystems, vegetation, water bodies

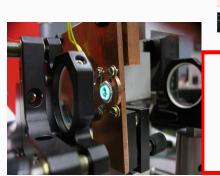


FTS for vertical sounding of the atmosphere for 3D maps of composition  $(H_2O, CO_2, O_3)$  $N_2O$ ,  $CH_4$ , etc.) and temperature









Studies on novel solid state laser materials (Yb and Ce doped) Development of solid state laser sources

Staff: 9 researchers, 1 technician, three guests

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