

# Insegnaci Etna

## Summary after the April 16-18 seminar



# What is InsagnaciEtna ?

- A network of school willing to exchange knowledge in the field of geosciences
- An educational Observatory
- Yearly 4-days seminars in the Etna area
- A workshop for the development of sensors and information systems at school

# **Network of school willing to exchange knowledge in the field of geosciences**

- Schools from the Etna area (stage 1 – 2018)
- Schools from others places in Italy and Europe (stage 2 – 2019)
- Teachers willing to be involved
- Students (and teachers!) interested in the content of the school

# Educational Environmental Observatory

- Sensors in the schools from the Etna area
  - Cheap but professional
  - May be developed / built by the teachers and their students
  - Various fields (seismology, atmosphere, sea, geodesy, remote sensing)
- Repositories for data and products
- Software to work on the data
- Connection with the operational observatories
- Teachers, technical staff and students interested in the observatory activities
- Local hub

# Yearly 4-days seminars in the Etna area

- 24 teachers
  - 12 from Italy
    - 8 from the partner schools from around Etna
    - 4 from the rest of Italy
  - 12 from other countries (start with Mediterranean countries)
- 6 lecturers
- Rotating locations around Etna (eastern coast, interior, Catania area, Paesi Etnei, ...?)
- Strategy for getting the teachers together during the seminars (logistics, accommodation, ...)
- Strategy for the language (during the seminars, for the educational material for teachers and for students)

# Development of sensors and information systems at school

- Promote the development / assembly of sensors by the students themselves
- Promote and use didactic equipments
  - Sismobox (to be built within IETNA)
  - Calitoo

# Partners

- USR Sicilia & schools from around Etna
- Lycée international de Valbonne
- Université Côte d'Azur
- Università Roma Tre
- Ecole Normale Supérieure
- Istituto Nazionale di Geofisica e Vulcanologia
- ... others welcome
- European Geosciences Union

# Supporting projects

- EDUMED (Project 2017-2021 ANR France)
- GIFT for teachers (EGU)
- Project of the partners schools from the Etna area & USR Sicily
- CNES and ESA support for education
- ...



# Web resources

- InsegnaciEtna web site : <http://ietna.eu>
  - Editors will be needed!
- InsegnaciEtna data repositories :
  - UCA / EDUMED for the seismic data
  - To be determined for the other data
  - Link to operational Observatories servers

# Technical developments

- Promote the development of sensors, integrated sensors, software, web interfaces
- Works toward rugged instruments that could be installed in the field
- Envisage the possibility of equipment to be installed temporarily in the field during an event
- Consider the possibility of using sensors on board of satellites

# Agenda for 2018 and 2019

- May 2018 : inventory of available existing sensors in the schools
- May 2018 – September 2018 : looking for candidate teachers from Europe interested by the 2019 seminar
- September 2018 : Putting in contact professors from the various schools from Etna and Europe
- October 2018 : installation of sensors in partner schools & operation of those sensors with their classes
- March 2019 : benchmarking the status of the didactic observatory
- April 2019 : some InsegnaciEtna teachers to attend the EGU in Vienna
- October 2019 : InsegnaciEtna2019