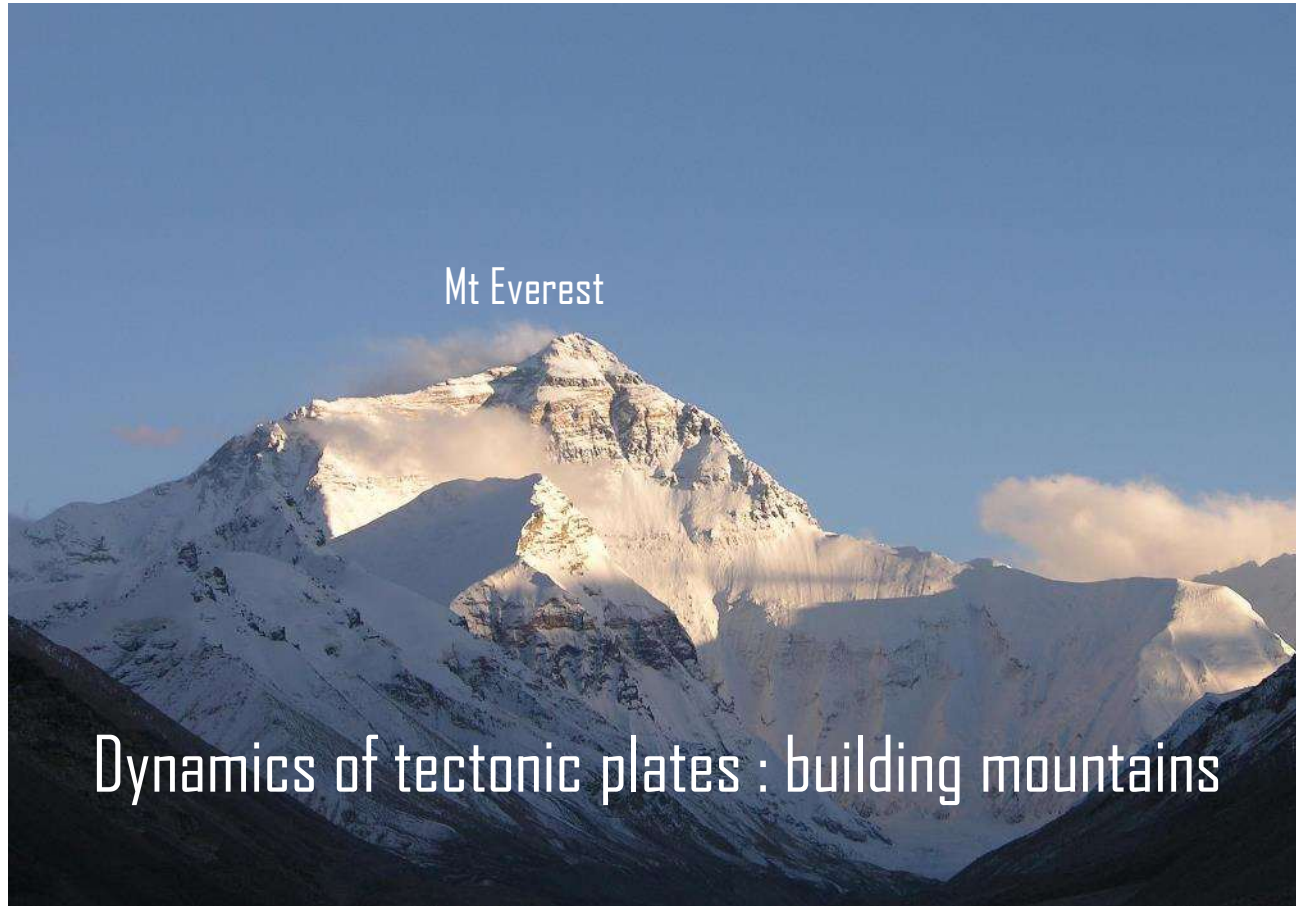
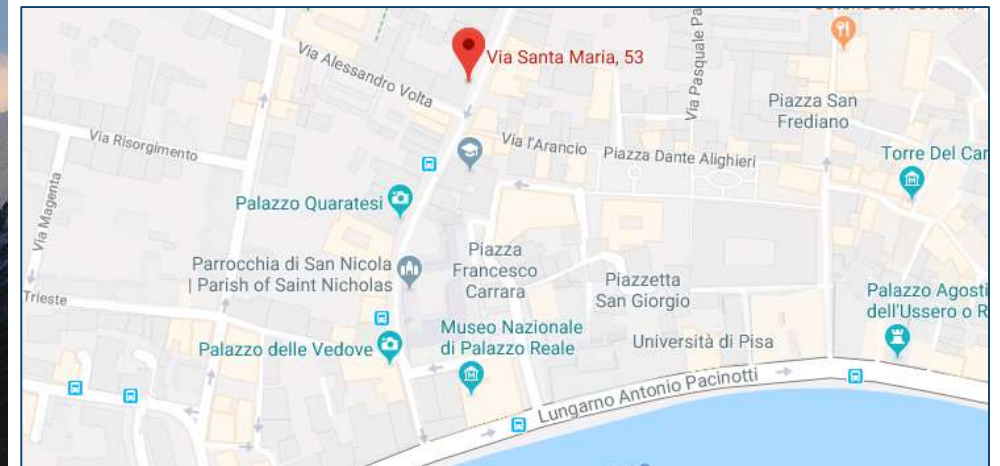


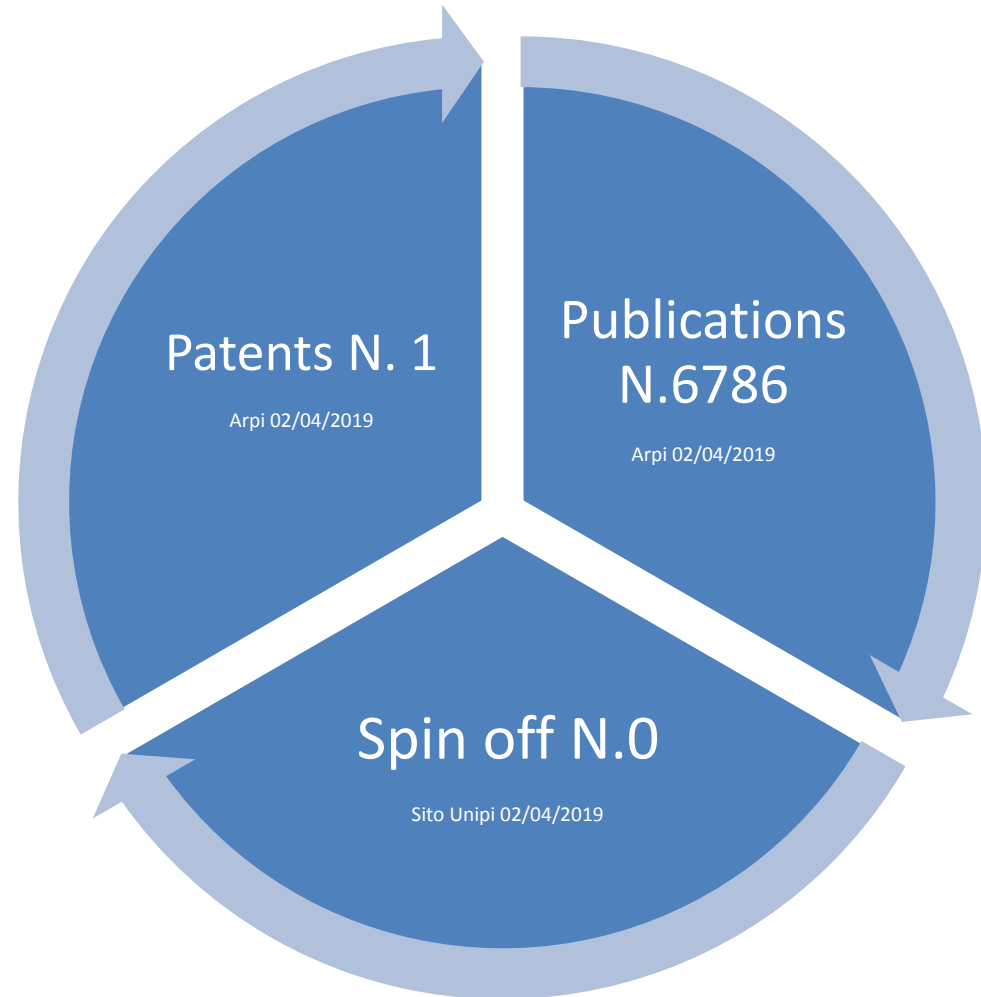
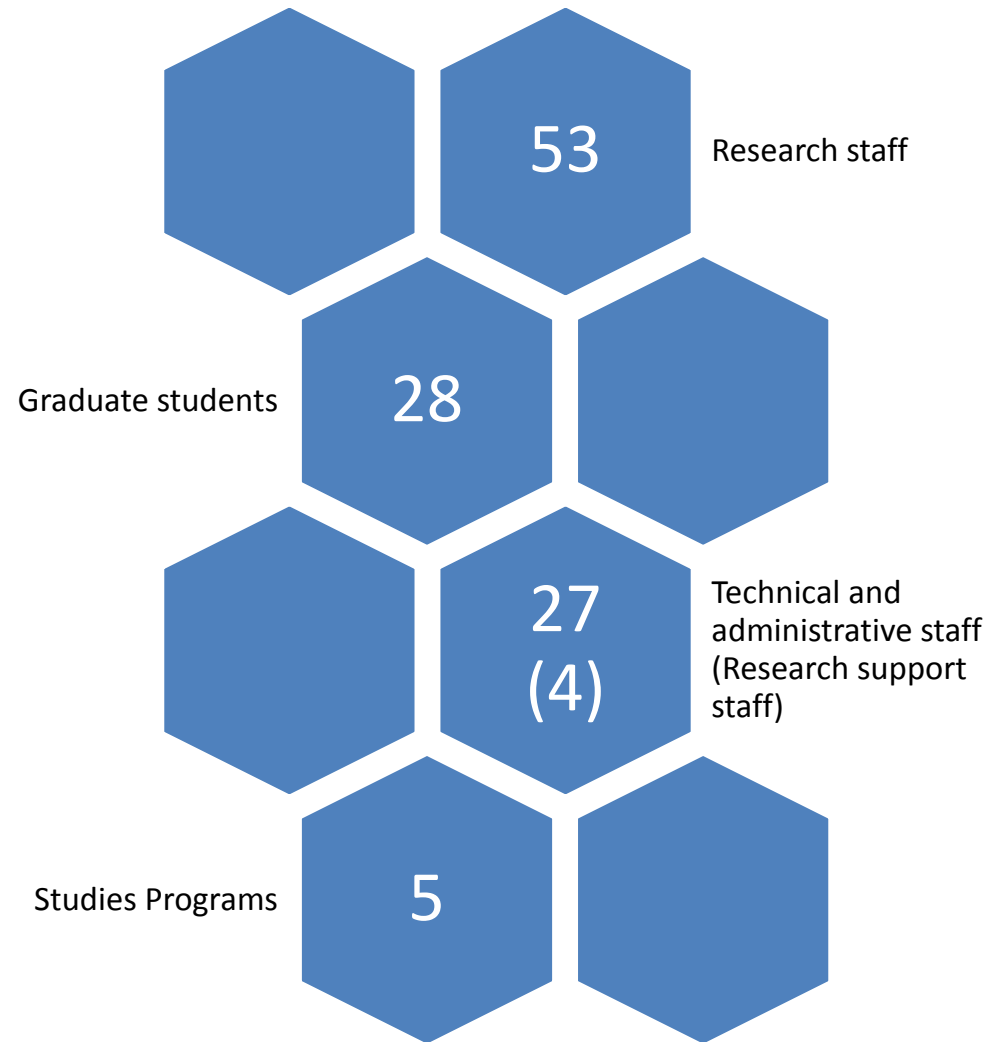
DEPARTMENT GEOSCIENCES

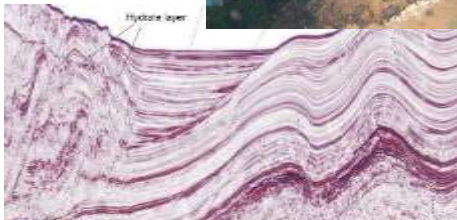
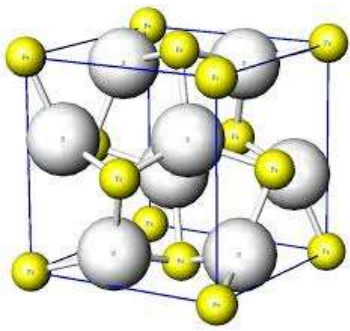


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DEPARTMENT AT A GLANCE





RESEARCH AREAS

Geomaterials

Analytical laboratories - New minerals – Asbestos – Microporous and nanomaterials - Planetary materials

Global Change

Glacier retreat – Permafrost – Climate record in caves, lakes and tephra layers – Extreme flooding events

Volcanoes

Volcanic hazard – Volcanic tsunamis - Volcano plumbing system

Landscape dynamics

Coastal plain and beach systems - Landslides

Exploration geophysics

Seismic data interpretation – Computation lab



RESEARCH PROJECTS



Antarctica

- dynamics of tectonic plates
- landscape, climate and ice sheets
- meteorite and past climate archive



Cultural heritage

- NanoCathedral EU project
- “key tools” for restoration and conservation



Planetary sciences

- hypervelocity impacts
- meteorites and the early solar system



Earth's crust

- shaping the Planet: subduction-exhumation-collision
- cruise for “silent” earthquakes



RESEARCH IMPACT



Water resources and Toxic metals in the environment

- origin and dispersal processes of heavy metals in water and soil



Geothermal systems and Ore deposits

- fluids in the crust: supporting geothermal and mining companies



Natural History Museum - University of Pisa

- fossil vertebrates and minerals



Natural Parks and Archeo-mining Parks

- Apuan Alps, Val di Cornia, Colline Metallifere, Tuscan Archipelago

