## Institutional Profile

Geophysical Applications Processing s.r.l.
is a spin-off company of *Politecnico di Bari,*
established on February 2006,
whose mission is to develop
products, processes and
services with technological
and scientific value in the field of
satellite remote sensing and related
software/hardware technologies, with a
focus on Geomatic solutions and applications.

All the activity is performed on the basis of
competencies and pay-offs of research projects,
particularly in the Remote Sensing Group of
the *Department of Physics of Bari*,
in collaboration with the
*Institute for high studies on Intelligent
Automation Systems* (ISSIA) of the *National
Council of Research* (CNR), based in Bari, Italy.
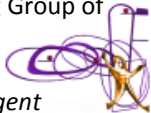
Shareholders of GAP are *Politecnico di Bari*,
Planetek Italia srl, SITAEL spa, as well as experts
and professionals including Professors of
Polytechnic of Bari and University of
Bari, Engineers and Researchers of the National
Research Council of Italy.

GAP srl is member of the Association of Italian
Small and Medium Aerospace Enterprises
(AIPAS) and the Apulian Aerospace District.

Geophysical
Applications
Processing
GAP s.r.l.

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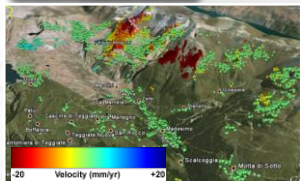
Products
Services

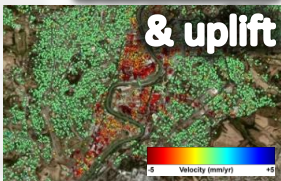*a POLIBA spin-off company*

GeoHazards Monitoring

Advanced multi-temporal SAR and DInSAR analyses for satellite survey, monitoring of hydrogeological instabilities and measurement of ground movements with sub-centimetric precision.
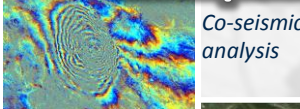
Landslides

-20 Velocity (mm/yr) +20

Madesimo (So, Italy)

Subsidence & uplift

-5 Velocity (mm/yr) +5

Tiber river, Rome

Earthquakes

Co-seismic analysis

-4.0 (cm/y) 4.0

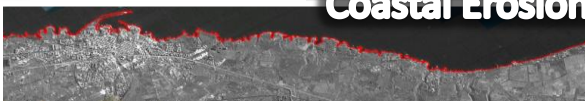*L'Aquila (Italy) '09*
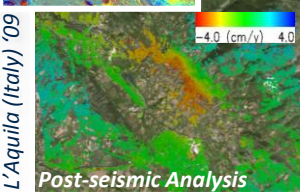
Post-seismic Analysis

Floods
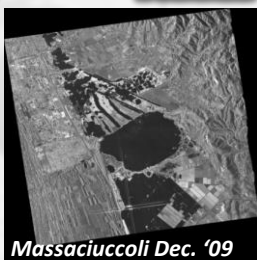
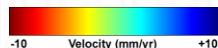*Massaciuccoli Dec. '09*

Coastal Erosion

Infrastructure Stability

Satellite monitoring of the stability of transportation and other man-made structures.
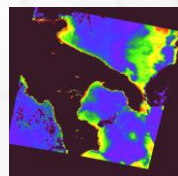

Campolattaro Dam (BN)

Highway A3 Napoli-Reggio Calabria
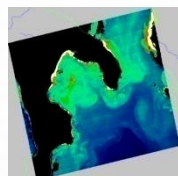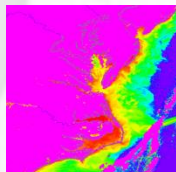
-10 Velocity (mm/yr) +10

Sea Water Quality

Remote sensing with high resolution optical sensors (Quickbird, MERIS, MODIS, Landsat) for the monitoring of the health of marine ecosystems and their degree of eutrophication.

Chlorophyll maps

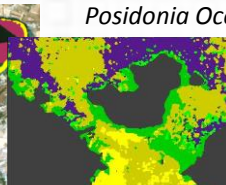*Suspended sediments and yellow substances*
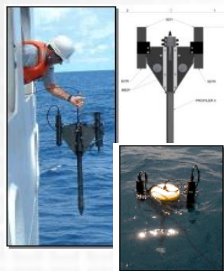
Sea surface temperature

Classification of seagrass communities Posidonia Oceanica
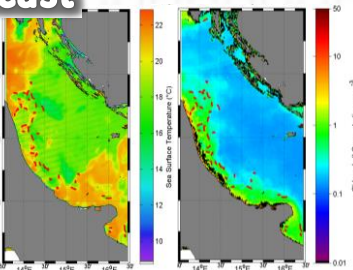
Taranto, Landsat

Tremiti, QuickBird

In situ measurements with SAtlantic Profiler:
- *Incident irradiance*
- *Emerging irradiance*
- *Chlorophyll*
- *Salinity*
- *Sea temperature*

Fishery Forecast

Fish catch lines detection and generation of potential fishing zones maps. Ocean Color Analysis (chlorophyll-a, sea surface temperature, primary productivity).

Meteorological Services

High resolution forecast services using Full Physics Numerical Weather Prediction Models (nonhydrostatic). Modeling chains for environmental risk prevention.
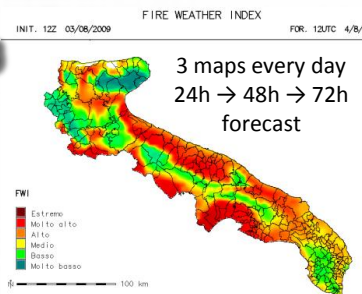
Agro-meteorological and climate data reanalysis.
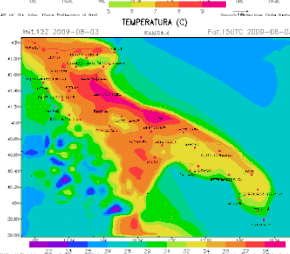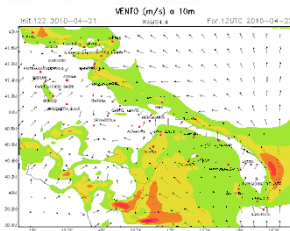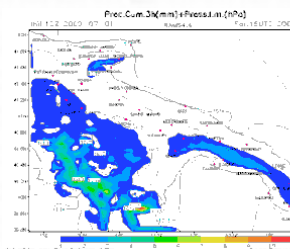
72 h forecast maps with hourly frequency

Forest Fires

3 maps every day
24h → 48h → 72h forecast

Prediction of daily forest fire hazard on municipal scale.

FWI
Estremo
Molto alto
Alto
Medio
Basso
Molto basso

Air Quality

AERONET

Aerosol Optical Thickness measurements

Cimel Sunphotometer CE 318N VBS5