

SpacEarth Technology
is a spin-off of Istituto Nazionale
di Geofisica e Vulcanologia, INGV,
currently the largest research
Institute in Geophysics and
Volcanology in Europe.

SpacEarth Technology is composed
by a team of engineers, physicists
and geologists with a long
involvement in research:
Upper Atmosphere Physics,
Space Weather, Satellite Navigation
and Positioning, Environmental
Geophysics, Marine Monitoring,
Remote Sensing and Training.
Realising innovative products and
services is our goal thanks
to the knowledge and technological
transfer acquired from
excellent research results.

SpacEarth Technology Srl
INGV spin-off

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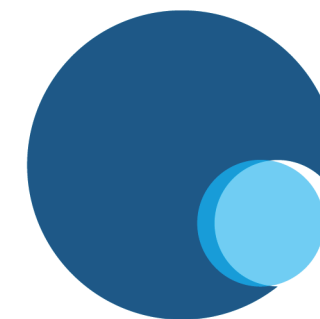
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WE WORK WITH:



www.spacearth.net



INGV spin-off
SPACEARTH
TECHNOLOGY
challenging the innovation

Istituto Nazionale di Geofisica e Vulcanologia

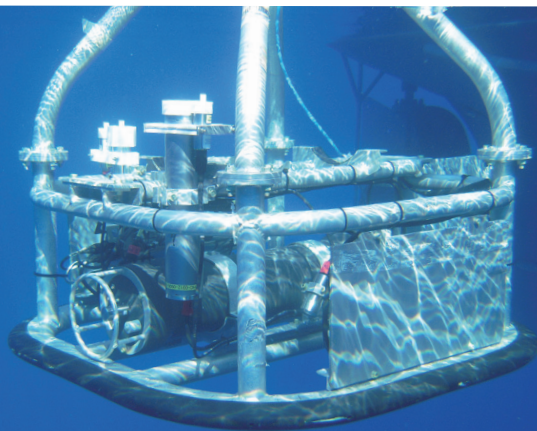


SPACEARTH TECHNOLOGY APPLICATION AREAS

With our expertise in several Geophysics applications, we offer highly customizable solutions in:

- Radio Propagation
- Space Weather
- High Precision GNSS
- Marine Monitoring
- Environmental Geophysics
- Data Management and Elaboration

Module for environmental monitoring



MARINE MONITORING

SpacEarth Technology inherits INGV's experience in EMSO. This experience spawns over ten years in EMSO of multidisciplinary marine experiments to monitor seismicity, marine mammals passages, oceanographic and geochemical parameters as well as to develop "ad hoc" products and services in marine monitoring.

SERVICES

PLANNING OF DATA ACQUISITION CAMPAIGNS site and scientific specific topics, choice of the right instruments, hardware specifications

OFF-SHORE ASSISTANCE support for marine operations

SURVEY AT SEA WITH OUR INSTRUMENTS AND PLATFORMS towing systems, seafloor observatories, environmental and geophysical instruments

R&D

CUSTOM HARDWARE/FIRMWARE/ SOFTWARE DEVELOPMENT customization of off-the-shelf hardware or design of new prototype

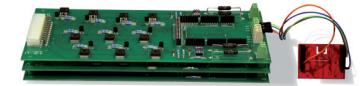
DEALING WITH BIG DATA development of specific software for data management and analysis



CASE STUDY IN PRODUCT DEVELOPMENT

A fully customized electronic system has been realized for data monitoring at Portopalo, the EMSO seafloor observatory at 3500 m deep in the Western Ionian Sea. In particular we developed the power management and the data acquisition modules.

POWER
MANAGER
MODULE



DATA
ACQUISITION
MODULE



SPECIFICATION VALUE

Number of instruments Up to 10

Power supply From 5V to 48V with overvoltage and shortcircuit protection for each instrument

Data Communication RS-232, USB and Ethernet (TCP/IP)

Fully customizable Electronics (CPU-FPGA) can be remotely configured via TCP/IP

Remote Control Via SSH or Telnet