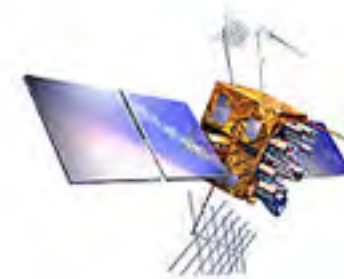




BASELINE SUPPORT COMPANY



اگر کسی چیز را بیشتر از من دیده باشد،
اینست به این جهت که من بر دوش
گigas ایستاده‌ام.

If I have seen further it is only by
standing on the shoulders of giants.
Sir Isaac Newton



ITA Group is an established business founded by environmental and territorial mapping specialists.

ITA Group was created to satisfy the emerging demand for global **Applied Topographical Engineering** services. Thanks to the strength of technological expertise within the group, ITA Group has the resources to satisfy the needs of the Public and private sector, engineering and construction companies, individual projects or private individuals who have the requirement for a partner who can offer a complete solution.

MISSION

ITA Group has been created to be an indispensable element in the production chain of **Business Italy**, ready to satisfy whatever requirement for terrestrial or hydrographical surveying.

Each specialist division follows the same philosophy to **customise its services** based on requirements. Each division tailors its offering based on client requirements, the selection of instruments used, the choice of appropriate technologies and techniques to acquire and analyse digital data are all **optimised to minimise cost and production time**.

Thanks to many decades of accumulated experience within the **ITA Group**, our clients are assured of the best technical and scientific support of the most advanced **technologies** in the sector coupled with **specialists** in all their requirements. Our ultimate goal is to always exceed **customer expectations** through efficiency, accuracy and affordability without waste.

VISION

ITA Group sees a future in which work between companies will take place with out unknowns or errors, where projects will take place without deviations of time and cost. As part of **Business Italy**, ITA Group strives for continual improvement of equipment and methodologies.

This is not an illusory dream but an objective strived for by each part of the group, a goal that each day determines operational decisions and reinforces the creation of business synergies.



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Organisation, Technology and Human Resources.



The **ITA GROUP** backbone is made up of specialist managers who operate across a body of flexible divisions, **in order to maximise time and production in each task**. ITA Group is an organisation constantly improving, in order to guarantee productivity, independent from workload or external circumstances.

Quality dictated by the high Standard of Production

In team **analysis** with the client and **direct inspections**, allow the divisions of **ITA GROUP** to assign specialists and instrumentation to the ideal level to maximise productivity and economy.

Ongoing **operational briefings** allow for a daily optimisation in order to achieve predetermined objectives targeting individual operators.

Targeted de-bugging allows for precision in the data collected and adherence to task duration.

Q A **System of Quality** that certifies the end product and guarantees its accuracy, thereby avoiding divergences to the work plan and the consequential loss of time and cost to the client.



A Constantly Improving Technology Park

ITA GROUP has based the precision of its business on the vanguard of international partners. **LEICA, TRIMBLE, RIEGL** are only some of the suppliers to the group that can be brought into the workplace alongside traditional methods, for example highest precision **theodolites** integrated with GPS systems, to the latest **laser scanners** with GPS interfaces, and photographic means of every type. Roads, bridges, dams, urbanisation with underground utilities, civil engineering, vaults, ports, lakes and **any natural or man made structure** can be surveyed or monitored by **ITA GROUP**, with whatever the level of precision requested by the client.



The importance of professional training



The value attached to **continuing education** is of the highest importance for each specialist, partner or member of the team selected to work on a project. Every element, be that human or technological must meet the operating standards of **ITA GROUP** in order to create an environment suitable to undertake projects. The professional code of conduct imposes on **ITA GROUP** direct control on the capacities of personnel and of the results obtained from appropriate contributors.

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TERRESTRIAL DIVISION



Evolution of a Science

Topography (from the Greek: *topos*; place and *graphein*; writing) is the science that studies the instruments and methods, both of calculation and design, that are required to obtain a graphic representation, more or less detailed, of part of the surface of the Earth. The first recorded topographical surveys date back to Egyptian times.

From then many works have been undertaken, creating new requirements that have stimulated the ingenuity of man to develop new techniques and new tools. The professionalism of the **surveyor** has developed in order to stay ahead of the growing needs of the sector, finally transforming into a civil engineering formal discipline, with times to completion, that guarantee efficiency and precision.

ITA GROUP is a nucleus of control capable of assimilating new methodologies with the most advanced technologies for any application of terrestrial surveying. **Correct Planning** coupled with the capacity for Control, of the methods and of human resources, always lead to the **maximisation of results**.



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The fusion of teamwork and precision instruments

The **Terrestrial Division of ITA GROUP** is a sound modular structure, endowed with the means and qualified staff capable of undertaking any type of commission. The dynamism of its operating teams and its organisational capacity allow it to undertake **targets at any level** of precision or production. This enables optimal economy for any requirement of monitoring and surveying. Through many years of real world experience with multiple businesses, the focus of **ITA GROUP** is the resolution of specific issues within practical, technological and economical limits. This creates a real-world efficiency that is without peers.

The Partner to Support Excellence

The **Terrestrial Division of ITA GROUP** operates like a spear head specialising in drawing from multiple disciplines. Aiding in the planning of projects involving **Engineering, Architecture, Geology and Scientific Research**. Aiding in the implementation and monitoring of projects for companies involved in **Restoration and Construction, Public and Private institutions, Councils of Work, Programme Management and Control, Industry, Universities and Centres of Research**.





360° Topographical Surveys

- ✦ **Detailed Celerimetric Survey** undertaken with traditional instrumentation or with GPS, either formally with RTK or static, aimed at general project planning.
- ✦ High or very high **Levelling** surveys.
- ✦ **High precision geodetic enclosed networks**, undertaken for surveys of large areas or for any other specific requirement.
- ✦ **Polygon Surveys of any type** undertaken using traditional methods of forced centring.
- ✦ 3D or longitudinal **topographical analysis** for civil engineering, road, rail, drainage and alternative energy.
- ✦ **Baseline and measurement of land movement** for any requirement (formation of embankments, civil excavations or mandatory section trenches, creation of underground utilities, excavations for all types of industrial requirements).
- ✦ **Technical expertise** for the compilation of requirements for compulsory purchase.
- ✦ **Drafting requirements for land offices**, building and land registries, registrations, updating of land use.
- ✦ **Detailed mapping** published in G.I.S. format.



- ✦ **Plans of civil or industrial structures** of any type and dimension, by component or by area.
- ✦ **Plans of urbanisation projects**, roads, underground services, rail and in general any work of art.
- ✦ **Management and expansion of quarries**, with planning and calculation of volume of excavation.
- ✦ **Detailed plans of historical sites**, archaeological finds, architectural facades, aimed at management, cataloguing and maintenance.

The Spectrum of Professional Monitoring

- ✦ **24 hour Automatic or manual Monitoring of**
 - ✦ Seismic Areas
 - ✦ Roads and Railways
 - ✦ Dams
 - ✦ Tunnels
 - ✦ Bridges
 - ✦ Viaducts
 - ✦ Skyscrapers
 - ✦ Historic monuments
 - ✦ Foundations
 - ✦ Mines
 - ✦ Landslides
 - ✦ Volcanoes
 - ✦ Areas liable to subsidence
 - ✦ Construction sites

The **Terrestrial Division of ITA GROUP** is capable of producing any solution in a 3D survey of **any project**.

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HYDROGRAPHY DIVISION



Bathymetry is a branch of oceanography that focuses on the measurement of depth, the graphic representation and the morphological study of the seabed, rivers and lakes. It is used in the planning of coastal engineering, in the study of river basins and River systems, in marine geology and in many other related sectors. The etymology of the word it is from the Greek βάθος (depth) and μέτρον (measure).

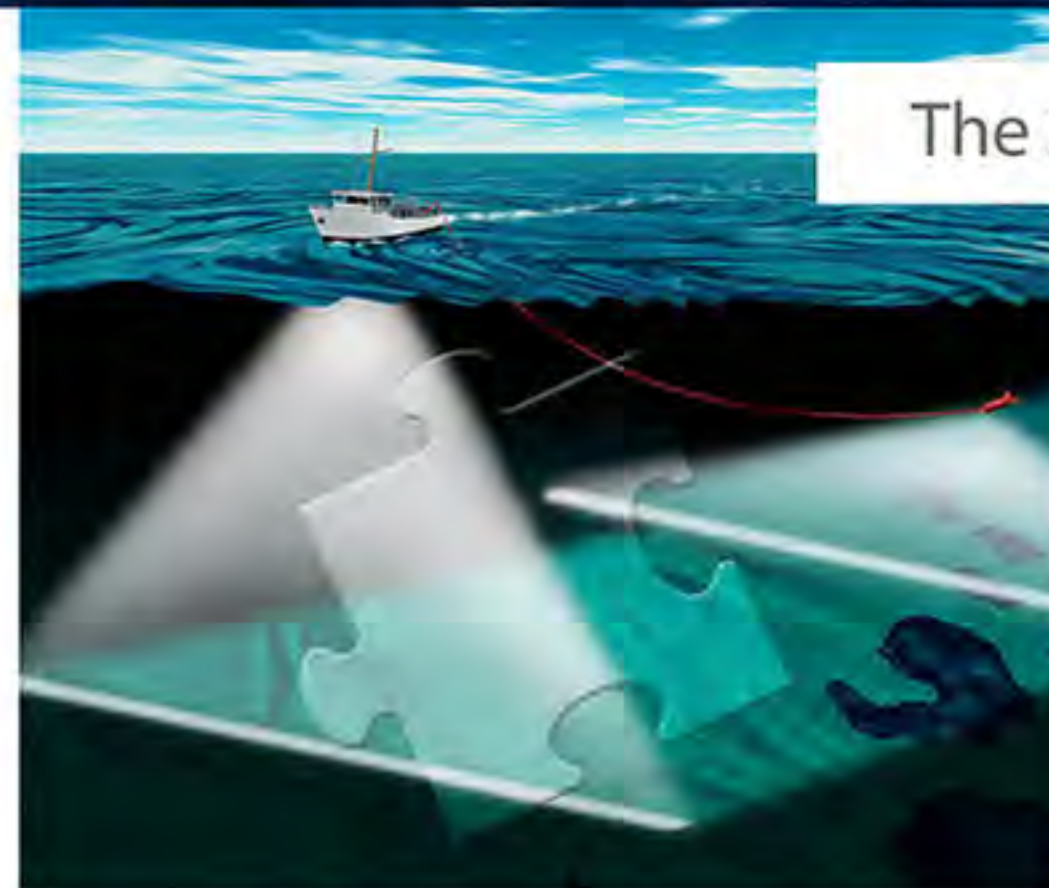
ITA GROUP has created its **Hydrography Division** whilst considering the requirements of multiple public and private entities in the national arena, creating an ideal merger between highly qualified professionals and leading edge technology. The undertaking of Bathymetric surveys is essential for many surveying operations, monitoring and study. It can be undertaken using multiple methodologies and a variety of instruments, for this reason the **organisational and technical capabilities of ITA Group** are indispensable in order to obtain suitable solutions for time management, methodology and productivity. The ITA GROUP of specialists are capable of running a complete campaign based on innovative methodology using the latest generation of instrumentation both for the acquisition and presentation of data. The investigations can be undertaken using traditional methods, **single beam echo sounding**, and using highly efficient **multi-beam echo sounding** overlaid on data obtained with **Side Scan Sonar**. The **Hydrography Division** is able to undertake Bathymetric surveys with methodologies, precision and highly detailed planning to specific customer's requirements.

The primary goal is always **Quality**, generated through **Efficiency** and **Productivity**.

Professionalism tailored to the Goal

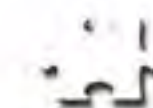
The **Hydrography Division of ITA GROUP** is able to support professionals from many advanced sectors, providing planning assistance to **Engineering, Architecture, Geology and Scientific Research**.

Thanks to its experience it has supported the application and monitoring of projects for companies involved in **construction, Public and Private institutions, Councils of Work, Programme Management and Control, Industry, Universities and Centres of Research**.

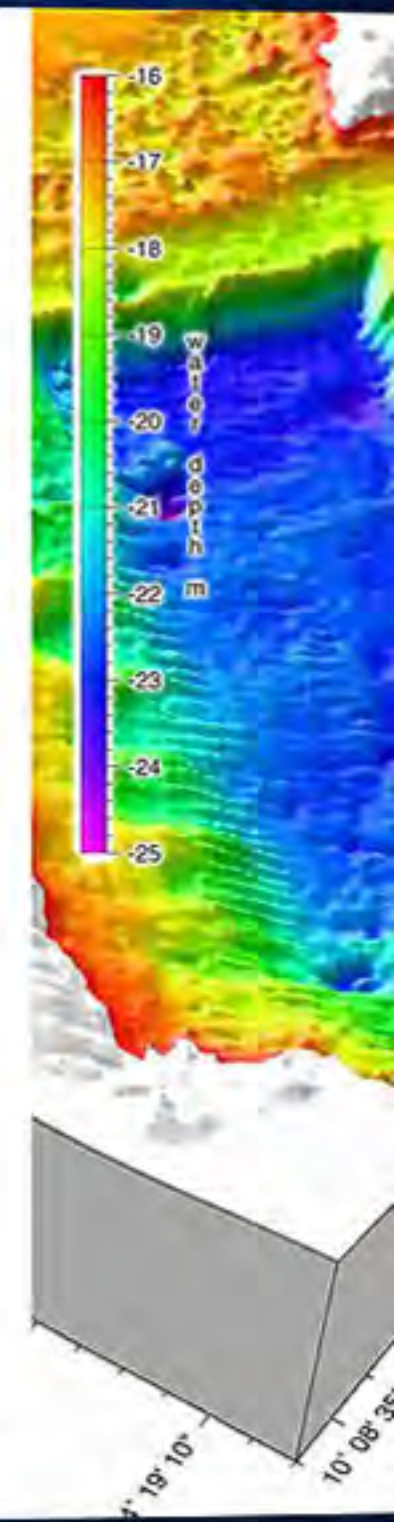


The 360° Spectrum of Bathymetric services

-  **Bathymetric surveys of the seabed aimed at the planning of Port infrastructure and engineering requirements.**
-  **Bathymetric surveys and monitoring of harbour entrances, dredging, stretches of coastline and coastal defences.**
-  **Bathymetric surveys providing calculations of excavation also suitable for legal requirements.**
-  **Surveys and monitoring of the seabed, rivers and lakes.**
-  **Surveys of cables and underwater pipelines for telecommunications etc.**
-  **Studies for the analysis of risk for hydro geological or risk of landslide with perimeter mapping.**
-  **3D Topographical planning or longitudinal for engineering.**
-  **Riverbed excavations with calculated relative volumes of spoil.**
-  **Studies on the infill of docks.**
-  **Scientific research and identification of objects on the sea bed.**
-  **Processing of data for the formation of 3D models, triangulated or net, DTM/DEM.**
-  **Drainage studies and planning for drainage works.**
-  **Simulations of flooding and floodplains.**
-  **Studies of the seabed with surveys of raised areas and of sediments.**
-  **Analysis and layout of watercourses.**



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Sede Legale: Via Chioma di Berenice n.13
TERNI (TR) 05100 ITALY
www.itagroup.info
info@itagroup.info
Numero REA TR-97258
P. IVA 01443330558



Recapiti Telefonici: Tel. +39.0564.418440
Fax +39.0564.418440



Divisione Terrestre: Via Tevere n.11
GROSSETO (GR) 58100 ITALY
terrestre@itagroup.info
mobile +39.393.2481693

Divisione Idrografica: Via Chioma di Berenice n.13
TERNI (TR) 05100 ITALY
idrografica@itagroup.info
mobile +39.328.6485690

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