WEST Systems has been working for more than 25 years in the field of technological innovation and applied research in the sectors of Earth Sciences, Environmental Monitoring and Environmental Engineering.

To strengthen and diversify its presence on the market, WEST Systems has recently carried out a company merger, incorporating the four companies listed below (which have become divisions of West Systems) and creating an international brand (Westgroup) that operates in the areas of environmental protection, security and plant engineering.

- **WEST Systems**: Systems and instrumentation for environmental monitoring (soil, air and water)
- **PHYSIS**: Design, studies and research in the water, waste and environmental-protection sectors
- **WEST Implanti**: Mechanical and electrical plant engineering, building construction and services
- **Toscana Allabmi**: Security systems and instrumentation, telecommunications networks and systems

Thanks to a professional staff made up of engineers, geologists, computer specialists and highly specialised technicians, the Group can design and develop systems to provide solutions for complex problems. Our mission is to offer advanced services able to provide solutions for environmental protection and plant engineering. The key to our success is that we offer our clients:

- Design capabilities
- Excellence in research and development
- The experience and passion of the men and women who work for Westgroup
MAIN ACTIVITIES

Westgroup activities are mainly focused on Environmental protection and Technological innovation, with particular experience in:

ENVIRONMENT

01 ENVIRONMENTAL MONITORING
- Analysis and characterisation of soil, air and water (MAC)
- Landfill monitoring
- Air quality monitoring
- Monitoring and characterisation of contaminated sites

02 ENVIRONMENTAL ENGINEERING
- Water and environmental services
- Water risk control
- Environmental protection
- Modelling and management of environmental data
- Projects for the treatment and reuse of wastewater
- Planning of urban sanitation services

03 INSTRUMENTATION
- Environmental radioactivity
- Airborne radioactivity
- Continuous monitoring stations for gas fluxes from the soil
- Geochemical environmental stations
- Measurement of diffuse emissions: portable flux meters

04 RESEARCH AND INNOVATION
- Development, coordination and management of technological innovation projects
- Software / hardware development

GENERAL CONTRACTING

01 PLANTS
ENGINEERING AND CONSTRUCTION SERVICES:
- Fixed and mobile telephone networks and systems, radio-relay systems etc.
- Fibre optics
- Mechanical plant engineering
- Electrical plant engineering
- Telecommunications systems
- Renewable energy
- Energy efficiency

02 CONSTRUCTION SERVICES
- Planning
- Construction
- Building renovation
- Global service

03 SECURITY
- Video surveillance
- Video control
- Access control
**TURNOVER**

![Graph showing turnover from 2013 to 2017 with increasing values from €1,000,000,000 to €12,000,000,000]

**SOA CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OG01</td>
<td>V</td>
<td>Civil and industrial buildings</td>
</tr>
<tr>
<td>OG11</td>
<td>III</td>
<td>Technological systems</td>
</tr>
<tr>
<td>OS04</td>
<td>I</td>
<td>Electromechanical conveying systems</td>
</tr>
</tbody>
</table>

**CERTIFICATIONS**

**INTEGRATED MANAGEMENT SYSTEM**

- UNI EN ISO 9001
- OHSAS 18001
- SA 8000
- UNI EN ISO 14001

![Certification logos for UNI EN ISO 9001, OHSAS 18001, SA 8000, and UNI EN ISO 14001]
A total of about 60 highly qualified professionals work at the company, among them engineers, geologists and technicians with specific skills in design, production and assistance in the environmental sector, pollution control, energy, waste, quality, health and security. Our strength lies in our ability to diversify and integrate our activities based on the evolution of the market and of the regulations that affect the sector.
SITES

- Florence
- Pontedera
- Milan
- Naples
- Rome
- Palermo
- Tirana

KEY COLLABORATIONS WITH RESEARCH INSTITUTIONS

[Logos of collaborating institutions]

Institute of Geosciences and Earth Resources of the Italian National Research Council
Institute of Clinical Physiology of the Italian National Research Council
University of Florence
University of Pisa
West Systems operates on a worldwide scale both to provide environmental consulting services and to design and build instrumentation. The experience gained allows the company to be present in numerous areas, offering the following services:

- Chemical, isotopic and radioisotopic monitoring of all environmental matrices with advanced statistical and geostatistical processing of the data
- Design, construction and management of monitoring instruments for all environmental matrices
- Design of works in the field of sanitation and environmental engineering, water risk control, modelling and management of environmental data
- Design, studies and research in the water, waste and environmental-protection sectors
West Systems offers services in the field of environmental monitoring and characterisation of environmental matrices, with particular experience in the assessment of air quality and in the characterisation of soil and water as well as in atmospheric dispersion modelling using models of the Environmental Protection Agency, CALMET and CALPUFF. The company’s approach combines the use of innovative methods and measuring instruments for the main control parameters, able to detect even low levels of pollutants, with statistical-analysis methods for the processing of the collected data.

The twenty-year experience of West Systems in the design and construction of instruments makes it possible to integrate the instruments, where necessary, in specific ways to obtain the best results. Services offered include all activities related to environmental studies: from the characterisation phase of sites (geological characterisation, analysis of main emission sources, meteorological analysis, etc.) to the preparation of site-specific environmental monitoring protocols, the performance of measuring campaigns, the transfer of the samples to the competent laboratories for chemical, isotopic and radioisotopic analysis and finally the statistical processing of the data and the preparation of the reports.

Such broad-spectrum investigations may be of interest for the definition of environmental quality levels in urban and suburban areas or for the evaluation of impacts linked to the presence of specific man-made sources (industry, MSW landfills, composting plants, etc.) or natural sources (e.g. volcanic and geothermal areas).

**AREAS OF OPERATION**

**MONITORING OF EMISSIONS FROM MSW LANDFILLS, SPECIAL, HAZARDOUS AND NON-HAZARDOUS WASTE**

- Monitoring of diffuse biogas emissions from landfills.
- Characterisation of conducted biogas (retention wells and cogeneration systems).
- Characterisation of odour emissions from enclosed spaces and from biofilters.
- Thermography.
- Chemical and isotopic characterisation of leachate.
- Hydrogeological surveys.
- Development of site-specific monitoring protocols.
MONITORING AND CHARACTERISATION OF SPECIFIC AREAS

- Isotopic characterisation of pollution sources via the study of stable isotopes of sulphur, nitrogen, carbon, oxygen and hydrogen.
- Monitoring of geological carbon-dioxide sequestration sites.
- Monitoring of strategic natural-gas storage sites.
- Advanced statistical and geostatistical processing, PCA.
- Preparation of site-specific protocols for chemical/isotopic characterisation, chemical speciation and dating of organic pollutants (hydrocarbons).

MONITORING AND CHEMICAL AND ISOTOPOIC CHARACTERISATION OF AIR QUALITY

- Monitoring of air quality (AQ) in urban, industrial and natural areas.
- Monitoring and chemical and isotopic characterisation of PM10, PM2.5, PM1 and gaseous pollutants (NOx, SOx, COV).
- Analysis of complex emission scenarios and mapping of emissions.
- Pollution dispersion modelling (CALPUFF/CALMET).

CHARACTERISATION OF CONTAMINATED SITES, DECOMMISSIONING OF PLANTS AND RISK ANALYSIS

- Chemical and isotopic characterisation of soil.
- Chemical and isotopic characterisation of water.
- Identification and tracing of pollution.
- Absolute risk analysis.
- Environmental characterisation regarding pollution from compounds not regulated by Italian Legislative Decree 152/06.

In this context, West Systems can offer its expertise in characterisation studies, with particular attention to pollutants not regulated by Legislative Decree 152/2006, especially radionuclides, thorium, uranium, tungsten etc., for the preparation of characterisation plans aimed at defining detailed conceptual models, defining background metal values, analysing health and environmental risks according to ISPRA guidelines. To this end West Systems can carry out third-level site-specific risk analyses, combining the use of common software applications for the calculation of the risk threshold concentration with models of the diffusion and transportation in air and groundwater.
ENVIRONMENTAL RADIOACTIVITY

- Characterisation of natural radioactivity and of radionuclide contamination in all environmental matrices.
- Radioisotopic characterisation of environmental matrices: WEST Systems has proven experience in offering its services for the radioisotopic characterisation of atmospheric particulate matter, soil, and surface or underground water. The area of operation includes the radiochemical characterisation of environmental matrices using individual sampling and subsequent analysis in accredited laboratories, continuous monitoring of the presence of gamma radiation fields as well as real-time measuring of contamination by alpha and beta emitters.

RADIOMETRY AND RADIATION PROTECTION

- Identification and characterisation of radioactive waste, NORM and TENORM.
- Radiation protection with Level III Qualified Radiation Protection Expert.
- Radiometry on products and waste.

CHARACTERISATION OF ODOUR EMISSIONS WITH DYNAMIC OLFACTOMETRY AND CHEMICAL SPECIATION

Management of sulphur and H2S: West Systems offers its expertise in the field of odour impact studies and operating protocols for impact reduction through the combined use of detailed chemical methods, advanced models for the study of atmospheric dispersion and dynamic olfactometry methods.
Tracing of pollution and identification of odour impact in the surrounding area: West Systems is specialised in tracing pollution and identifying the impact of odour in the surrounding area in accordance with the guidelines of the Region of Lombardy. The method calls for a detailed characterisation of all possible odour sources and an accurate analysis in the territorial context as follows:

- Chemical speciation (including compounds with a low olfactory threshold) and analysis of a plant’s emissions using dynamic olfactometry.
- Identification of a cluster of chemical compounds representative of the source of bad odours.
- Statistical analysis of the data using receptor models.
- Study of the odour-generating plume, quantification of impact on the surrounding area (Calpuff/Calmet) and creation of isoconcentration maps.

APPLIED ECOLOGY AND ENVIRONMENTAL MONITORING

West Systems can contribute to the evaluation of impacts in the various environmental matrices by collaborating in the preparation of strategic environmental assessments and environmental impact assessments, offering its expertise in the area of atmospheric dispersion and groundwater dispersion modelling. West Systems has experience both with the application of advanced models for the calculation of pollutant dispersion in the atmosphere (CALPUFF/CALMET) under critical conditions, with hydrogeological models for transportation in groundwater (MODFLOW, FEFLOW) and, thanks to its collaboration with research institutions, with the transportation in groundwater with reaction.

West Systems can design and implement specific monitoring protocols for the identification of pollution, combining chemical and isotopic methods in order to define a source’s contribution to environmental pollution in air, water and soil.

West Systems also offers support in the area of Life Cycle Assessment (LCA). The LCA of processes makes it possible to evaluate the environmental, social and economic impact of a process or product throughout its entire life cycle.

MANAGEMENT OF INDUSTRIAL WASTE

West Systems has significant experience in the field of monitoring of MSW landfills and hazardous waste.

In this context, the company can provide both consulting services for the evaluation of emissions and the identification of pollutants in groundwater using isotopic methods, and instrumentation for the continuous monitoring of effluents, for example leachate.

West Systems carries out radiometric characterisation of waste and develops procedures for the disposal of radioactive waste.
### MAIN REFERENCES

**MAC (MONITORING, ANALYSIS AND CHARACTERISATION)**

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
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</thead>
<tbody>
<tr>
<td>REA Impianti Srl</td>
<td>Integrated environmental monitoring at MSW landfill: quantify of diffuse CH4 and CO2 emission from soil using the accumulation chamber method (West Systems instrument). Statistical processing of flux data, construction of isoflux maps, sampling of leachate and biogas for the determination of the concentration of CH4, CO2, COV, NH3 and H2S. Assessment of the quality of air inside the landfill site and in the nearby areas (sensitive receptors).</td>
<td>2018 - ongoing</td>
</tr>
<tr>
<td>European Bank for Reconstruction and Development (EBRD)</td>
<td>Determination of Soil Diffuse CO2 Degassing from Geothermal Reservoirs in Turkey using the accumulation chamber method (West Systems instrument). And data processing using the geostatistical methods. The project is aimed to tap Turkey’s significant geothermal energy potential.</td>
<td>2017 – 2018</td>
</tr>
<tr>
<td>RiMateria SpA</td>
<td>Integrated monitoring of landfill: monitoring and characterization of diffuse emission, chemical characterization of biogas, determination of concentration of CH4 and CO2 from biogas collection wells. Evaluation of the environmental impact.</td>
<td>2017 – 2018</td>
</tr>
<tr>
<td>REA Impianti Srl</td>
<td>Integrated monitoring in landfill; air quality monitoring aimed to evaluate the impact into the atmosphere by landfill activities: sampling and analysis of volatile organic compound (VOC), Aldheydes, Chetons, Mercaptans, and Ammonia; sampling and analysis of PM10 and determination of heavy metals concentration on particulate matter; olfactometric analysis.</td>
<td>2018 - 2017 2016</td>
</tr>
<tr>
<td>Versilia Ambiente Srl</td>
<td>Composting plant monitoring campaign: Sampling and analysis of emissions from the biofilter; evaluation of odour emissions from the composting plant.</td>
<td>2017</td>
</tr>
<tr>
<td>Acquedotto del Fiora SpA</td>
<td>Chemical and olfactometric emission characterization of treatments sludge line treatment; evaluation of exceeding in threshold value for the odours compound and evaluation of chemical toxicity of detected compound.</td>
<td>2016</td>
</tr>
<tr>
<td>Controlli Sicurezza Ambientale di Giardi M. &amp; C. SRL per conto di Ecofor</td>
<td>Evaluation of biogas emissions (CH4 e CO2) by landfill; air quality analysis and thermographic study.</td>
<td>2016</td>
</tr>
<tr>
<td>NATO NSPA</td>
<td>Survey plan in the area of the military firing range of Capo San Lorenzo; update and two-year management of the EDMS (Environmental Data Management System) Lot 1: Chemical characterization of soil according national directive on contaminated area Lot 2: Particulate Matter monitoring in order to define the concentration of metals and real time monitoring of alpha, beta and gamma radioactivity.</td>
<td>2015 - ongoing</td>
</tr>
<tr>
<td>CLIENT</td>
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<tr>
<td>Ambiente S.C</td>
<td>Radioprotection service for the works of “Preventive Archeology” on the section of the high-speed train route of the Naples node.</td>
<td>2014 - 2015</td>
</tr>
<tr>
<td>Progetto Ambiente Bacino Lecce Due srl</td>
<td>Chemical characterization and odorous emissions upstream and downstream of the biofilter in the biostabilization’s plant aimed at the evaluation of the environmental impact of plant on the surrounding area.</td>
<td>2014</td>
</tr>
<tr>
<td>CISA S.p.A.</td>
<td>Assessment of the potential health risk caused by landfill emissions (possible contamination due to biogas and leachate) through a chemical and isotopic characterization of leachates and groundwater, hydrogeological and geochemical study of the groundwater, and the analysis of biogas emission.</td>
<td>2014</td>
</tr>
<tr>
<td>Ambiente SC/MEPA Malta Environment and Planning Authority</td>
<td>Definition of quantity of background ionising radiation in the soil, sediments and coastal water bodies of the Maltese Islands using high-resolution gamma spectrometry and a statistical geomining approach.</td>
<td>2012 - 2013</td>
</tr>
<tr>
<td>Consorzio dei Comuni di Ciampino</td>
<td>Evaluation of diffuse carbon dioxide emissions from the soil concerning the Determination A00271 of 19/01/2012 of the Lazio Region.</td>
<td>2012</td>
</tr>
</tbody>
</table>
West Systems designs and constructs integrated systems for monitoring environmental radioactivity:

- Monitoring of pollution from radionuclides.
- Systems for measuring alpha, beta and gamma radiation.
- Quantification of radon emissions.
- Chemical and radiochemical characterisation of airborne particulate matter.

West Systems is specialised in the design, construction and maintenance of instruments for monitoring of all environmental matrices. In particular, the company has vast experience in the development of instruments for the study of gas exchanges at the soil/atmosphere interface.

West Systems instruments are applied in a vast range of sectors, including volcanology, geothermal areas, landfills, polluted sites and hydrocarbons.

Instrumentation made by West Systems has been used for monitoring volcanoes for over 20 years in more than 30 countries.

**AREAS OF APPLICATION**

**ENVIRONMENTAL-RADIOACTIVITY MONITORING SYSTEMS**

West Systems designs and constructs integrated systems for monitoring environmental radioactivity:

- Monitoring of pollution from radionuclides.
- Systems for measuring alpha, beta and gamma radiation.
- Quantification of radon emissions.
- Chemical and radiochemical characterisation of airborne particulate matter.

**AIRBORNE-RADIOACTIVITY MONITORING SYSTEMS**

West Systems produces unmanned systems for the radioisotope characterisation, by means of real-time spectrometry, of airborne particulate matter and for measuring gamma radiation rates.
PORTABLE FLUX METER FOR MEASURING DIFFUSE EMISSIONS

The geochemical environmental monitoring stations are based on state-of-the-art instruments such as cavity ring analysers, infrared absorption with tunable lasers, quantum cascade lasers and other advanced technologies.

Where necessary, they are equipped with systems for measuring gasses dissolved in water (exchange membranes and headspace chambers) and for the evaluation of gas exchanges between the soil and the atmosphere (soil gas survey and accumulation chamber). WEST Systems designs and builds solutions for monitoring emissions from:

- Natural-gas storage sites;
- Areas destined for the geological sequestration of carbon dioxide; in order to identify the presence of carbon dioxide, methane and other hydrocarbons in all environmental matrices.

CONTINUOUS MONITORING STATIONS OF GAS FLUXES FROM THE SOIL

The systems measure:

- Diffuse CO₂, CH4 and H2S fluxes from the soil using the accumulation chamber method.
- Weather parameters: air temperature and humidity, wind speed and direction, precipitations and barometric pressure.
- Temperature and water content of soil (TDR).

GEOCHEMICAL ENVIRONMENTAL STATIONS

The West Systems portable flux meter is an instrument for measuring gas fluxes from the soil using the accumulation chamber method. It is suitable for measurements at landfills, volcanoes, geothermal areas and for the transpiration of agricultural soil. The instrument is characterised by a broad dynamic range, permits the measurement of gas fluxes from the soil (CO₂, CH4, H2S, VOC, N2O) and may also be used to evaluate uncontrolled biogas emissions from MSW landfills.
## MAIN REFERENCES

### INSTRUMENTS

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clients in 30 countries</td>
<td>Supply of portable instruments for measuring diffuse emissions of gas fluxes from the soil using the accumulation chamber method in volcanoes, geothermal areas and global cycle of methane assessment.</td>
<td>to 2018</td>
</tr>
<tr>
<td>STOGIT – SNAM RETE GAS</td>
<td>Ordinary and extraordinary maintenance of 3 geochemical stations installed in natural gas storage sites.</td>
<td>2017 - ongoing</td>
</tr>
<tr>
<td>CIVISA Centro de Informação e Vigilância Sismovulcânica dos Açores Universidade dos Açores</td>
<td>Updated of Life-support and Monitoring Network of CO2 concentrations in the air in public and private buildings and soil at Caldeiras da Ribeira Grande, San Miguel (Azores) for health risk monitoring. (Design, supply and installation of networks in 2012).</td>
<td>2017</td>
</tr>
<tr>
<td>NATO SUPPORT AGENCY (NSPA)</td>
<td>Design and supply of 2 systems units for the radio-isotopic characterization of aerodispersed particulates, by applying the real time alpha spectrometry technique. The unit performs the monitoring of sensitive areas and the military activities within the Firing Range of Salto di Quirra (Sardinia). The station measures gamma irradiation rate and conducts real time detection of alpha and beta emitting radioisotopes.</td>
<td>2016 - ongoing</td>
</tr>
<tr>
<td>European Community, LIFE+ Programme</td>
<td>Life + IPNOA Project: Development of a prototype for the characterisation of greenhouse gas emissions linked to agricultural practices.</td>
<td>2012 - 2016</td>
</tr>
<tr>
<td>MEATECS (Singapore)</td>
<td>Supply and set-up of 5 monitoring stations for airborne particulate matter.</td>
<td>2015 - 2016</td>
</tr>
<tr>
<td>CIVISA Centro de Informação e Vigilância Sismovulcânica dos Açores Universidade dos Açores</td>
<td>Supply of 4 stations for the monitoring of CO2 concentrations in the soil and soil temperatures in fumarole areas.</td>
<td>2011 - 2012</td>
</tr>
<tr>
<td>CLIENT</td>
<td>ACTIVITY</td>
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<tr>
<td><strong>Endesa (Spagna)</strong></td>
<td>Design, construction and management of a monitoring station for carbon dioxide emissions from carbon capture and sequestration sites.</td>
<td>2011</td>
</tr>
<tr>
<td><strong>ENI-STOGIT</strong></td>
<td>Design, construction and management of a monitoring network for methane and non-methane hydrocarbon emissions in soil, in underground water and in the atmosphere.</td>
<td>2008 - 2011</td>
</tr>
<tr>
<td><strong>ENI-SAIPEM</strong></td>
<td>Design, construction and installation of a CO2 monitoring station in the geological carbon dioxide sequestration reservoir of Cortemaggiore.</td>
<td>2009 - 2010</td>
</tr>
</tbody>
</table>
| **Ministry of Defence CISAM** | - Supply of 2 systems for monitoring radioactive particulate matter by means of alpha spectrometry and beta count.  
- Supply of an unmanned monitoring unit for the characterisation of radioactive particulate matter.  
- Supply of instrumentation for environmental monitoring of ionising radiation and characterisation of radioactive particulate matter;  
- Supply of hand/feet/clothing contamination monitor (system for the detection and measuring of alpha and beta radiation and surface gamma contamination);  
- Supply of a system for measuring gamma radiation frequency, concentration of toxic gases and weather parameters. | 2008 - 2010 |
Physis was established in Florence in 1989 and operates in Environmental Engineering services. The company has developed over the years an extensive curriculum in the following sectors:

- Planning and control of water risk, river works.
- Planning of hydraulic systems and water treatment.
- Planning and management of water services and management of water resources.
- Environmental monitoring.
- Planning and management of urban sanitation services.
- Industrial planning in the sector of public utility services.
- Environmental impact assessment.

### AREAS OF OPERATION

**CONTROL OF WATER RISKS AND SOIL PROTECTION**

Physis operates in this sector through the development and application of innovative methods for the analysis of weather phenomena, modelling of flooding events, territorial characterisation, risk assessment. Numerous works were carried out to map flooding risks, determine the perimeters of water risk areas and prepare action plans for safeguarding measures. The main clients are drainage basin authorities, regions and local authorities (municipalities, mountain communities, land reclamation authorities) who are interested mainly in the territorial planning and control phase.

Added to these are various private companies looking to reduce the water risks at their existing or planned facilities.

**MODELLING AND MANAGEMENT OF ENVIRONMENTAL DATA**

The representation of natural phenomena through the use of numbers is typical of engineering. Various environmental phenomena are transformed into physical laws and chemical or biological reactions that can be schematised as models. Physis has always used information technology to develop innovative approaches: from the creation of databases to the modelling of pollution processes. Added to this are specialised territorial databases, geographical information systems for the management of technological infrastructures, an online tool for the management of advanced authorisation and control procedures.
Water-supply, sewage and water-treatment services as well as urban sanitation services represent the basic structure through which local communities act to control the environment and provide drinking water. Traditionally managed directly by the public authorities, over time these services have moved towards industrial-type management with attention to the quality of the service and to its cost-effectiveness. In this context the services are subject to planning at a supra-municipal level and to control by local and national authorities.

Over the years, Physis has developed an in-depth knowledge on this subject, and its know-how and curriculum place it among the leading engineering companies, particularly in the sector of water and environmental services. The company has contributed to the planning processes for numerous areas throughout the country and has developed computerised performance-analysis systems to control the quality of the provided service and its economic/financial impact.

Anthropised environments have always required works aimed at containing flooding from waterways. While rivers are an unlimited resource for communities, they are also the cause of possible natural disasters due to the often sudden changes to their flows.

Traditional hydraulic engineering, which has a long history in our country, combined with the most innovative environmental intervention methods is part of the expertise of Physis, which has been designing river-training works for over 20 years. Today, the use of river-training with naturalistic engineering methods makes it possible to considerably limit the perception of the works, thus favouring both the protection of the fluvial ecosystem and the protection of the population and its activities.

In the context of water services, Physis designs plants using a work team that can follow the entire planning process and the control of the works’ construction. In the field of treatment plants (conversion of water to drinking water and wastewater treatment), the company collaborates with the University of Florence in order to provide innovative solutions aimed at improving environmental quality, reducing operating costs and controlling atmospheric emissions. In this context, Physis participates in European research, development and technological-innovation projects.
## MAIN REFERENCES

### CONTROL OF WATER RISKS AND SOIL PROTECTION

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
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<tbody>
<tr>
<td>Municipality of Scandicci (FI)</td>
<td>Hydrological and hydraulic studies as support for the variation to the Structural Plan and the Operative Plan.</td>
<td>2017 – 2018</td>
</tr>
<tr>
<td>Ingegnerie Toscane S.r.l.</td>
<td>Project for the improvement of the Cepparello dam in the municipality of Poggibonsi (SI).</td>
<td>2016 – 2017</td>
</tr>
<tr>
<td>Region of Tuscany</td>
<td>Realisation of a system of flood retention basins aimed at mitigating water risks in the Valdarno Fiorentino area.</td>
<td>2016 – 2017</td>
</tr>
<tr>
<td>Municipality of Lastra a Signa (FI)</td>
<td>Hydrological and hydraulic surveys as support for the variant of the Structural Plan and the Operational Plan of the Municipality of Lastra a Signa.</td>
<td>2015 - ongoing</td>
</tr>
<tr>
<td>RFI Italia</td>
<td>Engineering services for the preliminary structural design of civil works regarding the adaptation of the course of the stream Mugnone.</td>
<td>2016</td>
</tr>
<tr>
<td>Municipality of Campi Bisenzio (FI)</td>
<td>Hydrological and hydraulic study aimed at updating the knowledge framework and the forecast of the current Structural Plan and Town Planning Regulations.</td>
<td>2015</td>
</tr>
<tr>
<td>Province of Massa Carrara</td>
<td>Overall preliminary, definitive and final design of the 1st functional lot of the works for safeguarding the stream Canalmagro (MS).</td>
<td>2012 - ongoing</td>
</tr>
<tr>
<td>Municipality of Figline Valdarno (FI)</td>
<td>Realisation of a system of flood retention basins aimed at mitigating water risks in the Valdarno.</td>
<td>2009 - ongoing</td>
</tr>
<tr>
<td>Lotti S.p.A.</td>
<td>Hydrological and hydraulic study as support for the planned bridge over the river Orcia in the municipalities of Pienza and Castiglione d’Orcia (SI).</td>
<td>2015</td>
</tr>
<tr>
<td>Land Reclamation Authority Osa Albegna</td>
<td>Project regarding operations for the mitigation of water risks of the river Albegna.</td>
<td>2012 - 2014</td>
</tr>
</tbody>
</table>
## MODELLING AND MANAGEMENT OF ENVIRONMENTAL DATA

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<tbody>
<tr>
<td>Publiacqua S.p.A., Pin s.c.r.l.</td>
<td>Study on the aquifer of Prato. Hydrogeological and geochemical-isotopic surveys.</td>
<td>2015 - 2016</td>
</tr>
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</table>

## PLANNING OF WATER AND ENVIRONMENTAL SERVICES

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<tr>
<th>CLIENT</th>
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</thead>
<tbody>
<tr>
<td>ACAM S.p.A.</td>
<td>Executive project of technical and economic feasibility for reconfiguration works of the Cinque Terre, Riomaggiore and Monterosso wastewater treatment system.</td>
<td>2017 - ongoing</td>
</tr>
<tr>
<td>Nuove Acque S.p.A.</td>
<td>Management of works for the realisation of the drinking-water plants of Castiglion F.no and Cortona (Ar).</td>
<td>2015 - ongoing</td>
</tr>
<tr>
<td>Acque Toscane S.p.A.</td>
<td>Preliminary, definitive and final design, management of works, coordination of safety regarding the works for the improvement of the treatment processes of water destined for human consumption at the &quot;Olmo&quot; drinking-water plant of the municipality of Fiesole (FI).</td>
<td>2014 - ongoing</td>
</tr>
<tr>
<td>Nuove Acque S.p.A.</td>
<td>System for the supply of water to the Montedoglio reservoir. Definitive design and management of works: construction of drinking-water plant of Cortona (AR); construction of drinking-water plant of Castiglion Fiorentino (AR).</td>
<td>2010 - ongoing</td>
</tr>
<tr>
<td>CLIENT</td>
<td>ACTIVITY</td>
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<tr>
<td>ALIA Servizi per l’Ambiente S.p.A.</td>
<td>Technical assistance for Urban Hygiene Services Planning in the ATO Tuscany Centro.</td>
<td>2017 - ongoing</td>
</tr>
<tr>
<td>REVET SPA</td>
<td>MASTER PLAN REVET: Technical engineering assistance for the development of the technical and management restructuring plan.</td>
<td>2017</td>
</tr>
<tr>
<td>A TRE Ingegneria</td>
<td>Reconnaissance of the components of the Integrated Water System plants managed by Acquedotto del Fiore.</td>
<td>2016 - 2017</td>
</tr>
<tr>
<td>Belvedere S.p.A.</td>
<td>Consulting services for the preparation of documentation for the “Call for tender for the selection of a private minority partner of the company RetiAmbiente s.p.a. for the purposes of providing services for the integrated management of urban waste in the territory of the A.T.O. Toscana Costa.”</td>
<td>2015 – 2016</td>
</tr>
<tr>
<td>Mediterranea delle Acque S.p.A.</td>
<td>Series of interventions aimed a conducting a reconnaissance of works, of their state of maintenance, of the investments called for by the Area Plan and of the overall state of the service, with the construction of an information system.</td>
<td>2011 - 2016</td>
</tr>
<tr>
<td>Ingegnerie Toscane S.r.l.</td>
<td>Reconnaissance of the components present at the individual plants subject to the survey of Lot 2 - FI - Chianti - Pisano belonging to the assets of the integrated water system of the ATO Toscana Centro.</td>
<td>2014 - 2015</td>
</tr>
<tr>
<td>GESENU</td>
<td>Support for the procedure for the awarding of the contract for the provision of Urban Sanitation Services in the territory of the Area Authority Toscana Centro.</td>
<td>2014</td>
</tr>
</tbody>
</table>
Applied scientific research is a strong point that permits the continuous innovation of services and products. West Systems takes part in regional, national and international research projects in various areas of environmental protection and technological development, participating in key projects together with international research centres, universities and innovative partners.

### RESEARCH AND INNOVATION

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
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</thead>
<tbody>
<tr>
<td>Ministry of Economic Development</td>
<td>ACQUARIO Project: Photobioreactor for indoor air purification.</td>
<td>2016 - 2018</td>
</tr>
<tr>
<td>European Community, LIFE+ Programme</td>
<td>Life LESSWATT Project: Innovative wireless tool for reducing energy consumption and GHGs emission of water resource recovery facilities.</td>
<td>2017 - ongoing (2021)</td>
</tr>
<tr>
<td>Region of Tuscany</td>
<td>DANTE (Difesa dalle rAdiazioni ionizzanti con Nuovi sistemi di misura e di proTezione) [Defence against ionising radiation with new measurement and protection systems] REGION OF TUSCANY POR FESR 2014 - 2020 Development and production of innovative and integrated systems for real-time measurement and lead-free protection against ionising radiation (X/gamma) that make it possible to improve the safety of operators even with the help of augmented-reality devices.</td>
<td>2016 – ongoing</td>
</tr>
<tr>
<td>Region of Tuscany</td>
<td>ElettroOptoBiometricZootec REGION OF TUSCANY POS FESR 2014 – 2020 Development of an integrated HW/SW station dedicated to the remote biometric detection of meat animals and to the technological transfer of the data to the livestock production sector and to the applied research sector.</td>
<td>2016 – ongoing</td>
</tr>
<tr>
<td>European Community, LIFE+ Programme</td>
<td>LIFE+ SANePLAN Project: Integrated planning and management of sanitation infrastructures based on innovative precision technology.</td>
<td>2013 - 2017</td>
</tr>
<tr>
<td>European Community, LIFE+ Programme</td>
<td>LIFE+ BIOCLOC Project: BIOprocess Control through Online titrimetry to reduce the Carbon footprint in wastewater treatment.</td>
<td>2013 - 2017</td>
</tr>
</tbody>
</table>
GENERAL CONTRACTING

CONSTRUCTION, PLANTS, SECURITY

- Mechanical and electrical plant engineering, construction and services
- Design, installation and maintenance of technological systems in the fields of security and telecommunications
West Impianti/Edile was founded to create an added value in terms of services provided in the sector of technological plant engineering and construction. It was established through the acquisition of branches of specialised companies in the sector, absorbing their skilled operators and inheriting their know-how and over 30 year’s worth of experience.

The technical and managerial skills, proven by numerous important works conducted and carried out, ensure that the quality objectives set by West Systems as its company mission are reached. West Impianti can accompany projects from the design phase to the acceptance testing of the works and can also ensure after-sale maintenance services.

West Impianti is organised according to different areas of operation: mechanical plant engineering, electrical plant engineering, building renovation and services.

The mission of West Impianti is to create solutions aimed at energy savings and environmental sustainability. The experience gained in the field of LEED certification, an international environmental-sustainability programme, has led the company to search for solutions, materials and resources used at the forefront of this sector.

## AREAS OF OPERATION

### MECHANICAL SYSTEMS

- Air conditioning, air treatment, sanitisation and climate-control systems.
- Heating/refrigeration units.
- Water/sanitary systems.
- Fire prevention.
- Irrigation.
- Cleanrooms.
- Filtration.
- Water treatment.
- Cogeneration.
ELECTRICAL SYSTEMS

- Low/medium/high voltage.
- Telecommunications.
- Supervision and control.
- Automation.

SPECIAL SYSTEMS

- Security.
- Sound/sound-proofing.
- Smoke/gas detection.
- Building and home automation.

CONSTRUCTION

- Construction.
- Renovation.
- Structural works.
- Glass panelling.
- Walls and polished doors and windows.
- Sound-proofing.
- Iron structures.
- Roofs.

SERVICES

- Operation and maintenance of heating/refrigeration units.
- Maintenance of mechanical systems.
- Maintenance of electrical systems.
- Building maintenance.
- Management of building automation.
- Complete management of residential, tertiary-sector and industrial complexes.
### MAIN REFERENCES

#### MECHANICAL AND ELECTRICAL SYSTEMS

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
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</thead>
<tbody>
<tr>
<td>BANCO POPOLARE</td>
<td>Extraordinary maintenance work on the headquarters and branch of the Banca Popolare di CREMA, Via XX Settembre.</td>
<td>2016 - ongoing</td>
</tr>
<tr>
<td>BANCO POPOLARE</td>
<td>Extraordinary maintenance work on the headquarters and branch of the Banca Popolare di PIACENZA, Via IV Novembre.</td>
<td>2016 - 2018</td>
</tr>
<tr>
<td>Università degli Studi di Pisa</td>
<td>Implementation of Green Data Center of the university.</td>
<td>2016</td>
</tr>
<tr>
<td>INPS Dir. Reg. Lombardia</td>
<td>Supply and installation of two new double elevator systems at the Agency of Milan Centre.</td>
<td>2015</td>
</tr>
<tr>
<td>CITYCONTRACTOR S.C.A R.L.</td>
<td>Executive design and implementation of the mechanical systems at the residences of the New Urban Citylife Complex (Libeskind residences) - Milan.</td>
<td>2013</td>
</tr>
<tr>
<td>IM.CO S.p.A.</td>
<td>Implementation of all the mechanical and electrical systems at the New European Institute of Oncology - Milan.</td>
<td>2011</td>
</tr>
</tbody>
</table>

#### CIVIL WORKS

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<thead>
<tr>
<th>CLIENT</th>
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</thead>
<tbody>
<tr>
<td>Studio 80 Srl</td>
<td>Energy efficiency improvement works for the building housing the RTV38 television studios at Figline and Incisa Valdarno.</td>
<td>2017 - ongoing</td>
</tr>
<tr>
<td>La Fontenuova Srl</td>
<td>Construction of the health services complex in via San Domenico - Florence</td>
<td>2016 - 2018</td>
</tr>
<tr>
<td>Azienda Socio Sanitaria Territoriale Melegnano e della Martesana</td>
<td>Completion of works for the reorganisation, upgrading and adaptation to requirements for the accreditation of the Hospital of Cernusco sul Naviglio.</td>
<td>2016 - ongoing</td>
</tr>
<tr>
<td>Centostazioni SpA</td>
<td>Station of La Spezia - Reggio Emilia - Ferrara - Savona - Vercelli: Renovation of buildings and systems for the recovery and functional upgrading of the internal buildings, external areas and railway spaces.</td>
<td>2004 - 2011</td>
</tr>
<tr>
<td>Swiss Border Railway Line</td>
<td>Railway line Domodossola - Swiss border: Restoration of office building, accommodation of railroad appurtenances and station squares, regulatory adaptation of substations.</td>
<td>2006</td>
</tr>
</tbody>
</table>
## SERVICES

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<tr>
<th>CLIENT</th>
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<tbody>
<tr>
<td>Azienda di Servizi alla persona - Istituti Milanesi Martinitt e Stelline e Pio Albergo Trivulzio</td>
<td>Ordinary and extraordinary maintenance, requalification and operation of water and conditioning systems of the agency's buildings.</td>
<td>2016 - ongoing</td>
</tr>
<tr>
<td>Nato NSPA</td>
<td>General services logistic support to the Grosseto (GR) Air Force Base (AFB) for 3 years.</td>
<td>2016 - ongoing</td>
</tr>
<tr>
<td>Aler Milano</td>
<td>Ordinary maintenance operations on the electrical, water and gas systems.</td>
<td>2015</td>
</tr>
<tr>
<td>Ministry of Infrastructure and Transportation - Provv.to Int. Oopp Lombardia Emilia Romagna</td>
<td>Completion works for the activation of the Carabinieri station in the municipality of Cardano al Campo (VA).</td>
<td>2015</td>
</tr>
<tr>
<td>U.p.d. Ponte A Greve</td>
<td>Interventions to preserve the functionality and provide for the safety of the sports facility &quot;San Lorenzo a Greve&quot;.</td>
<td>2015</td>
</tr>
<tr>
<td>Vico 32 S.r.l.</td>
<td>Preliminary, definitive and final design of the mechanical and electrical systems, preparation of files for inspection by the fire department and report pursuant to law 10/1991 - energy certification for the new construction of a building on via Vico in Milan.</td>
<td>2015</td>
</tr>
</tbody>
</table>
**VIDEO SURVEILLANCE**

Design, realisation and maintenance of “turn-key” public and private video surveillance systems.

**VIDEO SURVEILLANCE OF PUBLIC SPACES**

These systems make it possible to carry out monitoring and video surveillance in public spaces, including recording of the images, as a deterrent to vandalism, theft and acts of terrorism. In particular, these city video surveillance systems, which are connected to operating centres, use high-resolution megapixel cameras (IP cameras) suitable for use with video recognition and video-analysis applications to combat vandalism and terrorism (to be used by public-security agencies). Such video surveillance systems can be wired (using copper or optic cables) or wireless, depending on the specific needs, connection requirements and any existing infrastructure. We can assist the final client with any administrative procedures and material precautions to be adopted for compliance with data protection laws.
VIDEO CONTROL FOR COMPANIES AND PRIVATE INDIVIDUALS

Video control systems make it possible to monitor entrances, industrial and commercial spaces and are used to prevent vandalism and theft. Today, the most sought-after video control systems use video cameras of the latest generation with IP technology (with extremely high image resolution) that permit specific image processing activities with the help of elaborate applications. These systems can be monitored and managed remotely, from great distances, even via mobile phones and tablets using the fixed and mobile public telephone network (ADSL and UMTS). Such video surveillance systems can be wired (using copper or optic cables) or wireless, depending on the specific needs, connection requirements and any existing infrastructure.

ACCESS CONTROL

Design, realisation and maintenance of “turn-key” access control systems for companies. These systems serve to identify and distinguish the access of certain individuals, potentially during specific time slots or in pre-established areas. This application is particularly indicated for offices, sensitive areas, hospitals, banks, airports and ports, military installations. The access control system is made up of intelligent terminals connected to readers of various kinds depending on the specific application, keypads and badge readers. The system is managed and coordinated by more or less complex software applications that make it possible to monitor all events that occur through the access points. Access control systems with various levels of complexity can be developed, ranging from the simplest bi-directional control of an access point to the most complex system architectures. Particular access control systems are those for access to restricted-traffic areas (possible installation of bollards, video cameras with licence-plate recognition software) or systems for the automated management of car parks (barriers, video cameras, vehicle counters and pay stations).

FIRE PREVENTION AND ALARM SYSTEMS

Design, realisation and maintenance of “turn-key” systems for the detection of smoke and gas (methane, carbon monoxide, CO\textsubscript{2}) both for companies and for private individuals, using the most up-to-date sensor products.

TELECOMMUNICATIONS SYSTEMS

Consulting services, design, installation, testing and maintenance of fixed telecommunications networks with copper or optical fibre cables, fixed networks with radio-relay systems and infrastructures for mobile services:

- Design of networks at the various levels established by the regulations.
- Radio-coverage studies.
- Planning and coordination of preparatory activities prior to realisation.
- Application for and acquisition of the necessary permits.
- Realisation of the infrastructures and related services.
- Analysis of radio coverage, verification of emission levels.
- Cable installation and connection.
- Installation and acceptance testing of network transportation devices.
- Installation and acceptance testing of radio devices and transmission elements.
- Network configuration.
- Maintenance services for the network and its accessory systems.
ENERGY EFFICIENCY

Design, realisation, acceptance testing and maintenance of technological solutions for energy efficiency.
- Small and medium-size photovoltaic systems.
- Conventional boilers.
- Condensing boilers.
- Heat pumps.
- Solar heaters.

SERVICES TO PREVENT AND COMBAT INDUSTRIAL ESPIONAGE IN DEFENCE OF COMPANIES AND PRIVATE INDIVIDUALS

- Detection of RF listening devices, telephone listening devices, GSM listening devices, laser listening devices, PLC listening devices, micro audio and video recorders, GPS listening devices and car locators, hidden micro cameras (wired and wireless).
- Detection of spyware (spying programmes), communications and wiretapping in progress on fixed devices, GSM and UMTS mobile devices.
- Evaluation of suspicious wiring and of any devices found or works carried out by third parties.
- Preparation of work environments (e.g. conference rooms) secured against undesired eavesdropping, both inside and outside a company’s facilities.
- Inspection of personal computers, tablets and electronic devices in general.
- Cleanup of surroundings: electronic, electric, telephone, vehicles, external and internal data lines.
- Supply and installation of hidden video surveillance.

SYSTEMS FOR THE MANAGEMENT OF PRIVATE AND PUBLIC USERS

Consulting services, design, installation, acceptance testing and maintenance of products.
- Queue management systems at service desks.
- Information systems for users.
- Door sign systems for hotels, businesses and public establishments.

OTHER ACTIVITIES

Design, realisation and maintenance of “turn-key” systems.
- Video/audio/microphone systems.
- Building automation systems.
- Specialised evaluations and consulting services.
## MAIN REFERENCES

### VIDEO SURVEILLANCE/ANTI-INTRUSION SYSTEM/FIRE FIGHTING SYSTEM

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
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</thead>
<tbody>
<tr>
<td><strong>Salvatore Ferragamo SpA</strong></td>
<td>Implementation of special systems: Intrusion detection, video surveillance, fire detection and access control at the new fashion modeling department of Salvatore Ferragamo, Florence.</td>
<td>2017 - 2018</td>
</tr>
<tr>
<td><strong>Terminal Darsena Toscana S.r.l.</strong></td>
<td>Implementation and maintenance of video surveillance at Tuscany Dock, Industrial Port of Livorno.</td>
<td>2011 - 2018</td>
</tr>
<tr>
<td><strong>Condominio Grattacielo</strong></td>
<td>Video surveillance system</td>
<td>2016</td>
</tr>
<tr>
<td><strong>Borgo Uno Sas</strong></td>
<td>Implementation of CCTV system at the Borgo Asti shopping centre.</td>
<td>2013 – 2016</td>
</tr>
<tr>
<td><strong>Terminal Darsena Toscana S.r.l.</strong></td>
<td>CCTV system at the Darsena Toscana Industrial Port, Livorno.</td>
<td>2012 – 2016</td>
</tr>
<tr>
<td><strong>Municipality of Florence</strong></td>
<td>Restoration of the video surveillance system at the Porte Sante cemetery, Florence.</td>
<td>2015</td>
</tr>
<tr>
<td><strong>NATO NSPA</strong></td>
<td>Expansion of CCTV system of the 46th Air Brigade PISA</td>
<td>2014</td>
</tr>
<tr>
<td><strong>NATO NSPA</strong></td>
<td>Supply of remote surveillance and monitoring system to the 46th Air Brigade PISA</td>
<td>2013</td>
</tr>
<tr>
<td><strong>Comando Legione Carabinieri “Toscana”</strong></td>
<td>Improvement and expansion of the video surveillance system at the “Baldissera” Carabinieri station, Florence.</td>
<td>2013</td>
</tr>
<tr>
<td><strong>KME ITALY S.p.A.</strong></td>
<td>Acoustic warning systems at the Fornaci di Barga (LU) plant.</td>
<td>2013</td>
</tr>
<tr>
<td><strong>KME ITALY S.p.A.</strong></td>
<td>Video surveillance system at the Serravalle Scrivia (AL) plant.</td>
<td>2012</td>
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</tbody>
</table>

### ENERGY EFFICIENCY

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<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
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</thead>
<tbody>
<tr>
<td><strong>Enel Energia S.p.A.</strong></td>
<td>Installation of photovoltaic, conditioning and heating systems in Tuscany and Umbria.</td>
<td>2015-2016</td>
</tr>
<tr>
<td><strong>Enel Energia S.p.A.</strong></td>
<td>Installation of photovoltaic systems in Tuscany.</td>
<td>2014</td>
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</tbody>
</table>
### ELECTRICAL SYSTEMS

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<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
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</thead>
<tbody>
<tr>
<td>Soprintendenza Speciale per il Patrimonio Storico Artistico</td>
<td>Restoration of the electrical systems, Cappella Palatina and Cacce Superiori, Boboli Gardens, Florence.</td>
<td>2015-2016</td>
</tr>
</tbody>
</table>

### TELECOMMUNICATIONS (*)

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>ACTIVITY</th>
<th>PERIOD</th>
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</thead>
<tbody>
<tr>
<td>Vodafone</td>
<td>Coordination and supervision of design activities, management of the works and realisation of mobile telephone networks (BTS) and radio-relay systems in Italy on behalf of SIETE S.p.A.</td>
<td>2007-2016</td>
</tr>
<tr>
<td>Tower Co. – Autostrade Per L’Italia</td>
<td>Coordination and supervision of design and “turn-key” realisation activities of telecommunications service systems and stations, RF systems for special coverage in Tunnel A26 and along the Valico highway bypass on behalf of ETS S.r.l.</td>
<td>2002-2006</td>
</tr>
<tr>
<td>Selex Gruppo Finmeccanica</td>
<td>Coordination and supervision of the design and realisation activities of the TETRA network for the Winter Olympics in Turin on behalf of ETS S.r.l.</td>
<td>2004</td>
</tr>
<tr>
<td>Wind Telecomunicazioni</td>
<td>Management and coordination of the design and realisation structure of integrated mobile telephone networks (BTS) in Central Italy.</td>
<td>1999-2003</td>
</tr>
<tr>
<td>Enel – Direzione Produzione E Trasmissione (*)</td>
<td>Coordination of the design, operation and management structure of Enel telecommunications service systems and networks throughout Italy.</td>
<td>1967-1999</td>
</tr>
</tbody>
</table>

(*)Activities carried out by some of the current West Systems Partners during their previous work experiences
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