



## PORTFOLIO

*Geotechnical Service  
Controls, surveillance and monitoring  
of road and railway infrastructures  
Consolidation works*

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Compagnia Torinese Monitoraggi (Torino Monitoring Company), also known as CTM, was established in January 1996. CTM operates in the field of instrumental measurements within territorial control and civil engineering. We carry out geotechnical investigations since 2005, and consolidation works since 2021..

Our Mission is the communication and development of a «turn-key» monitoring approach, where instrumental monitoring becomes a fundamental tool in civil engineering, as well as in physical planning and environmental surveillance.

Since its inception, CTM has applied the best and most advanced instrumental monitoring technologies, and management procedures, throughout Italy and other countries.

We build and manage monitoring and early warning systems within areas affected by e.g. landslides and/or floods, and during construction and operational phases of civil structures.

We apply instrumental surveys and structural monitoring to Civil engineering, Quantitative verification of project design assumptions Operation and surveillance of Land and Environment around an infrastructure, for the evaluation of natural hazards, and their mitigation.

## ***STAFF***

CTM Staff is a multispecialised team of professionals and specialized technicians:

- Geotechnical Engineers experienced in soil/ground response, and the analysis of its characteristic parameters
- Geomechanical Engineers specialised in the execution of underground works, and in the design and interpretation of on-site measurements for the characterization of rock masses
- Experienced geologists for surface surveys, both lithological and structural, on-site and laboratory tests, and stratigraphic examination of boreholes of any kind
- Instrumentation technicians with years of experience in special testing and geotechnical, structural, and environmental measurements
- Site technicians for the execution of either geological or environmental boreholes, at any depth, and even in harsh conditions (walls/cliffs, landfills...)
- Specialized technicians experienced in the installation of both individual instruments and automatic monitoring systems, including setup of data acquisition and automatic transmission systems, as well as the processing, validation, and data management via On-Line Web Monitoring



## ***OUR ROLE***

CiTiEmme figures as a partner, consultant, and/or provider of technical services to all entities operating in the fields of civil engineering, geotechnics, or territorial and structural monitoring, whether they are Client organizations or general contracting companies.

It relies on its technical staff to offer its Clients technical and design consulting on specific issues or project procurement.

CiTiEmme has access to well-equipped mechanical workshops for the construction of accessories and technical components, to support instrumentation or specific modifications to adapt them to any issue.

La CiTiEmme boasts extensive experience in the maintenance of instrumentation networks through inspections with specialized equipment for identifying anomalies, removing sensors, and repairing them at qualified laboratories or specialized companies.

## ***CERTIFICATIONS***

CiTiEmme holds the following certifications:

- UNI EN ISO 9001:2015 Quality Certification (No. IT0621011/1 - Sector EA 28/34, >20 years).
- ISO 45001:2018 Health & Safety Policy (No. 450821149/1 - Sector EA 28/34 >10 years).
- Since 2024 CiTiEmme also holds the ISO 14001:2015 Environmental Certification (No. 170924175).
- SOA No. 97168/7/00 categories OS 21 CL III-BIS, OS 20-A III-BIS, OS 20-B III-BIS.
- ITALFERR certification in categories J1 and X, with classification IV. SAP Code 100048844.

CiTiEmme is included in the Vendor Lists of the leading General Contractors in Italy, and numerous national and regional administrations.



# PORTFOLIO OF MAIN WORKS AND PROJECTS

## 2014 – 2024

Duration From to		PROJECT DESCRIPTION	CLIENT	Amount
2009	2015	<b>Salerno Railway Station – Construction of via Torrione underpass</b> <i>Seismic geophysical survey for materials' characterization</i> <i>Monitoring of operational railway tracks with topographic control of deformations upon works</i> <i>Geotechnical and structural monitoring during works (load cells and accelerometers)</i> <i>Remote data management</i>	INC General Contractors	€ 254,420.29
2009	2016	<b>Monitoring DG/48 Macrolotto 2 - Completion and optimization works to type 1/a of the CNR80 standards, section between km 108+000 and km 139+000 of the del A2 Salerno-Reggio Calabria Highway (multiple sites)</b> <i>Geotechnical and structural monitoring stations of the designed structures upon construction and operation phases.</i> <i>Electric sensors (e.g. joint meters, load/pressure cells...) and topographic surveys.</i>	SIS S.C.P.A.	€ 1,441,231.27
2010	2014	<b>Instability monitoring on the left slope in Valle d'Otro (Alagna Valsesia, VC)</b> <i>Geological and geomorphological survey</i> <i>Geognostic surveys</i> <i>Manual inclinometric measurement campaigns</i> <i>Installation and management of an automated geotechnical monitoring system comprising: Inclinometers with IPIs, pressure transducers, electric rod extensometers and termometers</i>	Municipality of Alagna Valsesia (VC)	€ 172,405.55
2010	2015	<b>Pedemontana Veneta Executive Project</b> <i>Geognostic surveys</i> <i>Seismic and electric geophysical surveys</i> <i>Soil sampling</i> <i>On-site and laboratory geotechnical testing</i> <i>Chemical analyses on soil samples (laboratory)</i> <i>Inclinometric and piezometric monitoring</i>	SIS S.C.P.A.	€ 611,444.85
2011	2013	<b>Rodello - Stabilization works on the eastern slope downstream of the urban center</b> <i>Geognostic surveys</i> <i>Geotechnical monitoring (inclinometri, automated piezometers)</i>	Municipality of Rodello (CN)	€ 263,424.08
2011	2013	<b>Landslide (CH) – Monitoring with inclinometers and piezometers</b> <i>Inclinometric and piezometric measuring campaigns</i>	ITALFERR S.p.a.	€ 83,456.28
2011	2013	<b>S.Pertini Caselle Airport (TO)</b> <i>Set-up of piezometric network</i>	SAGAT Engineering S.p.a.	€ 56,471.05

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
2012	2013	<b>Municipality of Stazzano - Hm. Castello</b> <i>Excavations and earth moving</i> <i>Foundation works, roadworks</i> <i>Surface hydraulic works</i> <i>Geognostic surveys</i>	Municipality of Stazzano (AL)	€ 69,166.37
2012	2013	<b>A32 Highway Torino-Bardonecchia - Assessment of the concrete cover thickness on the curbs of the Giaglione and Prapontin tunnels</b> <i>GPR investigation</i>	Musinet Engineering S.p.a.	€ 33,750.00
2012	2013	<b>Munich-Verona Railway Axis - Southern Access to the Brenner Base Tunnel, quadrupling of the Fortezza-Verona line - Lot 1: Fortezza-Ponte Gardena (BZ)</b> <i>Inclinometric and piezometric monitoring</i>	ITALFERR S.p.a.	€ 54,085.09
2012	2013	<b>Morphological reshaping and slope stabilization works in the Rochemolles and Melezet areas, Bardonecchia (TO)</b> <i>Geognostic surveys</i> <i>Automatic inclinometers and piezometers</i>	Musinet Engineering S.p.a.	€ 49,750.00
2012	2014	<b>Enhancement and modernization of the railway line RFI Potenza - Foggia</b> <i>Geognostic surveys</i> <i>Down-hole testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i>	ITALFERR S.p.a.	€ 127,272.10
2013	2013	<b>Municipality of Farigliano - Consolidation of the Gené and Viaiano areas</b> <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Slope stabilization</i> <i>Hydraulic works</i> <i>Geognostic surveys</i> <i>Geophysical investigations (seismic refraction)</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Automatic inclinometers and piezometers</i>	Municipality of Farigliano (CN)	€ 192,000.00
2013	2013	<b>Bosio - Badana Dam</b> <i>Geognostic surveys</i> <i>Geophysical investigations (seismic refraction)</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Characterization tests on the dam's materials</i>	Mediterranea delle Acque S.p.a.	€ 182,960.00
2013	2013	<b>Lavezze Dam</b>		€ 44,619.53

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		<i>Geognostic surveys</i> <i>Geophysical investigations (seismic refraction)</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Characterization tests on the dam's materials</i>	Mediterranea delle Acque S.p.a.	
2013	2013	<b>Torino NE AREA - Variant 2000</b> <i>Geognostic surveys</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Installation of piezometers</i>	Recchi Engineering S.p.a.	€ 30,000.00
2013	2013	<b>A32 - Rilevato Blanc - Beulard</b> <i>Geognostic surveys</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Installation of piezometers</i>	SITAF S.p.a.	€ 38,344.00
2013	2014	<b>Linea AV Na - Ba - Nodo Bari SUD</b> <i>Geognostic surveys</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Installation of piezometers</i>	ITALFERR S.p.a.	€ 138,216.92
2013	2014	<b>Comune di Roascio - S C del Longhino</b> <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Slope stabilization</i> <i>Hydraulic works</i> <i>Geognostic surveys</i> <i>Geophysical investigations (seismic refraction)</i> <i>On-site testing (permeability, pressiometric, SPT)</i>	Municipality of Roascio (CN)	€ 54,675.03
2013	2015	<b>Chiomonte – High Speed Train (TAV) construction site “La Maddalena”</b> <i>Geognostic surveys</i> <i>Pipes for down-hole testing</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Installation of piezometers for environmental purpose</i>	Borio Giacomo S.p.a.	€ 132,968.44
2014	2014	<b>Cycle-pedestrian path AGLIE'</b> <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Stabilization of canal banks</i> <i>Hydraulic works</i> <i>Geognostic surveys</i> <i>Automatic piezometric monitoring</i>	Canavese Canals Consortium	€ 224,426.39
2014	2014	<b>High-speed railway line Napoli-Bari - Cannello Variant</b> <i>Geognostic surveys</i> <i>Inclinometers and piezometers</i> <i>On-site testing (permeability, pressiometric, dilatometric)</i> <i>Undisturbed sample collection for laboratory analyses</i>	ITALFERR S.P.A.	€ 79,047.85
2014	2014	<b>Cuneo - Michelin Plant</b> <i>Geognostic surveys</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Installation of piezometers</i>	IGE.S Ass. office	€ 50,340.00
2014	2015	<b>Ravenna Port HUB</b> <i>Surface and down-hole geophysical surveys</i>	Ravenna Port Authority	€ 32,883.40

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
2014	2015	<b>Torino Metro line - Preliminary Design of the North Extension</b> <i>Geognostic surveys</i> <i>Inclinometers and piezometers</i> <i>On-site testing (permeability, pressiometric, dilatometric)</i> <i>Undisturbed sample collection for laboratory analyses</i>	INFRA.TO.	€ 83,599.54
2014	2015	<b>Cassano Spinola - Consolidation Via Arzano</b> <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Slope stabilization</i> <i>Surface Hydraulic works</i>	Municipality of Cassano Spinola (AL)	€ 104,974.38
2014	2016	<b>Castiglione Falletto - Works for the Consolidation of the Residential Area</b> <i>Excavations and earthworks</i> <i>Foundation and drainage works</i> <i>Slope stabilization</i> <i>Hydraulic works</i>	Municipality of Castiglione Falletto (CN)	€ 164,609.78
2014	2016	<b>San Raffaele Cimena - Hydrogeological restoration works in various locations, following the catastrophic events of November - December 2008 and April 2009</b> <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Slope stabilization</i> <i>Surface Hydraulic works</i>	Municipality of S. Raffaele Cimena (TO)	€ 139,586.10
2014	2016	<b>Stazzano - Municipal road via Monte Spineto</b> <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Slope stabilization</i> <i>Surface Hydraulic works</i>	Municipality of Stazzano (AL)	€ 199,500.00
2014	2016	<b>Turin Sewer Collector</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>MASW surveys</i>	SMAT S.p.a.	€ 32,490.59
2014	2018	<b>Piezometers – Environmental monitoring along Veneto Pedemontana Expressway</b> <i>Geognostic surveys</i> <i>Piezometers for the environmental monitoring network</i>	Geodelta S.r.l.	€ 97,733.06
2014	2018	<b>Malo Tunnel - Jet Grouting Control</b> <i>Geognostic surveys</i> <i>Installation of piping for down-hole and cross-hole geophysics, and testing</i>	SIS S.C.P.A.	€ 234,385.30
2014	2018	<b>A2 SA-RC Highway - Construction and adjustment works of Macrolotto 3.2</b> <i>Supply and installation of tunnel monitoring equipment</i> <i>Temporary consolidation works</i> <i>Management of monitoring data and data publication on Web-Based platform</i>	ITALSARC S.c.a.r.l.	€ 1,014,494.57
2015	2015	<b>Chiusa Pesio - Hm. Mirabello</b>		€ 355,851.69

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
2015	2015	<i>Slope stabilization</i> <i>Installation of rockfall nets</i> <i>Installation of rockfall barriers</i> <b>Borgo Sabotino - Latina</b>	Municipality of Chiusa Pesio (CN) SOGIN S.P.A.	€ 50,856.00
2015	2015	<i>Geognostic surveys</i> <i>Seismic refraction surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <b>Introd - Parriod Landslide</b>	Municipality of Introd (AO)	€ 53,189.25
2015	2015	<i>Geognostic surveys</i> <i>Geo-electric tomography</i> <i>Prove in foro (permeabilità, SPT)</i> <b>Mango - Landslide Via Fenoglio</b>	Municipality of Mango (CN)	€ 44,186.08
2015	2015	<i>Geognostic surveys</i> <i>Inclinometric monitoring</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <b>Galleria Canale Vernazza</b>	IREN S.p.a.	€ 35,493.99
2015	2015	<i>Geognostic surveys</i> <i>Seismic refraction surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <b>Colle Ozotto Landfill - Sanremo and Taggia</b>	Idroedil S.r.l.	€ 35,951.20
2015	2015	<i>Geognostic surveys</i> <i>Piezometers</i> <i>On-site testing (permeability, pressiometric, SPT)</i>		
2015	2015	<b>Province of Biella - SP 202 e 203 - Vigliano Biellese</b>	Province of Biella	€ 14,727.60
2015	2016	<i>Geognostic surveys</i> <i>Geophysical prospections (seismic refraction, MASW)</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <b>Plant Bosco Marengo</b>	SOGIN S.P.A.	€ 108,290.00
2015	2016	<i>Geognostic surveys</i> <i>Piezometers</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <b>Alice Castello- Hm. Valchiesa</b>	Valchiesa Ambiente	€ 39,444.50
2015	2017	<i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>MASW surveys</i> <b>Torino Outlet Village - Settimo Torinese</b>	PRAGA Service S.p.a.	€ 129,221.00
2015	2019	<i>Geognostic surveys</i> <i>Installation of inclinometers, extenso-inclinometers, and extensometers</i> <i>Borehole testing for jet-grouting characterization</i> <b>Torino Metro Line 1 - South - Section Lingotto - Bengasi</b>	Italia61 S.c.a.r.l.	€ 252,885.90
2016	2017	<b>Renovation works RFI area Torino-Lingotto</b>	IMAF S.r.l.	€ 32,750.00

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		<i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>MASW surveys</i>		
2016	2017	<b>A2 SA-RC Highway - Macrolotto 3.2 – Monitoring of Reinforced earth</b>	ITALSARC S.c.a.r.l.	€ 52,212.00
		<i>Installation and management of a topographic monitoring network on the provisional and permanent consolidation and protection works of Macrolotto 3.2 - A2 Highway</i>		
2016	2017	<b>A31 Highway - Valdastico</b>	Consortium RAETIA	€ 99,785.50
		<i>Geognostic surveys</i> <i>Geophysical prospections (seismic refraction, MASW)</i> <i>On-site testing (permeability, pressiometric, SPT)</i>		
2016	2017	<b>Loano Harbour</b>	Cemento Imprese	€ 45,900.00
		<i>Geognostic surveys</i> <i>Geophysical prospections (seismic refraction, MASW)</i> <i>On-site testing (permeability, pressiometric, SPT)</i>		
2016	2018	<b>Torino Metro Line 1 - North - Section Fermi - Cascine Vica – Executive Project</b>	ATI Project Design Geodata et al.	€ 36,000.05
		<i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i>		
2016	2018	<b>A2 SA-RC Highway - Macrolotto 3.2 – Automatic Monitoring Gallarizzo Viaduct</b>	ITALSARC S.c.a.r.l.	€ 426,986.00
		<i>Installation and data management of the tiltmetric monitoring network, and Interferometric monitoring with ground-based station</i>		
2016	2019	<b>Brenner Tunnel - Works for the construction of Lot “Mules 2-3”</b>	BTC S.c.a.r.l.	€ 194,070.53
		<i>Supply and installation of tunnel monitoring equipment – section with traditional excavation</i>		
2016	2019	<b>Activities of on-site investigations, laboratory tests, and geometric-structural surveys aimed at determining the subsurface parameters, geometric and mechanical characteristics required for seismic vulnerability assessments of civil engineering works and buildings owned by RFI – TO-GE Line</b>	ATI Sondedile / I&C Italia	€ 122,679.72
		<i>Geognostic surveys</i> <i>Installation of piping for Down-Hole testing, and testing</i> <i>Undisturbed sample collection for laboratory analyses</i>		
2017	2017	<b>Casaleggio Boiro – Hm. Castello</b>	Municipality of Casaleggio Boiro (AL)	€ 33,468.99
		<i>Geognostic surveys</i> <i>Inclinometers and piezometers</i> <i>On-site testing (permeability, pressiometric, dilatometric)</i> <i>Undisturbed sample collection for laboratory analyses</i>		
2017	2017	<b>Cratere Area – various work sites</b>	SINERGIA Rete di Imprese	€ 82,180.20
		<i>Geognostic surveys</i> <i>Geophysical prospections (seismic refraction, MASW)</i> <i>On-site testing (permeability, pressiometric, SPT)</i>		
2017	2018	<b>Plant Michelin - Torino</b>		

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		<i>Geognostic surveys</i>	Editel S.r.l.	€ 69,075.40
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
2017	2018	<b>Salussola - Hm. Brianco</b>	Acqua & Sole S.r.l.	€ 33,210.00
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
2017	2019	<b>Moncalvo – Hm. Cascina Orsolina</b>	Co.GE.FA. S.p.a.	€ 48,962.40
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
		<i>MASW surveys</i>		
2018	2018	<b>Sewer collector ‘Collettore Mediano’ Torino</b>	SMAT S.p.a.	€ 24,987.30
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
2018	2018	<b>Alessandria - Passerella Bormida Bridge</b>	City of Alessandria	€ 37,275.00
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
2018	2018	<b>Caselle Airport Torino</b>	Brillada Vittorio & C. Snc	€ 38,380.00
		<i>Drilling for runway drainage</i>		
2018	2018	<b>Consolidation Landslide ‘Grange del Frejus’</b>	Municipality of Bardonecchia	€ 79,258.18
		<i>Consolidation works in landslide area, with installation of slope protection works</i>		
2018	2018	<b>SP23 “Del Sestriere” - Champlas du col, Tr. Pragelato-Cesana</b>	Torino Città Metropolitana	€ 51,509.66
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
		<i>MASW surveys</i>		
		<i>Inclinometers and piezometers</i>		
		<i>Inclinometric reading campaigns</i>		
2018	2018	<b>Investigations to support the final design for the Mediano Sewer Collector - SMAT Torino</b>	A&K S.r.l.	€ 45,500.00
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		
		<i>MASW surveys</i>		
2018	2019	<b>A2 SA-RC Highway - Section Buonabitacolo - Lauria</b>	ANAS Salerno	€ 39,750.00
		<i>Management of the automatic monitoring network controlling landslide movements</i>		
		<i>Publishing of data on a Web-Based platform</i>		
2018	2019	<b>Valsalice Pipeline - Torino</b>	SMAT S.p.a.	€ 38,813.21
		<i>Geognostic surveys</i>		
		<i>On-site testing (permeability, pressiometric, SPT)</i>		
		<i>Undisturbed sample collection for laboratory analyses</i>		

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
2018	2019	<b>Geotechnical-environmental investigations for the executive design of the Turin Metro - Line 1 Lot 2. West Extension Rivoli Cascine Vica</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i>	RTI Geodata et Alii	€ 34,000.00
2018	2020	<b>Consolidation of State Road Aqua - Stresa</b> <i>Consolidation with installation of slope protection works</i>	Co.GE.FA. S.p.a.	€ 142,997.37
2018	2020	<b>Moncalieri-Carpice Lot 2</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>MASW surveys</i>	FCA business holdings	€ 49,953.00
2018	2020	<b>Geognostic investigations - Lot 2 Alta Valle. Application Contract of the Framework Agreement PR00220/19 dated 16/01/19.</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i>	Musinet Engineering	€ 146,403.95
2018	2021	<b>Activities of on-site investigations, laboratory tests, and geometric-structural surveys aimed at determining the subsurface parameters, geometric and mechanical characteristics required for seismic vulnerability assessments of civil engineering works and buildings owned by RFI – Lines TO-GE / TO - MI / TO - Modane</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Installation of piping for Down-hole testing</i>	ATI Sondedile /I&C Italia	€ 416,277.75
2018	2022	<b>T4 - Frejus Motorway Tunnel - Safety Tunnel of the Frejus Tunnel: project for opening the Safety Tunnel to traffic - Lot 3: External Works Italian Platform</b> <i>Supply and installation of tunnel monitoring equipment</i> <i>Temporary consolidation works</i> <i>Management of measurement data, and data publication on a Web-Based platform</i>	Manelli S.p.a.	€ 86,472.40
2018	2023	<b>High-speed railway line Napoli-Bari - Section Cancelli-Frasso-Telesino, and variant along the Line Roma-Napoli via Cassino in the Maddaloni Municipality</b> <i>Supply and installation of monitoring equipment for tunnels, temporary consolidation works, railway tracks, and landslide areas.</i>	CFT S.c.a.r.l.	€ 1,004,733.30

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
2018	<b>In progress</b>	<p><i>Multi-year management of the service and data publication on a Web-Based platform</i></p> <p><i>GPR (Ground Penetrating Radar) surveys</i></p> <p><b>“Service related to Geotechnical-geomorphologic and topographic monitoring, to be carried out as part of the construction works for the section of S.S. 652 'Fondo Valle Sangro' between the Gamberale and the Civitaluparella stations (2nd Lot – 2nd Section – 2nd Segment)</b></p> <p><i>Supply and installation of monitoring equipment for tunnels, temporary consolidation works, railway tracks, and landslide areas.</i></p> <p><i>Multi-year management of the service and data publication on a Web-Based platform</i></p>	ANAS Aquila	€ 511,569.66
2019	2019	<p><b>Roascio - Slope stabilization in Hm. Longhino</b></p> <p><i>Excavations and earthworks</i></p> <p><i>Micropile consolidation works</i></p> <p><i>Surface Hydraulic works</i></p>	Municipality of Roascio (CN)	€ 217,756.85
2019	2019	<p><b>Geotechnical investigations in the Municipality of Caselle Torinese (TO) related to the structural design of commercial buildings and infrastructure works</b></p> <p><i>Geognostic surveys</i></p> <p><i>On-site testing (permeability, pressiometric, SPT)</i></p> <p><i>Undisturbed sample collection for laboratory analyses</i></p>	SATAC SIIQ S.p.a.	€ 97,995.54
2019	2019	<p><b>Assignment for the execution of geotechnical and geophysical investigations in the Municipality of Hône (AO) preparatory to the implementation of the adaptation work of the 'Ayasse' Bridge – A5 Motorway Quincinetto-Aosta</b></p> <p><i>Geognostic surveys</i></p> <p><i>On-site testing (permeability, pressiometric, SPT)</i></p> <p><i>Undisturbed sample collection for laboratory analyses</i></p>	SAV S.p.a.	€ 15,690.00
2019	2019	<p><b>Geotechnical investigations for the Metro Line 2 in Torino – Extension of the section towards Orbassano</b></p> <p><i>Geognostic surveys</i></p> <p><i>On-site testing (permeability, pressiometric, SPT)</i></p> <p><i>Undisturbed sample collection for laboratory analyses</i></p>	R.T.I. SYSTRA /SOTECNI / NEOSIA / ITALFERR-et alii	€ 109,169.88
2019	2020	<p><b>Municipality of Gavi - Ordinances 78, 80, 99 - Flood event of October 21 and 22, 2019. Temporary works to safeguard public safety. Emergency works for material removal, vegetation cutting, and cleaning of drainage</b></p>	Municipality of Gavi (AL)	€ 450,919.99

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		channels on the North-west slope near the mule track <i>Excavations and earthworks</i> <i>Foundation works, concrete structures, roadworks</i> <i>Slope stabilization</i> <i>Surface Hydraulic works</i>		
2019	In progress	<b>Executive design, safety coordination during the design and execution phases for the construction of the 1st segment - 2nd lot of the project known as 'Salerno Porta Ovest'</b> <i>Supply and installation of monitoring equipment for tunnels, temporary consolidation works.</i> <i>Multi-year management of the service and data publication on a Web-Based platform</i>	Consorzio Arechi S.c.a.r.l.	€ 515,539.00
2020	2020	<b>Construction of new pavilions - Alba / Bra hospital</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>MASW surveys</i>	MGR VERDUNO 20005 S.p.a.	€ 36,841.50
2020	2020	<b>Indagini a supporto progettazione esecutiva per Nuovo Collettore Mediano -Torino</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>MASW surveys</i>	COL.ME.TO S.c.a.r.l.	€ 144,360.70
2020	2020	<b>Execution of a geotechnical and geophysical investigation campaign, preparatory to the design of the intervention for compliance with NTC2018 standards for the Thoux Viaduct – A5 Motorway</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Inclinometers and piezometers</i>	SAV S.p.a.	€ 33,976.00
2020	2021	<b>Indagini Geognostiche e rifacimento strumentazione in foro Frane Serre la Voute e Cassas</b> <i>Geognostic surveys</i> <i>Inclinometers and piezometers</i>	SITAF S.p.a.	€ 80,580.00
2020	2021	<b>General renovation and structural consolidation works on Detention Pavilions II and IV at the Milan - San Vittore Correctional Facility</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Non-destructive testing and other tests on the pavillons masonry</i>	MYTHOS S.C.A.R.L.	€ 30,312.00
2020	In progress	<b>Completion and optimization works of the Turin–Milan route, with local road connections, through the interconnection between S.S. 32</b>	NOVARA S.c.a.r.l.	€ 339,161.00

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
2020	2024	<p><b>'Ticinense' and S.P. 299. Novara Ring Road. Lot 0 and Lot 1</b></p> <p><i>Supply and installation of monitoring equipment for embankments, consolidation works, and railway line interferences.</i></p> <p><i>Multi-year management of the measurement service, and data publication on a Web-Based platform</i></p>	Italiana Costruzioni Infrastrutture S.p.a.	€ 237,625.93
2020	2024	<p><b>Turin Automatic Metro Line 1 – Section 3 West Extension – Lot 1 'Fermi – Collegno Centro'</b></p> <p><i>Supply and installation of monitoring equipment for the tunnel, and surface sections, comprising buildings</i></p> <p><i>Publishing of data on web-based platform</i></p>	Italiana Costruzioni Infrastrutture S.p.a.	€ 191,761.10
2020	In progress	<p><b>Turin Automatic Metro Line 1 – Section 3 West Extension - Lot 2 "Collegno Centro - Cascine Vica"</b></p> <p><i>Supply and installation of monitoring equipment for the tunnel, and surface sections, comprising buildings</i></p> <p><i>Publishing of data on web-based platform</i></p> <p><b>Redevelopment works of the Milan Hospital 'Ospedale Maggiore Policlinico, Mangiagalli, and Regina Elena' area</b></p> <p><i>Supply and related services for the management of geotechnical, topographical, structural, and piezometric monitoring equipment at the construction site of the new di Milan Polyclinic</i></p> <p><i>Data publication on a Web-Based platform</i></p>	SIS S.c.p.a.	€ 241,922.00
2021	2021	<p><b>Assignment of the seismic vulnerability assessment service, energy diagnosis, geometric, architectural, technological, and plant surveys to be delivered in BIM format, and technical-economic feasibility design to be delivered in BIM format for certain state-owned properties – Lot 4 – Agenzia del Demanio, Piedmont and Aosta Valley Directorate. Geotechnical and geophysical investigations</b></p> <p><i>Geognostic surveys</i></p> <p><i>On-site testing (permeability, pressiometric, SPT)</i></p> <p><i>Undisturbed sample collection for laboratory analyses</i></p>	R.P.A. S.p.A.	€ 42,526.00
2021	2021	<p><b>S.P. 23 'del Sestriere' - Pragelato-Cesana section. Geotechnical investigation plan aimed at defining interventions for slope instability affecting the provincial road network</b></p> <p><i>Geognostic surveys</i></p> <p><i>On-site testing (permeability, pressiometric, SPT)</i></p> <p><i>Undisturbed sample collection for laboratory analyses</i></p> <p><i>Inclinometers and piezometers</i></p>	Torino Città Metropolitana	€ 58,269.69
2021	2021	<p><b>Geological/geotechnical investigations preparatory to the design for the restoration of</b></p>	ANAS Torino	€ 70,252.99

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		the road connection along S.P. No. 142, interrupted due to the partial collapse of the bridge over the 'Sesia'. TOAD080-20 - S.P. 142 - Romagnano Sesia <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Inclinometers and piezometers</i>		
2021	2021	<b>Execution of in-situ geognostic, geotechnical, and environmental investigations, preparatory to the preparation of the Preliminary Design for the Automatic Metro Line 2 in Torino - Functional Section Politecnico-Rear of Rebaudengo Station. Lot 1: Execution of geotechnical investigations in the sub-section Politecnico-Pozzo Verona</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Automated piezometers</i>	INFRA.TO s.r.l.	€ 160,345.67
2021	2021	<b>Works for the execution of on-site geognostic, geotechnical, and environmental investigations, preparatory to the Preliminary Design for the Automatic Metro Line 2 in Torino - Functional Section Politecnico - Rear of Rebaudengo Station. Lot 2: Execution of geotechnical investigations in the sub-section Novara - Rear of Rebaudengo Station</b> <i>Geognostic surveys e On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i>	INFRA.TO s.r.l.	€ 142,547.34
2021	2021	<b>Geognostic investigation in the Municipality of Collegno (TO) - Cascina Gay Area</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Piezometers</i>	GeoStudio S.r.l.	€ 45,207.00
2021	2021	<b>Geognostic investigation at the construction site in Buttigliera Alta (TO), Hm. Ferriera</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Piezometers</i>	IMAF s.r.l.	€ 24,117.80
2021	2021	<b>Geognostic investigations and environmental surveys related to the characterization of soils and groundwater, within preliminary,</b>	ITALFERR (A.T.I. Georicerche)	€ 174,589.62

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		definitive, and executive design of railway lines and nodes, as well as road infrastructure and civil and industrial plants located within the Northern Geographic Area. LOT 1 - RdA 41808 - Regions: Piedmont, Liguria, and Aosta Valley <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Inclinometers and piezometers</i>		
2021	2021	<b>Urgent works for the consolidation and safety of the slopes on the municipal road of Borgata Tetti, in the Sabbionera area, and restoration of the road network</b> <i>Rock face stabilization through the installation of nets adjacent to the surface.</i> <i>Accessory works</i>	Municipality of Rubiana (TO)	€ 157,048.31
2021	2022	<b>Securing the municipal heritage – Reconstruction of the retaining wall with the adjacent municipal building for social purposes, next to the public road and San Martino Church. Municipality of Orsara Bormida (AL). 1st and 2nd lots.</b> <i>Slope stabilization through a retaining wall with micropiles and tie rods</i>	Municipality of Orsara Bormida (AL)	€ 136,858.48
2021	2022	<b>Slope stabilization works in Regione Boschi - Vesime (AT)</b> <i>Geognostic surveys</i> <i>On-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Inclinometers and piezometers</i>	Municipality of Vesime (CN)	€ 34,935.10
2021	2022	<b>A33 Asti-Cuneo Motorway S.p.A. - Section II Lot 6: Roddi-Enel Dam. Free-flow toll system</b> <i>Geognostic surveys and on-site testing (permeability, pressiometric, SPT)</i> <i>Undisturbed sample collection for laboratory analyses</i> <i>Inclinometers and piezometers</i>	ITINERA S.p.A.	€ 85,728.00
2021	2022	<b>A2 Salerno-Reggio Calabria Motorway (SA-RC) - Lagonegro-Lauria section. Macrolotto 2 'Works for modernization and adaptation to type 1/a of the CNR/80 standards from km 108+000 to km 139+000. DG 48/04. Assignment for the revamping of installed automatic monitoring systems</b> <i>Maintenance and restoration of automatic monitoring systems</i> <i>Structural testing and instrumental measurements.</i> <i>Management of data on web-based platform</i>	S.I.S. S.c.p.a.	€ 138,195.00
2021	2024	<b>Construction of a four-level underground parking facility in the internal area of the 'Cittadella Politecnica', located between the</b>	MATTIODA	€ 85,667.00

Duration From to		PROJECT DESCRIPTION	CLIENT	Amount
		<b>M/N classrooms and the above-ground multi-story parking lot</b> <i>Geophysical cross-hole prospections</i> <i>Supply and installation of structural monitoring sections</i> <i>Publishing and management of data on a web-based platform</i>		
2021	<b>In progress</b>	<b>S.S. n. 340 Regina – Tremezzina variant</b> <i>Geognostic surveys e indagini geofisiche</i> <i>Supply and installation of monitoring equipment for the designed works, comprising buildings</i> <i>Publishing of data on web-based platform</i>	S.I.S. S.c.p.a.	<b>€ 179,067.00</b>
2021	<b>In progress</b>	<b>S.S. 685 – Restoration works for the concrete of the arch of the Cesaronica tunnel</b> <i>Geophysical prospections inside the tunnel</i> <i>Supply and installation of tunnel monitoring sections</i> <i>Data management and publishing on web-based platform</i>	L.S.I. COSTRUZIONI	<b>€ 62,062.00</b>
2021	<b>In progress</b>	<b>Construction of civil works, line works, and related structures from km 127+343 to km 132+922 – Contract 4 Lugana-Frassino West</b> <i>Supply of monitoring instrumentation</i> <i>Management and verification of monitoring data, with the provision of software and database</i>	GEOSAT S.r.l.	<b>€ 99,965.40</b>
2022	2022	<b>Safety works on the slope below Santa Limbania, affected by hydrogeological instability - Flood events of 21-22/10/2019 and 21-25/11/2019</b> <i>Stabilization of the landslide-prone wall with the execution of scaling and installation of double-twist steel mesh in adherence</i>	Municipality of Rocca Grimalda (AL)	<b>€ 202,248.14</b>
2022	2022	<b>Improvement of the Rio Albara Watershed - Castelletto D'orba (AL)</b> <i>Geognostic and geophysical investigations</i>	Municipality of Castelletto D'orba	<b>€ 54,329.42</b>
2022	2022	<b>Carlo Amione Barracks - Torino</b> <i>Preliminary Geognostic and Geotechnical Investigations</i>	Agency for the State Property	<b>€ 92,892.00</b>
2022	2022	<b>Safety interventions for the stabilization processes of the eastern and southeastern slopes of the Gavazzana – Cassano Spinola settlement</b>	Municipality of Cassano Spinola (AL)	<b>€ 253,879.04</b>

Duration From to		PROJECT DESCRIPTION	CLIENT	Amount
		<i>Stabilization of the landslide with the construction of a reinforced concrete wall founded on micropiles and anchored with tie rods</i> <i>Gabion walls, hydraulic management, and reconstruction of a section of the sewer system</i>		
2022	2022	<b>Stabilization of the slope in severe hydrogeological instability with the risk of isolating the inhabited area of Viaiano due to the collapse of the access road – Viaiano Municipal Road – Lot I and II</b> <i>Stabilization of the valley edge of the municipal road with a micropile diaphragm.</i> <i>Restoration of the asphalt pavement and hydraulic management interventions</i>	Municipality of Farigliano (CN)	€ 471,977.30
2022	2023	<b>Hydrogeological improvement of the slope adjacent to the industrial areas – Lot I – Municipality of Rubiana</b> <i>Stabilization of the landslide with a micropile diaphragm, scaling on the wall, and installation of double-twist steel mesh in adherence</i>	Municipality of Rubiana (TO)	€ 345,687.06
2022	2023	<b>Continuous monitoring using terrestrial SAR interferometry (TInSAR) of the landslide area along the S.S.35 at km 26+800</b> <i>Continuous interferometric monitoring</i> <i>Remote management and early warning via Web-Based platform</i>	ANAS Genova	€ 74,098.75
2022	2023	<b>Stabilization and safety of the embankments and rock face in the Roccarina area – Chiusa Pesio</b> <i>Stabilization of the rock face with scaling and installation of mesh in adherence, construction of rockfall catchment ditches, demolition of rock masses</i>	Municipality of Chiusa Pesio (CN)	€ 274,399.49
2022	2023	<b>Works for upgrading to category C1 and safety improvement of the section between Chivasso and Caluso with a bypass around the town of Aré</b> <i>Track monitoring using an automated total station and biaxial electronic levels</i> <i>Data management on a Web-Based platform</i>	Sposato Costruzioni	€ 79,900.00

Duration From to		PROJECT DESCRIPTION	CLIENT	Amount
2022	2023	<b>Project for the works to upgrade the main embankment of the Tanaro River</b> <i>Geognostic, geophysical, and environmental investigations</i>	AIPO Alessandria	€ 139,205.76
2022	2024	<b>SS26dir - Preliminary investigations for the development of the intervention project on the Entrèves tunnel (AO)</b> <i>Water survey Hydrogeologic monitoring</i>	Soc. Italiana Traforo Monte Bianco	€ 56,595.00
2022	2024	<b>Hydrogeological stabilization of the slope adjacent to the industrial areas – Lot I– Rocchetta Belbo</b> <i>Consolidation of landslide with micropile retaining wall Hydraulic regulation interventions</i>	Municipality of Rocchetta Belbo (CN)	€ 249,531.25
2022	2024	<b>Stabilization of the landslide-prone slope affecting the Camere Vecchie district – Completion – Roccaforte Ligure</b> <i>Stabilization of the landslide with reinforced concrete structures founded on tieback micropile walls. Restoration of the asphalt pavement and hydraulic management interventions</i>	Municipality of Roccaforte Ligure (AL)	€ 369,618.75
2022	2024	<b>Stabilization of the landslide-prone slope above the village of Montegioco</b> <i>Geognostic and geophysical investigations</i>	Municipality of Montegioco (AL)	€ 99,810.02
2022	2024	<b>Toll Road Pedemontana Veneta – Malo Tunnel</b> <i>Ground-penetrating radar (GPR) investigations on the tunnel lining</i>	SIS S.c.p.a.	€ 69,578.50
2022	<b>In progress</b>	<b>Safety and stabilization of the slopes affected by hydrogeological instability in the town center – Roascio</b> <i>Interventions for the stabilization of the landslide with reinforced concrete curbs founded on micropiles, and anchored with tie rods. Restoration of the asphalt pavement and hydraulic management interventions</i>	Municipality of Roascio (CN)	€ 630,661.14
2022	<b>In progress</b>	<b>Stabilization of the landslide in the Castelvecchio area –Capriata d'Orba</b> <i>Stabilization of the landslide with a tieback micropile wall Natural engineering works for the surface stabilization of the slope</i>	Municipality of Capriata d'Orba (AL)	€ 663,517.80
2022	<b>In progress</b>	<b>S.P. 142/A "Biellese" (Bypass Junction) – Structural monitoring service for the</b>	ANAS Torino	€ 54,757.97

Duration From to		PROJECT DESCRIPTION	CLIENT	Amount
		<b>'Extraordinary maintenance works on the 'Torrente Cervo' bridge at km 1+000'</b> <i>Structural monitoring of the bridge over the Cervo River with Wi-Fi inclinometers</i> <i>Remote management and early warning via Web-Based platform</i>		
2022	In progress	<b>Route Napoli-Bari – Double track section Cancellor-Benevento – II Functional Lot Frasso Telesino-Vitulano – 3rd Sub-Lot San Lorenzo-Vitulano</b> <i>Geotechnical and structural monitoring of the works for the execution of the lots and the high-speed rail line</i>	GEOSAT Srl	€ 132,645.00
2022	In progress	<b>“Adriatica” – Ancona Bypass: expansion from 2 to 4 lanes from the Falconara interchange with the S.S.76 to the Baraccola area. Lot I: Falconara-Torrette section (including interchanges)</b> <i>Geotechnical and structural monitoring for the execution of works related to the lot, including tunnels, viaducts, and civil works</i>	INC S.p.a.	€ 75,217.70
2022	In progress	<b>S.S. 685 - Restoration works of the concrete in the vault of the tunnels ‘Colle Petrelle I’, ‘Colle Petrelle II’, ‘Le Case’, ‘S. Lucia’, ‘Pianelle’, and of the tunnels at km 4+295 and km 5+383</b> <i>Geotechnical and structural monitoring of the works within the seven tunnels.</i> <i>Remote management and early warning via Web-Based platform</i>	L.S.I. S.r.l.	€ 127,237.61
2023	2023	<b>Technical and economic feasibility project for integrated contracting, project management, and safety coordination – ASL TO5 various sites</b> <i>Geognostic investigations and surveys</i>	R.T.P. SD Partners s.r.l. / SIPAL S.p.A. / Piscitelli	€ 70,440.11
2023	2023	<b>East bypass of the city of Alba for the connection between the regional road to Cortemilia-Savona and the ring road for Asti-Cuneo-Turin. Third Bridge over the Tanaro River</b> <i>Geognostic investigations and surveys</i>	Cuneo Province	€ 100,752.69
2023	2023	<b>Redevelopment and enhancement works of the state-owned complex 'Antonio Cardile,' headquarters of the Police Academy for Trainee Officers, Corso Acqui No. 402 – Alessandria –</b>	Prov. OO.PP. Piemonte,	€ 84,704.00

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		<b>Ministry of the Interior Funds. Military demining works and geotechnical investigations</b> <i>Geognostic investigations and surveys</i>	Valle d'Aosta e Liguria	
2023	2023	<b>Ex-Regis Area Settimo Torinese</b> <i>Geognostic investigations and surveys</i>	Roger s.r.l.	€ 70,440.11
2023	2023	<b>Framework Agreement for the Geognostic and geophysical investigations along the Alessandria-Novara railway line</b> <i>Geognostic investigations and surveys</i>	Bonifica S.p.a.	€ 121,752.69
2023	<b>In progress</b>	<b>S.S. 38 "Dello Stelvio" – Accessibility to Valtellina Lot 4: Tirano junction. (Section 'A' (Bianzone Interchange – La Ganda Interchange) and Section 'B' (La Ganda Interchange – Campone in Tirano), along with the related environmental monitoring service during construction</b> <i>Geotechnical and structural monitoring of the works for the execution of natural and artificial tunnels, viaducts, and civil works.</i> <i>Remote management and early warning via Web-Based platform</i>	INC S.p.a.	€ 286,055.00
2023	<b>In progress</b>	<b>Supply and installation of structural monitoring sensors on viaducts and tunnels of the Salerno-Pompei-Napoli highway</b> <i>Supply and installation of structural monitoring sensors</i> <i>Assistance in the design of the systems</i>	SIPAL S.p.a.	€ 525,484.00
2023	<b>In progress</b>	<b>Construction works of the Median Collector in the southwest area of the Metropolitan Area of the Municipality of Turin and Rehabilitation of the existing South Zone Collector</b> <i>Supply and installation of structural monitoring sensors</i> <i>Topographic monitoring</i> <i>Remote management and early warning via Web-Based platform</i>	COLMETO Scarl	€ 652,057.50
2023	<b>In progress</b>	<b>Supply and installation service at sites in Italy: Acceglio, Cuneo Val Masino, Sondrio Pavullo nel Frignano, Modena Paularo, Udine Assisi, Perugia Poggio Baldi, Forlì e Cesena Acuto, Frosinone Calvello, Potenza</b> <i>Installation and maintainance of Optical Cameras</i>	Università SAPIENZA di Roma	€ 53,663.00
2024	2024	<b>Works for conducting investigations aimed at detecting the structural characteristics of 5 bridges on the road network of the Province of</b>	Province of Biella	€ 61,181.64

Duration From	to	PROJECT DESCRIPTION	CLIENT	Amount
		<b>Biella in accordance with the NTC 2018 and circular no. 633/stc. CIG A0385C069D</b> <i>Geognostic investigations and surveys</i> <i>Geophysical investigations</i> <i>Structural testing on bridges</i> <i>Laser Scan Surveys</i>		
2024	2024	<b>Services related to the Geognostic investigations and environmental characterization to support the design activities (Ref. LAV_109595).</b> <i>Geognostic investigations and surveys</i> <i>Geophysical investigations</i>	SMAT S.p.A.	€ 78,806.00
2024	2024	<b>Investigations in quarry “Gavota-Noisa”</b> <i>Geognostic investigations and surveys</i>	BUZZI UNICEM	€ 44,225.50
2024	2024	<b>Integrative Geophysical Investigations for the Identification of Foreign Bodies at the Sogin Site in Bosco Marengo (AL)</b> <i>Geophysical investigations (GPR, Electromagnetics)</i>	SO.G.I.N. S.p.a.	€ 35,620.00
2024	<b>In progress</b>	<b>Mitigation of Hydrogeological Risk and Safety Interventions on the Slope of Colle Quinzio - Vestea - Intervention C – Civitella Casanova (PE)</b> <i>Monitoring of weather conditions and deformations on instable slopes</i> <i>Net surveillance and early warning</i> <i>Remote management and early warning via Web-Based platform</i>	CALGEA Costruzioni s.r.l.	€ 51,500.00
2024	<b>In progress</b>	<b>Land Safety Measures for Landslide Risk Areas Porta dell'Acqua (Tirone) and Traforo - Urban Area Rossano – Corigliano-Rossano (CS)</b> <i>Monitoring of weather conditions and deformations on instable slopes</i> <i>Net surveillance and early warning</i> <i>Remote management and early warning via Web-Based platform</i>	REC Costruzioni s.r.l.	€ 54,150.00
2024	<b>In progress</b>	<b>Geophysical investigations with GPR method, structural investigations, and activation of the monitoring system, to be carried out in the Malo Southern Tunnel (Pedemontana Veneta Highway)</b> <i>Geophysical investigations (GPR)</i> <i>Structural testing</i>	SIS S.c.p.a.	€ 24,740.00

# **GEOLOGY AND GEOTECNICS**

## **MONITORING**

## **LAND SURVEILLANCE**

## **CONSOLIDATION WORKS**

## **DATA ANALYSIS**

## **RISK MITIGATION**

## **TERRITORIAL INFORMATION**

## **WEB-GIS**



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