



GDP Consultants Curriculum

- **Projects list 2009-2016**
- **Publications**



- **Projects list 2009-2016**

Jobs list
2009 - 2016

nr.	Client/ on behalf of	Job description	Year/s
1	Lombardi SA (CH)	Trans-andine hydraulic project "Alto Piura", Peru. Intake, outlet and stilling basin structures. Construction design Consultation on geological issues concerning the repositioning of the main works.	2016
2	Prof. G. Barla, Polytechnic University of Turin (I) / SPEA Ingegneria Europea S. p.A.	New highway bypass of the City of Genoa (I). Mainline tunnel between km 11+400/14+100. Detailed design Validation of the geological reference model of a section affected by difficult geological conditions.	2016
3	Geomin S.r.l. (Cuneo, I) / Carrières d'Arvel SA (CH)	Limestone quarry "Châbles du Midi", Villeneuve (CH). New connection shaft and access tunnel. Works supervision Assistance to the works supervisor, geomechanical underground surveys, modeling of the rock mass, design of supports and numerical modeling.	2015
4	Geomin S.r.l. (Cuneo, I) / Carrières d'Arvel SA (CH)	Limestone quarry "Châbles du Midi", Villeneuve (CH). New connection shaft and access tunnel. Construction design Evaluation of unstable rock masses along the cliff overlooking the tunnel portal and the working yard area. Cliff survey with climbing techniques. Design of supporting measures.	2016
5	Gi-RES S.r.l. (Turin, I) / Unicalce S.p.A. (Bergamo, I)	Limestone quarry of Costiolo (Northern Italian Alps) Underground extension of the tunnel system. Detailed design Hydrogeological study and numerical modeling. Supervision of <i>in situ</i> permeability tests and data interpretation.	2015
6	CMC Ravenna (I)	Tseung Kwan O / Lam Tin Tunnel & Cross Bay Link Project, Hong Kong 2.6 km twin bore mainline tunnel, EHC2 branch tunnel, highway interchanges and associated works. Construction design Geotechnical and geomechanical characterization, site assistance, geomechanical modeling.	2015
7	Geomin S.r.l. (Cuneo, I) / SEC - Société d'Exploitation de Carrières (Nice, F)	Limestone quarry of Saint-André, Nice (F). Geological, structural and stratigraphic study for the reserve evaluation.	2015
8	Gi-RES S.r.l. (Turin, I) / COClV Consortium (Genoa, I)	Milan-Genoa high-capacity/high-speed railway "Terzo Valico dei Giovi". Mainline twin tunnel and "Cravasco" adit tunnel. Construction design Study of the distribution of potential asbestos-bearing rocks. Supervision and coordination of sampling activities and of laboratory quantitative analyses on asbestos fibers.	2015 2016
9	Municipality of Valdieri (Cuneo, NW Italy)	Deep geothermal exploration borehole in Valdieri (NW Italian Alps). Works supervision Drilling supervision of the pilot borehole and of the exploitation well, assistance to <i>in situ</i> hydrogeologic tests, data interpretation.	2015 2016
10	Municipality of Valsavarenche (I)	Mini-hydropower plant, Valsavarenche (NW Italian Alps). Detailed design Geological and geomorphological study, hydrogeological study of the "Crotte" and "Proarny" water springs.	2015
11	Salerno Porta Ovest Scarl	"Salerno Porta Ovest" working yard, Salerno, southern Italy. Lot II. Construction phase Vibration monitoring in the city center: ground-seismic p-waves and air-pressure waves.	2015

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12	Municipality of Valdieri (I)	Geothermal research in the area of the municipality of Valdieri (Italian western Alps). Deep geothermal exploration well. Tender Geological & hydrogeological study.	2015
13	Municipality of Emarese (Aosta, I)	Saint-Vincent/Emarèse inter-municipal road (NW Italian Alps). Rock fall protection measures. Detailed design Geomechanical survey of cliffs with climbing techniques and drone-borne remote sensing. Numerical rock fall simulation, definition of reinforcement measures and placement of steel mesh barriers.	2015
14	Società Italiana per Condotte d'Acqua SpA (Rome, I)	"4^{ème} Rocade d'Alger" highway (Algeria). Lots 1 and 2. Construction design Geophysical surveys supervision (refraction seismic profiles and punctual P-waves velocity measurements). Geotechnical design.	2015
15	SGG Centro America SA de CV / CCAS	"El Chaparral" hydropower plant, Torola River, San Miguel (El Salvador). Dam design variation during construction. Construction phase Geological and structural surveys, borehole logging supervision, updating of the reference geological model.	2015
16	ENEL Produzione SpA (National Electricity Board, Turin, I)	S. Caterina hydropower plant, Auronzo di Cadore (Italian eastern Alps). Slope reinforcement on the right abutment of the dam. Construction design Geological and geomorphological study, slope stability analyses.	2014
17	Italferr SpA/Italian State Railways (Rome, I)	"4^{ème} Rocade d'Alger" highway (Algeria), Lots 1 and 2. Construction design Drawing of the investigation plan; borehole logging supervision; drawing of the geological reference model.	2014 2015
18	C.S.I. Srl (Milan, I) / National Electricity Board (ENEL)	Lanzada hydropower plant (Sondrio, Italian central Alps). New underground penstocks. Front-end design Hydrogeological tracing tests, results interpretation.	2014
19	Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Construction design Verona-Munich high-capacity/high-speed railway. Isarco River underpass tunnel, construction design. Support concerning critical geological and hydrogeological aspects and design issues.	2014
20	Astaldi SpA (Rome, I) / ANAS SpA	National road nr.260 "Picente", L'Aquila (central Italy). "Lot 4" section and bypass tunnel of Marana. Tender Technical advice on geological, hydrogeological, geomechanical and geotechnical issues. Support to the tender formulation.	2014
21	SWS Engineering SpA (Trento, I) / TCDD Turkish State Railways	Esme-Sahlili high-speed railway (western Turkey). Mountain section, tunnel portals and viaducts. Front-end design Geological and geomorphological risk analysis, geomechanical rock mass characterization at the tunnel portals.	2014 2015
22	Comedil Mangino Srl (Como, I)	Construction of a resort in the San Domenico di Varzo city center (Verbania, Italian western Alps). Construction phase Rock blasting vibrations monitoring.	2014

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23	GIT Gruppo Ingegneria Torino Srl (Turin, I) / Municipality of Graverè (I)	Municipal aqueduct of Graverè (NW Italian Alps), , "Piangelassa"spring. New water collection system. Front-end design Hydrogeological study.	2014
24	Municipality of Valdieri (Cuneo, I)	Geothermal research in the area of the municipality of Valdieri (Italian western Alps). Deep geothermal exploration well. Tender Support to the compilation of the tender Terms of Reference.	2014
25	Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Front-end design Verona-Munich high-capacity/high-speed railway.Site of the new Fortezza Station. Geological and geotechnical design and investigation campaign for the seismic characterization of the site.	2014 2015
26	Astaldi Canada Inc. (St. John's, Newfoundland, CDN)	Muskat Falls Hydroelectric Project (Terranova, Canada). Construction design Support to the elaboration of the construction plan of the spillway, intake, powerhouse, transition dams and earth works.	2014
27	CMC Cooperativa Muratori e Cementisti (Ravenna, Italy)	Northern Collector Tunnel of the bulk water supply project of Nairobi (Kenya). Tender technical advice, geological and geomechanical analyses.	2014
28	ENEL Produzione SpA (National Electricity Board, Turin, I)	Lanzada hydropower plant (Sondrio, Italian central Alps). New underground penstocks. Front-end design Planning of an investigation campaign for the study of the geological setting at the tunnel level.Supervision to seismic surveys, borehole logging, mineralogical analyses on asbestos-bearing rocks, and geomechanical laboratory testing.	2014 2015
29	V.I.C.O.Srl (Hône, I)	Regional road nr.45, (Val d'Ayas, Aosta, NW Italian Alps). Widening plan, Lot 1. Construction phase Technical advice and supervision of the controlled rock-blasting excavation.	2013
30	Alpina S.p.A.(Milan, I) / ITALFERR SpA	The Saudi Jeddah-Riyad "Landbridge" railway project (Saudi Arabia). Front-end design Analysis of the geological and geomorphological hazard of the 900 km long route.Drawing of the reference geological maps.	2013 2014
31	SWS S.p.A.(Trento, I) / TCDD Turkish State Railways	Sivas-Erzincan high-speed railway (eastern Turkey). Mountain section. Front-end design Geological and geomorphological risk analysis of the 250 km-long route crossing geological units including gypsum-karst and tectonic <i>mélange</i> .Drawing of the reference geological cross-section.	2013 2014
32	Gruppo Ingegneria Torino Srl (Turin, I) / Municipality of Graverè (I)	Municipal aqueduct of Graverè (NW Italian Alps), , "Piangelassa"spring. Front-end design Geomorphological and hydrogeological study for the implementation and stabilization of the water resource potential.	2013
33	Astaldi SpA Sucursal Chile (Santiago, RCH)	Sistema de impulsión agua desalada "Projecto Radomiro Tomic", Chile. Tender Technical advice, methods statement and geological risk analysis, bidding phase.	2013
34	Gi-RES S.r.l.(Turin, I) / Plose Ski SpA (Brixen, I)	Brixen skiing resort (Italian eastern Alps). Construction of an artificial snow system. Expert witness and technical advice concerning the supposed interference with the "Plose" water springs system.	2013 2014

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35	Prof.G.Barla, Polytechnic School of Turin (I) / Lauro SpA building contractor	Saint-Oyen road tunnel (Gran San Bernardo valley, NW Italian Alps).	2013
		Construction phase Review of the reference geological model, further to instability issues encountered during the excavation.	2014
36	Rocksoil S.p.A.(Milan, I) / Consorzio COCIV (Genoa, I)	Milan-Genoa high-capacity/high-speed railway "Terzo Valico dei Giovi" (Northern Italy). Lots 2 to 5: main tunnels, road network, portals and rail interconnections.	2013
		Construction design Geological, geomorphological, and hydrogeological studies on the underground and surface works, service roads, adit tunnels, and railway connections.Drawing of the design reference geological sections. General hydrogeological study, definition of the hydrogeological reference model, hydrological balance and numeric-3D modeling.	2015
37	Gi-RES Srl (Turin, I) / Unicalce SpA (Bergamo, I)	Underground limestone quarries of Costiolo and Forcella (Bergamo, Italian central Alps).	2013
		Underground exploitation extension plan. Detailed design Hydrogeological study.	2015
38	SWS Engineering SpA (Trento, I) / Astaldi SpA (Rome, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Isarco River underpass tunnel. Tender Geological and hydrogeological expertise, hydrogeological numerical modelling.	2013
39	Municipality of Rhêmes- Saint-Georges (I)	"Melignon" aqueduct network (Valle d'Aosta, NW Italian Alps). Detailed design Geological study and borehole interpretation for the implementation of the municipal aqueduct.	2013
40	IN.VA.SpA (Brissogne, I)	Optical fiber communication network, Valle d'Aosta (NW Italian Alps). Front-end design Geological and geotechnical study.	2013
41	Gi-RES Srl (Turin, I) / C.A.E.Prof.Grasso, University of Turin	Road bypass tunnel of the city of Cesana (NW Italian Alps). Illes Neuves muck dump. Expert advice for the Court-Appointed Engineer, about the supposed presence of asbestos in the tunneling muck.Definition of safety procedures for the sampling campaign.On-site sampling.	2013
42	FORALITH Bohrtechnik AG, St.Gallen (CH)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Brenner Base Tunnel. Detailed design Support to the on-site testing of the rock mass hydrogeological properties in the Griesbertal deep borehole.	2012
43	Società Italiana per Condotte d'Acqua SpA (Rome, I) / Rio Tinto Iron Ore Atlantic Ltd	Simandou Mountains iron mine (Guinea). Conakry-Simandou railway connection.	2012
		Front-end design Analysis of the geological and hydrogeological issues, support to the methods statement activity.	2013
44	Ecogeo Associates, Turin (I) / Fenice SpA	"Fenice" waste-to-energy plant, Melfi (southern Italy). Ground reclamation plan. Numerical modeling for the efficacy assessment of dewatering methods.	2012
45	C.V.A.Compagnie Valdotaine des Eaux SpA (Châtillon, I)	"Beauregard" hydropower plant (Valgrisenche, NW Italian Alps). Partial demolition of the dam.	2012
		Construction phase Concrete blasting vibration monitoring.	2014
46	Municipality of Brusson (Aosta, I)	Municipal road between the villages of La Pila and Pasquier, Brusson, Valle d'Aosta (NW Italian Alps). Detailed design Interventions for the reduction of the rock fall risk, geomorphological and structural study, rock fall numerical simulation, definition of protection measures.	2012

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47	Gi-RES Srl (Turin, I) / ENEL Produzione S.p.A. (Turin, I)	Lanzada hydropower plant (Sondrio, Italian central Alps). New underground penstocks. Front-end design Geological, structural & geomorphological study.Planning of the investigation campaign.Study and 3D characterization of the Lanzada deep-seated slope deformation affecting the existing penstocks and diversion tunnel.	2012 2013
48	Gi-RES Srl (Turin, I) / Municipality of Sarre (I)	Hydraulic basin of Goille Pesse (NW Italian Alps). Feasibility study Geological and geomorphological study of the Becca France rock avalanche and of reactivation phenomena in the detachment zone.Study on the instability- and debris flow-triggering proneness of the mountain catchment area.	2012 2013
49	Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Brenner Base Tunnel. Construction design General hydrogeological study.	2012
50	Galleria di Base del Brennero / Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Brenner Base Tunnel. Construction design Hydrogeological studies: a) Mules-Brennero pilot tunnel, b) main tunnel stretch between Mules and the Isarco River underpass, c) Trens multifunction station.	2012
51	Rocksoil SpA (Milan, I) / SINA SpA and Asti- Cuneo SpA	Asti-Cuneo highway, Northern Italy. Lot II.6 "Roddi - Diga ENEL", Verduno tunnel. Detailed design Hydrogeological study, 3D-numeric hydrogeological modeling and tracing tests.Assessment of the hydrogeological impact of the excavations.	2012 2013
52	Rocksoil SpA (Milan, I) / SINA SpA (Milan) and Consorzio COCIV (Genoa)	Milan-Genoa high-capacity/high-speed railway "Terzo Valico dei Giovi" (Northern Italy). Lot 1, external works, compensation works and road network. Construction design Geological and hydrogeological studies for the external works, adit tunnels, road network, and portals. Geological and geomorphological study of the "Carbonasca" active landslide.	2012 2013
53	IGE Energia Srl (Turin, I)	Residential building complex in the area of the municipality of Rivalta, Turin (I). Detailed design Geological, hydrogeological and seismic study.	2012
54	Piemontecnica Associates (Turin, I)	Regional Road nr.45 of the Ayas Valley (NW Italian Alps). Widening plan, Lot 1. Construction phase Hard-rock blasting design with Green Break Technology (GBT-NONEX).	2012
55	Municipality of Sarre (Aosta, I)	"Octave Bérardin" educational complex, Sarre, NW Italian Alps. Front-end, detailed & construction design Geological, geomorphologic and hydrogeological studies.	2012
56	Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Aica-Mules pilot tunnel. Construction design 3D hydrogeological modeling of the rock mass along the tunnel axis.	2012
57	JV EGIS Tunnels (Annecy, F) & Alpina SpA (Milan, I) / LTF Lyon-Turin Ferroviaire SAS (Chambéry, F)	Lyon-Turin high-speed/high capacity railway link (NW Alps, Italy/France). Saint-Martin-La-Porte exploration tunnel (SE French Alps). Tender Expertise for the works supervision team: editing of the Document de Consultation d'Entreprise (DCE), and of the bid reference geological model, risk analysis.	2012
58	Gi-RES Srl (Turin, I) / Italian National Research Council (CNR- IGG, Pisa, I)	New 1:250.000 Geological Map of Piedmont (NW Italy). Graphic and GIS-based geodatabase setup.	2012

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59	Gi-RES Srl (Turin, I) / SPEA SpA, Italian Highways (Milan, I)	New highway bypass of the City of Genoa (I). Detailed design Setup of a GIS-based reference geological database.	2012
60	Gi-RES Srl (Turin, I) / Valle d'Aosta Regional Government, north- western Italy	Valle d'Aosta regional regulation on anti-seismic buildings. Experimental definition of anti-seismic buildings design procedures based on the microseismic mapping of the municipalities of Courmayeur, Pré-Saint-Didier, and Valtournenche.	2012 2013
61	C.V.A. Compagnie Valdotaine des Eaux SpA (Châtillon, I)	Courmayeur-Morgex hydroelectric diversion tunnel (NW Italian Alps). Construction phase Hydrogeological study and assessment of the interference with the Pré-Saint-Didier geothermal system.	2012
62	Gi-RES Srl (Turin, I) / Valle d'Aosta Regional Government, north- western Italy	Natural risks management in the Valle d'Aosta territory (NW Italian Alps). Rock falls risk in residential areas and along the regional road network. Validation of the workflow adopted by the Regional Geological Survey for the risk analysis. Preliminary definition of a site-investigation methodology.	2012
63	Sondrio Province Road Dept.	New by-pass of the city of Bormio (Sondrio, Italian central Alps). Construction phase Geological assistance to the works supervision team.	2012 2015
64	Bergmeister Srl (Bozen, Italy)	Northwestern bypass of the city of Meran, NE Italian Alps. Construction design Hydrogeological study.	2011 2012
65	Golder Associates Srl (Turin, I) / Syndial SpA (ENI Group)	Abandoned iron and sulphide mining complex of Massa Marittima, Tuscany (central Italy). Environmental reclamation of the drainage tunnels. Front-end design Hydrogeological tracing tests on the Bruna and Carsia rivers, data processing and interpretation.	2011 2012
66	SWS Engineering SpA (Trento, I) / ANAS SpA	National Road nr.63 "del Cerreto" (reggio Emilia, northern Italy). Bypass tunnel of the village of Bocco. Construction design Validation of the design geological reference model. Study of the mud flows and landslide affecting the road layout. Expert advice on the underground presence of natural gas.	2011 2013
67	STEGET Srl - Georgia Branch / GGEDC Georgian Green Energy Development Company	Tsablari (23 MW), Tekhuri (19 MW), and Chala (9 MW) hydropower plants (Georgian Caucasus). Detailed design Geological, geomorphological, hydrogeological, and geomechanical reference model, planning of borehole investigations, construction methods statement.	2011 2012
68	IN.VA. SpA (Brissogne, I)	Optical fibre communication network, Valle d'Aosta (NW Italian Alps). Front-end design Geological and geotechnical studies.	2011 2015
69	Rocksoil SpA (Milan, I) / JV Trevi/Strabag	Sele-Calore aqueduct (southern Italy). "Pavoncelli-bis" hydraulic tunnel. Tender Hydrogeological risk analysis and numerical hydrogeological modeling.	2011
70	NONEX Srl (Fabriano, I)	Rock blasting by the archeological site of the City of Fiesole (Tuscany, I). Construction phase Excavation methods statement, vibrometric & seismographic monitoring.	2011
71	ENEL Produzione SpA (Italian Electricity Board, Milan, I)	Lanzada hydropower plant (Sondrio, Italian central Alps). New underground valve chamber and access tunnel. Construction phase Geological works supervision, underground geomechanical & structural surveys.	2011 2013

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72	Valle d'Aosta Regional Government, north-western Italy	Deep-seated slope deformation of Sarre (NW Italian Alps). Research/geological mapping Geological and geomorphological field study, 3D analysis of LIDAR data, analysis of satellite radar data, and analysis of the landslide evolution mechanisms.	2011 2012
73	Municipality of Rivarossa (I)	City of Rivarossa, NW Italy. Urban/territorial planning Updating of the town-planning scheme.	2011
74	Tecnis SpA (Catania)	New road tunnel of the Tenda road pass (Italian- French border, western Alps). Tender Geological study and risk analysis.	2011
75	3TI Progetti Italia Srl (Rome, I) / ANAS SpA - Italian Highways	"Colle di Nava" National Route nr.28. Pieve di Teco - Ormea section and Armo-Cantarana base tunnel (Cuneo-Imperia, SW Italian Alps). Detailed design Geological, structural, geomechanical and hydrogeological study; risk analysis. Borehole & geophysical logs interpretation. Study of the "Trastanello" deep-seated slope deformation and landslide.	2011 2014
76	Italtunnel Scarl Consortium (Milan, I)	Palermo-Messina railway, Sicily. Doubling of the Fiumetorto-Ogliastrillo section, Monte Poggio Maria tunnel (Sicily, southern Italy). Construction phase Expert advice in a claim related to differences between the designed and actual geological underground conditions.	2010 2011
77	Valle d'Aosta Regional Government - Monuments and Fine Arts Dept. (Aosta, I)	Transnational cooperation project ALCOTRA 2007/13 nr.103. Archeological site of the Piccolo San Bernardo Pass (NW Alps, I/F boundary). Geological and geomorphologic study and paleo-environmental reconstruction.	2010 2011
78	C.V.A. Compagnie Valdotaïne des Eaux SpA (Châtillon, I)	"Chavonne" hydropower plant, NW Italian Alps. Restoration plan. Feasibility study Geological and geomorphological study of the unstable slope sections potentially affecting the diversion channel.	2010 2011
79	EDILMACO Consortium (Turin, I)	National Road nr.63 "del Cerreto", Emilia Romagna, northern Italy. Tender Technical and geological advice.	2010 2011
80	CAMPUS Srl - HKE Point (Potenza, I) / Basilicata Regional Government (southern Italy)	Vocational training, Basilicata (Southern Italy). Training courses for professionals in Geothermy and Geothermal Systems.	2010 2011
81	Col di Joux Srl (Champdepraz, I)	Ayasse Creek hydropower plant, Champorcher (NW Italian Alps). Geological & geomechanical study, risk analysis.	2010
82	Valle d'Aosta Regional Government, north-western Italy	"RiskNat" Strategic Project (I/F/CH). Safe management of the trans-national state mountain territories. Seismo-tectonic study of the western Valle d'Aosta region (NW Italian Alps). Joint Venture with the National Research Council (CNR-IGG).	2010 2011
83	NONEX Srl (Fabriano, I)	Green-Break Technology (GBT). Expert advice, training courses, and design of controlled rock-blasting schemes with non-detonating explosive.	2010

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84	ENEL Servizi Srl (Milan, I) / ENEL Generation & Energy Management (Milan, I)	Lanzada hydropower plant (Sondrio, Italian central Alps). New underground valve chamber and adit tunnel. Detailed design Geological study and risk analysis, geotechnical and geomechanical design, and support to the editing of the tender documents.	2010
85	SPEA Ingegneria Europea SpA (Autostrade Group, Milan, I)	New highway bypass of the City of Genoa (I). Definition of safety procedures for the excavation in asbestos-bearing rocks. Detailed design Methods statement: underground excavations (mechanized and conventional techniques), muck management & storage, and asbestos risk management in asbestos-bearing rock units. <i>Joint venture with the University of Turin (Center for Studies on Natural Asbestos), and the National Research Council of Pisa, and SWS Engineering (Trento, I).</i>	2010 2012
86	ELC - Electroconsult SpA (Baranzate, I)	Geothermal prospection project in the Cisolak-Cisukarame-Sangiang area, West Java, Indonesia. Geological and structural study from ASTER multispectral satellite imaging.	2010
87	Rocksoil SpA (Milan, I) / EUROLINK SCpA	Straits of Messina Bridge between Sicily and Calabria (southern Italy). Accessory civil infrastructures and road network. Detailed design Hydrogeological study, borehole data interpretation, 2D & 3D numerical modeling.	2010 2011
88	CVA Compagnie Valdotaïne des Eaux SpA (Châtillon, I)	Access road to the Beauregard dam (Valgrisenche, NW Italian Alps). Access road to the dam: rock fall protection measures. Construction phase Rock fall analysis, preliminary design of stabilization and reinforcement of cliffs, works supervision and quality control.	2010
89	SPEA Ingegneria Europea SpA (Autostrade Group, Milan, I)	New highway bypass of the City of Genoa (I). Validation of the reference geological model & analysis of the asbestos hazard, Detailed design Drawing of the reference geological sections, mineralogical & petrographical analyses, quantification of asbestos-bearing rocks, borehole logs interpretation. <i>Joint venture with the University of Turin (Center for Studies on Natural Asbestos), and the National Research Council of Pisa.</i>	2010
90	Municipality of Sarre (Aosta, I)	Management plan of the Clusellaz Creek catchment area, and municipal town- & land-planning scheme. Validation and updating of the official technical documents. Geological and geomorphological study.	2010 2011
91	SEA Consulting Srl (Turin, I) / EGIS Tunnels-Autoroutes du Sud de la France	Lyon-Turin high-speed/high capacity railway link (NW Alps, Italy/France). Gantet tunnel. Construction phase Geological reconstruction of the highway twin tunnel intersected by the "Gantet fault zone".	2010
92	INELFE SAS (Paris, F)	New electric interconnection tunnel between France and Spain, Le Perthus (eastern Pyrenees, F/E). Tender Geological and structural study, risk analysis.	2010
93	ELC - Electroconsult SpA (Baranzate, I)	Geothermal prospection project in the Tampomas volcano area, West Java, Indonesia. Geological and structural study from ASTER multispectral satellite imaging.	2010
94	Valle d'Aosta Regional Government, north-western Italy	RiskNat Strategic Project (Italy/France/Switzerland) Safe management of the transnational mountain territories. Experimental plan of seismic microzoning in the municipal districts of Courmayeur, Pré-Saint-Didier and Valtournenche (Western Alps). <i>Joint venture with the Italian National Research Council (Pisa).</i>	2010 2011

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95	ALPINA SpA (Milan, I) / ASTALDI SpA (Rome, I)	Beni Haroun hydraulic tunnel (Algeria). Tender Geological & technical support, methods statement.	2010
96	Champorcher Energie Srl.(Introd, I)	"Hône III" mini-hydropower plant. Diversion pipe and power station. Construction design Geological and geomorphological study.	2009
97	Municipality of Gaby (I)	Multi-storey car park in the village of Gaby (Valle d'Aosta, Italy). Detailed design Geological, geomorphological and hydrogeological study.	2009 2010
98	Valdigne Energie Srl (Pré-Saint-Didier, I)	Faubourg hydropower station, La Thuile (Valle d'Aosta, NW Italian Alps). New access road, bridge and support of the fluvial embankments. Front-end, detailed & construction design Geological, geomorphological and hydrogeological study.	2009 2011
99	Fratelli Ronc Srl (Introd, I)	Vargno hydropower plant (Fontainemore, NW Italian Alps). Reinforcement of the dam foundations. Construction phase Works supervision.	2009
100	Eaux Valdôtaines Srl (Courmayeur, I)	Hydropower plant of Grand Haury, Valgrisenche (NW Italian Alps). Detailed design Geological, hydrogeological & geomechanical study, rock mass characterization, excavation design.	2009 2010
101	Italian National Research Council (CNR- IGG, Pisa, I) / Tuscany Regional Government	Protection of the Tuscany's underground aquifers. Hydrogeological large-scale modeling of the porous aquifers of the Arno and Serchio river basins.	2009
102	IN.VA.SpA (Brissogne, I)	New sites for mobile telephony antennas in Valle d'Aosta (NW Italian Alps). Front-end, detailed & construction design Geological, geomorphological and geotechnical studies.	2009
103	COGEIS SpA (Quincinetto, I)	Construction of small service tunnels in the city of Meyrin (CH). Tender Technical advice on the microtunneling technique.	2009
104	Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Aica-Mules pilot tunnel. Construction phase Expertise on a TBM blocking event in a fault zone with difficult geological conditions. Updating of the geological reference model for an expertise on design variations.	2009
105	GI-RES Srl (Turin, I) / Valle d'Aosta Regional government (I), Public Works Dept.	Low-enthalpy geothermal systems in the low-enthalpy geothermal systems, Valle d'Aosta (NW Italy). Feasibility study Expertise on the editing of a new regional regulation about the geological and environmental studies for the authorization procedure.	2009
106	ELC - Electroconsult SpA (Baranzate, I)	Geothermal prospection project on the Jailolo area, Halmahera island, Moluccas, Indonesia. Geological and structural study from ASTER multispectral satellite imaging.	2009
107	SEA Consulting Srl (Turin, I) / LTF Lyon- Turin Ferroviaria SAS (Chambéry, F)	Lyon-Turin high-speed/high capacity railway link (NW Alps, Italy/France). Alternative route in the Italian section. Front-end design Drawing of the new geological reference profile.	2009

Jobs list
2015 - 2016

nr.	Client/ on behalf of	Job description	Year/s
108	Dr.Eng.S.Pariset (St. Pierre, I)	Mini-hydropower station on the Colombaz Creek (NW Italian Alps). Detailed design Geological and geomorphological study.	2009
109	Valle d'Aosta Regional Telecommunications Authority (Aosta, I)	Mobile telephony network in Valle d'Aosta (NW Italian Alps). Analysis of new sites for antennas. Feasibility study Geological, geomorphological and geotechnical characterization.	2009
110	Valle d'Aosta Regional Government - Monuments and Fine Arts Dept.(Aosta, I)	Mt. Fallère archeological survey area (NW Italian Alps). Research of Mesolithic to Neolithic high-altitude settlements. Geomorphologic and geo-archaeological study, GIS multiparameter analyses, reconstruction of the paleo-environmental evolution of the research area.	2009
111	RFI SpA Italian State Railways Group	Munich-Verona high-speed/capacity railway link. Lot 5 "Bassa Atesina" (Italian eastern Alps). Feasibility study Hydrogeological modeling and impact assessment of.the "Brozolo-Salorno" tunnel.	2009
112	JV Alpina SpA (Milan, I) - EGIS Tunnels (Guyancourt, F) / LTF Lyon-Turin Ferroviaire SAS (Chambéry, F)	Lyon-Turin high-speed/high capacity railway link (NW Alps, Italy/France). Saint-Martin-La-Porte exploration tunnel (SE French Alps). Front-end design Geological and geomechanical study, risk analysis, excavation methods statement.	2009 2010
113	IREN Energia SpA (Municipal Electricity Board of the City of Turin, I)	"Lake Serrù" hydroelectric basin, Valle dell'Orco (Italian western Alps). Reinforcement and stabilization of the slope on the left side of the dam. Detailed design Geological and geomorphological study, design of reinforcement solutions, editing of the contract specifications and costs.	2009
114	IREN Energia SpA (Municipal Electricity Board of the City of Turin, I)	"Lake Agnel" hydroelectric basin, Valle dell'Orco (Italian western Alps). Hydrogeological study concerning percolation phenomena under the dam foundation.	2009
115	IREN Energia SpA (Municipal Electricity Board of the City of Turin, I)	Access road to the Lake Serrù hydroelectric basin, Valle dell'Orco (NW Italian Alps). Construction of an avalanche shelter tunnel. Construction phase Expert advice in the claim between the building contractor and the electric company.	2009
116	Le Châtelet SpA (Valgrisenche, I)	"Le Châtelet" hydropower plant (Italian western Alps). Geological and geomorphological study, risk analysis.Detailed study of a large deep-seated slope deformation potentially affecting the diversion pipe.	2009
117	SEA Consulting Srl (Turin, I) / Municipality of Quincinetto (I)	Municipal aqueduct of the city of Quincinetto, NW Italian Alps. Design of a mini-hydropower plant fed by the "Montellina" water spring. Feasibility study Hydrogeological study, tracing tests with chemical tracers, data collection and interpretation.	2009
118	Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Aica-Mules pilot tunnel. Construction phase Support to the design of hydrogeological monitoring systems, interpretation of hydrogeological data during construction.	2009 2012
119	ARGE Geoteam SA (Innsbruck, A) / Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Brenner Base Tunnel. Detailed design Hydrogeological study, geological risks analysis and support to the environmental impact assessment.	2009 2010

Jobs list
2009 - 2016

<i>nr.</i>	<i>Client/ on behalf of</i>	<i>Job description</i>	<i>Year/s</i>
120	ARGE Geoteam SA (Innsbruck, A) / Galleria di Base del Brennero-Brenner Basistunnel BBT SE (Bozen, I)	Munich-Verona high-speed/high capacity railway link (NE Alps, I/A). Aica-Mules pilot tunnel. Tender Support to the preparation of the tender for the tunnel construction.	2009 2010



- **Publications**

Papers

Delle Piane L., Perello P., Baietto A., Giorza A., Musso A., Gabriele P. & Baster I.	2016	Mature vs. active deep-seated landslides: a comparison through two case histories in the Alps. <i>Rock Mechanics and Rock Engineering</i> . DOI 10.1007/s00603-016-0919-y. Print ISSN 0723-2632. Online ISSN 1434-453X.
Lunardi G., Cassani G., Bellocchio A., Pennino F. & Perello P.	2015	Studi idrogeologici per la progettazione delle gallerie AC/AV Milano-Genova. Verifica e mitigazione degli impatti dello scavo sugli acquiferi esistenti. <i>Convegno Expotunnel 2015 "Il buon uso del suolo e del sottosuolo nella prevenzione dei dissesti geologici"</i> , SIG-Società Italiana Gallerie, Milano 8-9 ottobre 2015.
Perello P.	2015	Are reliable geological forecasts possible for long and deep tunnels? Experience gained from some big railway projects in Italy. <i>3rd Arabian Tunneling Conference and Exhibition, Dubai (UAE) 23-25 novembre 2015</i> .
Perello P.	2014	Estimate of the reliability in geological forecasts for tunnels: Toward a structured approach. <i>Rock Mechanics and Rock Engineering</i> , 44, 671-694.
Barla G. & Perello P.	2014	Introduzione alla caratterizzazione geologica e geotecnica delle formazioni complesse <i>MIR 2014, XV ciclo di conferenze di meccanica e ingegneria delle rocce. Torino, 19-20 novembre 2014. Celid Ed. 11-38</i> .
Perello P., Baietto A., Burger U. & Skuk S.	2014	Excavation of the Aica-Mules pilot tunnel for the Brenner base tunnel: information gained on water inflows in tunnels in granitic massifs. <i>Rock Mechanics and Rock Engineering</i> , 4/3, 1049-1071.
Perello P.	2014	Estimate of the reliability in geological forecasts for tunnels: Toward a structured approach. <i>Rock Mechanics and Rock Engineering</i> , 44, 671-694.
Barla G. & Perello P.	2014	Introduzione alla caratterizzazione geologica e geotecnica delle formazioni complesse. <i>MIR 2014, XV ciclo di conferenze di meccanica e ingegneria delle rocce. Torino, 19-20 novembre 2014. Celid Ed. 11-38</i> .
Turci F., Compagnoni R., Piana F., Delle Piane L., Tomatis M., Fubini B., Tallone S., Fuoco S. & Bergamini M.	2014	Geological and Analytical Procedures for the Evaluation of Asbestos-Related Risk in Underground and Surface Rock Excavation. <i>Lollino G., Manconi A., Guzzetti F., Culshaw M., Bobrowsky P. & Luino F.: "Engineering Geology for Society and Territory - Volume 5: Urban Geology, Sustainable Planning and Landscape Exploitation", Springer, 619-622</i> .
Perello P., Rottaris S., Piana F., Gabriele P., Broccolato M. & Fioraso G.	2011	Progetto RiskNat-Alcotra: corso sulla microzonazione sismica rivolto ai geologi, Quart (AO), 18-19 ottobre 2011.
Delle Piane L., Fontan D. & Mancari G.	2010	The Rosone landslide (Italian Western Alps): an updated model. <i>Geogr. Fis. Din. Quat.</i> , 33, 165-177.
Baietto A., Perello P., Cadoppi P. & Martinotti G.	2009	Alpine tectonic evolution and thermal water circulations of the Argentera Massif (South-Western Alps). <i>Swiss Journal of Geosciences</i> , 102, 2, 223-245.

Baietto A., Cadoppi P., Martinotti G., Perello P., Perrochet P. & Vuataz F.D.	2008	Assessment of thermal circulations in strike-slip fault systems: the Terme di Valdieri case (Italian Western Alps). <i>Geological Society, London, Special Publications; v. 299; 317-339.</i>
Perello P., Venturini G., Delle Piane L. & Dematteis A.	2007	Groundwater inflows in tunnels excavated in faulted rock masses. <i>Felsbau, 4, 28-34.</i>
Agnella D., Perello P., Spanò M., Stringa I., Torri R., Bergese S., Lanzarotti E. & Masera D.	2006	Studi geologici per la progettazione del nuovo collegamento Lombardore-Front della ex S.S. 460. <i>Strade & Autostrade, 6, 2-7.</i>
Perello P. & Venturini, G.	2006	Scavo di gallerie in ammassi rocciosi contenenti minerali asbestiformi. <i>Gallerie e grandi opere sotterranee, 78, 58-64</i>
Venturini G., Perello P., Dematteis A., Bianchi G.W., Delle Piane L. & Damiano A.	2006	Evaluation of the reliability in reference geological hydrogeological models. <i>in: "Geotechnical Risks in Rock Tunnels", Campos e Matos, Ribeiro e Sousa, Kleberger & Lopes Pinto (eds). Taylor & Francis Group, London, 181-190.</i>
Perello P., Venturini G., Dematteis A., Bianchi G.W., Delle Piane L. & Damiano A.	2005	Determination of reliability in geological forecasts for linear underground structures: the method of the R-Index. <i>Atti del simposio internazionale "Geoline 2005". Lyon (F), 23-25 maggio 2005.</i>
Amatruda G., Campus S., Castelli M., Delle Piane L., Forlati F., Morelli M., Paro L., Piana F., Pirulli M., Polino R., Ramasco M. & Scavia C.	2004	The Rosone landslide. <i>in: Bonnard C., Forlati F. & Scavia C., Identification and mitigation of large landslide risks in Europe - advances in risk assessment. European, Commission, 5th Framework Program - IMIRILAND Project. A.A. Balkema ed.</i>
Perello P., Delle Piane L., Piana F., Stella F. & Damiano A.	2004	Brittle post-metamorphic tectonics in the Gran Paradiso Massif (north-western Italian Alps). <i>Geodinamica Acta, 17, 71-90.</i>
Sacchi R., Balestro G., Cadoppi P., Carraro F., Delle Piane L., Di Martino L., Enrietti M., Gallarà F., Gattiglio M., Martinotti G. & Perello P.	2004	Studi geologici in Val di Susa finalizzati ad un nuovo collegamento ferroviario Torino-Lione. <i>Museo Reg. Sci Nat., Monografie, XLI, 115 pp.</i>
Gabriele P., Ballèvre M., Jaillard E. & Hernandez J.	2003	Garnet-chloritoid-kyanite metapelites from the Raspas Complex (SW Ecuador): a key eclogite-facies assemblage. <i>European Journal of Mineralogy, 15, 977-989.</i>
Bosch D., Gabriele P., Lapierre H., Malfere J.L. & Jaillard E.	2002	Geodynamic significance of the Raspas metamorphic complex (SW Ecuador): geochemical and isotopic constraints. <i>Tectonophysics, 345, Issues 1-4, 83-102</i>
Perello P., Marini L., Martinotti G. & Hunziker J.C.	2001	The thermal circuits of the Argentera Massif (western Alps, Italy): an example of low enthalpy geothermal resources controlled by Neogene alpine tectonics. <i>Ecl. Geol. Helv., 94, 75-94.</i>
Delle Piane L., Dematteis A., Perello P. & Fiamberti A.	2001	The geological and hydrogeological study: "back to the past" as an innovative approach to preliminary feasibility studies for underground hydro-power plants in alpine environment. <i>Atti AITES-ITA 2001, World Tunnel Congress "Progress in tunneling after 2001". Milano, 10-13 giugno 2001, Vol. 1, 249-256.</i>
Martinotti G., Marini L., Hunziker J. C., Perello P. & Pastorelli S.	1999	Geochemical and geothermal study of springs in the Ossola-Simplon Region. <i>Ecl. Geol. Helv., 92, 295-305.</i>

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Perello P. & Piana F.	1999	The Penninic Frontal Thrust in the Courmayeur region: evidence of ductile to brittle structural evolution. <i>in: "Fission track analysis: theory and applications" Martin S. & Polino R. Eds.; Mem. Sci. Geol. Padova 51/2, 492-496.</i>
Perello P., Piana F. & Martinotti G.	1999	Neoalpine structural features at the boundary between the Penninic and Helvetic domains. <i>Ecl. Geol. Helv., 92, 347-359.</i>
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