

Projects list of geotechnical and underground structures 1954-2015



Alpina



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LEGEND	LEGEND SERVICES PERFORMED
SF	Feasibility study
PP	Preliminary design
PD	Detailed design
PE	Final design
PG	Tender project
DL	Supervision of works
SI	Safety coordination
VP	Project verification

TITLE OF THE WORK	PERIOD	CLIENT	SERVICE PERFORMED
Highway and road tunnels			
Structural Consultancy for preparation of typological road tunnels	2013-2013	Studio Ghinelli	PE
Colle di Tenda tunnel	2011-2012	Itinera S.p.A.	PG
Tunnel des Oudayas in Rabat in Morocco	2007-2011	Pizzarotti S.p.A.	PE
Tunnel crossing of the Candiano channel in Ravenna	2003-2012	Cooperativa Muratori & Cementisti, C.M.C di Ravenna	PP
Tunnels of the Pedemontana Lombarda Motorway	2002-2006	Autostrada Pedemontana Lombarda S.p.A.	PP
Tunnels of the North approach route to the highway and the intervalley link road of Trieste	2002-2004	Università degli Studi di Trieste	PP
Road tunnel on the Miano Arzano route	2000-2002	Naos S.p.A	PE
Tunnels of the s.s. n. 1 Aurelia bis by pass in Sanremo	1987-2009	C.O.A.L.P.A. S.p.A.	PP+PD+PE+DL
Tunnels of the S.S. n. 3 Flaminia Perugia - section from Km 177+500 to Km 180+280 – Road by pass	1996-1998	A.N.A.S. Azienda Nazionale Autonoma Strade	PP+PD+PE
Monte Collardente road tunnel	1994-1994	Comune di Triora	SF
Tunnels of the s.s. n. 1 Aurelia bis - Albenga ring road	1987-1995	C.O.A.L.P.A. S.p.A.	PE
Tunnels of the Kumba Mamfé Road - Cameroun	1983-1986	Presidentza della Repubblica del Cameroun	PP+PD+PE
Gran Sasso Tunnel	1968-1973	S.A.R.A. Società Autostrade Romane ed Abruzzesi S.p.A.	SF+PP+PD+PE
Tunnels of the Torano Popoli Pescara Motorway	1965-1980	S.A.R.A. Società Autostrade Romane ed Abruzzesi S.p.A.	SF+PP+PD+PE+DL
Tunnel of the Roma l'Aquila Teramo Motorway	1965-1980	S.A.R.A. Società Autostrade Romane ed Abruzzesi S.p.A.	SF+PP+PD+PE+DL
Tunnels of the San Paolo Santos Motorway in Brazil	1969-1974	Desenvolvimento Rodoviario SA	SF+PP+PD+PE+DL
Tunnels of the Viareggio Lucca Motorway	1962-1978	S.A.L.T. Società Autostrada Ligure Toscana S.p.A.	SF+PP+PD+PE+DL
Tunnels of the Sestri Levante Livorno Motorway	1962-1978	S.A.L.T. Società Autostrada Ligure Toscana S.p.A.	SF+PP+PD+PE+DL
Tunnels of the Savona Ponte San Luigi Motorway	1961-1977	A.D.F. Autostrada dei Fiori S.p.A.	SF+PP+PD+PE+DL
Tunnels of the Quincinetto Aosta Motorway	1962-1975	S.A.V. Società Autostrade Valdostane S.p.A.	SF+PP+PD+PE+DL

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<u>Rail tunnels</u>			
Adaptation of the railway tunnel Bricchetto	2014-2014	Impresa Notari	PE
Geotechnical of the adaptation of the railway line Milan - Seregno - Chiasso to the shape PC 80	2013-2014	Impresa Notari	PE
Geotechnical and tunnel works of the high speed railway line Milano-Genova - III° valico dei Giovi	2013-2014	Cociv	PE
Geotechnical and tunnel works of the railway line between Jeddah and Riyadh in Saudi Arabia	2012-2015	Italferr S.p.A.	PP+PD
Geotechnical and tunnel works of the Railway Line Port Ruwais in the UAE	2012-2014	Technimont S.p.a.	PE
Tunnels of the high speed railway line Turin-Lyon in Saint Martin la Porte and La Praz	2012-2015	LTF	DL
Check of the Project of the high-speed railway line Milan-Genoa - III° Valico dei Giovi - First batch - Phase II	2012-2012	Italferr S.p.A.	VP
Geotechnical and tunnels of the "Zanardi" and "Prati di Caprara" stations of the railway node of Bologna	2012-2012	Italferr S.p.A.	PD
Milan Bologna railway line - GA21 - Cut and cover tunnel	2011-2012	Italferr S.p.A.	PD
La Praz Tunnel of the new Torino Lione railway connection	2011-2015	Egis	PD
High capacity railway line Milan - Bologna - Zanardi junction	2011-2011	Italferr S.p.A.	PE
High speed railway - Bologna railway junction – Lot 1 - Siding rail with Venice line	2010-2011	Italferr S.p.A.	PE
Cassia Monte Mario railway tunnel	2006-2009	Italferr S.p.A.	PE
Tunnels of the Voltri Brignole railway line - Lot 3	2008-2008	Italferr S.p.A.	PD+PE
City railway junction in Genoa and siding tunnel with the Terzo Valico	2007-2009	Italferr S.p.A.	PE
Castellano tunnel on the Bologna Lecce railway line	2007-2007	Italferr S.p.A.	PE
Coreca railway tunnel on the Battipaglia Reggio Calabria railway route	2007-2007	Italferr S.p.A.	PD
New high capacity railway line Turin Lyon - Safety Road to Saint Martin la Porte	2002-2015	LTF - Lyon Turin Ferroviaire	PE+DL
Tunnel on the Damascus Dara'a railway in Syria	2006-2006	Italferr S.p.A.	PD
Natural polycentric tunnel between Camerone Salesiani and Bologna railway station	2005-2006	Italferr S.p.A.	PE
Tunnels of the Passo Corese Rieti railway line - Section Corese Osteria Nuova	2005-2005	Italferr S.p.A.	PD
Tunnels of the upgrade of Voltri Brignole line - Lots no. 2 and no. 4	2004-2006	Italferr S.p.A.	PD+PE
Tunnel for Messina Palermo railway line - Section Ogliastrillo Castelbuono	2005-2005	Italferr S.p.A.	PD
Access well of the Fire Brigades to the tunnels in via Fossolo – Bologna high speed railway line	2004-2005	Italferr S.p.A.	PE
Tunnels of the Caserta Foggia railway line - Section Bovino Orsara	2003-2004	Italferr S.p.A.	PD
Tunnels of the high speed railway line Milan Genoa - Section Genoa - km 32+796	1992-1994	C.O.A.L.P.A. S.p.A.	PE
Tunnels of the doubling of the Pontremolese railway line	1987-1991	Consorzio C.I.R.C. Pontremolese	PE
Tunnels of the Genoa Casella railway line	1987-1991	R.T.I Ansaldo S.p.a. Co.Ge.Co S.p.a.	SF+PP+PD+PE
Tunnels of the upgrade railway line Tirano Milan - Section Airuno Calolziocorte	1985-1987	Cleifer Concessionario FS	PE

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<u>Undergrounds</u>			
Milan Metro line 4 - Line between "Linate Station" and "District Forlanini Station"	2012-2015	Consorzio CMM4 (Impregilo-Astaldi)	PE
Copenhagen cityring Metro - Two stations	2011-2015	Technimont S.p.a.	PD+PE
Milan Metro line 4	2010-2015	Impregilo S.p.A. - Astaldi S.p.a.	PD+PE
Milan Metro line 2 - Extension section Cologno Monzese - Vimercate	2010-2012	MM Metropolitana Milanese S.p.a.	PD
Milan Metro line 5 - Extension section San Siro - Settimo Milinese	2008-2008	Astaldi S.p.a.	SF
Milan Metro line 5	2000-2015	Astaldi S.p.a.	PD+PE
Parma Metro line	2005-2010	Metro Parma S.p.a.	PD+PE
Parma Metro line - Integration with the Bohigas project of the railway station	2007-2007	Metro Parma S.p.a.	PP+PD
Supporting structures of the extension of the Turin tramway line no. 4	2003-2003	MM Metropolitana Milanese S.p.a.	PE
Turin Metro line 1- Westward extension	2002-2003	MM Metropolitana Milanese S.p.a.	PD
Monza Metro line	1997-1999	Alstom Transport S.p.a.	PD
Sub-lagoon underground connection between Giudecca and Venice historic centre	1988-1989	Acqua Marcia S.p.a.	SF
Genoa Metro line	1969-1975	Comune di Genova	SF+PP
Bologna Metro line	1969-1973	Intermetro S.p.A.	SF+PP
Venice Metro line	1964-1972	Comitato per la metropolitana di Venezia	SF
Turin Metro line	1965-1970	S.S.G. Società Strada Guidata S.p.a.	PG

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<u>Power stations cavern e hydraulic tunnels</u>			
Geology of the redevelopment of the "Vernazza" canal	2013-2014	Infrastrutture Liguria S.r.l.	PP
Supplying tunnel to the ILVA plant in Taranto	2012-2012	Semat	PE
Pressure pipeline of the Beni Haroun pumping station the region of Costantine, Algeria	2010-2010	Astaldi S.p.A.	PG
Hydraulic tunnels and pressure pipeline of the Premadio II hydroelectric power plant	1998-2003	AEM Milano S.p.A.	PP+PD+PE
Premadio II underground power house	1998-2003	AEM Milano S.p.A.	PP+PD+PE
Hydraulic tunnels and pressure pipeline of the Pont Ventoux Susa hydroelectric power plant	1992-2007	Pont Ventoux S.c.r.l.	PG+PD+PE+DL
Underground power house at Venaus of the Pont Ventoux Susa hydroelectric power plant	1992-2007	Pont Ventoux S.c.r.l.	PG+PD+PE+DL
Tunnel water deviation of the Savio - Romagna Waterworks	1991-2003	Consorzio Acque per le provincie di Forlì e Ravenna	SF+PP+PD
Tunnel water deviation of the Fiumicello - Romagna Waterworks	1991-1993	Consorzio Acque per le provincie di Forlì e Ravenna	SF+PP+PD+PE
Tunnel water deviation of Ridracoli artificial lake - Romagna Waterworks	1963-1975	Consorzio Acque per le provincie di Forlì e Ravenna	SF+PP+PD+PE+DL

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Geotechnical works

Ground improvement of a property complex and marina in Herceg Novi in Montenegro	2014 - 2015	Azmont	PP+PD+PE
Environmental rehabilitation of the quarry Castellaro / Isoverde	2013-2014	Cociv	PE
Intervention to reduce the risk of landslide in Annunziata, Calia and Casturi to Lamezia Terme	2013-2013	Scutieri Costruzioni S.r.l. e Concolino Costruzioni S.r.l.	PG
Defense of the settlements and infrastructure from the landslide of Ruinon Valfurva (SO)	2013-2014	Infrastrutture Lombarde S.p.A.	PP
Bulkheads and digs for the reclamation of Lot Rb2 of the ex-Fiera City Life area Urban Plan in Milan	2011-2012	City Life S.p.A.	PE
Supporting bulkheads of the dig for the R2 compartment of the Garibaldi Repubblica Urban Plan in Milan	2007-2007	Caprera S.p.a.	PE
Stability verification of the Calocara quarry fronts no. 102 Calocara Bettogli area	1999-2001	Geminiani e Vanelli	PE
Reclamation of the Caprazoppa area subject to landslides in Finale Ligure	1965-1965	A.D.F. Autostrada dei Fiori S.p.A.	SF+PP+PD+PE+DL
Reclamation of areas subject to landslides in the province of Imperia	1964-1965	Provincia di Imperia	SF