



SEMBENELLI
C O N S U L T I N G

PRESENTATION OF THE FIRM

SC-SEMBENELLI CONSULTING s.r.l. has been incorporated in 1997 from the private practice of PIERO SEMBENELLI CONSULTANT founded in 1983. SC has been created to serve our present and future Clients through an organization of better competence, increased strength and improved framing and flexibility. The original aim of providing high level, professional services for large civil engineering works, world-wide, remains unchanged.

Geotechnic has been our founding vocational field but soon the areas of the professional activity for SC SEMBENELLI CONSULTING s.r.l. become increasingly diversified in response to requests from our Clients. SC will continue this expanding interest approach.

The original concept of enhancing individual involvement and responsibility proved quite appropriate and is still one of our keystones in approaching professional work and in serving Clients. SC SEMBENELLI CONSULTING s.r.l. personnel are highly qualified and trained and has international experience. SC is widely tooled with advanced technologies for daily office work, computation, CAD drafting and graphics, automated data transmission.

The first 20 years of our activity have been a period of steady growth. More than 250 professional assignments, in over 40 different countries, were carried out to the satisfaction of our Clients. SC SEMBENELLI CONSULTING s.r.l. presently works in the following Engineering fields:

Geotechnical Engineering

Transportation Engineering

Dam Engineering

Geosynthetics Engineering

Tunnel Engineering

Hydro Power Engineering

Landscape and Interior Design



FIRM'S EXPERIENCE



SC SEMBENELLI CONSULTING s.r.l. has gained experience in most aspects of large civil engineering projects, from preliminary site investigations to behavioural analyses.

SC SEMBENELLI CONSULTING s.r.l. looks with utmost interest to construction as a moment of confirmation of the assumptions used at design stage and as an opportunity of increasing our experience of facts and nature.

As far as practicable we design with construction in mind and, whenever possible we like to assist or supervise the construction of our projects.

This has been the case of many large projects in Italy and world-wide, where SC SEMBENELLI CONSULTING s.r.l. has been engaged in assessing the performance of several projects through monitoring and numerical analyses.

Within our assignments, we are particularly keen to keeping abreast with innovative technologies and new materials.

SC has pioneered the application of geosynthetics to civil engineering projects and has helped developing materials and installation technologies.

SC SEMBENELLI CONSULTING s.r.l. has been sought as an organisation specialised yet aware of and familiar with other neighbouring fields. Within individual projects, we work in association with specialists of related fields as needed for the best service to our Clients.

In a spirit of sharing technical and scientific knowledge SC SEMBENELLI CONSULTING s.r.l. devotes part of its time to technical and scientific activities.

Individuals from the Firm contributed to the technical literature with several papers, have been guest lecturers and invited speakers at conferences and are currently members of National and International Associations, among which:

- American Society of Civil Engineers (ASCE)
- International Committee on Large Dams (ICOLD)
- International Geotextile Society (IGS)
- Associazione Italiana di Geotecnica (AGI)
- Comitato Italiano Grandi Dighe (ITCOLD)

Knowing the importance of being up-to-date with the recent developments of its professional field we promote the participation to International Committees and Technical Conferences.





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LIST OF MAJOR CLIENTS

SC-SEMBENELLI CONSULTING is proud to list amongst his past and current Clients outstanding International Organizations, Firms, Contractors and Banks. Following is a list of our major Clients in alphabetical order.

ASM	Italy (Brescia)
ASTALDI	Italy (Rome)
AUTOSTRADE spa	Italy (Rome)
BONIFICA spa	Italy (Rome)
CARPITECH	Switzerland (Lugano)
COMUNE DI COMO	Italy (Como)
EDISON	Italy (Milan)
ERTAN J.V.	P.R. China (Beijing)
ENEL	Italia (Rome)
FEDERICI	Italy (Rome)
FLAG	Italy (Bergamo)
THE WORLD BANK GROUP (IBRD)	U.S.A. (Washington)
HUA NENG HYDROPOWER CORP.	P.R. China (Ya An)
IMPREGILO	Italy (Milan)
IMPRESIT BAKOLORI	Nigeria (Lagos)
ITALSTRADE	Italy (Milan)
JANGTZE RIVER VALLEY DEV. CORP.	P.R. China (Wuhan)
LISHUI HYDROPOWER CORP.	P.R. China (Changsha)
MWH Global Ltd	U.S.A. (Chicago)
PROVINCIA DI BRESCIA	Italy (Brescia)
PROVINCIA DI LECCO	Italy (Lecco)
PROVINCIA DI MILANO	Italy (Milan)
RPBW	Paris (France)
SPEA INGEGNERIA EUROPEA	Italy (Milan)
TEHERAN REGIONAL WATER BOARD	Iran (Teheran)
TENAX	Italy (Viganò Brianza)
TODINI	Italy (Rome)
TREVI	Italy (Cesena)
UNITED NATIONS/ UNCTAD-GATT	Switzerland (Geneva)
YELLOW RIVER HYDROPOWER DEV. CORP.	P.R. China (Zhenzhou)



LIST OF MAJOR PROJECTS

In the field of geotechnics, like slope stability, earth or rock slides, complex foundation, large earth structures and cuts we like to mention the following major projects:

GEOTECHNICAL ENGINEERING	COUNTRY	YEAR
Voltri Port Fill Materials	Italy	1985
Val Gallinera – Val Rabbia Landslide	Italy	1988
Margno – Debris flow analysis	Italy	1991
Brindisi Nastro Carbone	Italy	1991
Casuzze Consolidation	Italy	1992
Industrial Building Foundation	Italy	1995
Via Carducci Parking	Italy	1995
Ghazi-Barotha Canal	Pakistan	1998
Cilento Foundations	Italy	2003
Rocade Coast Road	Morocco	2004

In the field of earth and rock dams, of concrete and RCC dams, of dams with geosynthetic facings and of dam rehabilitation, we like to mention the following major projects:

DAM ENGINEERING	COUNTRY	YEAR
Hammam Meskoutine Dam	Algeria	1983
Piano Della Rocca Dam	Italy	1984
Goronyo Dam	Italy	1985
Mucone Reservoir (*)	Italy	1986
Jibiya Dam (*)	Nigeria	1987
San Valentino Dam	Italy	1994 - 2006
Sanxia (Three Gorges) Cofferdams	P.R. China	1988 - 1995
Lar Dam	Iran	1989
Pappadai Dam (*)	Italy	1989
Cixerri Secondary Dam (*)	Italy	1989
Satriano Dam	Italy	1989
New Esna Barrage	A.R. Egypt	1990
Cannamasca Dam	Italy	1991
Zolezzi Dam (*)	Italy	1991
Ertan Cofferdams	P.R. China	1992
Bovilla Dam (*)	Albania	1995
Ajiwa Dam	Nigeria	1996
Shenxigou Dam and Power Plant	P.R. China	1996
Taksebt Dam	Algeria	1996
Ghazi-Barotha Barrage	Pakistan	1998
Kramis Dam	Algeria	1999 - 2001
Ponte de Pedra Dam	Brazil	2002
San Roque Dam	Philippines	2003
Borde Seco Dam	Venezuela	2003 - 2005
Jin Ping 1 Dam	P.R. China	2004
Kerrada Dam (*)	Algeria	2005
Val Noci Dam	Italy	2005
Tekeze Dam	Ethiopia	2005

(*) waterproofed with a geosynthetic system



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In the field of geosynthetic works and reinforced soil structures incorporating geosynthetic of various types, we like to mention the following major projects:

GEOSYNTHETICS ENGINEERING (other than dams)	COUNTRY	YEAR
Champagne Embankment	Italy	1989
Val Ferrua Section – A6 Motorway	Italy	1990
Alemagna Main Road	Italy	1992
Verrand Embankment	Italy	1993
Brindisi Sud Embankment	Italy	1996
Afourer Dam	Algeria	2003
Kouhrang Upper Pond	Iran	2003

In the field of environment related projects we like to mention the following major assignments:

TUNNEL ENGINEERING	COUNTRY	YEAR
Piano Della Rocca Tunnel	Italy	1984
Siliana Tunnel	Tunisia	1985
Pappadai Tunnel And Shaft	Italy	1989
Castellaccio Tunnel	Italy	1995
Sarmento Tunnel	Italy	1995
Canale Viola Tunnel	Italy	1996
Val D'ultimo – Val Di Non Tunnel	Italy	1995
Urban Tunnel of Borgo Vico Como	Italy	1998
Metrobus Tunnel	Italy	1999
Olmos and Limon Tunnels	Perù	2004
Barbula Access	Brazil	2005

In the field of Road and Motorway projects we like to mention the following major assignments:

TRANSPORTATION ENGINEERING	COUNTRY	YEAR
A4 Motorway / Bergamo-Brescia Section	Italy	1986
A1 Motorway / Milan-Piacenza Section	Italy	1990
South Milan Barrier – A1 Motorway	Italy	1992
North Milan Barrier – A8/A9 Motorway	Italy	1993
Lodi Vecchio roads	Italy	1993
A26 Trafori Motorway – Static Test	Italy	1994
D1 Praha – Brno Motorway	Czech	1995
Grande Viabilita' Trieste	Italy	1996
Tunnel Urbano Como	Italy	1998
Metrobus Brescia	Italy	1999
A4 Motorway / Milan-Bergamo Section	Italy	1999
SP46 Rho-Monza road	Italia	2001
SS 18 Futani-Centola road	Italia	2002
A8 Motorway / Milan-Gallarate Section	Italy	2000
Metrobus Val Trompia	Italy	2000
A9 Motorway / Lainate Como section	Italy	2005

In the field of hydro electric power plants we like to mention the following major projects:

HYDRO ELECTRIC POWER PLANTS	COUNTRY	YEAR
Shenxigou	P.R. China	1997
Yguazu	Paraguay	1997
Matiltan	Pakistan	1998
Doradas	Venezuela	2004 -2005



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In the field of landscaping and interior decoration we like to mention the following projects:

LANDSCAPE AND INTERIOR DESIGN	COUNTRY	YEAR
Chemical Pollution Containment	Italy	1986
Erosion Prevention Study	Italy	1988
Santa Valeria Interior decoration	Italy	1990
Chemical Pollution Containment	Italy	1991
Villa Pullè new Museum	Italy	1994
Old Countryside House	Italy	1995
Hua Neng Office Building	P.R. China	1997
Portello Park	Italy	2003 - 2005
Ex Milan Fair (with Foster & Partners)	Italy	2004



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SERVICES OFFERED

SC SEMBENELLI CONSULTING is active in the following fields:

DAM ENGINEERING
GEOTECHNICS AND SOIL STRUCTURES
GEOSYNTETICS ENGINEERING
HYDRO ELECTRIC POWER PLANTS
ENVIRONMENTAL PROJECTS
TUNNEL ENGINEERING
ROAD ENGINEERING
BUILDINGS AND STRUCTURAL
LANDSCAPE AND INTERIOR DESIGN

For most of the above fields SC SEMBENELLI CONSULTING offers to his Clients the following services:

Site appraisal
Field investigation planning and specifying
Investigation supervision

Construction supervision
Quality control
Contract administration

Preliminary design
Numerical analyses
Contract design and specifications
Construction drawings

Instrumentation plans
Performance monitoring
Performance evaluation
Certification

Consulting and advisory services