



SYSTRA
S W S

www.swsglobal.com

CORPORATE BROCHURE

Innovation
in underground
solutions

www.swsglobal.com

SYSTRA
S W S 



ABOUT SYSTRA SWS

FOURTY YEARS PROJECTS

SYSTRA SWS is an independent design firm working across every aspect of responsible and sustainable design of modern infrastructural projects.

Our strong commitment in providing valuable, reliable and innovative solutions represents a distinctive characteristic of the company since its foundation, in 1982.

Since 1982, SYSTRA SWS has been providing specialized engineering, project management and risk management services for infrastructures. For almost 40 years, SYSTRA SWS has been supporting its Clients in conceiving civil works that form the infrastructural backbone of local communities.

SYSTRA SWS is committed to technical quality and deeply devoted to excellence & innovation. The Company is organized to provide effective solutions for every Client's requirement, assuring not only comprehensive, detailed and truthful information, but also confidentiality, flexibility, accuracy and punctuality.

SYSTRA SWS, finally, recognizes the value of future generations, developing its wide and sound technical knowledge bearing in mind the importance of designing and building infrastructures that are safe, sustainable, economic and characterized by a low environmental & social footprint.

Our markets



1300+km
of railways



16mln m³
of buildings



650+km
of metro



5300+MW
of hydro energy



1900+km
of roads



64km

designer of the longest
rail tunnel in the world



1000+

projects
since 1982

Our services

Design

Feasibility studies
Concept design
Preliminary design
Detailed design
Architecture & Landscape design

MEP Design

Complete Safety System Design
Ventilation and Fire safety
CFD Simulation
Definition of ventilation strategies
Commissioning support

Project Management

Project planning
Project monitoring
Project risk assessment

BIM Modeling

Civil works
Roads & Terrain
Finishes & MEPs

Construction Management

Construction planning
Construction monitoring
Construction risk assessment
Construction design

Tender Assistance

Communication strategy
Professional graphic support
Schematics & Renders
Illustrative Videos

Value Engineering

Project optimisation
Implementation of new technologies
Advanced FE Simulation

Independent Check

Code compliance
Technical content
Project buildability

Our expertise

SYSTRA SWS strength lies in its original method of facing design problems through “out of the box” solutions and creative passion.

By continuously investing in high innovation, the Company has gained full trust of Clients and decision makers and is now ready to win the new exiting challenges of modern engineering.



TUNNEL TECH

We conceive innovative solutions for tunnel design, providing specialized value engineering services to solve the unconventional challenges emerging from both traditional and mechanized excavation techniques.



SSS.INFRA

SSS.infra is the rational compendium of SYSTRA SWS experience in the field of sustainable infrastructure multicriteria analysis. Thanks to its rigorous and analytical approach, SSS.Infra brings the world of sustainability in the field of quantitative performance assessment.



DIGITAL PROJECT

SYSTRA SWS developed an innovative approach that digitalizes all the relevant input data within a flexible database, providing powerful automatic manipulation algorithms. The calculated results can be visualised through different tools, ranging from GIS technology to BIM models.



i.BIM

The ambitious mission of BIM is to create a “digital twin” of the “real infrastructure”, containing all the relevant geometrical information and metadata, and being able to collect and manage information coming from the different stakeholders involved in the process.



30+

BIM infra projects



05

patents & copyrights



03

trade marks

Our people

SYSTRA SWS strength mainly lies in its passionate staff. Our belief is that people performing activities which can influence the quality of services must be qualified and accurately trained. That is why SYSTRA SWS strives to pursue the utmost professionalism, involvement, awareness and education in the following ways:

Providing a certain number of extra hours for every project, with the purpose of fostering continuous improvement;

Identifying “areas of interest” where the Company is engaged in providing excellence;

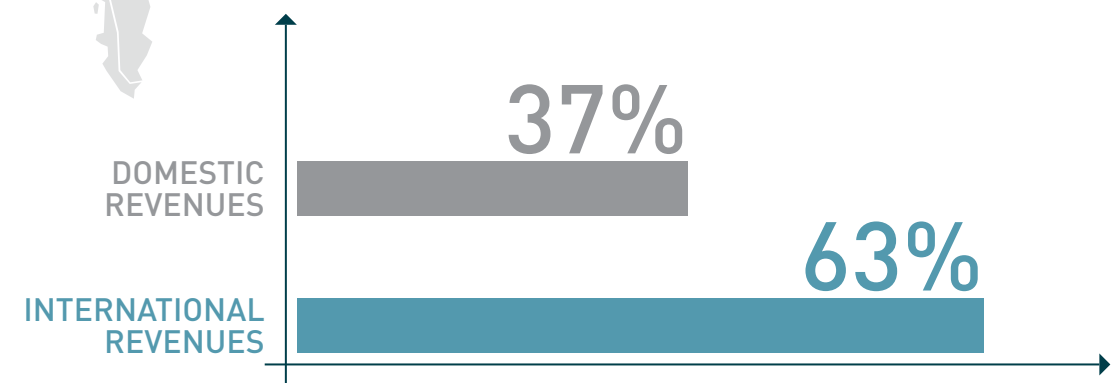
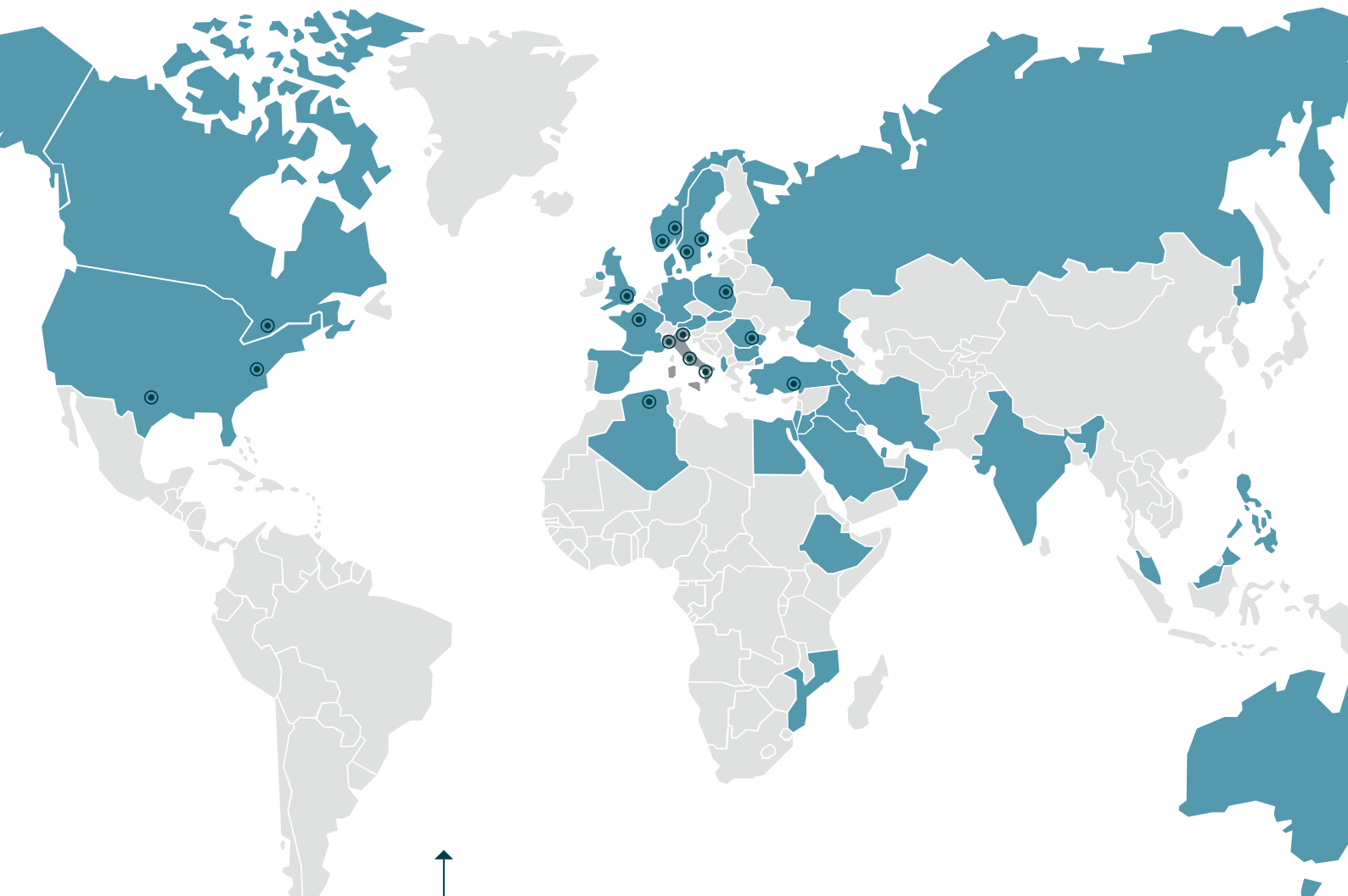
Promoting a wide range of training actions such as:

- self-training
- courses and seminars
- conferences
- collaboration with universities

Stimulating the publication of technical papers for conferences and technical journals.



International presence




17
offices worldwide


32
different countries


10+
spoken languages

CANADA
USA

CONTINENTAL EUROPE
UK & IRELAND
NORDICS
MIDDLE EAST
INDIA
AFRICA

AUSTRALIA & NEW ZELAND
ASIA

During the last years SYSTRA SWS moved a step forward, increasing its presence worldwide.

Each branch is represented by a regional responsible who is the direct contact for the development of new market opportunities and local partnerships, acting ad a legal representative if needed.

SYSTRA SWS revenues, finally, are currently generated from projects developed in more than 30 different countries.

Norway, Sweden, Denmark, UK, France, Poland, Austria, Italy, Romania, Turkey, Algeria, Saudi Arabia, Qatar, Canada, USA, Iraq, Germany, Spain, Singapore, Russia, Australia.



1982

TRANSPORT
INFRASTRUCTURES



South-East Railway, Italy

2022

Railways

Our offices conceive innovative and reliable solutions for the most widely used rail transportation systems

SYSTRA SWS expertise in Conventional Rail Links, High-Speed Lines (HSL) and Light Rail Transit (LRT), covers alignment and general design, structural and geotechnical design of civil works, trackworks, signalling, earthworks and drainage, MEPs, environmental criteria.





Follo Line project Oslo S



Railways



Metro



Roads



YEAR:
2016 - ongoing

CLIENT:
Bane NOR SF

PROJECT VALUE:
€ 200 mln

SERVICES:
Design consultancy
BIM modeling
Value engineering
Construction management



Follo Line project

Drill & Blast



Railways



Metro



Roads



YEAR:
2015 - ongoing

CLIENT:
Bane NOR SF

PROJECT VALUE:
€ 150 mln

SERVICES:
Design consultancy
BIM modeling
Value engineering
Construction management



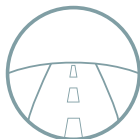
Vestfold line Nykirke - Barkåker



Railways



Metro



Roads



YEAR:
2019 - ongoing

CLIENT:
SAPINOR (Webuild S.p.A. and
Impresa Pizzarotti & C. S.p.A.)

PROJECT VALUE:
€ 370 mln

SERVICES:
Detailed design
BIM modeling
Value engineering
Construction management



Brenner Base Tunnel

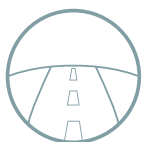
Lot Mules 2-3



Railways



Metro



Roads



YEAR:
2016 - ongoing

CLIENT:
BTC

PROJECT VALUE:
€ 993 mln

SERVICES:
Detailed design based on BIM
models and technical
Assistance during construction
works of lot Mules 2-3



Brenner Basis Tunnel



Railways



Metro



Roads



YEAR:
2005 - 2007

CLIENT:
BBT SE

PROJECT VALUE:
€ 4.6 Bil

SERVICES:
Final design



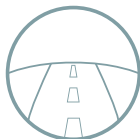
Sivas - Erzincan High-speed rail



Railways



Metro



Roads



YEAR:
2012 - 2019

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design



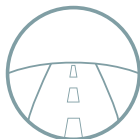
Tunnel El Maten



Railways



Metro



Roads



Algeria

YEAR:
2016 - ongoing

CLIENT:
Cosider Travaux Publics

PROJECT VALUE:
€ - confidential

SERVICES:
Tunnel and external works
Detailed design



Uşak (Eşme) - Salihli High-speed rail



Railways



Metro



Roads



YEAR:
2013 - 2018

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design



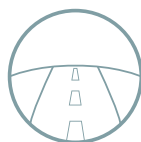
Łódź cross-city line Underground railway node



Railways



Metro



Roads

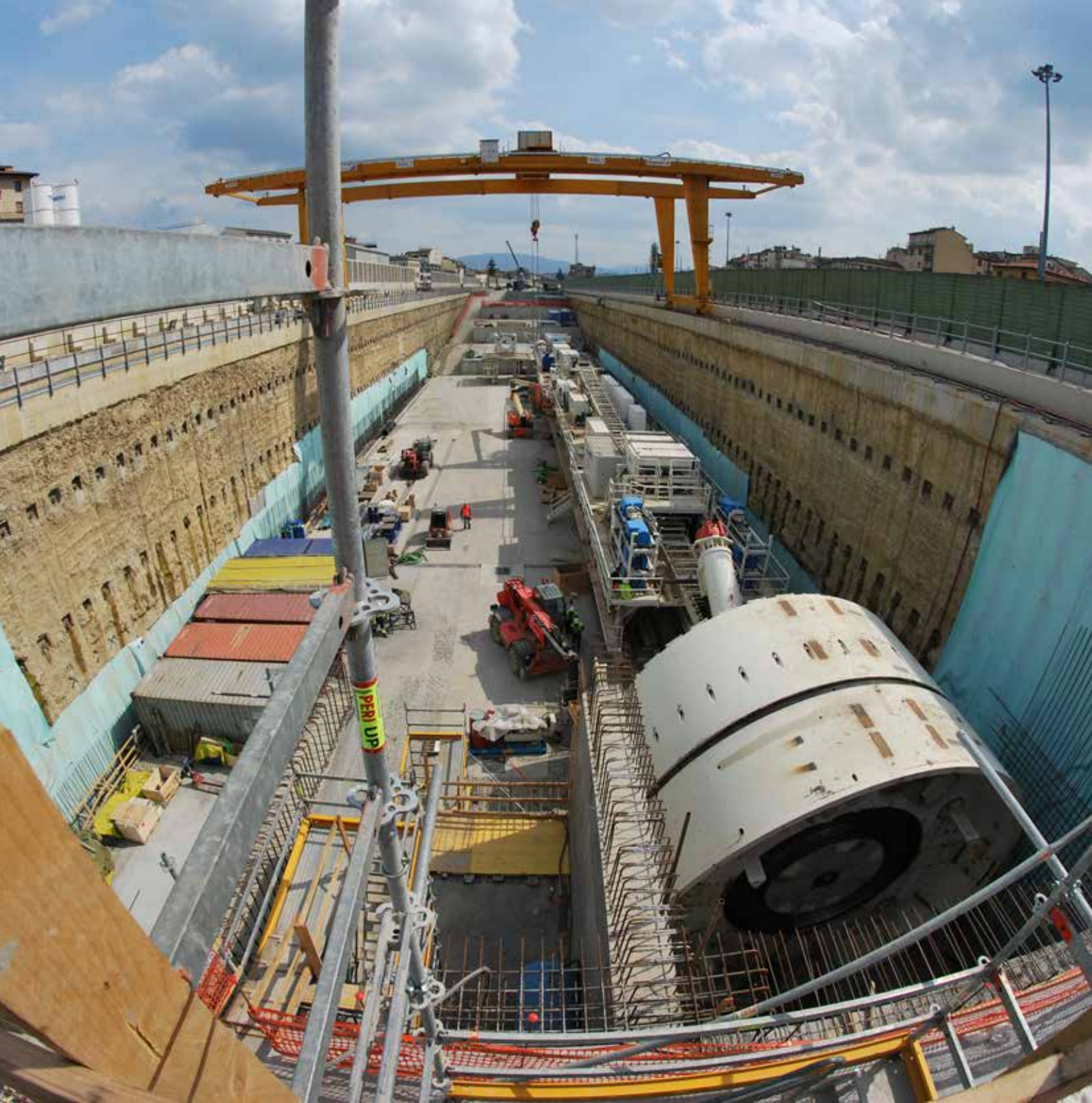


YEAR:
2019 - ongoing

CLIENT:
Pbdim and Energopol

PROJECT VALUE:
€ 302 mln

SERVICES:
TBM tunnel civil works
MEP systems



Florence railway link



Railways



Metro



Roads



YEAR:
2009 - 2012

CLIENT:
Nodavia

PROJECT VALUE:
€ 248 mln

SERVICES:
Detailed design



West link Haga



Railways



Metro



Roads



YEAR:
2019 - ongoing

CLIENT:
AGN Haga (Astaldi, Gülermak
and NRC Group)

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design
BIM modeling
Value engineering
Construction management



E03 Kvarnberget West link Göteborg



Railways



Metro



Roads



Sweden

YEAR:
2019 - ongoing

CLIENT:
AGN Haga (Astaldi, Gülermak
and NRC Group)

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design
BIM modeling
Value engineering
Construction management



Toprakkale - Bahçe Construction of tunnels



Railways



Metro



Roads



YEAR:
2018 - ongoing

CLIENT:
TCDD and Demce

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



Varberg tunnel



Railways



Metro



Roads



YEAR:
2019 - ongoing

CLIENT:
Implenia

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design
BIM modeling



Apice - Hirpinia Conventional railway



Railways



Metro



Roads



YEAR:
2017

CLIENT:
Italferr S.p.A.

PROJECT VALUE:
€ 608 mln

SERVICES:
Preliminary design



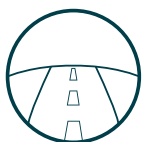
Storstrøm bridge



Railways



Metro



Roads



YEAR:
2020 - ongoing

CLIENT:
Rambøll

PROJECT VALUE:
€ 282 mln

SERVICES:
Structural engineering
services
BIM consulting for detailed
design activities



Brenner Base Tunnel

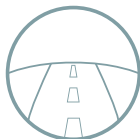
Aicha - Mules



Railways



Metro



Roads



YEAR:
2007 - 2011

CLIENT:
BBT SE

PROJECT VALUE:
€ - confidential

SERVICES:
First phase of the works for
the realisation of the service
tunnel

Assistance to supervision of
works and safety coordination



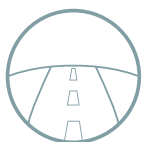
Milan - Turin High-speed rail



Railways



Metro



Roads



YEAR:
2001 - 2005

CLIENT:
Fiat Engineering S.p.A.

PROJECT VALUE:
€ 250 mln

SERVICES:
Detailed design



Tunnel T3 Djelfa



Railways



Metro



Roads



Algeria

YEAR:
2015 - 2017

CLIENT:
Cosider Travaux Publics

PROJECT VALUE:
€ - confidential

SERVICES:
Tunnel and external works
Detailed design



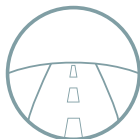
BBT Periadriatic fault Crossing tunnel



Railways



Metro



Roads



YEAR:
2011 - 2016

CLIENT:
BBT SE

PROJECT VALUE:
€ - confidential

SERVICES:
Construction supervision



Mürşitpınar - Şanlıurfa Conventional railway



Railways



Metro



Roads



YEAR:
2012 - 2018

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design



Cevap 2 High-speed rail



Railways



Metro



Roads



YEAR:
2014 - 2017

CLIENT:
Cevap 2

PROJECT VALUE:
€ 125 mln (tunnel)

SERVICES:
Preliminary design



Gaziray

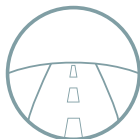
Conventional railway in metro standards



Railways



Metro



Roads



Turkey

YEAR:
2012 - 2017

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design



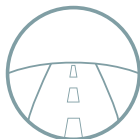
Rome - Florence Technological upgrade



Railways



Metro



Roads



YEAR:
2016 - ongoing

CLIENT:
Ansaldo STS and
Alpiq EnerTrans

PROJECT VALUE:
€ 124 mln

SERVICES:
Detailed design



South-East Railway Light rail train project



Railways



Metro



Roads



YEAR:
2014 - 2015

CLIENT:
FSE (Ferrovie del Sud Est)

PROJECT VALUE:
€ 82 mln

SERVICES:
Detailed design



Arcisate - Stabio Conventional railway



Railways



Metro



Roads



YEAR:
2006 - 2008

CLIENT:
RFI (Rete Ferroviaria Italiana)

PROJECT VALUE:
€ 184 mln

SERVICES:
Preliminary design



Turin - Padua Technological upgrade



Railways



Metro



Roads



YEAR:
2011 - 2017

CLIENT:
Ansaldo, Coopsette and
Salcef Group S.p.A.

PROJECT VALUE:
€ 71 mln (civil works)

SERVICES:
Detailed design



Adapazarı - İstanbul

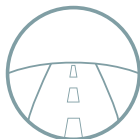
Northern pass high-speed railway



Railways



Metro



Roads



YEAR:
2011 - 2019

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design



Orte - Falconara Conventional railway



Railways



Metro



Roads



YEAR:
2004 - 2006

CLIENT:
Torno Internazionale S.p.A.

PROJECT VALUE:
€ 64 mln

SERVICES:
Detailed design



Toprakkale - Bahçe Conventional railway



Railways



Metro



Roads



YEAR:
2012 - 2018

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design



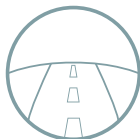
Gebze - Sabiha Gökçen Airport Conventional railway



Railways



Metro



Roads



YEAR:
2017

CLIENT:
TCDD

PROJECT VALUE:
€ - confidential

SERVICES:
Final design



Giampilieri - Fiumefreddo Underground station



Railways



Metro



Roads



YEAR:
2017

CLIENT:
Italferr S.p.A.

PROJECT VALUE:
€ 48 mln

SERVICES:
Preliminary design



Monte Olimpino 2 Revamping



Railways



Metro



Roads



YEAR:
2007 - 2010

CLIENT:
Impresa Luigi Notari

PROJECT VALUE:
€ 34 mln

SERVICES:
Preliminary design
Detailed design



Adriatic Railway Upgrading



Railways



Metro



Roads



YEAR:
2017 - ongoing

CLIENT:
RFI (Rete Ferroviaria Italiana)

PROJECT VALUE:
€ 25 mln

SERVICES:
Detailed design



Trento - Malè

Light rail train project



Railways



Metro



Roads



YEAR:
2010 - ongoing

CLIENT:
Provincia Autonoma di Trento

PROJECT VALUE:
€ 15 mln

SERVICES:
Preliminary design
Detailed design



Milan - Lecco Conventional railway



Railways



Metro



Roads



YEAR:
2002 - 2003

CLIENT:
RFI (Rete Ferroviaria Italiana)

PROJECT VALUE:
€ 150 mln

SERVICES:
Detailed design



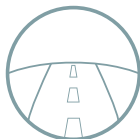
Genoa - Ventimiglia Conventional railway



Railways



Metro



Roads



YEAR:
2005 - 2006

CLIENT:
Italferr S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Geotechnical consultancy



Naples - Bari High-speed rail



Railways



Metro



Roads



YEAR:
2016 - 2017

CLIENT:
Italferr S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Basic design for the main
designer Italferr S.p.A.



Turin - Genoa

Railway line speed upgrade



Railways



Metro



Roads



YEAR:
2018 - ongoing

CLIENT:
RFI (Rete Ferroviaria Italiana)

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design
Value engineering



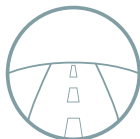
Cefalù underground station



Railways



Metro



Roads



YEAR:
2011- ongoing

CLIENT:
Italferr S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Geotechnical consultancy



Cefalù tunnel



Railways



Metro



Roads



YEAR:
2010 - 2012

CLIENT:
Italferr S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Specialized support to final design



Nusaybin - Cizre - Habur Conventional railway



Railways



Metro



Roads



YEAR:
2012 - 2019

CLIENT:
TDCC

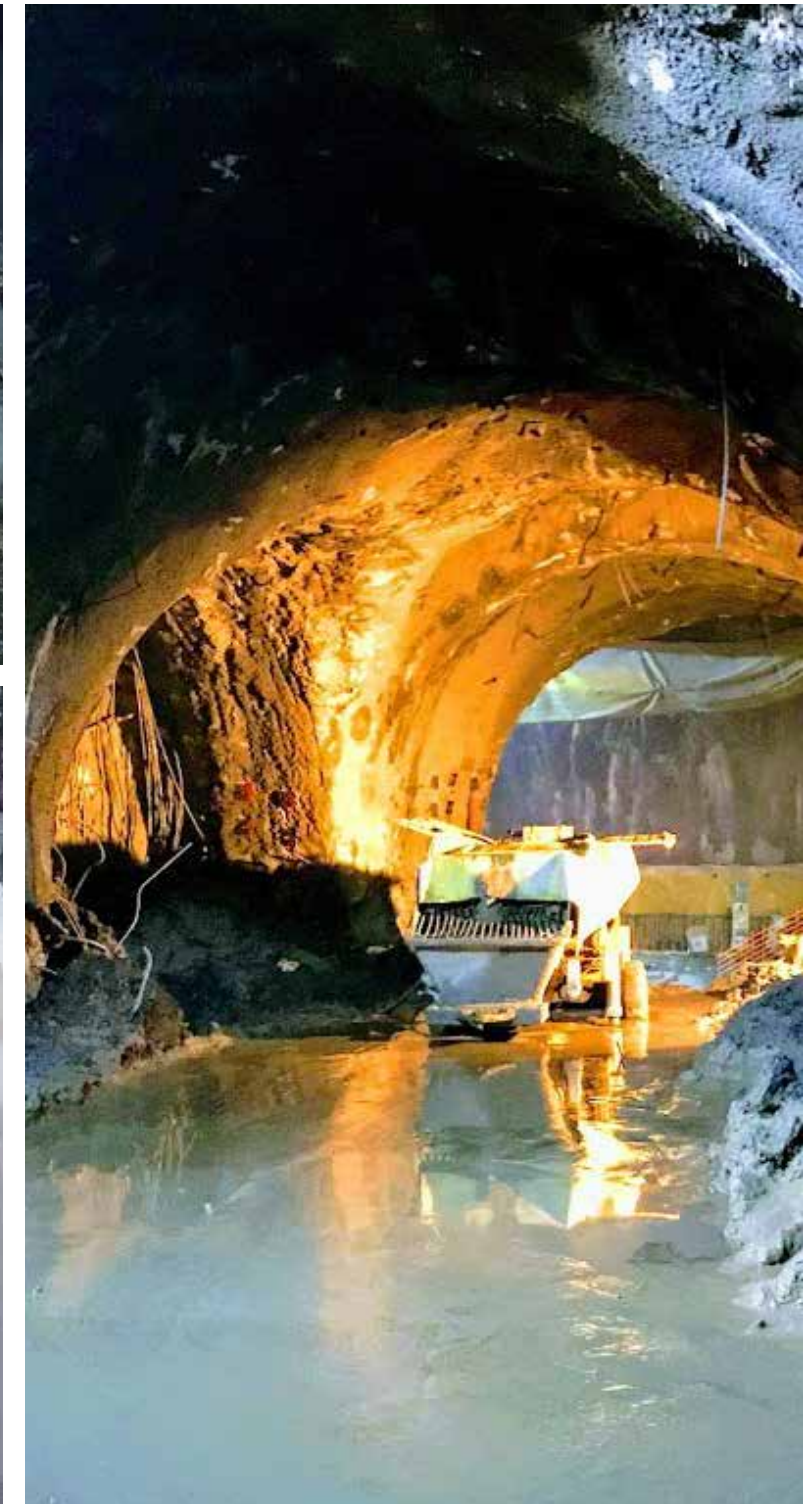
PROJECT VALUE:
€ - confidential

SERVICES:
Preliminary design
Final design
Detailed design

Metro

SYSTRA SWS
is strongly
committed to
delivering a 360°
design service for
Mass Rapid Transit
in urban areas

Our expertise covers different technical areas such as alignment and general design, structural and geotechnical design of tunnels and associated civil works, settlement analysis and monitoring, MEPs, stations and temporary works design.





Grand Paris Express Line 14 lot 4



Railways



Metro



Roads



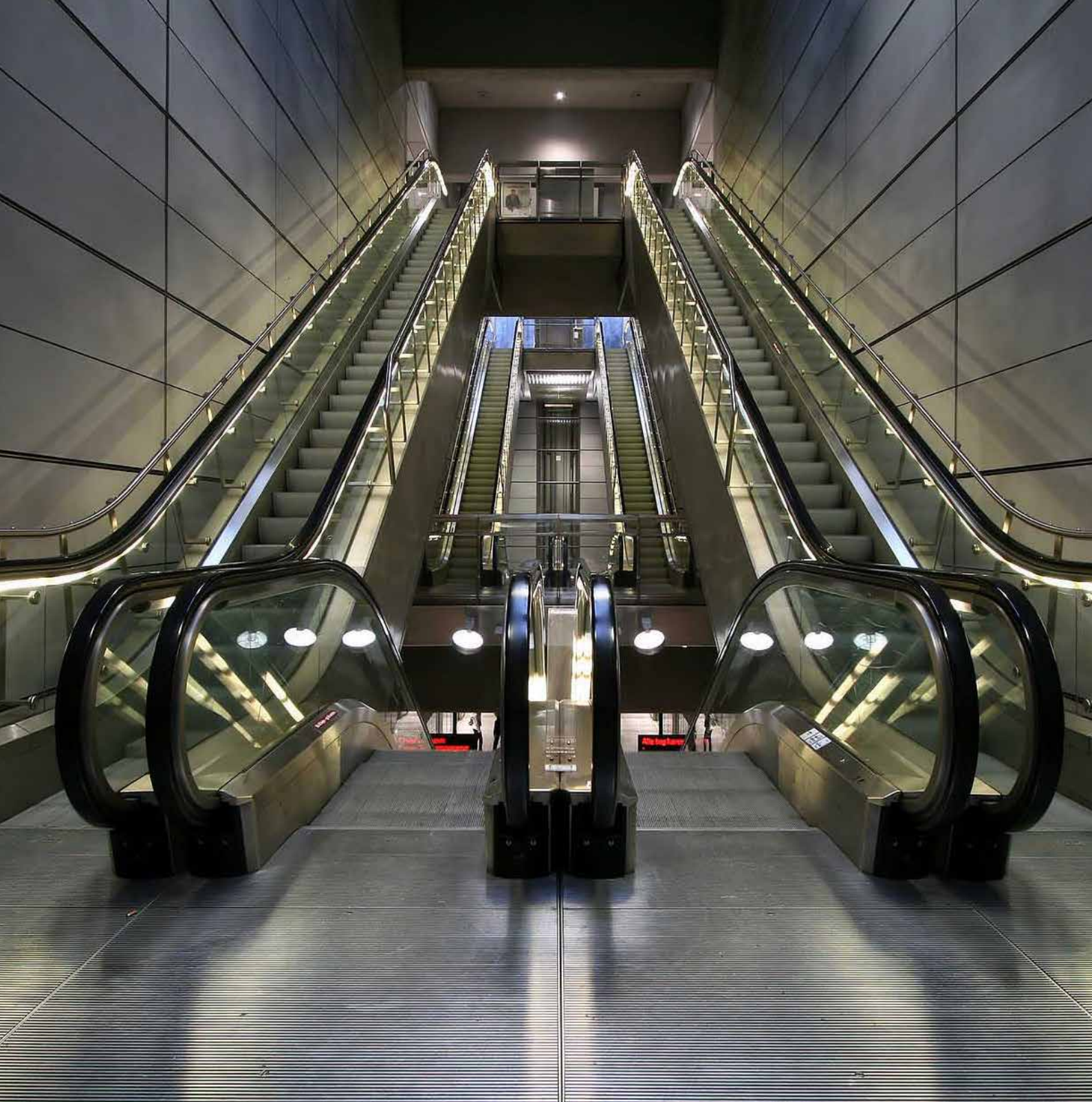
France

YEAR:
2018 - ongoing

CLIENT:
RATP Group

PROJECT VALUE:
€ 400 mln

SERVICES:
Detailed design



Copenhagen metro Metro line



Railways



Metro



Roads



YEAR:
2011 - 2017

CLIENT:
CMT Copenhagen Metro

PROJECT VALUE:
€ 1500 mln

SERVICES:
Detailed design
BIM modeling
Value engineering
Construction management



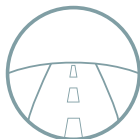
Toronto Metrolinx Cross passage propping system



Railways



Metro



Roads



YEAR:
2015

CLIENT:
Obayashi USA

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design review
Value engineering
Structural and ground
improvement design
SEM design



Grand Paris Express Line 16 lot 2



Railways



Metro



Roads



France

YEAR:
2019 - ongoing

CLIENT:
Salini Impregilo (Webuild
S.p.A.) and NGE

PROJECT VALUE:
€ 720 mln

SERVICES:
Independent check



Catania metro

Stesicoro metro station



Railways



Metro



Roads



YEAR:
2015 - 2016

CLIENT:
CMC di Ravenna

PROJECT VALUE:
€ 133 mln

SERVICES:
Detailed design
Tender assistance during
construction



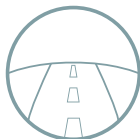
Grand Paris Express Line 15 lot T2A



Railways



Metro



Roads



YEAR:
2019 - ongoing

CLIENT:
Horizon Engineering S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



F. Altay - Narlidere - Kaymakamlık Metro line

YEAR:
2018 - ongoing

CLIENT:
İzmir Municipality, Gülermak
and Prota Engineering Ltd

PROJECT VALUE:
€ - confidential

SERVICES:
TBM & NATM Tunnel designs
including stations



Railways



Metro



Roads





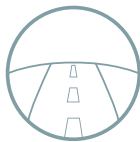
Catania metro Nesima metro station



Railways



Metro



Roads



YEAR:
2015 - 2016

CLIENT:
CMC di Ravenna

PROJECT VALUE:
€ 75 mln

SERVICES:
Detailed design
Tender assistance during
construction



Grand Paris Express Line 15 lot T3B



Railways



Metro



Roads



YEAR:
2018

CLIENT:
Horizon Engineering S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



Esenboğa - Kuyubaşı Metro line



Railways



Metro



Roads



YEAR:
2016

CLIENT:
AYGM and Italferr S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Tunnel design
Geotechnical services



Algiers metro

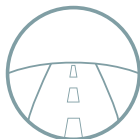
Metro extension



Railways



Metro



Roads



Algeria

YEAR:
2019 - ongoing

CLIENT:
Seli Overseas S.p.A.

PROJECT VALUE:
€ 60 mln

SERVICES:
Site assistance for mechanical
excavation



Rome metro Metro line C



Railways



Metro



Roads



YEAR:
2008

CLIENT:
Comune di Roma

PROJECT VALUE:
€ 7 mln

SERVICES:
Geotechnical consultancy



Grand Paris Express

Line 14 lot 1



Railways



Metro



Roads



YEAR:
2018

CLIENT:
Léon Grosse and
Soletanche-Bachy

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



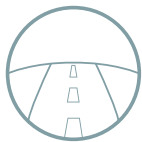
Naples metro Metro line



Railways



Metro



Roads



YEAR:
2017 - 2018

CLIENT:
Trevi Group

PROJECT VALUE:
€ - confidential

SERVICES:
Geotechnical consultancy



Sofia metro

Metro line



Railways



Metro



Roads



YEAR:
2014 - 2015

CLIENT:
Grandi Lavori Fincosit S.p.A.
Seli Overseas S.p.A. and
HSS Group Inc.

PROJECT VALUE:
€ - confidential

SERVICES:
Tender design



Gebze - Darıca Metro line



Railways



Metro



Roads



YEAR:
2018 - ongoing

CLIENT:
Kocaeli Municipality
Metgün-Eze and
Prota Engineering Ltd

PROJECT VALUE:
€ - confidential

SERVICES:
TBM & NATM Tunnel designs
including stations



Greater Cairo metro

Metro line 4



Railways



Metro



Roads



YEAR:
2018

CLIENT:
Bouygues Construction

PROJECT VALUE:
€ - confidential

SERVICES:
Tender design



Grand Paris Express Line 16 lot 1-3



Railways



Metro



Roads



YEAR:
2017

CLIENT:
Salini Impregilo
(Webuild S.p.A.)

PROJECT VALUE:
€ - confidential

SERVICES:
Tender design



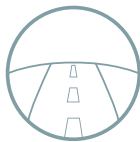
Mersin Gar - Mezitli Metro line



Railways



Metro



Roads



YEAR:
2018

CLIENT:
Mersin Municipality and
Prota Engineering Ltd

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



Grand Paris Express Line 18 lot 3



Railways



Metro



Roads



YEAR:
2017

CLIENT:
Vinci Construction

PROJECT VALUE:
€ - confidential

SERVICES:
Tender design



Singapore metro

Metro line



Railways



Metro



Roads



Singapore

YEAR:
2009

CLIENT:
CMC di Ravenna

PROJECT VALUE:
€ - confidential

SERVICES:
Tender design



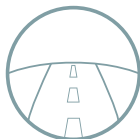
Grand Paris Express Line 15 lot T3A



Railways



Metro



Roads



France

YEAR:
2016 - 2017

CLIENT:
Salini Impregilo
(Webuild S.p.A.)

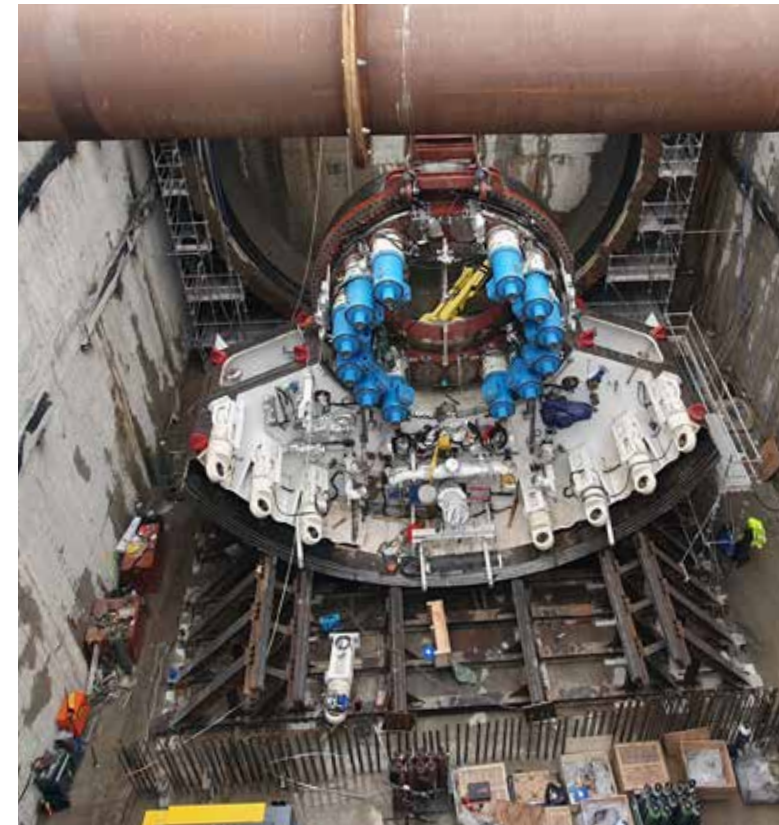
PROJECT VALUE:
€ - confidential

SERVICES:
Tender design

Roads

We manage a wide variety of projects, from the simplest to the most complex highway and road interchanges

Our expertise covers different technical areas such as alignment and general design, structural and geotechnical design of civil works, roadworks, earthworks and drainage, MEPs, environmental criteria.





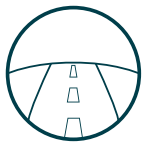
Israel road 6



Railways



Metro



Roads



YEAR:
2014 - 2016

CLIENT:
Impresa Pizzarotti & C. S.p.A.
and Shapir Eng & Industry

PROJECT VALUE:
€ 375 mln

SERVICES:
Preliminary design
Detailed design



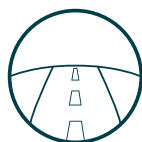
Frejus new tunnel



Railways



Metro



Roads



YEAR:
2008 - ongoing

CLIENT:
SFTRF and SITAF

PROJECT VALUE:
€ 350 mln

SERVICES:
Construction management



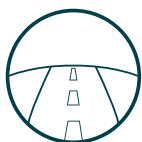
Trieste - Capodistria Freeway



Railways



Metro



Roads



YEAR:
2005 - 2008

CLIENT:
Municipality of Trieste

PROJECT VALUE:
€ 321 mln

SERVICES:
Load testing



S52 Expressway

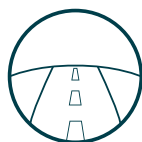
Two-way express road



Railways



Metro



Roads



YEAR:
2020 - ongoing

CLIENT:
GDDKiA
(General Directorate for
National Roads and Motorways)

PROJECT VALUE:
€ 320 mln

SERVICES:
Geotechnical and structural
construction design of the
cut&cover tunnels T04 and T14



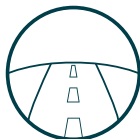
A14 Bologna - Taranto Highway



Railways



Metro



Roads



YEAR:
2012 - 2017

CLIENT:
Ghella S.p.A.

PROJECT VALUE:
€ 296 mln

SERVICES:
Preliminary design
Detailed design
Support on-site during
construction



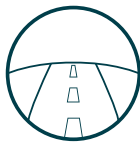
Palermo - Lercara Revamping



Railways



Metro



Roads



YEAR:
2009 - 2013

CLIENT:
Bolognetta

PROJECT VALUE:
€ 193 mln

SERVICES:
Detailed design



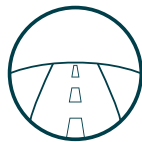
Cispadana Highway



Railways



Metro



Roads



YEAR:
2012 - 2013

CLIENT:
Consorzio ARCCOS

PROJECT VALUE:
€ 184 mln

SERVICES:
Detailed design



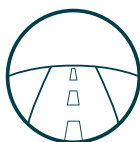
SS 554 Cagliariitana



Railways



Metro



Roads

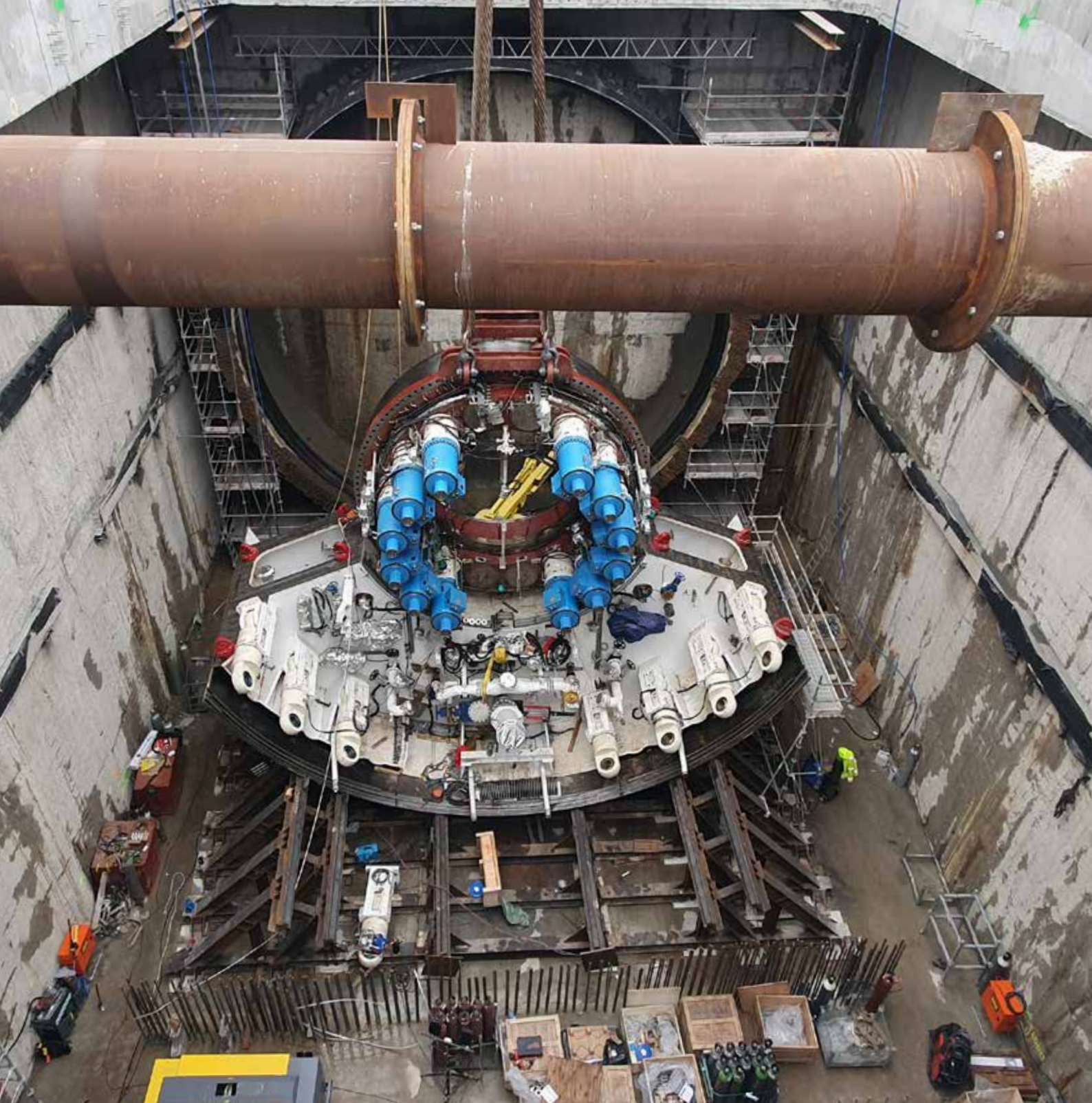


YEAR:
2016

CLIENT:
Astaldi S.p.A.

PROJECT VALUE:
€ 154 mln

SERVICES:
Tender final design



Świnoujście tunnel

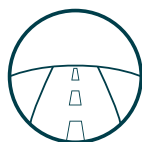
Tunnel under the Świna river



Railways



Metro



Roads



YEAR:
2018 - ongoing

CLIENT:
TSC

PROJECT VALUE:
€ 150 mln

SERVICES:
Final design
Execution design
Tunnelling supervision



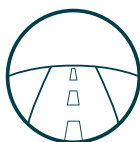
Campogalliano - Sassuolo Highway



Railways



Metro



Roads



YEAR:
2012

CLIENT:
Impresa Pizzarotti & C. S.p.A.

PROJECT VALUE:
€ 137 mln

SERVICES:
Detailed design



Tirano

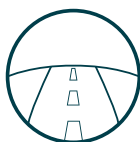
Road bypass



Railways



Metro



Roads



YEAR:
2009 - 2010

CLIENT:
Municipality of Sondrio

PROJECT VALUE:
€ 94 mln

SERVICES:
Preliminary design
EIA (Environmental Impact
Assessment)



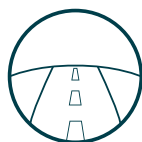
SS 195 Sulcitana



Railways



Metro



Roads



YEAR:
2009 - 2011

CLIENT:
Grandi Lavori Fincosit S.p.A.

PROJECT VALUE:
€ 88 mln

SERVICES:
Detailed design



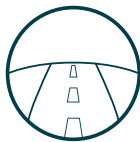
Tunnel T1 Djebel El Ouahch Collapsed tunnel restoration



Railways



Metro



Roads



Algeria

YEAR:
2017 - ongoing

CLIENT:
Cosider Travaux Publics
(Division Ouvrages Travaux
Speciaux)

PROJECT VALUE:
€ 56 mln

SERVICES:
Expertise
Additional investigations
Executive design
Technical assistance and
monitoring



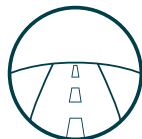
A4 Highway



Railways



Metro



Roads



YEAR:
2016 - 2017

CLIENT:
CMB, CCC and CGS

PROJECT VALUE:
€ 54 mln

SERVICES:
Detailed design



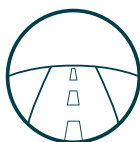
SS 125 Orientale Sarda



Railways



Metro



Roads



YEAR:
2017 - ongoing

CLIENT:
Oberosler

PROJECT VALUE:
€ 49 mln

SERVICES:
Final design



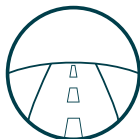
Martignano road tunnel



Railways



Metro



Roads



YEAR:
2001 - 2002

CLIENT:
Provincia Autonoma di Trento

PROJECT VALUE:
€ 47 mln

SERVICES:
Detailed design



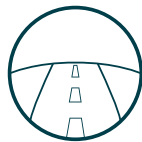
SS 237 del Caffaro



Railways



Metro



Roads



YEAR:
2009

CLIENT:
Provincia Autonoma di Trento

PROJECT VALUE:
€ 36 mln

SERVICES:
Preliminary design



Battipaglia

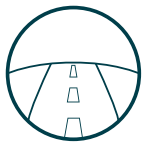
Road interchange



Railways



Metro



Roads



YEAR:
2008 - 2009

CLIENT:
Tecnis S.p.A.

PROJECT VALUE:
€ 32 mln

SERVICES:
Detailed design



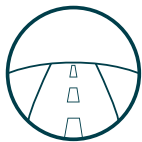
SS 63 Valico del Cerreto



Railways



Metro



Roads



YEAR:
2011 - 2013

CLIENT:
CCC. Bologna

PROJECT VALUE:
€ 31 mln

SERVICES:
Detailed design



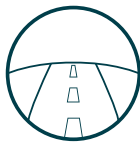
Civezzano Road bypass



Railways



Metro



Roads



YEAR:
2008 - 2009

CLIENT:
Adige Bitumi Impresa

PROJECT VALUE:
€ 25 mln

SERVICES:
Detailed design



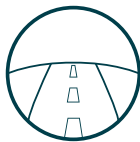
Tehran - Shomal Highway



Railways



Metro



Roads



YEAR:
2016 - 2017

CLIENT:
Tehran Shomal Freeway Co.

PROJECT VALUE:
€ - confidential

SERVICES:
Environmental design
Architectural design



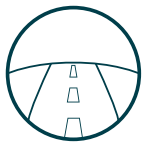
East-West Highway



Railways



Metro



Roads



Algeria

YEAR:
2016 - 2017

CLIENT:
Cosider Travaux Publics
(Division Travaux Infrastructures)

PROJECT VALUE:
€ - confidential

SERVICES:
Final design
Technical assistance



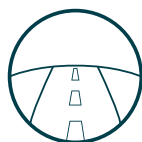
Santa Lucia Road bypass



Railways



Metro



Roads



YEAR:
2011 - 2016

CLIENT:
Municipality of Sondrio

PROJECT VALUE:
€ 22 mln

SERVICES:
Construction management



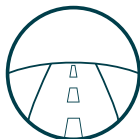
A1 Highway Overpasses



Railways



Metro



Roads



YEAR:
2006

CLIENT:
SPEA Ingegneria Europea

PROJECT VALUE:
€ - confidential

SERVICES:
Structural consultancy



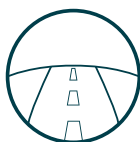
Caderzone Road bypass



Railways



Metro



Roads



YEAR:
1999 - 2007

CLIENT:
Provincia Autonoma di Trento

PROJECT VALUE:
€ 17 mln

SERVICES:
Detailed design



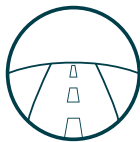
Herøysund bridge



Railways



Metro



Roads



YEAR:
2021 - ongoing

CLIENT:
Nordland Fylkeskommune

PROJECT VALUE:
€ 22 mln

SERVICES:
Geotechnical design
consultancy

1982

BUILDINGS



Garibaldi Twin Towers, Italy

2022

Buildings

Our engineers have technical competence and functional sensitivity to help our Clients shaping their ambitious projects

SYSTRA SWS expertise covers many different technical areas such as structural design, retrofitting, fire engineering, seismic engineering, performance-based design, MEPs, robustness analysis.





Çapa & Cerrahpaşa Hospital & Campus



Buildings



Turkey

YEAR:
2014 - ongoing

CLIENT:
Istanbul Üniversitesi Döner

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



Garibaldi Twin Towers



Buildings



YEAR:
2009 - 2010

CLIENT:
Beni Stabili S.p.A.

PROJECT VALUE:
€ 62 mln

SERVICES:
Detailed design



Bolzano - Bozen New prison



Buildings



YEAR:
2017 - ongoing

CLIENT:
Società Italiana per Condotte
d'Acqua

PROJECT VALUE:
€ 54 mln

SERVICES:
Preliminary design



Ilva of Taranto Steel shelters



Buildings



YEAR:
2018 - ongoing

CLIENT:
ArcelorMittal S.A.

PROJECT VALUE:
€ 220 mln

SERVICES:
Construction management



Residence Tolbiac

Building over the metro line



Buildings



YEAR:
2019

CLIENT:
Sicra

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design



L'Aquila C.A.S.E. project Emergency houses



Buildings



YEAR:
2009

CLIENT:
Ille Prefabbricati S.r.l.

PROJECT VALUE:
€ 22 mln

SERVICES:
Detailed design
MEP design
Construction management



Trentino Trasporti Maintenance depot



Buildings



YEAR:
2001 - ongoing

CLIENT:
Trentino trasporti S.p.A.

PROJECT VALUE:
€ 31 mln

SERVICES:
Preliminary design



Borgo Valsugana Hospital



Buildings



YEAR:
2011

CLIENT:
APSS Trento

PROJECT VALUE:
€ 14 mln

SERVICES:
Preliminary design



Arco Auditorium



Buildings



YEAR:
2007 - ongoing

CLIENT:
Municipality of Arco

PROJECT VALUE:
€ 4 mln

SERVICES:
Detailed design



Mirandola primary school



Buildings



Italy

YEAR:
2005 - 2007

CLIENT:
Municipality of Mirandola

PROJECT VALUE:
€ 7 mln

SERVICES:
Detailed design



Belasi Castle Refurbishment



Buildings



YEAR:
2004 - 2015

CLIENT:
Municipality of Campodenno

PROJECT VALUE:
€ 8 mln

SERVICES:
Preliminary design
Detailed design



Arpa of Ferrara Research center



Buildings



YEAR:
2012

CLIENT:
Mario Cucinella Architects

PROJECT VALUE:
€ 8 mln

SERVICES:
Structural consultancy



School of Quart Renovation & extension



Buildings



YEAR:
2013 - 2019

CLIENT:
Municipality of Quart

PROJECT VALUE:
€ 6 mln

SERVICES:
Preliminary design
Detailed design
Security coordination in
design phase



Tassullo Headquarters



Buildings



YEAR:
2003 - 2006

CLIENT:
Impresa Tassullo

PROJECT VALUE:
€ 3 mln

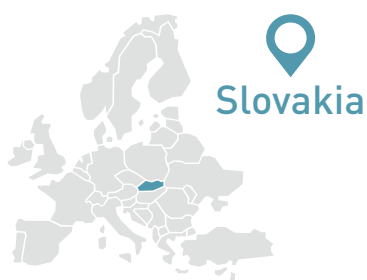
SERVICES:
Complete design process



Mochovce nuclear plant



Buildings



YEAR:
2013

CLIENT:
Eni S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Structural consultancy



Mezzocorona winery



Buildings



YEAR:
1995 - 2004

CLIENT:
Nosio S.p.A.

PROJECT VALUE:
€ 73 mln

SERVICES:
Complete design process

1982

WATER



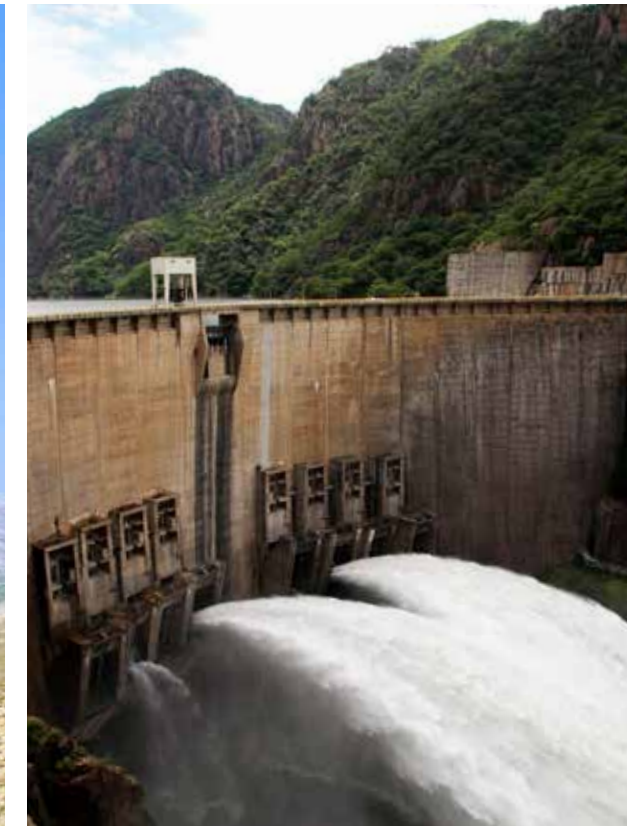
Lower Churchill I dam project, Canada

2022

Water

Since its foundation SYSTRA SWS has been developing advanced skills in the field of hydraulics studies and hydropower facilities

The combination of quality and creative thinking allows our engineers to deliver a wide set of services, ranging from feasibility studies to detailed design and construction assistance.





Lower Churchill dam project

New dam and powerhouse



Water



YEAR:
2014 - 2016

CLIENT:
Astaldi Canada Inc.

PROJECT VALUE:
€ 728 mln

SERVICES:
Final design



Mosul dam

Existing dam



Water



YEAR:
2016 - ongoing

CLIENT:
Trevi Group

PROJECT VALUE:
€ 273 mln

SERVICES:
Consolidation grouting
management



Cahora Bassa dam

Existing dam



Water




Mozambique

YEAR:
2014 - 2016

CLIENT:
Golder Associates Mozambique

PROJECT VALUE:
€ - confidential

SERVICES:
Rockfall protection design



Gibe dam III

Existing dam



Water




Ethiopia

YEAR:
2011 - 2017

CLIENT:
Salini Impregilo
(Webuild S.p.A.)

PROJECT VALUE:
€ - confidential

SERVICES:
Monitoring system design



Ilva of Taranto Existing hydraulic tunnel



Water



YEAR:
2017 - 2019

CLIENT:
ArcelorMittal S.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Work supervision



Kovanlik

Hydroelectric power tunnel



Water



YEAR:
2017 - 2019

CLIENT:
Kovanlik A.Ş.

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design
Final design
Technical assistance during
construction



Newark flood alleviation New hydraulic tunnel



Water



YEAR:
2016 - 2017

CLIENT:
GHD Group Pty Ltd

PROJECT VALUE:
€ - confidential

SERVICES:
Design check



Frogmore tunnel tideway New hydraulic tunnel



Water



YEAR:
2014 - 2019

CLIENT:
London Bridge Associates Ltd

PROJECT VALUE:
€ - confidential

SERVICES:
Construction activity support



Annacis Island new outfall tunnel

New hydraulic tunnel



Water



YEAR:
2012 - 2018

CLIENT:
STRABAG

PROJECT VALUE:
€ - confidential

SERVICES:
Basic design during the
tender phase



Forte Buso dam

Existing dam



Water



YEAR:
2013

CLIENT:
Primiero Energia S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Structural consultancy



Val Shener dam

Existing dam



Water



YEAR:
2013

CLIENT:
Primiero Energia S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Structural consultancy



Valda dam

New dam



Water



YEAR:
1983 - 1995

CLIENT:
Provincia Autonoma di Trento

PROJECT VALUE:
€ 151.000

SERVICES:
Detailed design



Crostolo dam

Existing dam



Water



YEAR:
2019 - ongoing

CLIENT:
AIPO (Agenzia Interregionale
per il Fiume Po)

PROJECT VALUE:
€ 4 mln

SERVICES:
Preliminary design
Detailed design



Scanzano - Rossella dam

Existing dam



Water



YEAR:
2020 - ongoing

CLIENT:
Regione Sicilia

PROJECT VALUE:
€ 5 mln

SERVICES:
Detailed design
Final design



Paceco dam

Existing dam



Water



YEAR:
2020 - ongoing

CLIENT:
Regione Sicilia

PROJECT VALUE:
€ 3 mln

SERVICES:
Seismic analysis
Hydraulic management design



Comunelli dam

Existing dam



Water



YEAR:
2020 - ongoing

CLIENT:
Regione Sicilia

PROJECT VALUE:
€ 4 mln

SERVICES:
Seismic analysis
Hydraulic management
design



Grandi Derivazioni Lombarde

Existing hydroelectric power



Water



YEAR:
2020 - ongoing

CLIENT:
ARIA S.p.A., Regione Lombardia

PROJECT VALUE:
€ - confidential

SERVICES:
Hydroelectric power site visits
and BOQ Asset evaluation



Brenta hydroelectric plant

Captation and adduction pipe



Water



YEAR:
2009 - 2012

CLIENT:
Proming S.r.l.

PROJECT VALUE:
€ - confidential

SERVICES:
Detailed design
Final design
Technical assistance during construction



Pavoncelli bis hydraulic tunnel

New hydraulic tunnel



Water



YEAR:
2016 - 2019

CLIENT:
Vianini Lavori S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Technical assistance during
construction



Iren water and sewage pipeline

Water and sewage facilities



Water



YEAR:
2020 - ongoing

CLIENT:
Iren S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Framework agreement
Preliminary design
Detailed design



Iren gas pipeline

Gas pipeline network



Water



YEAR:
2021 - ongoing

CLIENT:
Iren S.p.A.

PROJECT VALUE:
€ - confidential

SERVICES:
Framework agreement
Preliminary design
Detailed design



**Innovation
in underground
solutions**

SWS Engineering S.p.A.

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38123 Trento, Italy
Tel. +39 0461 979 000
sales@swsglobal.com

