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3TI PROGETTI at a glance

Primary Sectors of Activity:

- Rail and Metro
- Airports
- Roads
- Ports
- Healthcare Buildings
- Building Engineering
- Water
- Energy
- Technical Advisory Services

www.3tiprogetti.it
“3TI PROGETTI is an independent employee-owned engineering company with highly qualified and passionate professionals”
When our company opened its doors 21 years ago, we planted the seeds of our long-term growth in two ways. Our first step was to make technical excellence and client service the core of our business. This central value is also our fundamental business strategy: we focus on forging strong, long-term relationships with our clients and consider sound client relationships to be the most important guarantee of success.

Secondly, we embraced employee ownership as the best way to achieve our goals. People are our greatest asset. Our professionals are creative, award winning, environmentally and socially conscious, and keenly aware of our clients’ needs. The result is an exciting, dynamic and innovative firm that values workforce diversity and welcomes new talent and experienced professionals with the same enthusiasm.

Over the last five years 3TI PROGETTI has doubled its revenues, and the year 2017 established a benchmark of 200 new projects started. This means that 3TI has successfully completed 2,500 projects, using our best resources to satisfy our clients.

Offering innovative, client-oriented, high-quality and sustainable services leads to new business, returning clients and a reputation for excellence. By focusing on our core values and providing the best possible services to our clients, 3TI ensures the financial success of all parties involved.

alfredo ingletti
President, 3TI PROGETTI
3TI PROGETTI

is the largest Italian independent fully employee-owned engineering company, ranked in the ENR TOP 225 INTERNATIONAL DESIGN FIRMS, offering consulting services for over 20 years in planning, design, project & construction management of transport infrastructures, hospitals & buildings, energy & water.

1997

Founding of the Professional Association of Engineers
3TI PROGETTI CEPPAROTTI INGLETTI POSSATI INGEGNERI ASSOCIATI

2002

3TI ITALIA S.r.l. is born with the contribution of professionalism and new partners

2009

The group becomes a joint-stock company under the name 3TI PROGETTI ITALIA S.p.A.

NOW

We are 3TI PROGETTI with Headquarters in Rome and 14 Locations all around the world

+20 YEARS OF ACTIVITY

25mln € REVENUES

75% INTERNATIONAL REVENUES

+2500 PROJECTS

+500 CLIENTS

+100 PARTNERSHIP

+30 COUNTRIES
MISSION

We develop projects adopting new technologies in collaboration with professionals to achieve cultural growth and develop creativity.

We direct all our efforts to reach the full satisfaction of the client due to our experience in local and international stakeholder management.

We create opportunity for costumers, stakeholders and employees with a flexible approach to safeguard client’s commercial interests.

VISION

We promote engineering services which optimize and reduce the environmental impact as an added value of our project proposals.

We want to be a leading Brand and a preferred consultant in all our designated markets.

We create our set of shared and clear rules to ensure the quality system in services and products.

SERVICES

TRANSPORT INFRASTRUCTURES

- Feasibility Studies
- Environmental Impact Studies
- Landscaping
- Preliminary and Detailed Design
- Shop drawings
- Road Design
- Rail Design
- Airport Design
- Port Design
- MEP Engineering
- Geology, Hydrogeology and Geotechnics
- Hydraulic Infrastructures
- Project and Construction Management
- Quantity Surveying and Cost Control
- Health & Safety
- Works Supervision
- Monitoring
- Value Engineering

SOCIAL INFRASTRUCTURES

- Environmental Impact Studies
- Master Planning and Feasibility Studies
- Preliminary and Detailed Design
- Shop drawings
- Socioeconomic Impacts
- Geology, Hydrogeology and Geotechnics
- Architectural Design
- Structural Design
- MEP Engineering
- Renewable Energy
- Fire Prevention Design
- Quantity Surveying and Cost Control
- Project and Construction Management
- Health & Safety
- Works Supervision
- Value Engineering

ENERGY/WATER ENVIRONMENT

- Master Planning and Feasibility Studies
- Environmental Impact Studies
- Environmental Monitoring and Laboratory
- Water and Wastewater Infrastructure
- Sewerage
- Wastewater Treatment
- Water Management
- Renewable Energy
- Health & Safety Management
- Construction Site Planning
- Works Supervision

TECHNICAL ADVISORY

- Advisory Services for Tenders
- Advice and Assistance on local building code compliance issues
- Project Finance Advisory
- Scheduling
- Technical Due Diligence
- Independent Check
- Financial Reporting
- Cash Flow Control
FINANCIAL RESULTS

3TI PROGETTI increased its 2017 revenues (solely from engineering and architectural consulting services) exceeding €25 million. Over the past 6 years the turnover has increased by 100%. Despite challenging conditions in key markets, 3TI PROGETTI continues to increase its revenues, deliver positive net cash flow and increase operating profits.

![Graph showing turnover by geographic area]

**25 mln € REVENUES 2017**

**75% INTERNATIONAL REVENUES**

**+100% TURNOVER 2017/2011**

www.3tiprogetti.it
Among our staff we have young talents and experienced professionals from 20 different countries, speaking 14 different languages and with demonstrated skills and knowledge in all fields of engineering, as well as in new technologies (such as BIM design).

From engineers to architects, from international to local experts, 3TI PROGETTI offers its Clients a competitive team of passionate professionals driven to make a difference. More than 98% of 3TI staff holds university degrees in the relevant fields of our company operations.

Italian
French
Romanian
Spanish
Omani
Albanian
Turkish
British
Cameroon
Greek
Croatian
Chinese
Saudi
Bulgarian
Indian
Australian
Senegalese
Vietnamese
Lebanese
Colombian

Our customers and partners have been reaping the benefits of our vision.

BIM helps us to provide solutions able to increase the benefits achieved through optimization and greater efficiency solutions, reducing both time and project delivery, reducing risk, enhanced sustainability and better whole-life performance.

3TI PROGETTI stands firmly behind BIM philosophy moving forward, experiencing a fully multi-disciplinary approach like never before in all of our sectors.
Headquarters: Rome - Italy
Other offices: USA | Qatar | Saudi Arabia | Oman | UAE | Kuwait | India | Vietnam | Hong Kong | France | Romania | Bulgaria | Albania | Turkey

www.3tiprogetti.it
MAIN REFERENCES:

MUSCAT INTERNATIONAL AIRPORT, OMAN
completion: ongoing
client: MINISTRY OF TRANSPORT AND COMMUNICATIONS SULTANATE OF OMAN

INTERNATIONAL HENRI COANDA ‘OTOPENI’ AIRPORT, ROMANIA
completion: 2018 - ongoing
client: NATIONAL BUCHAREST AIRPORTS COMPANY

CRAIOVA AIRPORT, ROMANIA
completion: 2017
client: AZVI S.A. ON BEHALF OF CRAIOVA AIRPORT

MILITARY AIRPORT IN SAUDI ARABIA
completion: 2016
client: EL SEIF ENGINEERING CONTRACTING COMPANY LTD

NEW HELICOPTER BASE MARATEA , ITALY
completion: 2017 - ongoing
client: UNIONE LUCANA DEL LAGONEGRESE

MASTER PLAN FOR ROME FUMICINO “LEONARDO DA VINCI” INTERNATIONAL AIRPORT
completion: 2012
client: URS (FORMERLY SCOTT WILSON LTD)

GEORGE ENESCU AIRPORT, BACAU, ROMANIA
completion: ongoing
client: JUDEȚUL BACAU

ADAM AIR BASE, OMAN
completion: ongoing
client: MINISTRY OF DEFENCE AND SECURITY OF SULTANATE OF OMAN

ALGHERO AIRPORT, ITALY
completion: ongoing
client: SO.GE.A.AL S.P.A.

IBOM INTERNATIONAL AIRPORT UYO, AKWA IBOM STATE, NIGERIA
completion: 2013
client: ALCON NIGERIA Ltd

TULCEA INTERNATIONAL AIRPORT, ROMANIA
completion: 2016
client: S.C. SPECIALIST CONSULTING S.R.L.

BOLOGNA “GUGLIELMO MARCONI” INTERNATIONAL AIRPORT: NEW PASSENGER TERMINAL FEASIBILITY STUDY
completion: 2014
client: SAB

AOSTA AIRPORT «CORRADO GEX» , ITALY
completion: ongoing
client: VALLE D’AOSTA REGION

MOI HEADQUARTER HELIPAD - RIYADH, SAUDI ARABIA
completion: 206 - ongoing
client: MINISTRY OF INTERIOR
We take pride in our ability to deliver globally innovative, industry leading, world-class airport designs based on integrated solutions incorporating retail, leisure, dining, hospitality facilities and office space.

SERVICES

Our services for airport systems include:

- Tender Preparation and Selection
- Master Planning and Feasibility Studies
- Environmental Impact Studies
- Environmental Monitoring
- Socioeconomic Impact Studies
- Passenger Flow Modelling
- Surveys and Investigations
- Geological, Hydrogeological and Geotechnical Engineering
- Hydrological and Hydraulic Engineering
- Urban Landscaping
- Architectural Design
- Airport Layout Design
- Structural Design
- Concept and Detailed Design
- Design of Viability and Parking Structures
- Lighting Systems Design
- Special Systems Design
- Technological Systems Design
- Security and Access Control Systems
- Rescue and Fire Fighting
- Aerodrome Safeguarding
- Shop Drawings
- Project Management, Supervision and Maintenance
- Works Supervision
- Airport Economic and Operations Studies and Support Services
- Financial Planning
- Value Engineering
SECTORS

Our staff is specialised in the design and planning of:

- Airport Facilities
- Passenger Terminals
- ATC Towers and Facilities
- Cargo Terminals and Systems
- Hangars and Maintenance Facilities
- Runway, Pavement Design and Refurbishment
- Aprons
- Heliports
- Low-Cost Carrier Facilities
- Taxiway Planning
- Surface Access
- Infrastructure and Integrated Transport Access
- Carpark Facilities
- GSE Areas

3TI has earned an outstanding reputation for its achievements in complex and large projects, primarily for the public sector. The design of each airport pursues the objective of conjugating forms and functions. This approach ensures the efficient development of the terminal and airport, reducing capital investments and operational costs. The result in an “airport city” capable of bolstering international development and representing a focal point for regional and national economies.

3TI PROGETTI is an engineering consultant to some of the most renowned architects specialised in airport design. As a leader in the management, planning and design of landside and airside facilities, we help airport authorities implement their programmes for new and expanded airport facilities.
MAIN REFERENCES:

RED LINE SOUTH UNDERGROUND - DOHA, QATAR
completion: ongoing
client: QDVC JV

BRENNER BASIS TUNNEL CONSTRUCTION - LOT (MULES 2-3), ITALY
completion: ongoing
client: BBT SE

RIYADH METRO LINE 3 - RIYADH, SAUDI ARABIA
completion: ongoing
client: CIVIL WORK GROUP JV (ON BEHALF OF ADA)

WESTERN ICONIC STATION 3B2 - RIYADH METRO LINE 3, SAUDI ARABIA
completion: ongoing
client: ARAIL Ltd

METRO MAKKAH, SAUDI ARABIA
completion: 2015
client: NESMA & PARTNERS

OMAN RAIL PROJECT - SEGMENT 1 - EPC CONTRACT
completion: 2015
client: SALINI IMPREGILO S.P.A.

BRASOV – SIMERIA RAILWAY LINE, SIGHISOARA – COSLARIU STRETCH (LOT 2), ROMANIA
completion: ongoing
client: NATIONAL RAILWAY COMPANY “CFR” SA

SEGMENT N. 1 OF THE NEW OUED TLELAT-TLEMCEN HIGH SECTION N.1, ALGERIA
completion: 2016
client: RIZZANI DE ECCHER S.p.A.

NEW SOUTH ACILIA STATION AND A NEW PASSENGER BUILDING IN TOR DI VALLE TRAIN STOP - ROME, ITALY
completion: 2015
client: ITALIANA COSTRUZIONI S.P.A.

TURIN HIGH SPEED CROSS RAIL, ITALY
completion: 2014
client: RFI S.p.A

LUNGHEZZA - GUIDONIA RAILWAY LINE, ITALY
client: LISTA APPALTI SRL

NEW MILANO-PARCO NORD-SEREGNO METROPOLITAN TRAMLINE, ITALY
completion: ongoing
client: CMC - COOPERATIVA MURATORI CEMENTISTI

COPENAGHEN METRO - MARMORKIRKEN STATION, DENMARK
completion: 2012-2013
client: SALINI COSTRUTTORI S.P.A.

BANGALORE METRO RAIL PROJECT, INDIA
completion: 2011
client: GEODATA S.P.A.
RAIL AND METROS
In recent years, the field of railway design has grown to become one of the leading sectors of 3TI’s activities. The Company has been actively contributing to the design of important projects to modernise and upgrade the Italian railway network for many years. The result of this constant effort is the construction of a harmonious and specialised team, with proven experience in the Preliminary, Final and Detailed Design of rail and metro projects.
Our company provides the full range of expertise required to study, design and manage contracts for heavy rail, light rail, high-speed routes, trams and metros.

SECTORS

Our specialist staff is active in the design and planning of:

- Rail
- Metros
- Stations
- Light-Rail Urban Systems
- Cross rail

The technical proposals developed by 3TI consistently aim at improving conditions of accessibility and transport. We work in close contact with local authorities to identify the most economic and sustainable solutions, capable of integrating the design of railways with passenger interchange/intermodal areas enriched by attractive public, commercial and retail spaces and for meeting and social interaction.

3TI PROGETTI boasts a vast experience in this field, consolidated over the years under various framework contracts with important Italian clients, offering support and strategic advice at the large and small scale.
THIRD LANE OF THE MOTORWAY A4 BETWEEN THE NEW BRIDGE OVER THE TAGLIAMENTO RIVER AND GONARS, ITALY
completion: ongoing
client: TILIAVENTUM

NATIONAL HIGHWAY 77 - DJENDJEN - EL EULMA, ALGERIA
completion: ongoing
client: EGIS INTERNATIONAL

FOUR LANEING OF NER CHOWK PANDOH SECTION OF NH-21 - STATE OF HIMACHAL PRADESH, INDIA
completion: ongoing
client: KMC CONSTRUCTION LIMITED FOR NATIONAL HIGHWAYS AUTHORITY OF INDIA.

CONSTRUCTION OF THE A31 TRENTO - ROVIGO HIGHWAY BETWEEN TRENTO - VALDASTICO - PIOVENE ROCCHETTE, ITALY
completion: ongoing
client: S.P.A AUTOSTRADA BRESCIA VERONA VICENZA PADOVA

NIZWA & RUSEYL INDUSTRIAL ESTATE, OMAN
completion: ongoing
client: PEIE (PUBLIC ESTABLISHMENT FOR INDUSTRIAL ESTATES)

SHAMKA SOUTH AREA - ABU-DHABI, UAE
completion: 2010
client: URBAN DEVELOPMENT COMMITTEE - ABU DHABI - UAE

PEDEMONTANA LOMBARDIA MOTORWAY: DALMINE-COMO-VARESE-GAGGIOLI PASS MOTORWAY LINKS AND RELATED WORKS-SECOND LOT, ITALY
completion: ongoing
client: NUOVA BRIANTEA SCARL

RECONSTRUCTION/REHABILITATION OF THE MOYAMBA–MOYAMBA JUNCTION ROAD AND BRIDGES, SIERRA LEONE
completion: ongoing
client: GOVERNMENT OF REPUBLIC OF SIERRA LEONE

ROAD III-208 “PROVADIA - DUSKOTINA – AYTOS” BULGARIA
completion: ongoing
client: AGENTSIYA “PUTNA INFRASTRUKTURA” (API)

CONSTRUCTION OF A BYPASS TUNNEL IN THE AREA AT RISK OF LANDSLIDES IN CEFFO MORELLI, ITALY
completion: ongoing
client: SCR PIEMONTE S.p.A.

SALERNO-REGGIO CALABRIA MOTORWAY - MACRO LOT 3 PART 2, ITALY
completion: ongoing
client: ITALSARC S.C.A.R.L.
SERVICES

• Feasibility Studies
• Environmental Impact Studies
• Environmental Monitoring
• Surveys and Investigations
• Traffic Modelling and Data Analysis
• Transport Consulting
• Concept and Detail Design
• Landscaping
• Project and Construction Management
• Works Supervision
• Geological Engineering
• Hydrogeological Engineering
• Geotechnical Engineering
• Environmental Mitigation Works
• Design of Open-Air Works
• Bridge Assessment and Strengthening
• Tunnel Design
• Pavement Engineering
• Design of Viability and Parking Lots
• Fire Engineering
• Mechanical and Electrical Engineering
• Lighting Systems
• Infrastructure Maintenance and Management
• Shop Drawings
• Health and Safety Management
• Bill of Quantities and Cost Management
• Planning and Economics
• Project Finance
• Value Engineering
3TI PROGETTI's dedicated team of road infrastructure designers carefully examines all aspects of each project. Our integrated solutions aim at reducing traffic congestion and minimising environmental impact.

SECTORS

Our staff is specialised in the design and planning of:

- Roads
- Bridges
- Viaducts
- Tunnels
- Underground Channels
- Pedestrian Areas
- Commercial Parking areas
- Signage
- Lighting

3TI PROGETTI provides a range of transport engineering solutions for roads and motorways, offering state of the art technological solutions for utilities infrastructures.

In addition to the design of new roads, our activities also include complex reconversions and studies to ensure the statutory compliance of existing infrastructures with applicable norms, as well as the maintenance of related infrastructures (bridges, viaducts, etc.). Our objective is to create safer roads using the latest available technologies based on the belief that better viability is made possible by the integration between new and existing roads. Better viability contributes to economic growth through accessibility, producing positive effects in a wide range of fields.
MAIN REFERENCES:

NEW OFF-SHORE-MULTIMODAL TERMINAL IN VENICE, ITALY
completion: 2017 - ongoing
client: VENICE PORT AUTHORITY

SMART INDUSTRIAL PORT CITY (SIPC) AT KANDLA - GANDHIDHAM – ADIPUR COMPLEX, INDIA
completion: 2016 - ongoing
client: KANDLA PORT TRUST

MAIN GATE, STUDY & DESIGN, IN PORT OF SALALAH, OMAN
completion: ongoing
client: GOVERNMENT OF THE SULTANATE OF OMAN - MINISTRY OF TRANSPORT & COMMUNICATION

TERMINAL FOR COMBINED, UNACCOMPANIED TRANSPORT (TCNA) IN THE FORMER MAROTTI RAILWAY YARD, ANCONA, ITALY
completion: 2012
client: PORT AUTHORITY OF ANCONA

IMPROVEMENT OF THE DOCK’S NAVIGABILITY OF THE PORT OF RAVENNA, ITALY
completion: ongoing
client: RAVENNA PORT AUTHORITY

PORT OF PALERMO MARITIME STATION, ITALY
completion: 2012
client: SO.CO.STRA.MO S.r.l.

COMPLEX URBANISATION OPERATION AND ENLARGEMENT OF THE PORT OF MORONI, COMORE ISLAND
completion: 2011
client: SCF MIDDLE EAST

COMMERCIAL PORT OF AUGUSTA, ITALY
completion: 2011
client: MONDELLO S.p.A.

THIRD PHASE OF MARITIME WORKS IN THE PORT OF ANCONA, ITALY
completion: 2010
client: CMC

SOUTHERN DOCK OF THE TURNING BASIN OF THE INDUSTRIAL PORT OF CAGLIARI, ITALY
completion: 2010

NEW TOURIST PORT IN FORMIA, ITALY
completion: 2010
client: MARINA DI CICERONE S.p.A

PREPARATION OF THREE FEASIBILITY STUDIES FOR THE IMPLEMENTATION OF A SUSTAINABLE DEVELOPMENT PLAN FOR THE MUNICIPALITY OF SYRACUSE, ITALY
completion: 2010
client: CITY OF SYRACUSE

PORT OF NETTUNO, ITALY
completion: 2009
client: MODIMAR S.r.l.
Les interventions d'amélioration proposés consistent en des travaux de complétion du quai du côté sud du bassin du port chenal de Cagliari et prévoient la construction d'un nouveau front d'amarrage permettant de compléter le quai côté sud du bassin jusqu'à son intersection avec la rive ouest du port chenal.

Les améliorations concernent les caractéristiques techniques des parties fondamentales du nouveau quai de type «danois» conçu comme une nervure en tête de la porte, et concernent en outre l'utilisation de la technique du béton bitumineux drainant (type open grade) rempli par un coulis de ciment.

CONSORZIO STABILE CENTRITALIA S.C.P.A.

TRAVAUX DE ACHÈVEMENT DU QUAI CÔTÉ SUD DU BASSIN D'ÉVOLUTION DU PORT DE CAGLIARI

SERVICES RENDUS:

- conception

Période temporelle: 2010

Lieu: Cagliari

Valeur financière: Francs CFA 11.807.226.000,00 (18 mln €)

www.3tiprogetti.it

PORTS
The expertise gained over the years in the sector of infrastructural engineering and in traditional and landscape architecture have allowed 3TI to develop several projects for tourist ports that respond to the needs of developers while fully respecting the marine and coastal environments in which they are constructed.
SECTORS

Our staff is specialised in the design and planning of:

- Small Harbours
- Container Terminals
- Intermodal Tourist Terminals
- Cruise Terminals
- Ship Building and Repair Yards
- Dredging and Reclamation

Our projects focus particular attention on introducing measures of environmental impact mitigation and techniques for limiting direct and indirect pollution. This means including guidelines for the management of the construction site and ex-post monitoring plans for the entire waterfront area from the earliest phases of design. The targets of such interventions are seaside areas, external and internal maritime areas, related on-shore areas, installations, facilities and plants on aprons, docks and piers, including fire fighting/preventing systems that represent an key objective for modern ports, directly related to the type of activities and goods found in such locations.

New infrastructures find their strength in the integration and improvement of the functionality and liveability of the environments they inevitably modify.
MAIN REFERENCES:

ENEL GREEN POWER, ITALY
completion: ongoing
client: ENEL GREENPOWER

CAORSO NUCLEAR POWER PLANT (PC), ITALY
completion: ongoing
client: SOGIN

SEWAGE TREATMENT DOUBLING PLANT IN GELA RAFINERY, ITALY
completion: ongoing
client: NUROVI

MECHANICAL AND BIOLOGICAL TREATMENT PLANT FOR THE DISPOSAL OF MUNICIPAL WASTE IN TIMPAZZO, GELA - ITALY
completion: 2016
client: SICILY REGION

HYDROELECTRICAL PLANT AT THE “CARLESSI” RESERVOIR – ROMANO D’EZzelino, ITALY
completion: 2016
client: ETRA FUTURO SOSTENIBILE

BAJKAJ LANDFILL, ACCESS ROAD AND TRANSFER STATION AT HIMARA, ALBANIA
completion: 2016
client: MINISTRY OF PUBLIC WORKS AND TRANSPORT - Project Coordination Unit (PCU)

WASTE MANAGEMENT FACILITY EUREX OF SALUGGIA (VC), ITALY
completion: 2013
client: SOGIN

GARIGLIANO NUCLEAR POWER PLANT - SESSA AU-RUNCA (CE), ITALY
completion: 2013
client: SOGIN

PHOTOVOLTAIC SYSTEMS IN COLLELONGO, VILLA VALLELONGA, CARPINETO SINELLO, ITALY
completion: 2012
client: GRANSOLAR GHELla S.p.A.

HYDROELECTRIC POWER STATION AND WATER WITHDRAWAL WORKS - CASSANO IRPINO, CAPOSELE, ITALY
completion: 2011
client: ICS GRANDI LAVORI S.p.A.

PHOTOVOLTAIC POWER STATION IN THE MUNICIPALITY OF LEGNANO, ITALY
completion: 2011
client: CLEAN ENERGY S.r.l.

PHOTOVOLTAIC AND SOLAR SYSTEMS FOR THE E.R.S.U. OF CAMERINO, ITALY
completion: 2011
client: E.R.S.U.

CONSTRUCTION OF A WIND FARM IN SAN GREGORIO
ENERGY
When designed with the proper attention toward the environment and architecture, renewable resources can be used to construct new, dignified landscapes that represent the values of our time. Their use can be focused on optimising the quality of life and the energetic and environmental performance of each single building by integrating passive and active technologies designed to reduce the consumption of energy and favour on-site production. This is equally true when they are employed to produce energy for vast areas using wind farms, photovoltaic systems and hydroelectric power stations.

SERVICES

- Feasibility Studies
- Environmental Impact Studies
- Environmental Monitoring
- Surveys and Investigations
- Master Plans
- Asset Valuation
- Legal and Regulatory Requirements
- Concept and Detail Design
- Urban Landscaping
- Geology
- Hydrogeology
- Geotechnical Engineering
- Operations and Maintenance
- Project Management and Planning Resources and Systems
- Health and Safety Management
- Bill of Quantities and Cost Management
- Economic and Financial Modelling
- Cost/benefits Analysis
- Project Finance
- Value Engineering
- Construction Site Design
- Project and Construction Management
- Work Supervision
SECTORS

Our staff is specialised in the design and planning of:

- Energy Efficiency
- Green Buildings
- Solar Farms
- Wind Farms
- Hydroelectric Energy
- Geothermal Power

3TI offers services dedicated to improving the energy efficiency of industrial and residential buildings through the production of energy from renewable sources and the application of innovative systems and products with a low impact on the environment. The realisation of zero emissions buildings is one of our goals. We consider the conversion of urban and industrial areas into environment-friendly spaces to be an optimal solution.

Solar power represents the renewable energy source with the highest growth in consumption, due primarily to an important increase in the use of photovoltaic technologies, witness to an increase in consumption in the order of 60% during the past year.

The use of wind power rose by 12%, with geothermal power showing an increase of only 1.2%, hydroelectric power remains the second most important renewable source in the European energy mix.
MAIN REFERENCES:

VOOPS (VENICE ONSHORE OFFSHORE PORT SYSTEM), ITALY
completion: ongoing
client: VENICE PORT AUTHORITY

GIAMPILIERI – FUMEFREDDO MESSINA CATANIA RAILWAY LINE, ITALY
completion: ongoing
client: ITALFERR S.P.A.

SEWAGE TREATMENT DOUBLING PLANT IN GELA REFINERY, ITALY
completion: ongoing
client: NUROVI

MODERNIZATION AND EXPANSION OF SEWERAGE NETWORKS - SELEX ES PLANT IN VIA TIBURTINA - ROME, ITALY
completion: ongoing
client: FINMECCANICA GLOBAL SERVICES S.p.A.

HYDRAULIC SECURING OF THE LOWER COURSE OF THE TAGLIAMENTO RIVER, ITALY
completion: 2016
client: REGIONE VENETO

THE CUSTODIAN OF TWO HOLY MOSQUES KING ABDULLAH BIN ABDUL AZIZ FOR DEVELOPING THE SECURITY HEADQUARTERS – MOI – PHASE 2-C (KAP2/C)
completion: ongoing
client: ABV ROCK Ltd.

REDUCING OF THE HYDRAULIC RISK ALONG THE LURA RIVER, PEDEMONTE LOMBARDA HIGHWAY PROJECT, ITALY
completion: ongoing
client: NUOVA BRIANTEA SCARL

MUSCAT AIRPORT, FEASIBILITY STUDY FOR WEST DRAINAGE AREA (WS3), OMAN
completion: 2014
client: HILL INTERNATIONAL LLC ON BEHALF OF THE MINISTRY OF TRANSPORT AND COMMUNICATION OF SULTANATE OF OMAN

EXPANSION AND ENHANCEMENT OF THE PURIFIER IN LAMPEDUSA, ITALY
completion: 2015
client: MONDELLO S.p.A

CONSTRUCTION OF NEW SLIP ROADS BETWEEN THE CASILINA AND PRENESTINA INTERCHANGES ON THE GRA OF ROME, ITALY
completion: 2016
client: GALOTTI S.p.A

BAIKAJ LANDFILL, CHANNEL RECONSTRUCTION, ALBANIA
completion: 2016
client: MINISTRY OF PUBLIC WORKS AND TRANSPORT

COMPLETION OF THE NAVIGATION LOCK AT VALDARO, ITALY
completion: 2014
client: AMBIENTE S.C.
Nella tratta d'intervento l'attuale linea ferroviaria costituisce, sotto l'aspetto urbanistico e idraulico, lo spartiacque fra i quartieri ad ovest ed a est di Corso Principe Oddone e di Corso Venezia; per le canalizzazioni idrauliche esistono tuttavia locali attraversamenti della sede ferroviaria, sia a gravità, specie per le fognature nere, sia con tombini a sifone, ai quali andrà garantita continuità d'esercizio (anche in fase transitoria) adattando il regime idraulico alla nuova posizione planioaltimetrica della ferrovia e della sezione di progetto.

Le opere idrauliche di progetto comprendono a grandi linee tre categorie di intervento: le reti di fognatura, le canalizzazioni non fognarie e il tratto terminale del grande collettore bianco proveniente da Corso Venezia (direzione nord).

La realizzazione delle gallerie ferroviarie impone l'interruzione delle canalizzazioni trasversali e il rifacimento di quelle correnti in parallelo.
3TI PROGETTI has developed projects for environmental drainage, stormwater and sewerage design, acquiring important commissions for civil and industrial sewage systems, district water purification facilities and hydraulic infrastructures.

SERVICES

- Master Planning and Feasibility Studies
- Environmental Impact Studies
- Environmental Monitoring
- Water and Wastewater Infrastructure
- Sewerage
- Wastewater Treatment
- Water Transmission and Distribution
- Water Treatment and Desalination
- Water Design
- Integrated Water Resources Management
- Sanitation and Health
- Urban and Rural Supplies
- Rural Livelihoods and Irrigation
- Development Services
- River Basin Management
- Water Security
- Underground water management
- Potable water network
- Water Quality
- Water Resources Planning
- Coastal and River Defences
- Flood Management
- Desalination
- Development Services
- Due Diligence
- Concept and Detail Design
- Project and Construction Management
- Shop Drawings
- Works Supervision
- Operations and Maintenance
- Bill of Quantities and Cost Management
- Planning and Economics
SECTORS

Our staff is specialised in the design and planning of:

- River Hydraulics
- Maritime Hydraulics
- Land Systems
- Hydraulic Infrastructure
- Potable Water Works and Treatment Plants
- Civil and Industrial Sewerage and Waste Water Treatment Systems
- Land Reclamation and Irrigation

It is our experience that activities and projects in the water sector are diversifying and expanding. We provide our clients efficient and successful solutions to the development and delivery of water infrastructure projects. Our projects are backed by economic studies, cost-benefit analyses and assessments of environmental impact and hydraulic functionality using multi-criteria analyses suitable to each specific project.

3TI PROGETTI boasts a lengthy commitment to soil protection, water drainage, rectification, harnessing the potentials and safeguarding the conditions of the sites and territories in which it operates. We aim to create “space for water” by re-establishing the natural processes that characterise this resource and restoring its necessary equilibriums.
MAIN REFERENCES:

THE CUSTODIAN OF TWO HOLY MOSQUES KING ABDULLAH BIN ABDUL AZIZ FOR DEVELOPING THE SECURITY HEADQUARTERS – MOI – PHASE 2-C (KAP2/C), SAUDI ARABIA
completion: ongoing
client: ABV ROCK GROUP LTD.

NIZWA INDUSTRIAL ESTATE, OMAN
completion: ongoing
client: PEIE (PUBLIC ESTABLISHMENT FOR INDUSTRIAL ESTATES)

RUSAYL INDUSTRIAL ESTATE, OMAN
completion: ongoing
client: PEIE

RESTART SCAMPIA PROJECT, ITALY
completion: 2017
client: NAPLES MUNICIPALITY

“DIAMANTI PALACE” FERRARA, ITALY
completion: 2017 - ongoing
client: FERRARA MUNICIPALITY

UNIVERSITY CAMPUS EXPANSION “POLO DEI RIZZI” UDINE ITALY
completion: 2008 - 2017
client: UNIVERSITY OF UDINE

COMPLETION OF THE RAILWAY EXPANSION WORKS BETWEEN CORSO VITTORIO II AND CORSO GROSSETO, THE DORA RIPARIA RIVER UNDERPASS AND THE NEW PORTA SUSA HIGH SPEED STATION - TURIN, ITALY
completion: 2014
client: TURNER & TOWNSEND Ltd - RFI S.p.A

“FERRIERA SOCIAL HOUSING” COLLE VAL D’ELSA, ITALY
completion: 2016 - 2017
client: COLLE VAL D’ELSA MUNICIPALITY

REFURBISHING OF THE FORMER FLOUR MILL IN NURAGUS, ITALY
completion: 2016
client: REGION OF SARDINIA

NEW PARISH CHURCH CALLED “CHURCH OF THE HOLY FAMILY” IN THE DIOCESE OF MONTECASSINO, ITALY
completion: ongoing
client: DIOCESE OF CASSINO

“MOTHER EARTH KINDERGARDEN” BISCEGLIE, ITALY
completion: 2009 - 2016
client: MUNICIPALITY OF BISCEGLIE

CONSTRUCTION OF THE NEW LANDS COMMISSION HEADQUARTERS IN ACCRA, GHANA
completion: 2016
client: MINISTRY OF LANDS AND NATURAL RESOURCES GHANA

THE MUSEUM AND LABORATORY OF IDENTITY: “MULINO G.GALLISAI” - NUORO, ITALY
completion: 2014
client: REGION OF SARDINIA
Il progetto è stato redatto nell’ambito della gara per l’alienazione del complesso immobiliare dell’ex deposito ATAC in via della Lega Lombarda, vinta da Parsitalia srl. L’intervento ha visto 3TI ITALIA quale società di engineering multidisciplinare, al fianco dello studio Labics, che ha redatto il progetto architettonico.

Il progetto si è presentato all’obiettivo di realizzare una porzione di città integralmente e realmente sostenibile, ovvero capace di tutelare l’ambiente ed insieme il benessere psicosociale degli abitanti.

La massima efficacia energetica, la corretta gestione del ciclo delle acque, la riduzione delle emissioni inquinanti, l’eliminazione dei fattori di rischio per gli utenti, la qualità ambientale degli spazi interni, sono stati dunque punti di partenza del progetto architettonico ed energetico.

Misure bioclimatiche adottate:
- Utilizzo di fonti energetiche naturali e rinnovabili
- Risparmio energetico e fonti rinnovabili di energia
- Sistemi di accumulo, riutilizzazione delle acque meteoriche e di risparmio idrico
- Pavimentazioni, aree verdi, superfici ed aree libere del lotto

Il progetto del complesso incorpora pertanto alcune soluzioni particolarmente rivolte al risparmio energetico ed alla tutela ambientale.

Le facciate orientate a Sud degli edifici con destinazione d’uso ad uffici contengono laminate nel vetro i moduli regolari delle cellule, costituite da celle al silicio monocristallino, in modo da lasciare traspare la luce e rappresentare nel contempo un efficace sistema di ombreggiamento per gli ambienti.

Utilizzazione razionale ed efficiente delle fonti energetiche tradizionali

Nell’ambito del sistema di climatizzazione previsto per gli edifici con destinazione d’uso ad uffici, l’acqua calda e refrigerata viene prodotta con gruppi refrigeratori aventi la possibilità di funzionare a pompa di calore, con alimentazione da un sistema di emungimento di acqua di falda.

Sistemi solari passivi o a guadagno diretto

Tra i sistemi utilizzati nel presente progetto troviamo quello che viene abitualmente denominato “serra solare”, collocato all’interno della tipologia residenziale a torre prevista, tra i due costituenti l’organismo, correttamente esposta verso sud al fine di ottimizzare la captazione solare.

Facciata ventilata trasparente

Elemento caratterizzante è la facciata a doppio guscio che funge da cuscinetto climatico, indipendente dalla struttura portante, grazie alla quale l’afflusso di aria avviene attraverso un’ampia intercapedine di facciata, mentre ribalte di ventilazione regolabili nella zona dello zoccolo e in quella del soffito regolano la corrente di convezione verticale.
SERVICES

Our services include:

• Tender Preparation and Selection
• Master Planning and Feasibility Studies
• Environmental Impact Studies
• Environmental Monitoring
• Socioeconomic Impacts
• Surveys and Investigations
• Geological, Hydrogeological and Geotechnical Engineering
• Hydrology and Hydraulics
• Urban Landscaping
• Architectural Design
• Structural Design
• Concept and Detailed Design
• Design of Lighting Systems
• Design of Special Systems
• Design of Technological Systems
• Design of Renewable Energy Systems
• Design of Works of Urban Planning
• Security and Access Control Systems
• Energy Certification and Sustainability
• Fire Prevention Certificate and Fireproofing Design
• Bill of Quantities and Cost Management
• Shop Drawings
• Drafting of Safety Plans
• Operations Management
• Safety Coordination During Design
• Safety Coordination During Construction Testing
• Project and Construction Management
• Seismic Analysis and Statutory Compliance Design
• Works Supervision
• Financial Planning
• Value Engineering

The buildings in which we live, work and heal are vital to the fabric of society. They must not only embrace comfort and functionality, they should also enhance our way of life and wellbeing. 3TI PROGETTI is committed to achieving these aims.
SECTORS

Our staff is specialised in the design and planning of:

• Urban Requalification
• Headquarters
• Museums
• Cultural and Sports Centres
• Residencial Buildings
• Educational Buildings
• Hospitals and Healthcare Buildings
• Refurbishment and Retrofit Operations
• High-Rise Buildings
• Mechanical and Electrical Engineering
• Industrial Construction

3TI PROGETTI has positioned itself within the international market as a leading Italian architecture and engineering consultancy firm providing effective responses to the growing demand for integrated services. By investing in our organisational structure we are able to meet the ever-increasing expectations of the global market.

3TI PROGETTI has earned an outstanding reputation for its achievements in complex and large projects, above all for the public sector. The firm is renowned for its innovative approach to engineering, including the management of building performance to the sustainability of new and existing buildings.

www.3tiprogetti.it
MAIN REFERENCES:

REFURBISHMENT AND NEW CONSTRUCTION OF THE MANERBIO HOSPITAL, ITALY
completion: 2017
client: AZIENDA SOCIO SANITARIA TERRITORIALE DEL GARDA

NEW HOSPITAL IN LA SPEZIA, ITALY
completion: 2016
client: SERVIZIO SANITARIO NAZIONALE REGIONE LIGURIA. AZIENDA OSPEDALERIA LOCALE N.5 “SPEZZINO” - LA SPEZIA

MIDDLE EAST HOSPITAL & CARDIAC CENTER (MEHCC) IN RIYADH, SAUDI ARABIA
completion: 2016
client: PHILIPS

CONSTRUCTION OF 17 NEW HEALTH CARE UNITS, OMAN
completion: 2015
client: MINISTRY OF HEALTH OF SULTANATE OF OMAN

RESTORATION WORKS OF GARIBALDI CENTRO CATANIA HOSPITAL, ITALY
completion: 2015
client: NUROVI S.r.l.

HOSPITAL OF FERMO - MARCHE, ITALY
completion: 2013
client: PESSINA S.p.A.

PLAN FOR THE EXPANSION OF S. ANDREA HOSPITAL - ROME, ITALY
completion: 2013
client: PESSINA S.p.A.

UPMC RADIOTHERAPY CENTER AT THE SAN PIETRO FATEBENEFRATELLI HOSPITAL - ROME, ITALY
completion: 2013
client: UPMC

NEW EMERGENCY AND PATIENTS ACCEPTANCE DEPARTMENT AND NEW ENTRANCE OF THE SANTA MARIA ANNUNZIATA HOSPITAL - BAGNO A RIPOLI, ITALY
completion: 2012
client: C.M.B.

NEW REHABILITATION CENTER - APPIGNANO (MC), ITALY
completion: 2010
client: I.N.R.C.A.

RENOVATION OF THE FORMER CIVIL HOSPITAL AND CONSTRUCTION OF THE “CITTADELLA DELL’ACCOGLIENZA” (WELCOME CENTRE) - RIVA DEL GARDA, ITALY
completion: 2010
client: AZIENDA PUBBLICA DI SERVIZI ALLA PERSONA “CITTÀ DI RIVA”

GEMELLI HOSPITAL - ROME, ITALY
completion: 2010
client: POLICLINICO A.GEMELLI
PREMESSA

Tema della presente relazione è l'illustrazione del progetto definitivo dei lavori di alcune opere da realizzare all'interno del perimetro del presidio ospedaliero Santa Maria Annunziata (OSMA) di Ponte a Niccheri, Firenze.

Il progetto definitivo è stato realizzato all'interno della competizione per l'aggiudicazione dell'appalto integrato che comprenderà, progetto definitivo ed esecutivo e realizzazione delle opere in oggetto e discende dal progetto preliminare realizzato da Politecnica s.p.a. posto a base di gara.

Inoltre il progetto recepisce le indicazioni del progetto unitario presentato al Comune di Bagno a Ripoli e le risultanze della Conferenza dei Servizi che ha dato delle indicazioni prescrittive e vincolanti.

Vista generale dell'intervento

In sintesi il progetto è riassumibile in aree di intervento secondo il seguente schema:

- Op. 0 Bonifica Bellica
- Op. 1 Nuovo Centro Ingressi e Accoglienza
- Op. 2 Nuovo Dipartimento di Emergenza e Accettazione
- Op. 3 Ristrutturazione del reparto di Radiologia
- Op. 4 Demolizione e ricostruzione edificio magazzino ex edificio farmacia e nuove centrali frigorifere
- Op. 5 Ristrutturazione degli Ambulatori di Ortopedia
- Op. 6 Ricollocazione del Centro Prelievi
- Op. 7 Riorganizzazione della viabilità e completamento delle sistemazioni esterne ed aree di parcheggio

La struttura in progetto è stata progettata con un sistema di protezione solare e il contrasto tra l'interno e l'esterno della struttura. La grandezza degli spazi è stata studiata per garantire una corretta circolazione d'aria e luce naturale. Tutti gli spazi per le attività comuni degli ospiti della struttura si trovano al piano terra. Il grande atrio d'ingresso, organizzato con aree sistemate con piccoli salottini, presenta due pareti completamente vetrate che danno luce all'interno e mettono in collegamento diretto il piazzale d'accesso esterno con il cortile interno sul retro.

Il progetto prevede la realizzazione di due piani completamente interrati, destinati, quasi esclusivamente, ai locali tecnici e di deposito.

L'area di progetto è collocata sul versante a sud di una collina del territorio del Comune di Riano che presenta un discreta ripidità: infatti il dislivello tra il punto più basso del lotto edificabile e la sommità del poggio è di ben 30 metri, passando da una quota di + 50,0 a + 80,0 m. sul livello del mare. Per questo motivo si è stati costretti a pensare ad un edificio a mezza costa, realizzato, cioè, in gran parte sull'area risultante dallo scavo della collina, con due lati controterra rivolti sulle pareti dello scavo e due lati, costituiti dalle facciate principali, completamente aperti sulla vallata.

Molte delle modifiche apportate al layout preliminare dipendono dalla messa a norma antincendio e al corretto dimensionamento per rendere tutto il reparto accessibile dai portatori di handicap. Come nel progetto preliminare l'intervento prevede che fuori dall'area di intervento venga messa in opera una porta rei, nel considerare però i confini delle aree di intervento date dal progetto preliminare come delle invarianti si è previsto il solo costo di tale lavorazione (comprensivo di modifiche alle pavimentazioni, ai controsoffitti e all'impiantistica) ma non è stata riportata nelle tavole di progetto e va considerata come opzione facoltativa della committenza.
3TI provides specialised healthcare consultancy services, drawing on the experience gained working on a large number of hospitals, health centres and clinics. Our services for the private and public sector include new-build, extensions and refurbishments. Our clients include healthcare funding bodies, developers, operators and stakeholders.

**SERVICES**

- Feasibility Studies
- Analysis of the Health and Hospital Sector
- Environmental Impact Studies
- Environmental Monitoring
- Socioeconomic Impacts
- Surveys and Investigations
- Geological, Hydrogeological and Geotechnical Engineering
- Hydrology and hydraulics
- Architectural Design
- Structural Design
- Specialist Care Environments
- Lighting and Ventilation Systems
- Acoustics System
- Infection Control
- Design of Special Systems
- Design of Renewable Energy Systems
- Sustainable Design
- Energy Certification
- Hospital Security
- Fire Security
- Shop Drawings
- Safety Coordination During Design
- Safety Coordination During Construction
- Facility Management
- Bill of Quantities and Cost Management
- Life Cycle Costing
- Project and Construction Management
SECTORS

Our staff is specialised in the design and planning of:

- Hospital Design
- Nursing Homes
- Ambulatories
- Medical Centres
- Rehabilitation Centres
- Retirement Homes

Over the last few years, regulations governing the construction of healthcare facilities have undergone significant changes in terms of layout, safety, environmental comfort and quality. The hospital is now a service provider, characterised by a structure of departments open to the local territory. At the same time there has been an increase in the attention toward the quality of life of local populations and the safety of the workplace, and social environments. The development of regulations concerning quality and safety has elevated the attention toward the treatment and quality of space, accessibility and flexibility. The requirements of construction and function are integrated within the design of environments and structures that, assisted by engineering and technological innovations, render these structures more appropriate to their purpose and able to enhance the quality of life for patients and workers.

3TI PROGETTI's important portfolio of healthcare projects demonstrates its vast experience in the design and construction of healthcare facilities that translates into a smooth and exceptional experience for our clients.
MAIN REFERENCES:

SMART INDUSTRIAL PORT CITY (SIPC) AT KANDLA - GANDHIDHAM - ADIPUR COMPLEX, INDIA
completion: ongoing
client: KANDLA PORT TRUST

NATIONAL HIGHWAY 77 - DJENDJEN - EL EULMA, ALGERIA
completion: ongoing
client: EGIS INTERNATIONAL

MAIN GATE, STUDY & DESIGN, IN PORT OF SALALAH, OMAN
completion: ongoing
client: GOVERNMENT OF THE SULTANATE OF OMAN - MINISTRY OF TRANSPORT & COMMUNICATION

ITALIAN MOTORWAY NETWORK: DESIGN CHECK WITH REFERENCE TO THE SAFETY, ITALY
completion: ongoing
client: AUTO STRADE PER L'ITALIA S.p.A.

RAILWAY EXPANSION WORKS BETWEEN CORSO VITTORIO II AND CORSO GIUSEPPE D'ARCO, THE DORA RIPARIA RIVER UNDERPASS AND NEW PORTA SUSA HIGH-SPEED STATION - TURIN, ITALY
completion: ongoing
client: TURNER & TOWNSEND Ltd (1st phase)
RFI spa (2nd phase)

PEDEMONTANA LOMBARDA MOTORWAY: DALMINE-COMO-VARESE-GOLO-FOSSANO MOTORWAY LINKS AND RELATED WORKS (SECOND LOT), ITALY
completion: ongoing
client: NUOVÁ BRIANTEA SCARL

MASTER PLAN FOR ROME FIUMICINO "LEONARDO DA VINCI" INTERNATIONAL AIRPORT, ITALY
completion: 2012
client: URS (formerly SCOTT W ILSON Ltd)

CRAIOVA AIRPORT, ROMANIA
completion: 2017
client: AZVI S.A. on behalf of Craiova airport

oman rail project - segment 1 - epc contract, oman
completion: 2015
client: SALINI IMPREGIL S.P.A.

TULCEA INTERNATIONAL AIRPORT, ROMANIA
completion: 2015
client: S.C. SPECIALIST CONSULTING S.R.L.

UPMC RADIOTHERAPY CENTRE AT THE SAN PIETRO FATE-BENEFRETTI HOSPITAL - ROMA, ITALY
completion: 2013
client: UPMC

ENEL REAL ESTATE HOLDINGS: CONSERVATIVE RENOVATION AND MAINTENANCE INTERVENTIONS, ITALY
completion: 2012
client: ENEL s.p.A.
TECHNICAL ADVISORY SERVICES
SERVICES

Our Technical Advisory services include:

- Advice and Assistance on Local Building Code Compliance Issues
- Contract Interpretation
- Tender Preparation and Evaluation
- Team Alliance and Liaison
- Scheduling
- Management of Competences, Techniques and Responsibilities
- Environmental Management
- Risk Assessment
- Technical Due Diligence
- Project Planning
- Management of the Papers
- Operational Plan of the Design
- Status Inspection
- Inspection of Technical Documentation
- Building Services Condition Assessment
- Progress Reporting
- Design Control
- Preparation of Concept Estimate
- Financial Reporting
- Cash Flow Control
- Materials Ordering and Expediting
- Project Business Plan
- Detailed Executive Program
- Time Schedule
- Commission Operative Manuals
- Construction Supervision
- Construction Co-ordination
- Performance Monitoring
- Project and Construction Management
- Health and Safety Management
3TI has consolidated experience in the management of complex multi-disciplinary projects for residential and office buildings, retail and public spaces, the maintenance and rehabilitation of public and private real estate, the surveying and technical compliance of existing structures with applicable Health & Safety and fire prevention legislation and environmental regulations. The Group has also participated in numerous competitions and tenders developed in co-operation with renowned Italian and foreign architects.

To ensure the most effective management of complex projects involving design teams working in various offices, 3TI has developed its own document management system: the GDP system, an IT project management platform permits us to develop and coordinate design activities by uploading, controlling and downloading required documents.
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