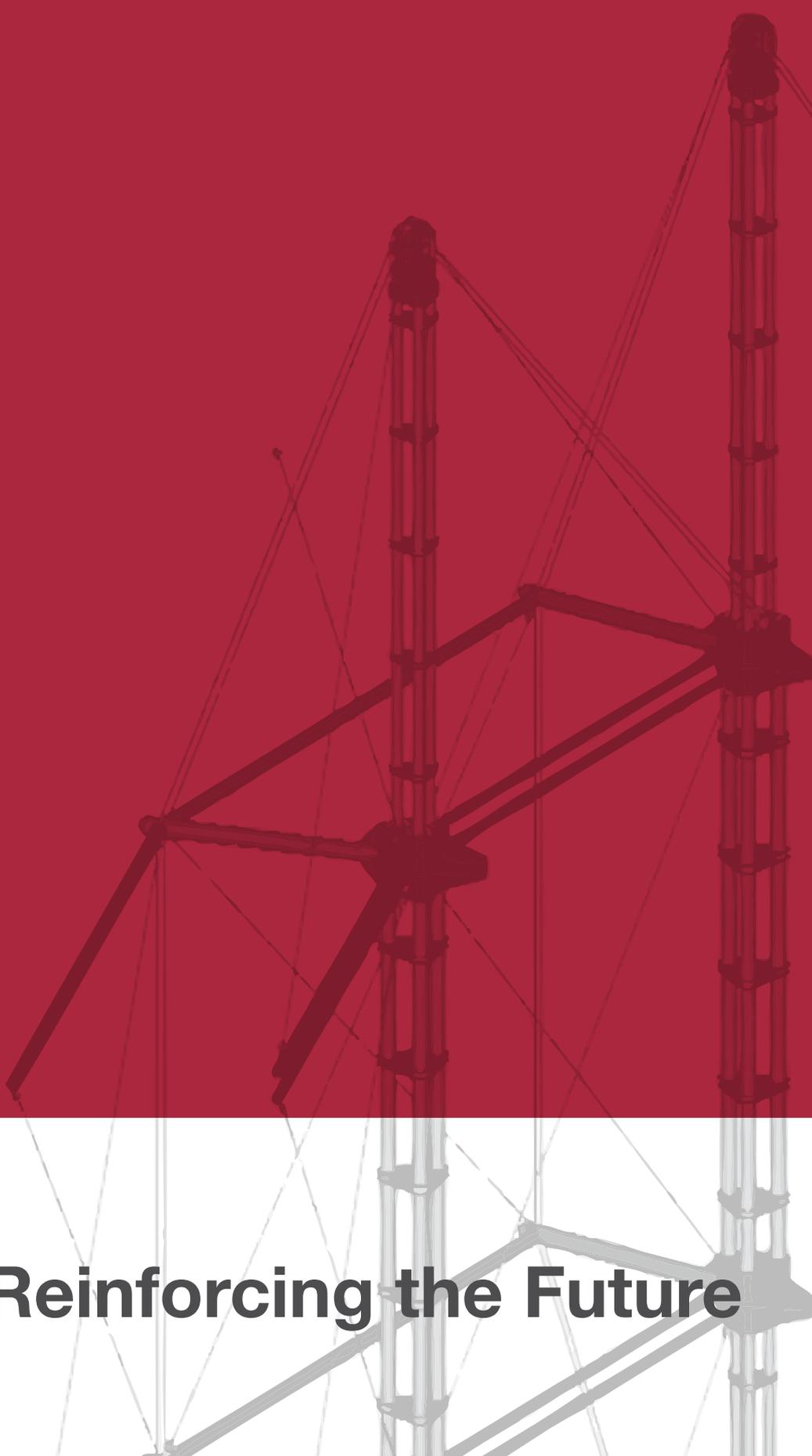


PROTA
ENGINEERING



Reinforcing the Future

EVER SINCE THE ESTABLISHMENT
OF PROTA IN 1985,
THE ACHIEVEMENT OF SCIENTIFIC EXCELLENCE IN
ENGINEERING
PRACTICE HAS BEEN OUR
NUMBER ONE GOAL

Building Design	12
High-Rise Buildings	14
Industrial & Energy	16
Earthquake and Seismology	18
Transportation	20
Aviation	22
BIM	24
Historical Structures	26
Planning	28
Project & Construction Management	30
Research & Development	32
Software Development	34



REINFORCING
THE FUTURE

Design and consultancy services in engineering require investigation, innovation, enrichment of knowledge, and effective, accurate, and economical implementation of scientific principles. It also requires an objective and unsparing attitude complying with the ethical norms of the profession.

Ever since the establishment of Prota on **25th of February 1985**, the achievement of scientific excellence in engineering practice has been our number one goal. The highly inventive solutions that distinguish Prota's services today have their roots in the pursuit of excellence that has become a company principle.

As societies evolve, their needs and demands evolve correspondingly. We believe that Prota's mission within this cycle is to foresee future needs and develop effective and reliable solutions. Hence our motto is: **"Reinforcing the Future"**.

This mission, of course, entails an innovative outlook at every step of the way. **We consider our most valuable resource to be our team.** In this respect, our fundamental goal is to train honest, inquisitive, and innovative team members who revere the past, and to advance in our journey within this team spirit.

It is for this reason that Prota employs a management policy that focuses not only on customer satisfaction but also on the professional development of its staff within an environment that adopts the **"Sincere at Relations, Responsive at Work"** spirit. Thus, continuous in-house training is an essential feature of the Prota tradition.

We believe that every project in Prota constitutes a case study, wherein recent scientific developments are explored, state-of-the-art technologies are reviewed, and consequentially, alternative solutions are developed so as to satisfy customer demands.

We believe that our 35 years of experience grants us with the hope and ability to continue hand-in-hand with our business and solution partners in our journey for **"Reinforcing the Future"**.



Danyal Kubin
General Manager



Jozef Kubin
Chairman of Board of Directors



FROM 1985 ONWARDS...

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Prota was founded in 1985 and only a few years, it became one of Turkey's leading engineering and consultancy firms with its specialized design approach and performance in a range of disciplines. Prota operates within a strictly technical institutional structure that comprises of engineers, architects, and technicians, as partners.

OUR BUSINESS PRINCIPLES

Being one of the pioneers in the Turkish engineering and consultancy sector, Prota employs business, and management policies and professional values that were developed along the way. Today, “Prota’s Principles” focus not only on customer satisfaction but also on the professional development of its staff within an environment that adopts the “Sincere at Relations, Responsive at Work” spirit.

Using its vision as a springboard, Prota aims to fulfill its social responsibility obligations by maintaining the motto, “Reinforcing the Future”.

Prota’s objectives have been to provide services that are effective in the consultancy sector on both national and international levels, that ensure high-level customer satisfaction, and that utilize the latest technologies.

As a FIDIC member, Prota is liable to follow business policies compliant with the FIDIC Code of Ethics.

As Prota, we hereby commit ourselves to:

- Improve our knowledge and skills by following technological and scientific developments,
- Focus on research, development, and renovation projects,
- Offer reliable and timely services,
- Meet the latest quality standards in our projects and working units,
- Strictly conform to in-house training policies at all levels,
- Maintain a managerial strategy that encourages innovation and integrity and extending team spirit in this direction,
- Ensure high-level customer satisfaction,
- Achieve customer dependency,
- Abide by national and local environmental policies and current environmental management standards in all of our activities.

Prota 33rd Year Symposium

“BIM and Beyond:
A Digital Transformation in the Construction Sector”



Prota 30th Year Symposium

“New Generation of Seismic Codes
and New Technologies in
Earthquake Engineering”



Prota 28th Year Symposium

“Seismic Isolation Methods
and Practices”



Our vision is to fulfill our social responsibility to reinforce the future by drawing from the past.

TEAM SPIRIT

In disciplines such as structural design, construction materials and construction methods, Prota plays an active role, and participates in several workgroups for the adaptation of Turkish Standards to European Union Norms.

Continuous in-house training is an essential feature of “Prota Principles”

A management policy encouraging innovation and integrity.

Precast Concrete, reinforced concrete, dumping, quantity survey, and hanging structures are only a few of the systems we perform.

Feasibility studies, bill of quantities, technical specifications, and consultancy services of all the designed and administered works are performed by Prota. For the designed facilities, Prota also provides construction quality management and supervision services as well.

Prota Engineers regularly follow the latest improvements and state-of-the-art developments to employ different innovative systems to achieve the most economical solutions along with the aesthetical overlook of its projects.



Prota Engineers and Architects have so far undertaken several different projects having total construction area over 30 million sq. meters around the globe.

PROTA SERVICES

Prota's success lies in its interdisciplinary nature that combines architecture, civil, structural, electrical, mechanical engineering, and landscaping design within its body, offering integrated solutions to its clients.

Design Phase

- Architectural BIM Design
- Engineering BIM Design (all disciplines)
- Damage Assessment and Survey Measurements
- Land Surveying
- Development of Techniques and Methodology
- Urban and Regional Planning
- Geological/Geotechnical Investigation and Design
- Research and Development Projects
- Feasibility Studies
- Technical Consultancy
- Preparation of Tender Documents and Specifications

Procurement Phase

- Eligibility Surveys and Investigation Studies
- Tendering Support and Technical Assistance
- Bid Evaluation and Contract Negotiations Support

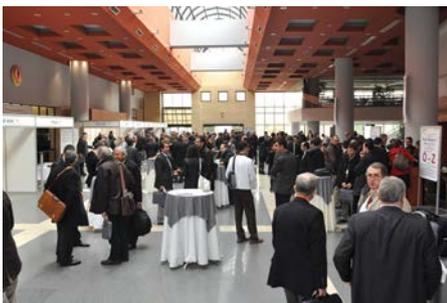
Construction Phase

- Project and Construction Management
- Construction Supervision and Technical Assistance

- Commissioning Assistance
- Operation Consultancy
- Consultancy Services for Acceptance Works

Disciplines

- Transportation Structures and Systems
- Above & Underground Rail and Road Structures
- Light and Heavy Industrial Buildings,
- High-rise Buildings,
- Warehouses,
- Underground and Earth Retaining Structures,
- Seismic Assessment and Retrofit Works
- Restoration
- Historical Structures
- Site Development
- Zoning
- Urban and Regional Planning
- Project & Construction Management
- Research and Development



BUILDING DESIGN

Business and shopping centers, residential buildings, housing complexes, and satellite cities, office buildings, educational buildings, healthcare facilities, transportation structures and stations, tourism facilities, industrial buildings, public buildings and more.

Since its foundation, Prota has been specializing in building design, and has undertaken thousands of structural designs and provided supervision and consultancy in several countries. Among these projects are business centers, shopping malls, residential buildings, housing complexes, and satellite cities, office buildings, educational buildings, healthcare facilities, transportation structures, and stations, industrial buildings, public buildings, sports fields and centers, recreation and social structures, and underground and above-ground parking facilities.

Prota's success lies in its interdisciplinary nature that combines architecture, civil, structural, electrical, mechanical engineering, and landscaping design within its body, which allows offering holistic solutions to the customers. Besides engineering and architectural services, Prota also provides initial and complementary services during the design stage, such as feasibility studies, cost and quantity estimations, and technical specifications preparations, and inspection and quality control services.

Prota design solutions aim to provide the most cost-effective answers by employing wide range of structural solutions

such as pre and post-tensioned precast concrete, in-situ concrete, masonry, steel, suspended structures, composite, and pre-stressed and post-tensioned reinforced concrete systems.

Prota engineers, following the latest developments in their fields, are well equipped to propose the latest innovative system models to produce solutions that are economically and aesthetically pleasing.

For structural design, along with the domestic codes, Prota engineers are capable of employing several major international codes of practices such as the US and EN codes.

In addition to building design, engineering and consultancy services, Prota concentrates on research and development and has been developing new techniques and methods in its field of activities and developing related software to automate the analysis and design phases.

Prota also takes an active part in the adaptation of Turkish standards and codes to EU norms, in particular regarding building design, construction materials and construction methods.

- High Speed Train Station
Ankara
- Istanbul University Capa and Cerrahpasa Campuses
Istanbul
- Istanbul Medeniyet University
Istanbul
- Pamukkale University Faculty of Architecture
Denizli
- Skopje Mixed Used Superstructure Project
Skopje, Macedonia
- METU Technology Museum
Ankara
- Erzurum Healthcare Campus
Erzurum
- Papua New Guinea US Embassy Compound
Papua New Guinea
- Erzincan State Hospital
Erzincan
- Manisa Merkezefendi State Hospital
Manisa
- Edirne Kesan State Hospital
Edirne
- Malatya State Hospital
Malatya
- Antalya Muratpasa Research and Training Hospital
Antalya
- Canakkale Biga State Hospital
Canakkale



- Diyarbakir Silvan State Hospital
Diyarbakir
- Mugla Milas State Hospital
Mugla
- Tokat Erbaa State Hospital
Tokat
- Tokat Turhal State Hospital
Tokat
- Kahramanmaraş Elbistan State Hospital
Kahramanmaraş
- Diyarbakir Football Stadium
Diyarbakir
- 100. Yil University Campus
Van

- CerModern Museum
Ankara
- Genclerbirligi Training and Sports Facilities
Ankara
- Presidential Symphony Orchestra Concert Hall (CSO)
Ankara
- Bursa, Mersin, Balikesir, Kayseri and Bolu Revenue Office Buildings
- Social Security Institution Building
Ankara
- The Ministry of Foreign Affairs Additional Building
Moscow, Russian Federation

- Afghanistan NSPA - NATO Role-I
Afghanistan
- MEGA Belaya Dacha Shopping Mall
Moscow, Russian Federation
- KYUM Shopping Mall
Perm, Russian Federation
- MEGA Shopping Mall
Saratov, Russian Federation
- OZ Shopping Mall
Perm, Russian Federation
- MEGA Shopping Mall
St. Petersburg, Russian Federation
- Regions Shopping Mall
St. Petersburg, Russian Federation

HIGH RISE BUILDINGS

Reinforced concrete, steel, composite and pre and post tensioned R/C systems.

One of the most essential expertises of Prota is a high rise building design. With its expert team of engineers and the broad range of in-house developments and purchased engineering software in its comprehensive library, Prota has carried out a significant number of high rise building designs worldwide.

Prota's services regarding high rise buildings have generally focused on system selection consultancy and structural engineering design. In almost every project, Prota provides, feasibility studies, cost and quantity estimations, technical specifications, and procurement consultancy services. On some occasions, Prota provides the construction quality management and supervision services during construction of the designed facilities.

Prota engineers keep abreast of the literature and latest developments in their fields, and are thus able to propose innovative system models to produce solutions that are economical and aesthetically pleasing. Prota has established its expertise by using "Top-down

methodology", in which steel and cast-in-place piles are used as columns, and the structure is constructed from top to bottom, in cases where the buildings are located in dense settlement areas and on relatively poor soil conditions. The method has proven to be a cost-effective way to achieve safety for the neighboring buildings during construction.

Prota's expertise in earthquake engineering certainly contributes to produce structurally safe and high-quality designs. During the analysis of high-rise buildings, more economical and realistic designs can be obtained by utilizing time and frequency domain linear and nonlinear analysis methods that take into account the effects of secondary modes of vibration.

In addition to building design services, Prota prioritizes research and development, and has been developing new techniques and methods in its field of activities at the METU Technology Development Center R&D office.

■ Incek Loft
Ankara

■ Altinoran Residence
Ankara

■ Altinkoza Residence
Ankara

■ Ege Plaza
Ankara

■ Green Plaza
Perm, Russian Federation

■ Park Gorkogo
Kiev, Ukraine

■ Eston Business Towers
Istanbul

■ Allsancak Residence
Izmir

■ Narodnaya Residential Complex
St. Petersburg, Russian Federation

■ Koza Kanyon
Ankara

■ Glotur Residential and Commercial Buildings
Almaty, Kazakhstan

■ Revenue Office Building
Mersin

■ Portakal Cicegi Residential Tower
Ankara

■ Balem Commercial Center
Bursa

■ Leninsky Prospect
Moscow, Russian Federation

■ Belyaeva, Yugo Zapadny and Gubkina Residential Complexes
Moscow, Russian Federation



INDUSTRIAL & ENERGY

A systematic design approach integrating theoretical and practical engineering knowledge within the process.

Generally, the client's requirements are based on efficiency, economy, and close compliance to the production processes. These requirements, as a matter of fact, makes the industrial facility designs rather complicated.

With regard to industrial buildings, Prota adopts a systematic approach that integrates theoretical and practical engineering knowledge, and employs a method that analyses different types of structural systems together with its essential subsystems. The centralized procedure we employ in the design of industrial facilities is to develop integrated solutions that perceive the complicating factors which influence structural stability, security, and serviceability.

Prota Engineering has been following this approach to design numerous industrial facilities in a wide range of business sectors in the last 35 years. The facilities that Prota have designed and engineered include power plants, combined-cycle natural gas and coal plants, cement factories, gypsum and drywall production facilities, mining and crushing/sieving plants, steel profile factories, heavy and light concrete prefabricated production facilities, electrical element factories, juice and concentrated juice factories, cold storages and meat processing units, packaging facilities, flour and pasta factories, transformer and en-

ergy structures, and large warehouses.

In addition to the process design, Prota also carries out the architectural, structural, mechanical, and electrical, infrastructural, and landscaping designs of a facility. In addition to architectural and engineering services, consultancy services for system-mechanics-equipment selection are also undertaken by Prota. For almost all the projects designed and managed, feasibility studies, cost and quantity estimations, technical specifications, and procurement consultancy services are provided by Prota. In some cases, Prota provides construction quality management and supervision services during the construction of the designed facilities.

To provide the most cost-effective architectural solutions that achieve the highest process efficiency, Prota employs many of the structural system solutions available for industrial structures such as prefabricated concrete, reinforced concrete, steel, cabled suspended structures, composite, pre-stressed, and post-tensioned reinforced concrete systems.

Prota utilizes Turkish, the US, and EN codes, as well as the local codes of other countries in the design process of industrial structures.

■ Turkmenistan Glass Factory
Turkmenistan

■ Solar Panel Plant
Ankara

■ Waste-to-Energy Facility
Istanbul

■ Mardin Mazidagi Facilities
Mardin

■ Turkcell Data Centers
Ankara, Izmir

■ Capacity Expansion Projects of Limak Cement Plants.
Sanliurfa, Gaziantep, Tekirdag, Balikesir, Ankara

■ Samsun Tekkekoy Combined Cycle Power Plant
Samsun

■ Kirikkale Independent Combined Cycle Power Plant
Kirikkale

■ Eti Aluminium Seydisehir Facilities
Konya

■ Tufanbeyli Thermal Power Plant
Adana

■ Rehau PVC Plant
Moscow, Russian Federation



■ Nuh Cement Power Plant
Izmit

■ Limkon Fruit Juice Concentration Plant
Adana

■ Knauf Gypsum and Gypsum Board Plant
Izmit

■ Eti Aluminium Seydisehir Lignite Coal
Combined Cycle Plant
Konya

■ Iston Prefabricated Concrete Structure
Elements Plant
Istanbul

■ Knauf Gypsum and Gypsum Board Plant
Ankara

■ Madinsan Plaster Mine Plant
Ankara

■ Uno Flour & Flour Products Plant
Bergen Op Zoom/ Netherlands

■ Prefi Prefabricated Manufacturing Plant
Ankara

■ Baku-Ceyhan Oil Pipeline Station
Buildings
Turkey

■ MAN Truck and Bus Factory Design
Ankara

■ Farcan Combined Cycle Power Plant
Kirikkale

■ Eti Aluminium Seydisehir Facilities
Konya

■ Eti Bakir Mazıdağı Facilities
Mardin

■ Gypsum Crushing & Screening Plant
Ankara

■ Building of Tuprag Kisladag Mechanic
Atalier
Kisladag

■ Socar Star Refinery
Izmir

■ Roketsan Tapa Facility
Ankara

EARTHQUAKE & SEISMOLOGY

Testing the seismic safety of structures, renovation and retrofitting of damaged buildings and the finite elements software development studies for structural engineering disciplines

Being the first engineering company in Turkey to have a special focus on earthquake engineering, Prota has made it one of its major disciplines. Specific fields of expertise are the retrofit design of buildings and large structures, seismic capacity assessment of structures, repair and strengthening of damaged buildings, and software development for structural finite element analysis, design, and detailing.

Prota has been involved in several projects funded by the World Bank, European Investment Bank, European Commission, and EuropeAid, as well as in seismic risk mitigation projects funded by some Turkish ministries including Ministry of Public Works and Settlement, Ministry of Education, Ministry of Culture, Ministry of Health, Ministry of Defence, and Ministry of Interior.

Prota has performed post-earthquake field inspections, damage assessments, retrofit designs, and numerous renovation projects after the several tragic earthquakes which took place in Turkey such as the 1992 Erzincan, 1995 Dinar, 1998 Adana/Ceyhan, 1999 Marmara, 2002 Sultandagi, and the 2003 Bingol, 2011 Simav and 2011 Van earthquakes. Prota has so far completed earthquake risk mitigation projects situated on a total of about 15 million square meters of construction area.

Prota has been directly involved in the formation of the Turkish Draft Code for "Buildings to be constructed under the Earthquake Zones" as well.

Besides the cooperative research ventures with academic institutions such as Gazi University, Istanbul Technical University, Yıldız Technical University, Cukurova University and Middle East Technical University, Prota conducts and sponsors substantial numbers of feasibility and research studies, develops methodologies, standards, techniques, and specifications, and provides contract management and retrofitting construction supervision services in this field of expertise.

Furthermore, Prota has an office in Middle East Technical University (METU) Technology Development Center for research and development purposes in the areas of seismic risk and civil engineering since 2002.

Every two years, Prota organizes symposiums on earthquake and seismology engineering. Several worldwide well-known experts and academicians contribute to these symposiums as speakers to share their expertise with academicians, managers and members of selected public and private institutions and universities of Turkey.

- Seismic Assessment and Retrofitting of the Residential Buildings in Afyon and Adana, Following the 1998 Earthquake
- Retrofitting of TUPRAS Petroleum Refinery Buildings in Kocaeli, Following the 1999 Marmara Earthquake
- Seismic Assessment and Retrofitting of Bastas and Kurtalan Cement Factories
- Retrofitting Design of Headquarters and Branch Office Buildings of Turk Telekom *Istanbul*
- Seismic Assessment, Performance Analysis, Retrofitting Design of School Buildings in Different Cities
- Seismic Assessment, Performance Analysis, Retrofitting Design of Sopali Hospital *Kocaeli*
- Consultancy Services for the Feasibility Studies and Retrofitting of the Selected Residential Buildings *Istanbul*



- Retrofitting of Turkish Electricity Authority Buildings Following the 1999 Marmara Earthquake
- Seismic Risk Evaluation, Performance Analysis and Retrofitting Design Service Buildings of Educational Institutions in 25 Cities – Ministry of Education 1st, 2nd and 7th Group General Education Project.
- Seismic Risk Assessment and Retrofitting Design of Radisson Hotel *Tripoli, Libya*
- Seismic Assessment of Denmark Embassy Building *Tehran, Iran*
- Seismic Performance Assessment and Retrofitting Design of Baku Airport Buildings *Baku, Azerbaijan*
- Seismic Vulnerability Analysis and Retrofitting Design of Is Bank's Branch Offices
- Seismic Performance Assessment and Retrofitting Design For the Seka Paper Museum and Science Center *Izmit*
- Seismic Risk Assessment of Selected Historical Buildings *Izmit*
- Consultancy Services and Retrofitting Designs of Public Buildings in Istanbul (CB1.3D and CB1.3, EIB-CB1.3 and ISBD-CB.3 Contract Packages)
- Seismic Performance Assessment and Retrofitting Design for the Antalya Regional Unit Buildings of Ministry of Transportation, Maritime Affairs and Communication
- Consultancy Services and Retrofitting Design of Public Buildings in Istanbul
- Seismic Assessment of 477 Residential Buildings *Izmit*

TRANSPORTATION

Holistic solutions in trackway design, metro and transportation structures' architecture, telecommunication systems, and geotechnical, traction power, electrical and mechanical design.

Prota has enriched its worldwide building design capacity by successes in the design of transportation structures. Among these structures that Prota has designed in both domestic and international markets so far are bus terminals, metro and rail systems, underground and above-ground stations, airport terminals, parking lots, improved facilities for passengers and, many others can be mentioned.

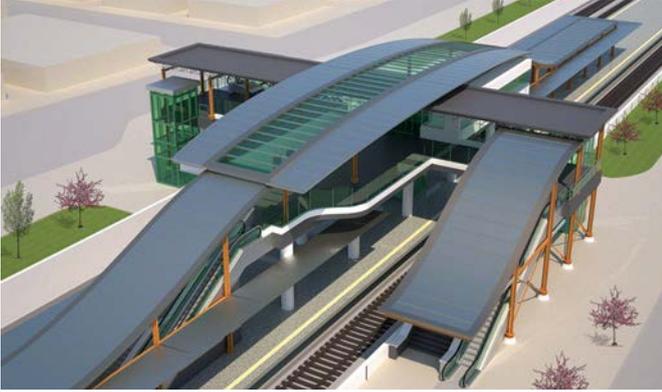
Being restructured to offer integrated solutions to its clients in the transportation sector, Prota has now reached a high-level design capacity focusing on basic disciplines of transportation engineering: Track work design, architectural, telecommunication systems, traction power engineering, geotechnical, electromechanics, electrical and mechanical engineering design of transportation structures.

Owing to its continuous research and development activities, Prota has undersigned innovative geotechnical solutions for underground transportation structures. Prota engineers, who keep abreast of the literature and latest developments in their fields, and are well equipped to propose innovative system models in order to produce solutions that are economical and aesthetically pleasing.

Prota, in this context, offers a wide range of design services in the transportation sector: alignment surveying, profile planning, curb and speed limit calculations, drainage system design, displacement design, railway superstructure design, switch system design, access roads for tunnels, underground and above ground station architecture, structural, electrical, electro-mechanical, and mechanical engineering for metro structures, retaining wall and bracing designs, geotechnical monitoring/ design, diaphragm wall, hydraulic design, fire protection – fire fighting system designs, fire simulation analysis, environmental control systems, acoustics and emergency ventilation system designs, low voltage, lighting and telecommunication system designs, energy supply and traction power designs, catenary system designs, preparation of feasibility and traffic surveys and final and detail design studies.

In addition to the above design services, Prota provides comprehensive consulting services in construction planning, developing method statements, design quality checking, peer reviews, seismic assessment, retrofitting design, and construction supervision of transportation structures.

- Kadikoy – Kartal Metro Line
Istanbul
- Uskudar – Cekmekoy Metro Line
Istanbul
- Kabatas – Mecidiyekoy – Mahmutbey Metro Line
Istanbul
- Atakoy – Ikitelli Metro Line
Istanbul
- Kadikoy – Sultanbeyli Metro Line
Istanbul
- Kadikoy – Bahcelievler – Kirazli Metro Line
Istanbul
- Warsaw Metro Line II
Warsaw, Poland
- Urban Square – Main Terminal (T2 Line) Light Rail System
Bursa
- Marmaray, Gebze – Halkali Commuter Railway CR3 Contract
Istanbul
- Mersin Metro Line I
Mersin
- Ucyol – Dokuz Eylul Uni. – Buca Koop. Light Rail Metro Line
Izmir
- F. Altay – Narlidere Light Rail Metro Line
Izmir
- Izmir Halkapinar Light Rail System Underground Storage Facility
Izmir
- Gebze – Darica Metro Line
Kocaeli
- Dubai Route 2020 Metro Rail
Dubai, United Arab Emirates



AVIATION

Prota has worked with a range of clients to deliver innovative and strategic solutions for all types of aviation projects including passenger terminals, international airports, cargo centers as well as airport maintenance and repair facilities.

With its experience and skilled resources, Prota provides a wide range of services in the aviation sector from planning and project delivery&control through design, design quality check, construction planning, and supervision. Besides the design stated above, Prota provides a comprehensive consulting services in construction planning, developing method statements, design quality checking, peer reviews, seismic assessment, retrofitting design and construction supervision of aviation projects.

With its continuous research and development activities, Prota has undersigned innovative geotechnical solutions for the aviation industry. Prota engineers, who keep abreast of the literature and the latest developments in their fields, are well equipped to propose innovative system models in order to produce solutions that are economical and aesthetically pleasing.

Prota design solutions aim to provide the most cost-effective answers by employing a wide range of structural solutions such as

pre and post-tensioned precast concrete, in-situ concrete, masonry, steel, suspended structures, composite, and pre-stressed and post-tensioned reinforced concrete systems. Following the latest developments in their fields, Prota engineers and architects are well equipped to propose the latest innovative system models in order to produce solutions that are economically and aesthetically pleasing.

For structural design, along with the domestic codes, Prota engineers are capable of employing several major international codes of practices such as the US and EN codes. In addition to building design, engineering and consultancy services, Prota concentrates on research and development, and has been developing new techniques and methods in its field of activities and developing related software to automate the analysis and design phases. Prota also takes an active part in the adaptation of Turkish standards and codes to EU norms, in particular remove to building design, construction materials, and construction methods.

- Istanbul New Airport Passenger Terminal Building
Istanbul
- Istanbul Sabiha Gokcen International Airport
Istanbul
- Istanbul New Airport THY MRO Facilities
Istanbul
- St. Petersburg Pulkovo Airport
St. Petersburg, Russian Federation
- Pristina International Airport
Pristina, Kosova
- Cairo International Airport Terminal Building
Cairo, Egypt
- Baku Haydar Aliyev International Airport
Baku, Azerbaijan
- Izmir Adnan Menderes Airport
Izmir



BIM

Prota is the first Turkish design company implementing BIM in a metro rail project.

By using 3D BIM models, the flow of physically information and intelligent data from conceptual design down to construction and facilities management is helping architects, engineers, contractors, and owners realize their projects more efficiently, more economically, and with increased profitability than ever before.

At its heart, BIM is a digital representation of both the physical and functional characteristics of buildings and infrastructure.

BIM is Transforming the Design Process.

BIM helps facilitate designing, visualizing, simulating and analyzing. It helps to detect clashes before construction, planning during construction, more accurate quantity take-off and cost estimation. It provides improved coordination with architects, engineers, and other project participants resulting in fewer errors, less waste, time savings, and project cost savings. All driven from the one model.

At Prota, we have fully incorporated BIM into how we operate to help our clients and our teams deliver world-class projects faster, and smarter.

BIM In Prota

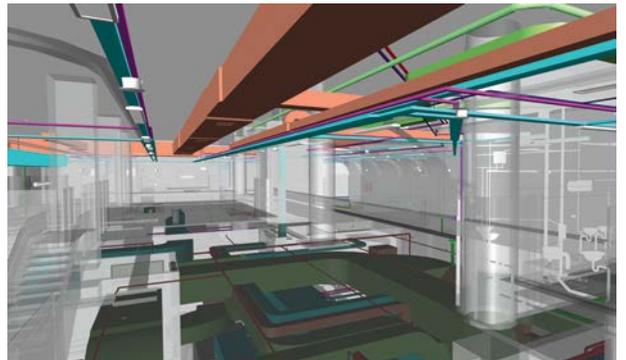
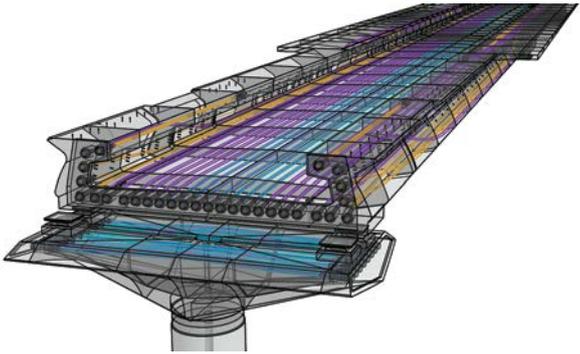
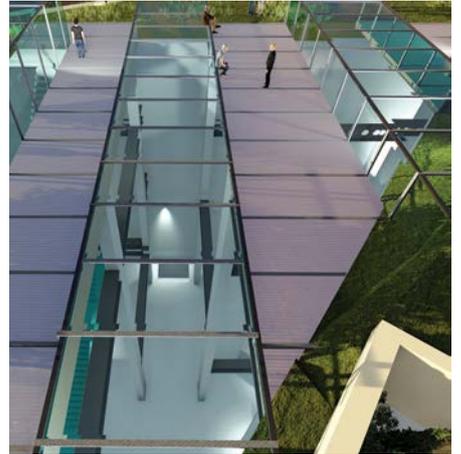
One of Prota's core principle is to follow the latest technologies and innovative developments in the industry. Prota is the first Turkish design company implementing BIM in a metro rail project. Projects prepared by Prota on a BIM platform were nominated to the finals of Global AEC Excellence Awards two times. In addition to this, Prota is the nominee of "Innovator of the Year" 2019.

The main goal of the Prota BIM Team is to make significant contributions to the construction sector by using innovative approaches, and the latest innovations.

The Prota BIM Team

PROTA BIM Team draws from an experienced team of engineers, architects, planners, project managers, and BIM specialists. Prota BIM Teams' keys to success steams from everyone working together in a collaborative environment where exploring, and harnessing technology is not just encouraged; it's how we deliver value.

- Istanbul New Airport THY MRO Facilities
Istanbul
- Papua New Guinea US Embassy Compound
Papua New Guinea
- Dubai Route 2020 Metro Rail
Dubai, United Arab Emirates
- Turkcell Izmir Data Centers
Izmir
- Afghanistan NSPA - NATO Role-I
Afghanistan
- Istanbul University Capa and Cerrahpasa Campuses
Istanbul
- Istanbul Kabatas – Mahmutbey Metro Line
Istanbul
- Istanbul Kadikoy – Sultanbeyli Metro Line
Istanbul
- Istanbul Atakoy – Ikitelli Metro Line
Istanbul
- Istanbul Rumeli Hisarustu – Asiyan Funicular Railway
Istanbul
- Kocaeli Gebze – Darica Metro Line
Kocaeli
- Mersin Light Rail System
Mersin
- Kemerburgaz Waste-to-Enrgy Facility
Istanbul
- Izmir Light Rail System Between F.Altay – Narlidere
Izmir
- Izmir Light Rail System Between 9. Eylul University – Ucyol
Izmir
- ISKI Pasakoy Waste Water Treatment Facility
Istanbul



HISTORICAL STRUCTURES

Prota has been working on survey, restitution, restoration, and rehabilitation of historic buildings belong to a wide range of historical periods: Hellenistic, Roman, Ottoman, and Republican periods.

Home to countless civilizations for centuries, Anatolia has presented us with a substantial basis to strengthen our historical field of expertise. For many years Prota has been one of the prominent engineering firms consulted by the Ministry of Culture regarding survey, restitution, restoration, and rehabilitation of historical buildings.

With its broad range of experience and knowledge in rehabilitation and strengthening of historical structures, Prota not only provides design services but also constitutes a "source of reference" for those who are interested in the field. Prota owes the privilege of resolving issues of importance regarding historical structures to its incessant abilities and efforts for research and development activities.

Prota engineers and architects have attended numerous symposiums and conferences and presented papers regarding conservation, certification, and seismic rehabilitation of historical assets. In addition to research studies conducted in collaboration with universities on methodology development for assessment and certification of historical assets, Prota has developed various three-dimensional structural analysis methods to strengthen these assets as earthquake resistant.

Within this context, structural analyses and seismic rehabilitation designs of many historical assets constructed by masonry, stone wall bearing, timber, cast iron, and adobe systems have been carried out. Among the historical and cultural assets that Prota has worked on so far are stadiums, theatre buildings, hammams, caravanserais, castles, mosques, mausoleums, churches, ateliers, city entrance structures.

Prota has undertaken many earthquake performance assessment projects concerning historical structures. One particular example is the unique approach developed, as a first in the industry, for the Istanbul Fatih District Historical Building Stock for the assessment of more than two hundred buildings; the comparison with the sophisticated analyses has verified the reliability of the simplified procedures developed by Prota. The procedure should be construed as first-tier analysis method for a rapid survey of historic buildings. Its accuracy is similar to that of methods developed for buildings. In many cases, the estimates for the gross shear stresses in the walls agreed well with the average stresses in those walls derived from the next tier of analyses.

- Yivli Minaret Mosque Strengthening and Restoration Project
Antalya
- Hellenistic Towers Strengthening and Restoration Project
Perge, Antalya
- Myra Antique Theatre Strengthening and Restoration Project
Kale, Antalya
- Seismic Assessment and Performance Analysis for Historical Buildings in Fatih District
Istanbul
- Stadium Restoration, Strengthening and Detailing Project
Perge, Antalya
- Magnesia Roman Wall Structural Strengthening Project
Aydin
- Sofular Quarter Strengthening and Restoration Project
Tarsus, Mersin
- Cotton Gin Plant Structural Strengthening Project
Tarsus, Mersin
- Roman Path Rehabilitation Project
Side, Antalya
- Port Bath Rehabilitation Project
Side, Antalya
- Big Roman Bath Rehabilitation Project
Side, Antalya
- Vocational High School Restoration Project
Corum
- Usakizade Cultural Center Rehabilitation Project
Izmir
- Harbiye Military Museum Restoration and Strengthening Project
Istanbul
- Cer Modern Museum Strengthening Project
Ankara



PLANNING

Urban planning, building code enforcement, urban design projects.

Alongside research and development studies on structural design and earthquake engineering, Prota also offers planning services, such as urban and rural planning, hazard risk mitigation, and urban regeneration, and undertakes urban design works either as part of research and development studies or for urban code development in the country.

Regarding urban planning services, Prota is proud to conduct studies that produce feasible solutions to Turkey's planning issues based on comprehensive analyses and evaluations and taking into account the latest international methods and approaches.

Urban design studies include planning, architecture, and a range of engineering disciplines. Prota, in this sense, adopts an approach which takes into account the urban effect, and contributes to various urban design projects, either directly or indirectly.

Following the 1999 Marmara Earthquake, Prota has conducted a number of research and development projects, such as "Integration of Earth Science Data to Spatial Planning", "Development of Planning and Urban Design Standards in Disaster Risk Areas", "Building Code Enforcement Analysis", "Prioritization Process of Public Buildings in Cities That Have Seismic Risks" and "Capacity Development Training for Promotion

of Kabul Metropolitan Area Development". These projects were undertaken in collaboration with a team of experts, academicians, and public authorities belonging to architecture, planning, and engineering disciplines. The World Bank funded some of them.

Within the scope of such projects, action plans and guiding manuals have been prepared for the use of local and central public institutions, and proposal drafts have been suggested for the development of new legislations.



Promim Landscaping, Urban Design and Computer Services Ltd. was founded in 1995. The founder, urban planner Can Kubin, MPI is now the Managing Director of the company. Ever since its foundation, Promim has successfully completed hundreds of landscaping designs, urban designs, and renewal and urban regeneration projects in various cities. Moreover, Promim designers have been awarded a number of prizes in national and international competitions.

- Design and Urban Planning Project of Porsuk Stream, Sicaksular and old Couch Station Region
Eskisehir
- Armada Shopping Mall Environmental Planning Project
Ankara
- MESA (TOBB) Hospital Environmental Planning Project
Ankara

- Akay Square Urban Design Project
Ankara
- Mudanya Shore Line and Urban Design Project
Bursa
- Urban Planning Project for Temelli Yeni Hisar
Ankara
- Urban Design Project for Lara City Park
Antalya



■ Urban Design Project for Bahcesehir T2 Commercial and Residential Center
Istanbul

■ Urban Design Project for Nilufer Creek
Bursa

■ Urban Design Project for Izmir Street
Ankara

■ METU Campus Project
Guzelyurt, Turkish Republic of Northern Cyprus

■ Urban Planning Project for Cayyolu Domicile Area
Ankara

■ Landscaping Project for Cumhuriyet Square
Mersin

■ Urban Renewal Planning Project of Sinan Pasha and Fatih quarter
Adana

■ Planning Studies of St. Petersburg Forum Master
Russian Federation

■ Girne Shore Line Urban Planning Project
Northern Cyprus

PROJECT & CONSTRUCTION MANAGEMENT

Experienced work groups in the fields of architecture, civil, environmental, mechanical, electrical, and process engineering.

Prota has so far provided design services for thousands of structures nationally and internationally and has offered construction and technical supervision services to many of these structures.

Prota considers supervision services as a high-level project management endeavour and thus provides total engineering and consultancy services that belong to a job-specific-model framework that brings together the requisites of a professional project management approach and the customer's specific needs.

The independent consultancy services provided by Prota are project planning, cost and time control, quality assurance, quality control, contract management, and specific technical expertise in architectural, civil, structural, electrical, and mechanical engineering.

Prota considers all clients as a partner, and therefore greatly values communication and information exchange with them. Prota's primary goal here is to protect the rights and interests of its clients, and to provide outcomes that will satisfy their expectations with regard to time, quality, and money. In this sense, Prota does not only offer guidance but also suggests a variety of alternatives and possible added values to its customers.

The project management and supervision teams of Prota comprise of experts from different fields: architects, civil, environmental, mechanical, and electrical, and process engineers, and planning experts.

Our consulting services include pre-bidding services like the preparation of tender documents and technical specifications, bidding services like the evaluation of tender proposals, and post-bidding services like contract management, construction supervision, and quality management and finally, lead to either commissioning or final acceptance.

Prota is a member of the International Federation of Consulting Engineers (FIDIC), the European Federation of Engineering Consultancy Associations (EFCA), the Association of Turkish Consulting Engineers, and Architects (ATCEA) and the Federation of Consultants from Islamic Countries (FCIC). Prota is liable to follow the FIDIC contracts and provisions, and national and international construction standards and codes in its management and supervision activities.

During project management and supervision, Prota pays special heed to the production of sustainable solutions, environmental protection principles, human rights and workers' rights, and counter corruption.

- Construction Supervision for the Maintenance Buildings of Koluman-Mercedes Benz
Ankara, Mersin
- Consultancy Services for the Dormitories of Hacettepe University
Ankara
- Consultancy Services for Limkon Concentrated Juice Plant
Adana
- Construction Supervision for Sabiha Gokcen International Airport
Istanbul
- Construction Supervision for Knauf Gypsum Board and Structure Chemicals Plant
Izmit
- Construction Supervision for Madinsan Gypsum Plant
Ankara
- MAN Truck and Bus Factory Extension Project
Ankara
- Urban Development Project for Eskisehir Municipality-Project Management Services



- Ministry of National Education, Construction Supervision Services for Retrofitting of 53 School Buildings in 7 Cities in Turkey
- Seismic Risk Evaluation, Performance Analysis and Retrofitting Design for the Service

- Istanbul Project Coordination Unit - Construction Supervision for Selected Public Buildings in Istanbul
- High Speed Train Station Project Management Services *Ankara*

- Supervision of Retrofitting Works of the Campus Buildings in Van 100. Yil University *Van*
- Retrofitting Supervision and Consultancy Services for the Istanbul Governor's Office Buildings *Istanbul*

R&D STUDIES

As part of its traditional approach for innovation, Prota has developed and contributed to many research and development activities and studies since its establishment.

Prota's business principles are built on the notion of promoting innovation. Therefore, Prota considers each project as a case study in research and development.

Based on this principle, Prota has conducted several research and development projects voluntary. For this purpose, Prota has been improving its R&D office in METU Technology Development Center by developing new techniques, methods, and software.

In addition to the research projects in planning issues, plenty of feasibility and research studies, development of methodologies, standards, techniques in disaster risk mitigation field have been conducted and implemented: Some examples are, Feasibility Studies for Retrofitting of 369 Residential Buildings in Istanbul, Social and Economic Impact Assessment for Retrofitting of Residential Buildings, Development of Rapid Assessment Method and Forms for Earthquake Prone Buildings and Pilot Study, Urban Renewal Planning and Preparation of Local Action Program and Initiatives on the Historical Building Stock at Istanbul Fatih District for Guiding Reconstruction, Rehabilitation and Strengthening as Part of Enhancing Earthquake Safety Plan, and Risk As-

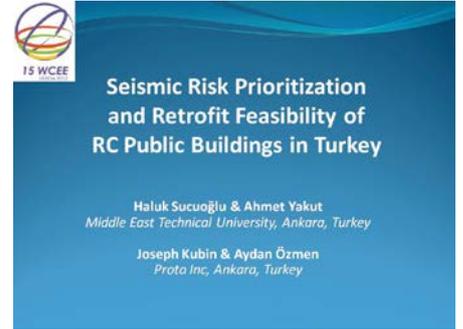
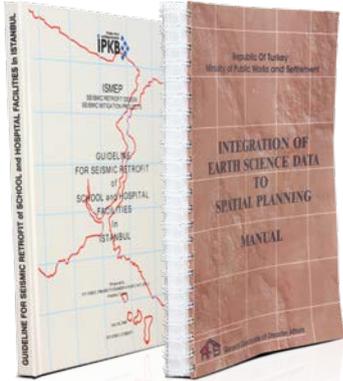
essment Method Development, Structural Analyses for Timber and Masonry Buildings located on the Marmaray Commuter Rail System Route.

One of the projects we conducted with our project partner from New Zealand was awarded for the silver award by the Association of Consulting Engineers New Zealand (ACENZ) organization.

Prota plays an active role, and voluntarily participates in several workgroups for the adaptation of Turkish Standards to European Union Norms in several areas such as construction engineering, construction management, and construction materials standards. Moreover, Prota played an active role during the preparation of the guideline on "Assessment of the Buildings to be Constructed in Seismic Risk Areas".

Prota Engineers and architects regularly present their research and development studies at national and worldwide seminars, conferences, and symposiums. Furthermore, Prota conducts educational events in which Prota experts present lectures about their innovative research and development studies and share their ideas and knowledge with thousands of people around the globe.

- MEER - Feasibility Studies Including Social and Economical Impact Assessment for Retrofitting of 369 Residential Buildings in Istanbul
- LESSLOSS - Risk Mitigation for Earthquake and Landslide, Cluster on Urban Areas
- MEER - Building Code Enforcement Analysis
- Development of Rapid Assessment Method and Forms for Earthquake Prone Buildings and Pilot Study



- MEER - Integration of Earth Science Data to Spatial Planning
- MEER - Development of Planning and Urban Design Standards in Disaster Risky Areas
- ISMEP – Development of Training Materials and Program for the Buildings to be Constructed in Disaster Zones
- MARMARAY - Risk Assessment Method Development, Structural Analyses for Timber and Masonry Buildings Located on the Marmaray Commuter Rail System Route
- Structural Design Verification for Sabiha Gokcen Airport Terminal and Carpark Buildings
- Urban Renewal Planning and Preparation of Local Action Program and Initiatives on the Historical Building Stock at Istanbul Fatih District

PROTA SOFTWARE

Prota delivers leading technology for an economical and efficient building design for engineering professionals around the world.

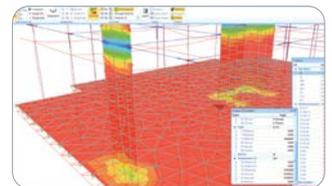
Prota Software is a structural and earthquake engineering software company founded in 1985 and became best known globally for its flagship product Proba Orion. Prota's professional engineers, leading technical experts and software developers across the world develop a broad range of software solutions for structural design and detailing, including the new **ProtaStructure**, **ProtaSteel**, **ProtaDetails**, and **ProtaBIM**. Thousands of engineers, CAD technicians, and project innovators across the world choose Prota's technology solutions for their steel and concrete building design, detailing, and structural BIM collaboration.

BIM and Interoperability

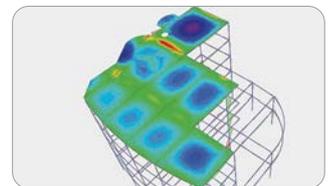
Prota Software develops the global leading structural BIM software platform for structural engineers to model, analyze and design buildings quickly and accurately. Prota's mission is to foresee future needs and to develop effective and reliable solutions for its clients. "Innovation to Design" is at the forefront of Prota's BIM team ethos. Our expert BIM engineers and architects adopt the latest BIM technologies and innovative approaches to produce aesthetically pleasing, economical design and technology solutions for our clients around the world.

ProtaStructure® Integrated Analysis and Design Solution for Building Systems

Soil-Structure Integration



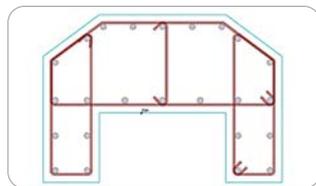
State-Of-The-Art Structural Model and Advanced Analysis Methods



Quick and Intuitive Project Creation



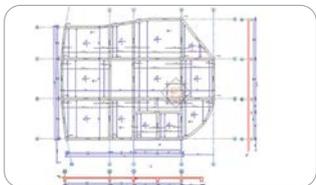
Economical and Reliable Design



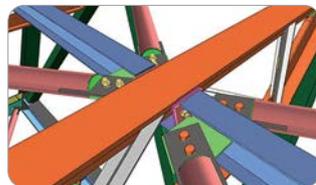
International Design and Seismic Codes



Fully Automated Detailing



Automated Steel Connection Design and Detailing



BIM Integration for Project Coordination



First Class Support From Prota's Experts



GENERAL DIRECTORATE OF HIGHWAYS / A TASARIM ARCHITECTURE / ACE ARCHITECTURE /ACWA/ AG ARCHITECTURE / AGAAGLU GROUP / AKCAM CONSTRUCTION / AKDENİZ İNŞAAT / AKDENİZ UNIVERSITY / AKFEN CONSTRUCTION INC / AKPINAR ENGINEERING / ALPKON DESIGN / ALSIM ALARKO / ALSTOM / ANKARA METROPOLITAN MUNICIPALTY / ANKARA UNIVERSITY / ANTALYA METROPOLITAN MUNICIPALITY / ARCADIS / ARTI ARCHITECTURE / ARUP / ASTALDI / AYMAZ ARCHITECTURE / BAKI CONSTRUCTION INC. / BAKIRKOY MUNICIPALITY / BASARI INVESTMENTS / BASF / BASTAS CEMENT / BAYINDIR HEALTH GROUP / BECA INTERNATIONAL / BEGENDİK / BEGUM ENGINEERING / BIMTAS / BLEDA CONSTRUCTION / BOGAZICI UNIVERSITY / BOTAS / BURSA METROPOLITAN MUNICIPALITY / CANKAYA MUNICIPALITY / CELTAS / CENGİZ CONSTRUCTION / CENGİZ ENERGY INC. / CENGİZ HOLDING / CEYHAN MUNICIPALITY / CEYLAN ENGINEERING / CIMSAC CEMENT / COWI / CUKUROVA UNIVERSITY / DALOKAY ARCHITECTURE / DAR AL-HANDASAH / DEVELI CONSTRUCTION / DIA HOLDING / DIMETRONIC / GENERAL DIRECTORATE OF SOCIAL SERVICES / GENERAL DIRECTORATE OF LAND REGISTRY AND CADASTRE / DOGUS CONSTRUCTION INC. / DOLSAR ENGINEERING / DOST CONSTRUCTION INC. / DOYAP / DURMAZ CONSTRUCTION / EBI / EDF / EFE ASFALT / EGE GROUP / EKOL ARCHITECTURE INC. / EMBASSY OF FRANCE / EMEK CONSTRUCTION / EMT ERİMTAN / ENERJISA / ENTEGRE HARC / ENTIM CONSTRUCTION / EPTISA / ERAS / ERME CONSTRUCTION / ESKİSEHIR METROPOLITAN MUNICIPALITY / ESKİSEHIR POLICE DEPARTMENT / ESSA PROJECT / ETI ALUMINIUM / ETI COPPER / EURASIA METRO GROUP / FLASH TV / FREYSSINET / FUGRO-SIAL / GAMA / GAZI UNIVERSITY / GAZİANTEP METROPOLITAN MUNICIPALITY / GEBZE TECHNICAL UNIVERSITY / GENCER CONSTRUCTION INC. / GENCLERBIRLIGI SPORT CLUB / GENERAL DIRECTORATE OF FOUNDATIONS / GENERAL DIRECTORATE OF INFRASTRUCTURE INVESTMENTS / GEODATA / GMD / GMW ARCHITECTS / GOKYOL ENGINEERING / GOOD YEAR / GRIMSHAW ARCHITECTS / GS E&C / GULERMAK / GUNDAY ARCHITECTURE / HACETTEPE UNIVERSITY / HATIRLI ARCHITECTURE / HILL INTERNATIONAL / IC ICTAS / IDOM / IFM CONSTRUCTION / ILF / ILLER BANK / IMPREGILO / ISTANBUL METROPOLITAN MUNICIPALITY / ISTANBUL PROJECT COORDINATION UNIT / ISTANBUL TECHNICAL UNIVERSITY / ISTANBUL UNIVERSITY / ISTON / IZİS / IZMİR METROPOLITAN MUNICIPALITY / JICA / KA.BA ARCHITECTURE INC. / KADIKOY MUNICIPALITY / KALE ARCHITECTURE / KALEMCI CONSTRUCTION / KALYON ENGINEERING / KAM CONCRETE INDSTRY INC. / KANDILLI OBSERVATORY / KARADENİZ TECHNICAL UNIVERSITY / KAYI CONSTRUCTION / KLV CONSTRUCTION / KMD ENGINEERING LTD. / KNAUF / KOCAELI METROPOLITAN MUNICIPALITY / KOLEKSİYON FURNITURE / KOLIN / KOLTEK / KOLUMAN CONSTRUCTION AND ENGINEERING INC. / KOLUMAN MOTOR VEHICLES / KOZA-IPEK HOLDING / KUR CONSTRUCTION INC. / LIMAK CEMENT INC. / LIMAK CONSTRUCTION INC. / LIMAK GMR / LIMAK HOLDING / LIMCİM CEMENT INC. / LIMKOM CONSANTRATED FRUIT JUICE INC. / LOTUS / MADINSAN MINING / MAKYOL / MAN / MAPA / MARMARA UNIVERSITY / MARUBENI / MAY CONSTRUCTION / MAYA HOLDING / MECHANICAL AND CHEMICAL INDISTRY CORPORATION / MERSİN METROPOLITAN MUNICIPALITY / MERSİN UNIVERSITY / MESA / METEKSAN / METROPLAN / MIDDLE EAST TECHNICAL UNIVERSITY / MNG HOLDING / MOTT MACDONALD / MUKOM ENGINEERING INC. / MURAT FLOUR INDUSTRY INC. / NACE MACHINERY INC. / NEJAT UREGEN ARCHITECTURE / NERU / NİGBAS / NORDIC ARCHITECTURE / NUH CEMENT INC. / NUR-AK CONSTRUCTION INC. / ODC CONSTRUCTION INC. / OHL / ONCUOGLU ARCHITECTURE LTD. / OYAK-RENAULT / PARLAR FOUNDATION / PEKERLER CONSTRUCTION INC. / PILON CONSTRUCTION / PORTAKAL CİCEĞİ / PREFI / PROJEN ARCHITECTURE INC. / PROMİM / PTD ENGINEERING / PTT / RELE INVEST SA / RENAISSANCE HOLDING / ROKETSAN / SABANCI HOLDING / SAHİNBAS FIKİRLİER ARCHITECTURE LTD. / SAMSUNG / SANLIURFA CEMENT INC. / SAYHAN CONSTRUCTION INC. / SAYKA ARCHITECTURE LTD. / SCOTT WILSON / SEKA / SELDA GUMUSDOĞRAYAN ARCHITECTURE INC. / SEYHAN MUNICIPALITY / SIEMENS / SİNPAS GYO / SK ENGINEERING / SOCAR TURKEY / STAR RAFINERY / STF / STRUCTORIS ENGINEERING INC. / STUDIO CALVI / SUMMA / SURUCULER CONSTRUCTION INC. / SWS TURK / T. & ASSOCIATES / T.C GOVERNORSHIP OF AMASYA / T.C GOVERNORSHIP OF ANKARA / T.C DISASTER AND EMERGENCY MANAGEMENT PRESIDENCY / T.C MINISTRY OF JUSTICE / T.C UNDERSECRETARIAT OF TREASURY / T.C. GOVERNORSHIP OF BARTIN / T.C. GOVERNORSHIP OF CANAKKALE / T.C. CENTRAL BANK / T.C. GENERAL DIRECTORATE OF SPORTS / T.C. GOVERNORSHIP OF ISTANBUL / T.C. MINISTRY OF CULTURE AND TOURISM / T.C. MINISTRY OF ENVIRONMENT AND URBANIZATION / T.C. MINISTRY OF FOOD, AGRICULTURE AND LIVESTOCK / T.C. MINISTRY OF HEALTH / T.C. MINISTRY OF LABOUR AND SOCIAL SECURITY / T.C. MINISTRY OF NATIONAL DEFENSE / T.C. MINISTRY OF NATIONAL EDUCATION / T.C. MINSITRY OF TRANSPORTATION, MARITIME AFFAIRS AND COMMUNICATION / T.C. MINISTRY OF FINANCIAL AFFAIRS / T.C. PRIME MINISTRY PROJECT IMPLEMENTATION UNIT / T.C. 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**THANK YOU FOR YOUR
CONFIDENCE**

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