

STEEL STRUCTURAL DESIGN



industrial civil design

INCIDE ENGINEERING A MULTIDISCIPLINARY ENGINEERING DESIGN FIRM

Incide Engineering was founded in 1998, and in over twenty years of growth the company has transformed itself from a family reality to an organized structure of over 60 people, with a multisectoral and multidisciplinary offer, maintaining the care and attention to the customer typical of a "craft" company. An international culture has led Incide to face foreign markets, and today the company offers direct assistance to its customers with offices located in different countries. A professional approach to the market and customer satisfaction are the leading principles of corporate policies, which are applied in our daily work methods. The training of personnel and the use of new design methodologies are aimed at professional services up to date and in step with the market and the need for product innovation.

A world wide company

+250 Projects

+30

Countries

+4

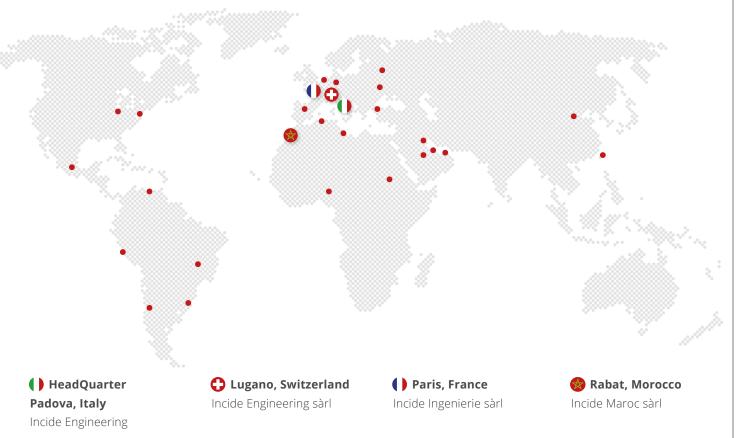
Branches

Employed

+60

The competence, the language skills of the personnel and an up to date communication system, allow Incide Engineering to work in close connection with its customers around the world.

Knowledge of the most important names and international codes, give to Incide Engineering, the capability to compare utility with the global market of engineer services.



Full-services capabilities

Incide Engineering offers a full range of integrated engineering, architectural design and consulting services to support its Customers in the development of complex projects.

The integrated services offered by the company, start from the preliminary and conceptual design phases up to the definition of the specifications, the implementation, optimization and validation of the detail design.

Our approach to "building solutions" is to work both on buildings and on creating mutidisciplinary solutions for our clients.

Using the most advanced softwares the company develops the engineering and architecture design with BIM models, giving to the project an integrated design approach, anticipating problems and having a real time view of the construction. The different internal professionals ensure the full coverage of all the skills offered.







ENGINEERING

Structural engineering
Civil engineering
Mechanical & Electrical
Membrane structures
Fire protection engineering
Installation methodologies

FACADES & ARCHITECTURE

Facade engineering
Architecture
Interior design
Bim coordination
Multidisciplinary coordination

CONSULTING

Project management Construction management Safety coordination Commissioning

incide 4 5 incide

Structural engineering

The structural design process carried out by Incide Engineering arises from a pre-design phase through simplified calculation schemes that come from both theoretical know-how and years of experience in the sector, to then develop detailed analyzes using models and finite elements of the entire structure, according with structural drawings and load conditions, in order to obtain an accurate representation of the structural functioning.

Steel, concrete and mixed structures

Specialized FEM modeling - Seismic analysis Detail drawings Shop drawings



Special structures

Port cranes - Structures for industrial plant Industrial piping & machine pedestal Industrial ducts & chimney - Special analysis



Installation and erection metodologies Tensile structures

Erection design - Costruction sequencies Temporary stage stability - Lfting with stand jack Lifting tools design



From the concept to installation Specialised FEM modelling Executive and constructive 3D modeling



Engineering services

We carry out designing by finding innovative, energy efficient and cost-effective solutions for electrical, mechanical and energy distribution systems. In total integration with the other disciplines, we design systems for different construction sectors, from power plants to civil buildings, to industrial complexes of different production types.

We are committed to creating the best solutions through our technical ingenuity and responsiveness to client needs.

Civil engineering

Geotechnical engineering, Special foundation design, Design Development of all types of air conditioning, ventilation and of roads and bridges, and all complimentary Infrastructural constructions.



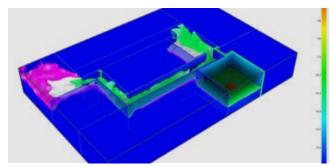
industrial plant systems, for the various types of product sectors.





Fire Prevention engineering

We manages the fire safety of buildings, from the definition of risk to the application of active and passive protection solutions.



Electrical and special systems

Design of power plants & medium-low voltage distribution, lighting & special systems, integrating the regulations and building automation systems.



7 incide incide 6

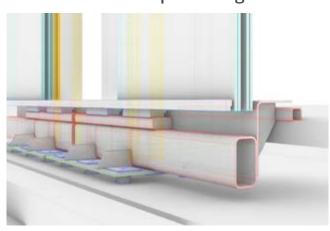
Facades & Architecture

Incide provides facade design and consultancy, to architects, builders and Public and Private operators in all phases of the project. We start from the concept and research of materials for proposing the construction scheme that we develop to the detail. We offer a suite of specialist analyzes (Structural, Energy & Solar, Thermal & Acoustic and windy analyzes) to solve complex design challenges, improve buildability, maximize energy efficiency and increase safety.

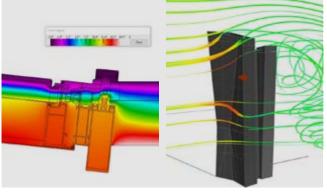
Concept, bidding, detailed design and Engineering



BIM models & shop drawings



Thermal & acoustic design, wind, energy & solar analysis



Facade structures



Consultancy activities

Consultancy activities of such as Assistance on Tenders, Works Supervision, Safety Coordination, and Commissioning complete the list of services that Incide Engineering is able to provide in a completely professional way.

Project management

Assistance in the processes of design definition, feasibility and execution phases, construction planning, coordination and management, planning and control of project activities.



Works management

Complex infrastructures, restoration of historic buildings, contemporary and innovative buildings, gardens, small schools, shopping centers, with public and private clients.



Safety coordination

Prevent accidents during the execution of the works, analysing and evaluating the risks pertinent to each particular activity taking place on-site.



Testing and Commissioning

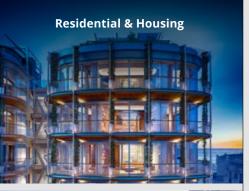
We follow the start-up and testing of building and plant engineering systems, up to the phases of delivery to the client and the taking charge by end users.



incide 8



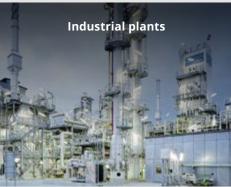






















Selected projects

Thanks to the heterogeneity and complexity of the projects developed, Incide Engineering has acquired high skills in different market categories.

The experience developed by offering multidisciplinary services of high technical values, offers for each of these categories a solid basis in method, international construction codes and implementation constraints, to guarantee an efficient customer support.

Aviation

Incide has numerous professionals with years experience in the design of airports and aeronautical infrastructure, working with companies operating in the aeronautical sector, airport operators and airlines.



FIUMICINO AIRPORT - TERMINAL 3

Year: **2016**

Owner: **Aeroporti di Roma ADR**

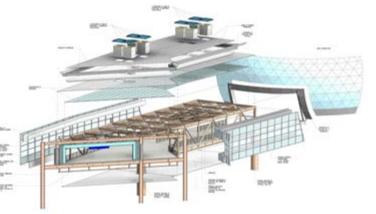
Client: Cimolai S.p.a. - Permasteelisa S.p.a.

Location: Rome - Italy

Market: **Aviation - Infrastructures**

Services: Architecture - Structural engineering

Facade engineering







ORLY AIRPORT - JUNCTION BUILDING

Year: **2016**

Owner: Paris Airport

Client: **JV Omba / Simeon**

Location: Paris - France

Market: Aviation - Infrastructures - Commercial

Services: Steel Structure Detail Design



incide 14





ALENIA PLANT - GROTTAGLIE

Year: **2014**

Owner: Alenia Aermacchi S.p.a. Client: Finmeccanica S.p.a.

Location: Taranto - Italy

Market: Aviation - Industrial complex

Services: **Structural engineering - Architecture**

MEP - Commissioning - Management







EMIRI HANGARS

Year: **2009**

Owner: Qatar Airways
Client: Cimolai S.p.a.
Location: Doha - Qatar

Market: **Aviation - Infrastructures**Services: **Structural engineering**





INTERNATION FLIGHT TRAINING **SCHOOL - CAGLIARI**

2020 Year:

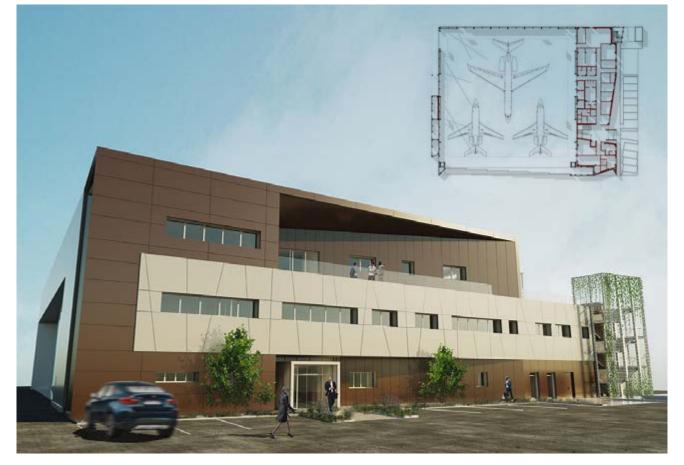
Aeronautica Militare Italiana Owner:

Leonardo Aircraft Client:

Location: Cagliari - Italy

Aviation - Military infrastructure Services: Structural & Civil engineering

Fire protection engineering - BIM



HANGAR PG109 AEROPORTO CIAMPINO

2020 Year:

Aeroporti di Roma Owner: Aeroporti di Roma Client:

Location: Roma - Italy

Aviation - Infrastructures





CARGO TERMINAL FACILITY

Year: **2010**

Owner: **Doha International Airport**

Client: **Cimolai S.p.a.**Location: **Doha - Qatar**

Market: **Aviation - Infrastructures**Services: **Structural engineering**







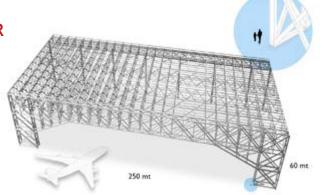


QATAR AIRWAYS MAINTENANCE HANGAR

Year: **2010**

Owner: Qatar Airways
Client: Cimolai S.p.a.
Location: Doha - Qatar

Market: **Aviation - Infrastructures**Services: **Structural engineering**







AEROPORTO DI MALPENSA - T2

Year: **2008**

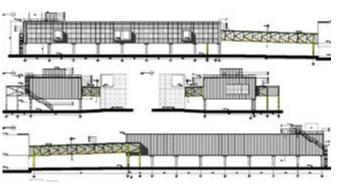
Owner: SEA S.p.a. Aeroporti Milano
Client: SEA S.p.a. Aeroporti Milano

Location: Milan - Italy

Market: **Aviation - Infrastructures**

Services: Architecture - Structural engineering

MEP - Facade engineering







CASABLANCA AIRPORT

Year: **2019**

Owner: **ONDA**

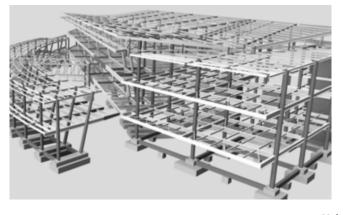
Client: **Jet Contractor**

Location: Casablanca - Morocco

Market: **Aviation - Infrastructures**

Services: **Structural, Civil & Fire protection**

engineering - MEP - Bim & coordination



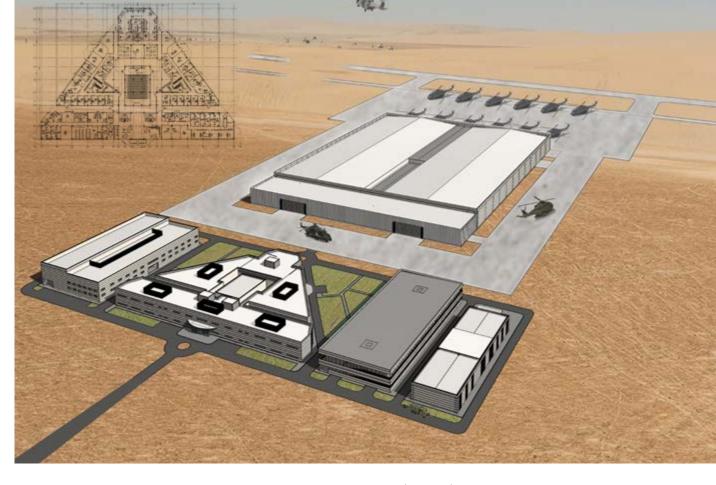
in<mark>ci</mark>de 22

Industrial complexes & plants

The experience in managing important industries of Incide, has resulted in significant experience in industrial complexes design.

The company works with major EPC contractors from around the world, giving advice and providing services to develop power plants, infrastructure projects, industrial plants and oil and gas production sites.





STABILIMENTO ELICOTTERI NH90

Year: **2018**

Owner: Ministero della Difesa - QATAR

Client: Leonardo Helicopters S.p.A

Location: Forlì - Italy

Market: Aviation - Industrial complex & plants

Military infrastructure

Services: Architecture - Structural & Civil engineering - MEP





ASSEMBLY FLIGHT LINE

2009 Year:

Augusta Westland S.p.a. Client:

Location: Abu Aisha - Libya

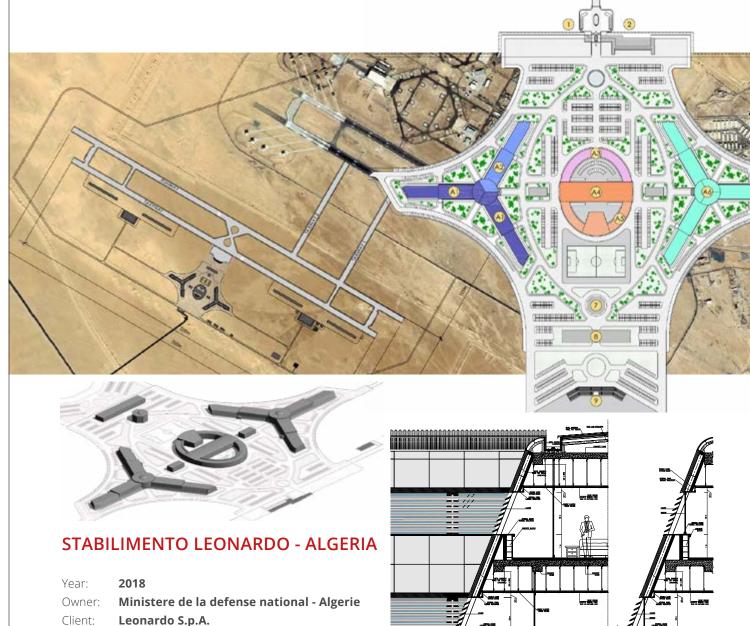
Aviation - Industrial complex Market:

Services: Architecture - Structural engineering

Electrical & Mechanical engineering

Fire protection engineering - PM



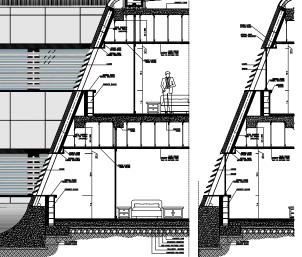


Leonardo S.p.A.

Location: Ain Arnat - Algeria **Aviation - Industrial complex**

Services: Architecture - Structural engineering - MEP

Fire prevention engineering - BIM







HELICOPTER ASSEMBLY FACILITY

Year: **2010**

Owner: Augusta Westland S.p.a.

Client: **Leonardo S.p.a.**Location: **Venice - Italy**

Market: **Aviation - Industrial complex**

Services: Architecture - Structural engineering

Civil, Electrical & Mechanical engineering







JSF35 AIRCRAFT ASSEMBLY PLANT

Year: **2014**

Owner: Italian Ministry of Defence

Client: **Maltauro S.p.a.**Location: **Novara - Italy**

Market: Industrial complex

Services: Structural & Civil engineering

Architectural design



incide 30





NSC CHERNOBYL POWER PLANT

Year: **2015**

Owner: Government of Ukraina

Client: **Cimolai S.p.a.**

Location: **Chernobyl - Ukraine**Market: **Industrial plants**

Services: Structural engineering - Nodal connections

Installation and erection metodologies



in<mark>ci</mark>de 32



Infrastructures







STATION OF RABAT CITY

Year: **2019**

Owner: **ONCF**

Client: **Jet Contractor**Location: **Rabat - Morocco**

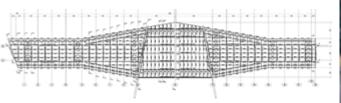
Market: **Commercial - Infrastructures**

Services: Structural engineering

Bim & multidiscplipinary coordination







MERCATO ORTOFRUTTICOLO TREVISO

Year: **2018**

Owner: Comune di Treviso

Client: **Cimolai S.p.a.**Location: **Treviso - Italy**

larket: Commercial buildings - Infrastructure

Services: Structural engineering



in<mark>ci</mark>de 36





BRIDGE AL RAHA

Year: **2007**

Owner: Aldar Liaung o' Rouke JV

Client: **Cimolai S.p.a.**

Location: Abu Dhabi - United Arab Emirates

Market: **Infrastructures**

Services: Structural engineering





BRIDGE OF VAL D'ARVE

Year: **2018**

Owner: Liason ferroviaire Ceva

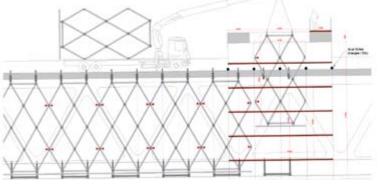
Client: **Cimolai S.p.A.**

Location: **Geneva - Switzerland**

Market: **Infrastructures**

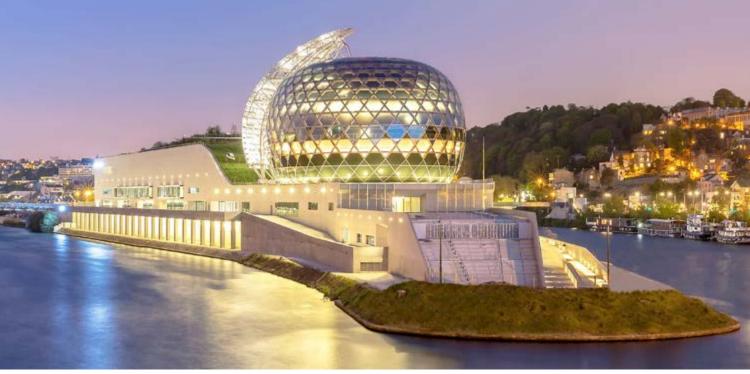
Services: **Structural engineering**

Facade engineering



Sport & Spectacle Entertainment halls, Arenas, Football stadiums, Gymnasiums, multi-purpose facilities and Swimn

Gymnasiums, multi-purpose facilities and Swimming pools. Building projects designed for the sports and enetrtainment sector express a high representative value, so their design takes into account the need to make them real iconic architectural symbols.





LA SEINE MUSICALE

Year: **2015**

Owner: **City of Paris**

Client: **Buygues Costruction**

Location: Paris - France

Market: **Sport & Spectacle**

Services: Structural steel design







ARENA 92

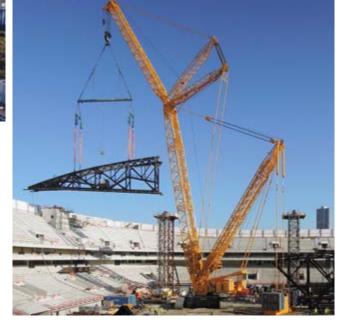
Year: **2015**

Owner: **City of Paris**

Client: GTM Bâtiment Department of Vinci

Location: Paris - France
Market: Sport & Spectacle

Services: Roof structural steel design



incide 42 43 incide



STADIO FRIULI RENOVATION

Year: **2015**

Owner: City of Udine
Client: Cimolai S.p.a.
Location: Udine - Italy

Market: **Sport & Spectacle**

Services: Structural engineering

Facade engineering







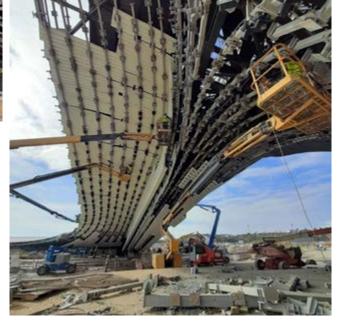
GRAND THÉÂTRE DE RABAT

Year: **2019**

Owner: Aménagement de la Vallée du Bouregreg

Client: Jet Contractor
Location: Rabat - Morocco
Market: Sport & Spectacle
Services: Facade Design

Steel Structure



incide 44 45 incide

فاشــن أفــنيــو FASHION AVENUE

Commercial

We offer our design experience for Commercial Buildings to Investors, Builders and Architects all around the world.

Successful commercial building designs reflect the expectations of local tenants and incorporate local construction practices.





ASPIRE TOWER

2006 Year:

Qatar Ministry Of Sport Owner:

Cimolai S.p.A. Client: Location: **Doha - Qatar**

Commercial - Sport & spectacle - Hotel

Services: **Structural engineering**









MILLENNIUM TOWER

2014 Year:

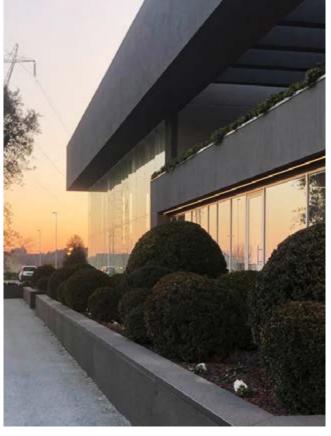
Owner: Federal Republic of Nigeria

Cordioli & Co. Client: Location: Abuja - Nigeria Commercial

Services: **Structural engineering**







RED BUILDING RESTORATION

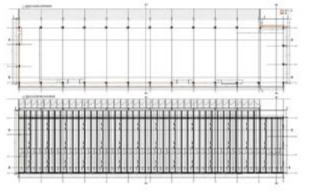
Year: **2017**

Owner: **RED Graniti S.p.A.**Client: **RED Graniti S.p.A.**

Location: Verona - Italy

Market: Industrial complex - Commercial buildings
Services: Structural engineering - MEP - Commissioning

Bim & multidiscplipinary coordination







CATWALK BOVID

Year: **2015**

Owner: Vidgof Hotel Chelyabinsk

Client: JV "KONAR-Cimolai"
Location: Chelyabinsk - Russia

Market: **Commercial**

Services: Architectural and Structural design



in<mark>ci</mark>de 50



EXO BUILDING

Year: **2018**

Owner: **Grant Thorton**Client: **Cimolai S.p.a.**Location: **Dublin - Irlande**

Market: **Commercial**

Services: Structural engineering





TOUR PLEYEL - IGH BUREAUX

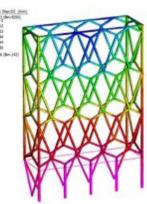
Year: **2019**

Owner: Pleyel Investissement

Client: Bateg SASU
Location: Paris - France

Market: Commercial - Sport & spectacle - Hotel

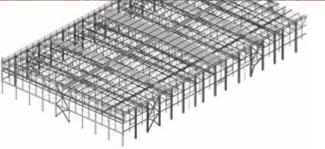
Services: **Structural engineering**





in<mark>ci</mark>de 52





PARC DES EXPOSITIONS - CO'Met

Year: **2020**

Owner: Orléans Métropole

Client: Giugliano Costruzioni Metalliche S.r.l.

Location: Orléans - France

Market: **Commercial - Sport & spectacle**

Services: **Structural engineering**

Bim & multidiscplipinary coordination







ARRIBAT CENTER

Year: **2018**

Owner: **CGI MANAGEMENT**

Client: **JET Contractors**

Location: Rabat - Morocco

Market: Commercial

Services: **Structural engineering**

Tensile structure



incide 54 55 incide

HeadQuarter

Incide Engineering s.r.l. Via S.Francesco, 91 35121 Padova - Italy t. +39 049 8774150 f. +39 049 8774836 incide@incide.it

Registered office:

Via Forte Marghera, 85 Venezia Mestre - Italy P.I. e C.F. 03340490279 Registro Imprese Venezia n.03340490279 R.E.A. Venezia 300335 – Cap. Soc. €10.000 **Certifications:**

ISO9001:2015 - CSI CERT N. SQ052065

Paris, France Incide Ingénierie sàrl france@incideengineering.com

C Lugano, Switzerland

Incide Engineering sàrl suisse@incideengineering.com

Rabat, Morocco

Incide Maroc sàrl maroc@incideengineering.com

Follow us on:









www.incide.it

