ASTM GROUP

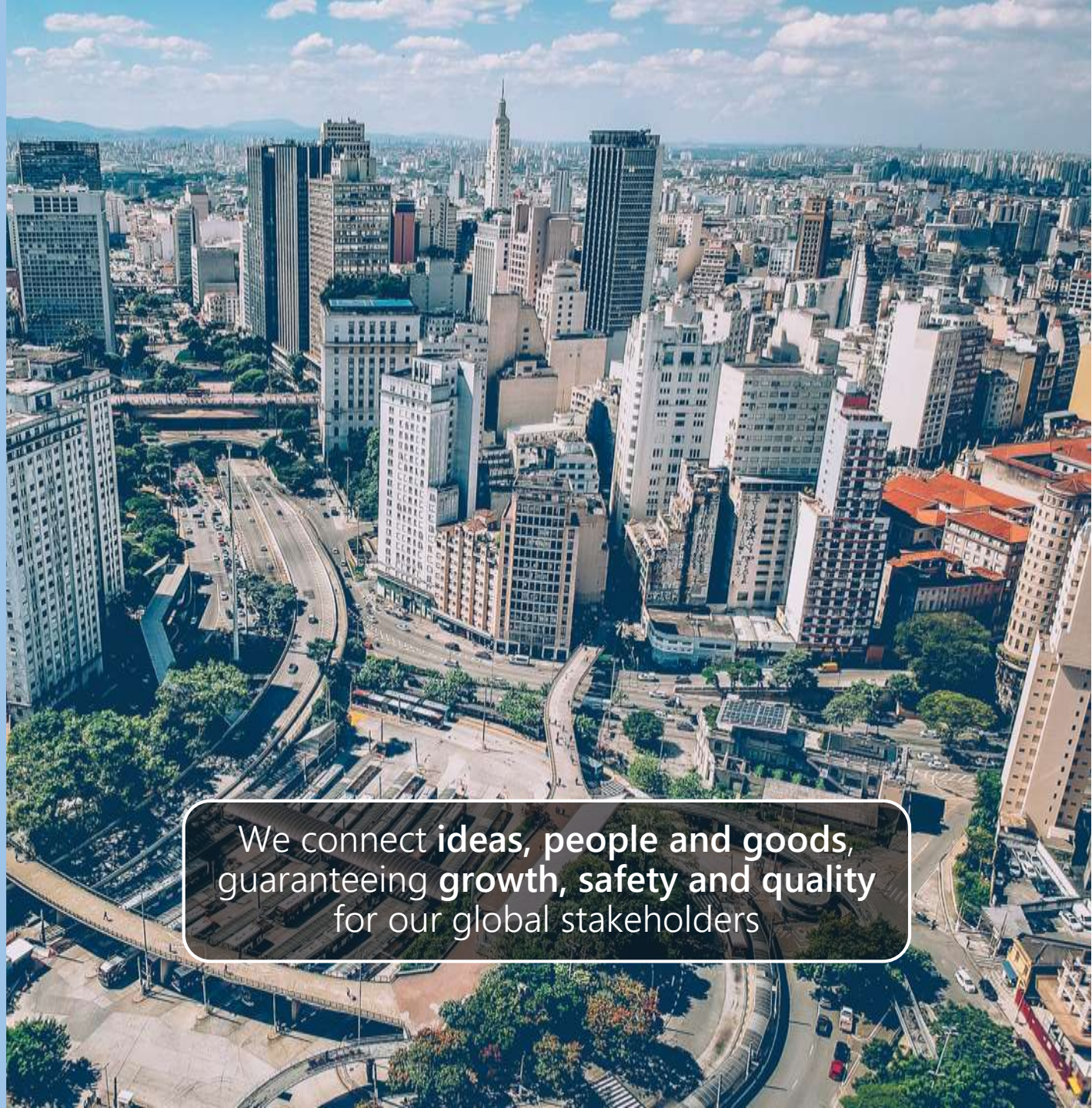
A global player
in the major infrastructure sector

ASTM GROUP

PROFILE

ASTM Group is a global player in the design, construction and management of major infrastructural projects.

The Group is the second largest operator in the management of toll motorway concessions.



ASTM

ASTM GROUP

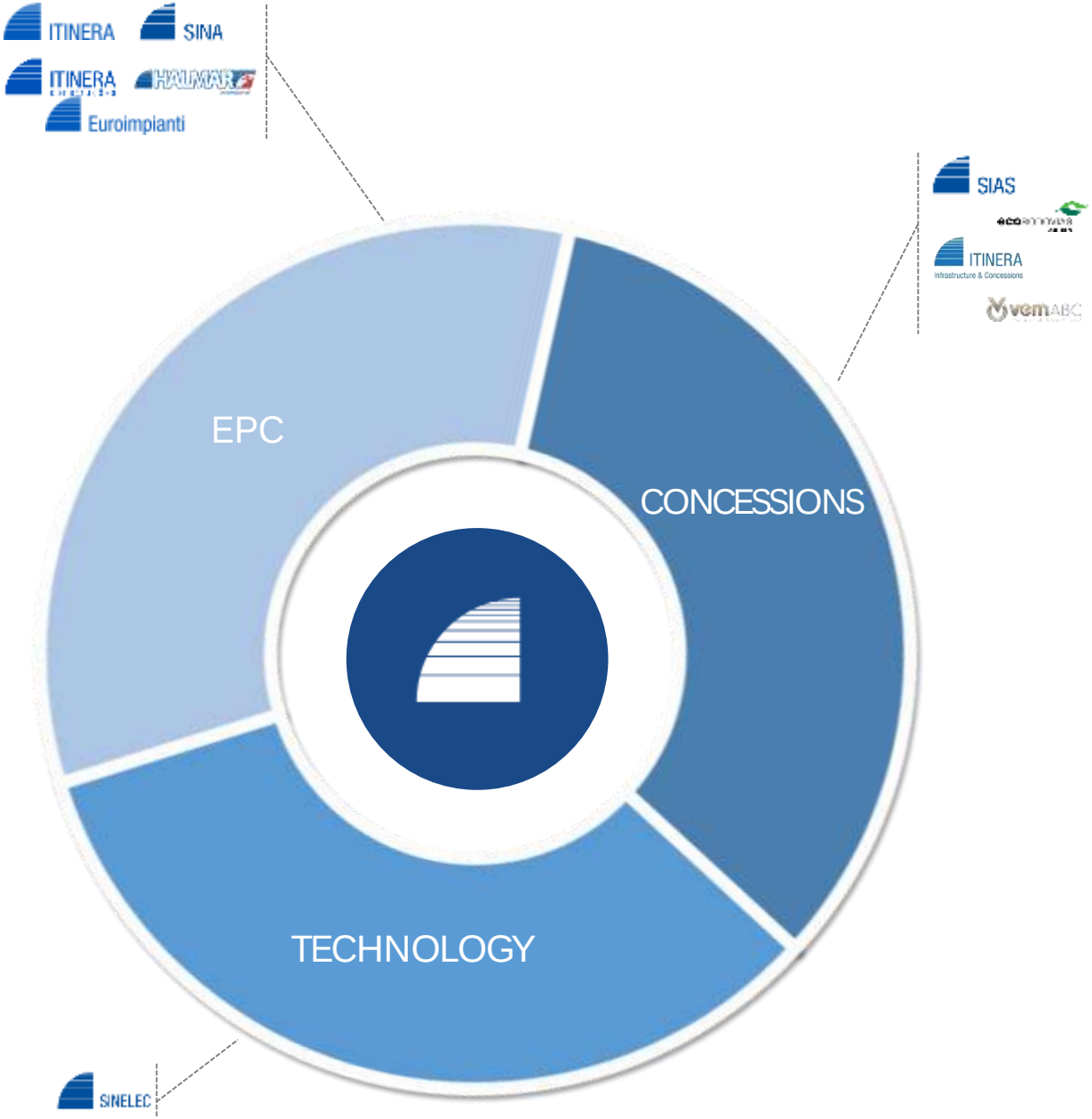
BUSINESS SECTORS

The Group's activities are focused on the following sector:

CONCESSIONS

EPC
(Engineering, Procurement and Construction)

TECHNOLOGY



ASTM GROUP

OUR VISION ONE COMPANY

Three business units, ONE COMPANY, with Concessions at the core.

An integrated business model, based on synergies, to develop business opportunities in an increasingly competitive global scenario

Leadership of the entire value chain: origination, financing, development, operations

Open market challenges across all sectors to acquire best practices and maintain efficiences

EPC as a low-risk point of access to new markets

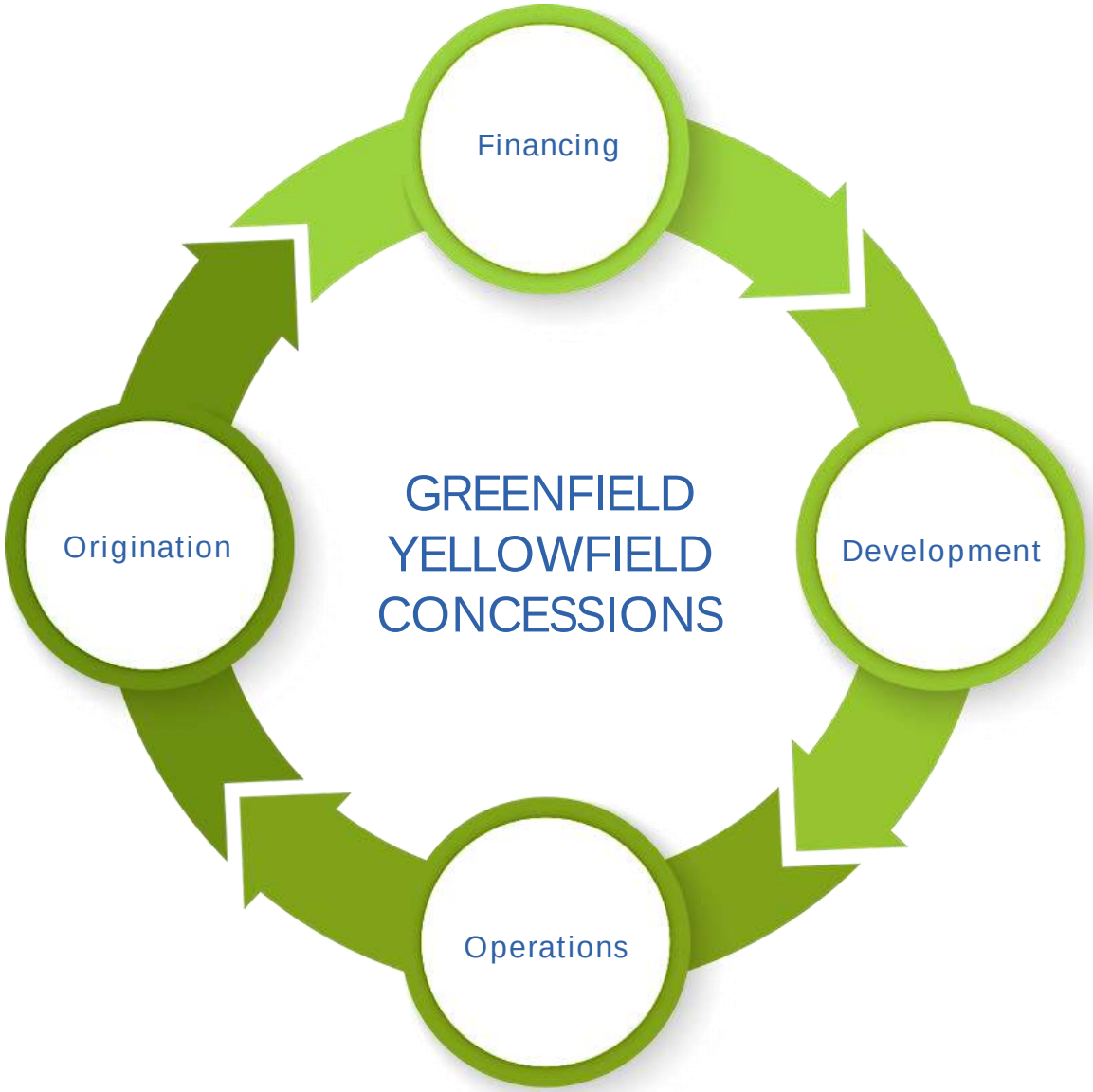
ASTM

ASTM GROUP

OUR SKILLS: INTEGRATED AND SYNERGIC COMPETENCIES

A global presence in the infrastructure sector, with advanced financing, engineering, development and management capabilities.

With our integrated skills we create value.



ASTM GROUP

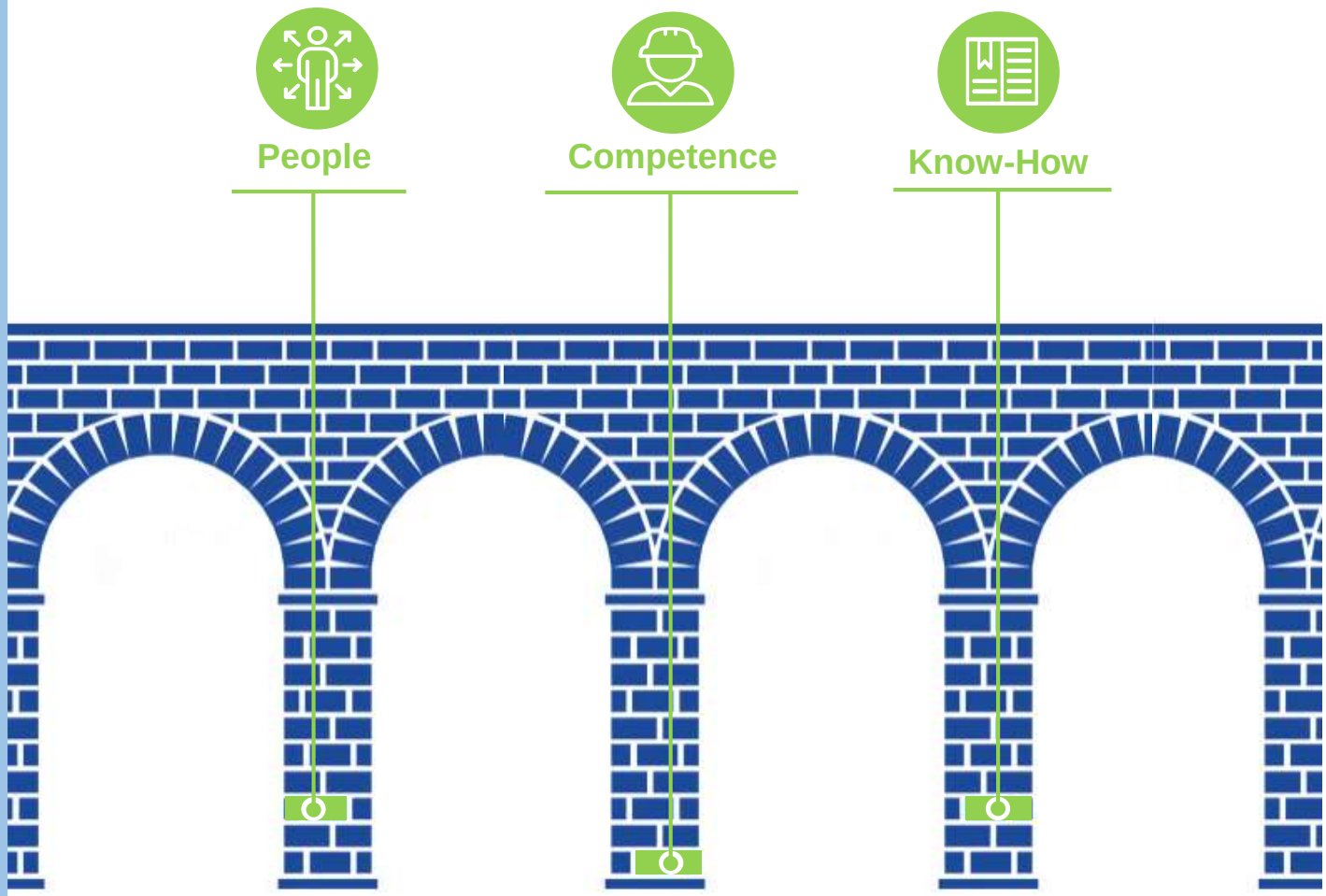
THE BASIS OF OUR OPERATE

An industrial vision focused on:

COMPETENCE

PEOPLE

KNOW-HOW

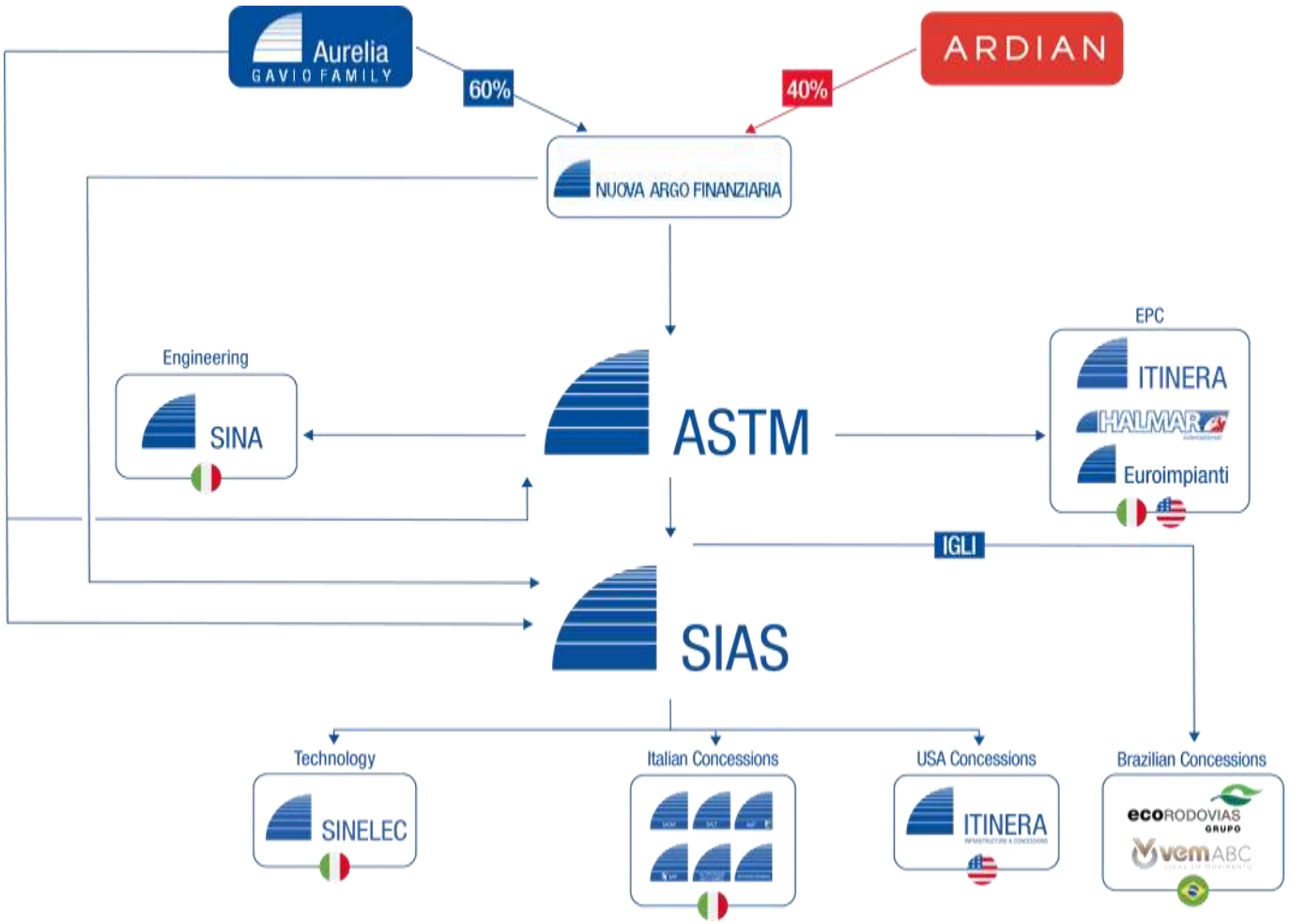


Our people, our skills and our know-how are the building blocks on which our work is based every day

ASTM

ASTM GROUP

GROUP STRUCTURE



ASTM GROUP

KEY FIGURES ITALY

€ 1.7 billion
Revenues

€ 771 million
EBITDA

€ 289 million
Net Income

12,000
Employees

Source: ASTM 2018 Consolidated Financial Statements

ASTM

ASTM GROUP

INTERNATIONAL PRESENCE

ITALY
ABU DHABI
ALBANIA
ANGOLA
AUSTRIA
BOTSWANA
BRAZIL
DENMARK
DUBAI
FRANCE
KENYA
KUWAIT
OMAN
PORTUGAL
ROMANIA
SAUDI ARABIA
SOUTH AFRICA
SWEDEN
SWITZERLAND
UNITED KINGDOM
UNITED STATES

ASTM

ASTM GROUP

SUSTAINABILITY: CONNECTED TO TOMORROW

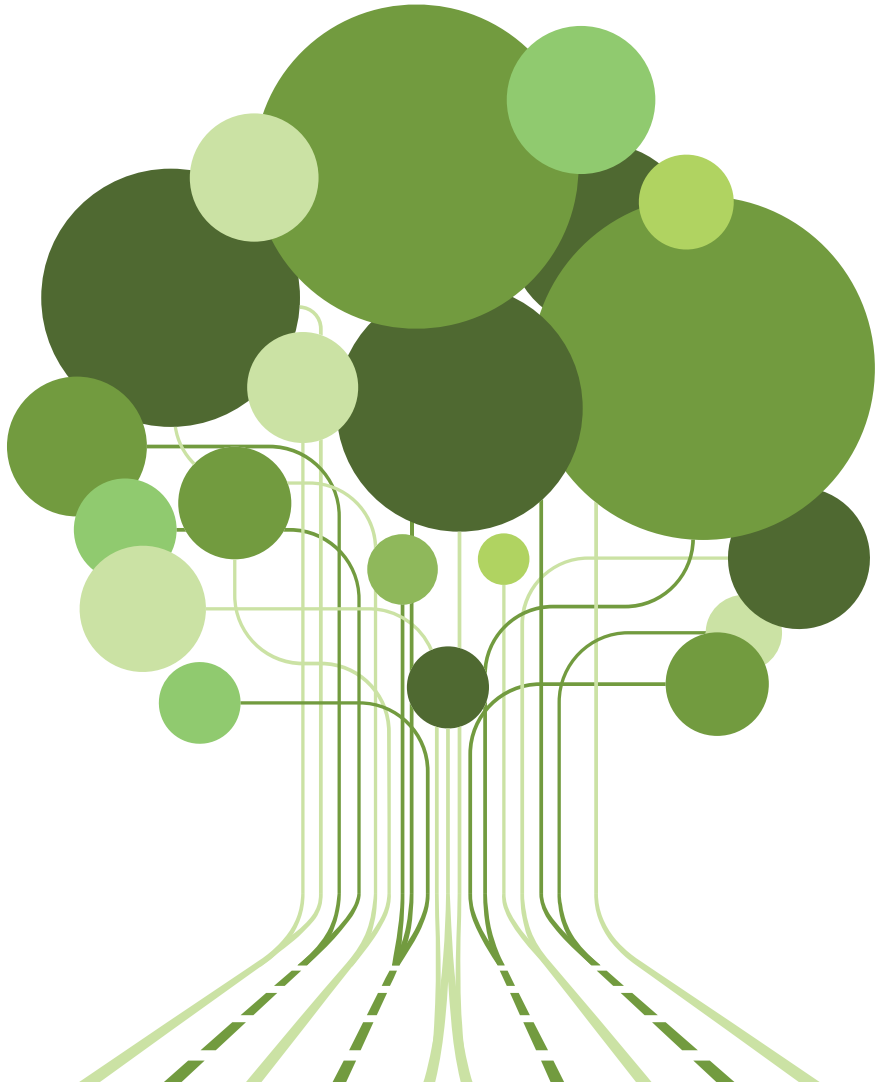
The Group is committed to operating in a responsible manner, integrating the key principles of sustainability into its business activities.

ASTM Group has started a path of sustainability, drawing inspiration from the "Ten Principles" of the United Nations Global Compact initiative and the ISO 26000:2010 Guidelines.

ASTM

Being sustainable means creating value over time.

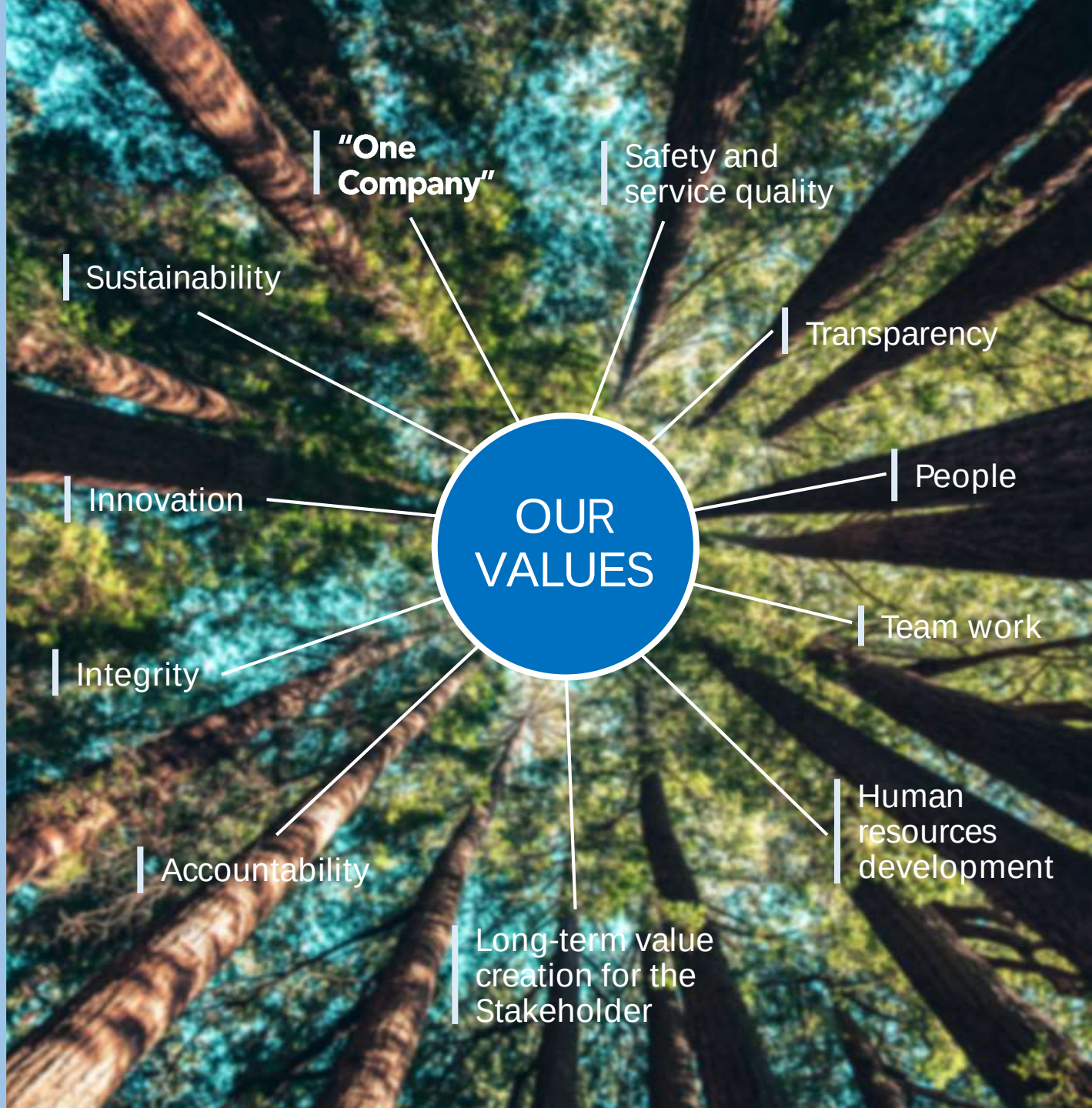
A value that is shared with all of the Group's Stakeholders.



ASTM GROUP

OUR VALUES

We pursue the **"excellence** in **action"** through our values



ASTM

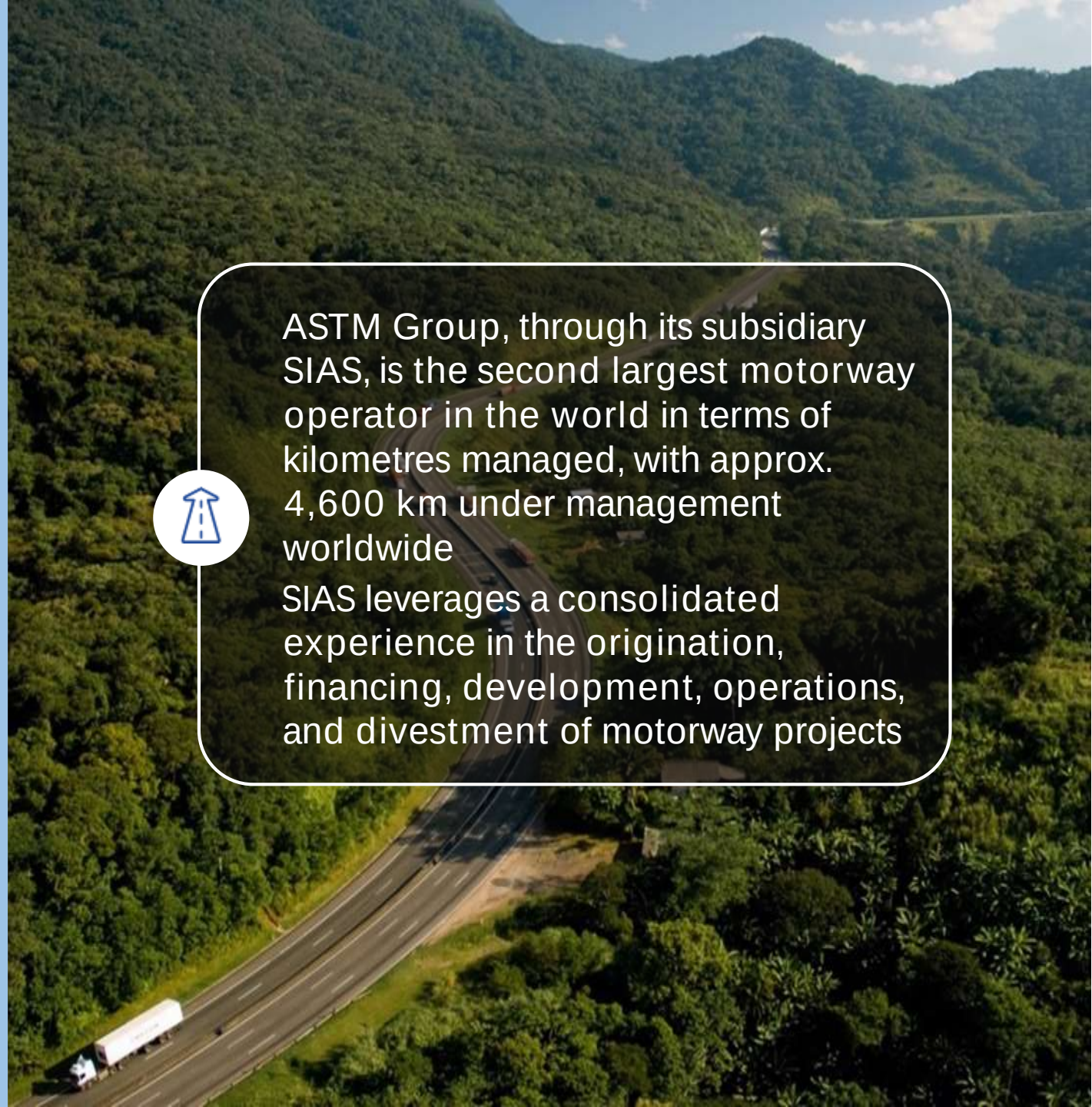
BUSINESS UNIT

CONCESSIONS

ASTM

MOTORWAY CONCESSIONS

A GLOBAL PLAYER



ASTM Group, through its subsidiary SIAS, is the second largest motorway operator in the world in terms of kilometres managed, with approx. 4,600 km under management worldwide

SIAS leverages a consolidated experience in the origination, financing, development, operations, and divestment of motorway projects

ASTM

MOTORWAY CONCESSIONS

A GLOBAL PLAYER

Worldwide presence: approx. 4,600 km under management in Italy, Brazil and the UK

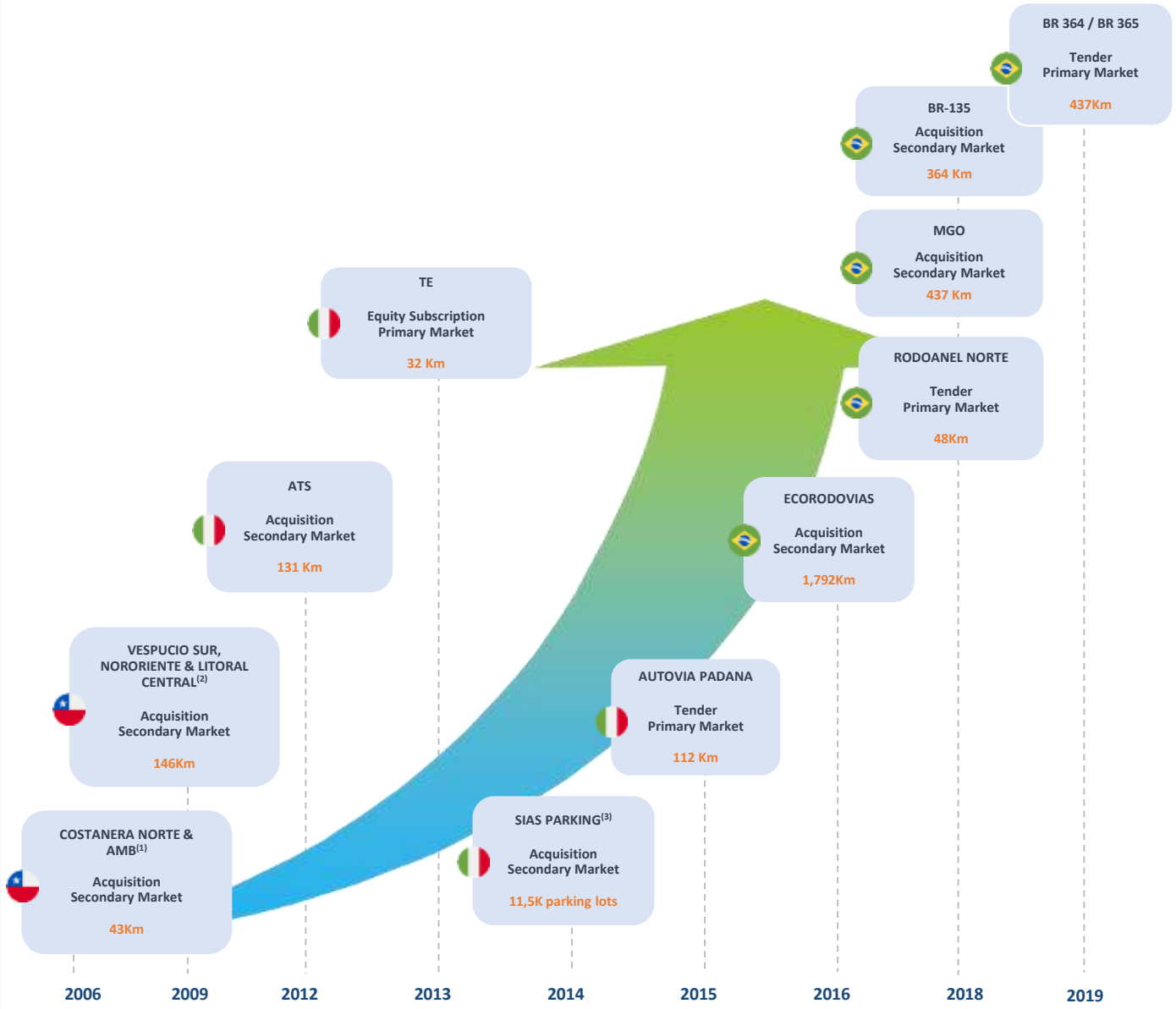
1,423 km 13 Concessions	3,087 km 10 Concessions	84 km 1 Concession	ITINERA Infrastructure & Concessions
Main motorway operator in the North-West of Italy, one of the wealthiest areas in Europe, representing 23% of the national grid	EcoRodovias, the second biggest motorway operator in Brazil, jointly controlled with CR Almeida	Newcastle-Carlisle (A69), a major Northern trunk road in England, jointly managed with RoadLink Holding	Recent set up of a new SPV with the purpose of investing in the PPP concession projects. The SPV is already staffed with high skilled professionals

ASTM

MOTORWAY CONCESSIONS

A SUCCESS STORY

The Group's strategy has always focused on operations which target growth, with a robust, sustainable and conservative financial profile.



(1) Asset held with Atlantia and Mediobanca, sold in 2012 - (2) Asset held with Atlantia, sold in 2012 - (3) Asset sold in 2017

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN ITALY

SIAS

The ASTM Group, through its subsidiary SIAS, is the leading motorway operator in the North-East of Italy, with around 1,423 km of road network, in one of the regions with the highest income per capita in Europe.

The Group's motorway network runs along **the main European infrastructural corridors**, and along the **strategic routes** identified by the European Community for **the transportation of people and goods**.

ASTM

MOTORWAY CONCESSIONS

KEY FIGURES ITALY

SIAS

Source: ASTM 2018 Consolidated Financial Statements

€ 1.1 billion
Revenues

€ 738 million
EBITDA

4,156 Km
of roads under concession

2,187
Employees

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN ITALY

SIAS

The SIAS Group motorway network in Italy is located in the North-West of the country, an area with one of the highest levels of income in Europe.

It represents around 23% of the national motorway network, and constitutes an integral component of the main trans-European corridors.

(TEN-T networks: the Mediterranean corridors which run south-north and east-west)

Subsidiary licensees

Jointly controlled entities and associated companies

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN ITALY

SIAS

SUBSIDIARY LICENSEES

LICENSEE	SECTION	SHARE	KM
SATAP	A4: Turin-Milan	99.87%	130.3
	A21: Turin-Piacenza		167.7
SALT	A12: Sestri Levante-Livorno-Viareggio-Lucca-Fornola-La Spezia	95.18%	154.9
	A15: La Spezia-Parma		182
SAV	A5: Quincinetto-Aosta	65.09%	59.5
ADF	A10: Savona-Ventimiglia	70.91%	113.2
	A6: Turin-Savona		130.9
ASTI-CUNEO	A33: Asti-Cuneo	60.00%	90
AUTOVIA PADANA	A21: Piacenza-Brescia	51.00%	111.6

JOINTLY CONTROLLED ENTITIES AND ASSOCIATED COMPANIES

LICENSEE	SECTION	SHARE	KM
ATIVA	A4-A5: Tangenziale di Torino (Turin Ring Road) Turin-Quincinetto Ivrea-Santhià Turin-Pinerolo	41.17%	155.8
TE	A58: Tangenziale Esterna di Milano (Milan Outer Ring Road)	48.30%	32
SITRASB	T2: Great St. Bernard Tunnel	36.50%	12.8
SITAF	A32-T4: Frejus Tunnel Turin-Bardonecchia	36.50%	94

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN ITALY

SIAS

Autostrada A4 Torino-Milano

- 130.3 km
- 170+ bridges crossing over state and local roads, rivers and railways

Autostrada A21 Torino-Piacenza

- 167.7 km
- 146 flyovers

Autovia Padana A21 Piacenza - Brescia

- 111.6 km
- 7 stations
- 142 bridges and flyovers
- 2 interconnections with main motorways (A1, A4)

SAV A5 Quincinetto-Aosta

- 59.5 km
- 6 tunnels
- 51 bridges and flyovers, crossing one main river

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN ITALY

SIAS

Tronco A10 Savona-Ventimiglia

- 113.2 km
- 67 tunnels
- 90 viaducts
- Outdoor paving completely made of sound-absorbing drainage material

Tronco A6 Torino-Savona

- 130.9 km
- 49 tunnels
- 101 underpasses
- 208 viaducts, 81 flyovers
- 42 bridges

A11 - A12 - A15 Tronco Ligure-Toscano

- 154.9 km
- 29 tunnels
- 160 flyovers

Autostrada A15 Tronco Autocisa

- 182.0 km
- 18 tunnels
- 99 flyovers
- Characterized by complex elevation profile

Asti-Cuneo

- 55 km
- 35 km under construction
- 3 tunnels
- 24 flyovers
- 10 viaducts

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN ITALY

SIAS

SITAF

A32 Torino-Bardonecchia
T4 Traforo del Frejus

- 94.0 km
- 9 tunnels
- 45 viaducts

tangenziale esterna

A58 Tangenziale Est Esterna di Milano

- 32.0 km
- Effective rationalization of commuter traffic enhancing Great Milan's environmental quality

ATIVA

A4-A5 Tangenziale di Torino

- 155.8 km
- 2 tunnels, 3 viaducts
- 13 bridges, 1 overpass

T2 traforo del Gran San Bernardo

- 12.8 km

ASTM

MOTORWAY CONCESSIONS

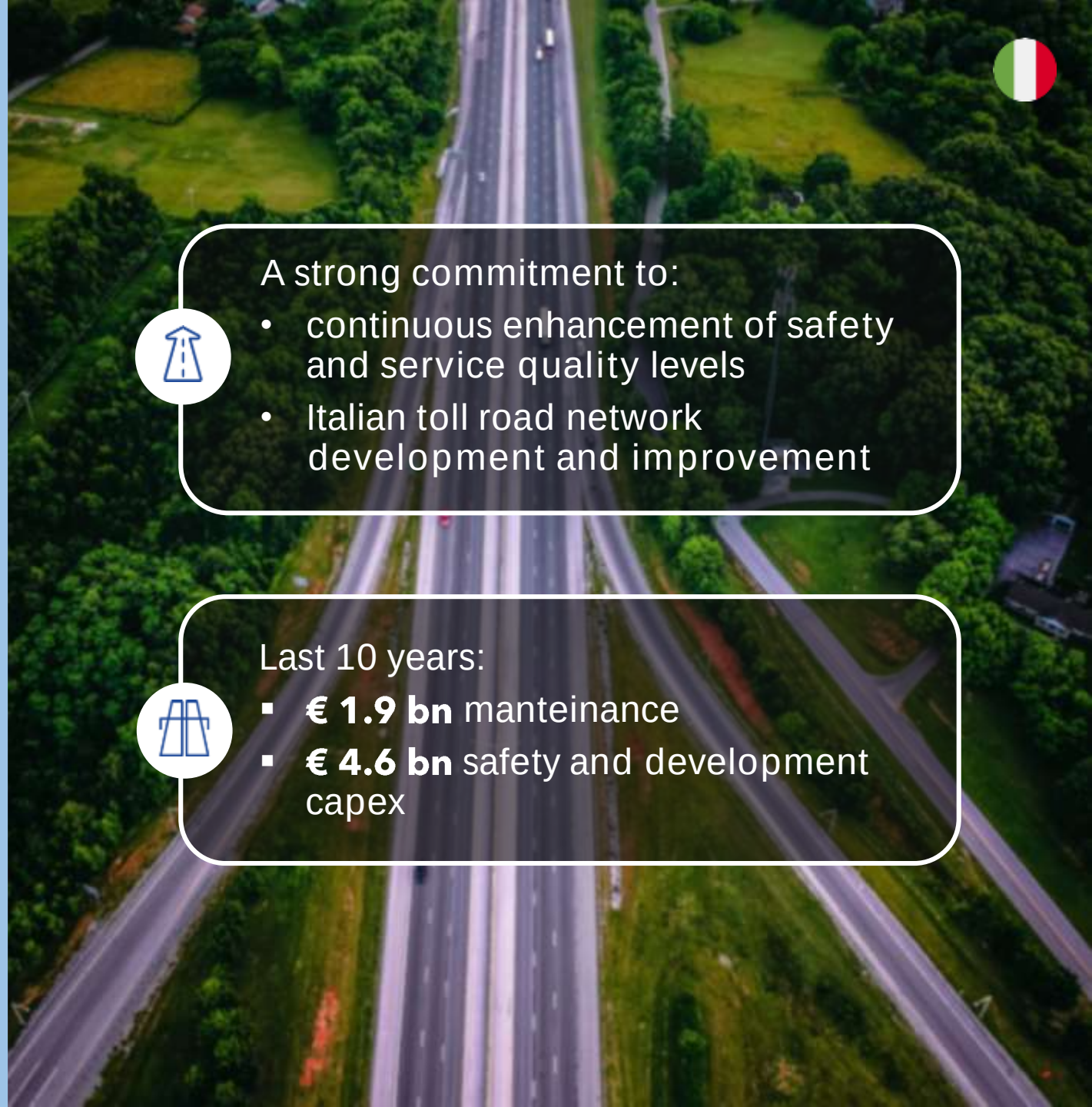
INDUSTRIAL DNA FOCUSED ON MANTEINANCE & CAPEX

- The Group has implemented an integrated monitoring process of its infrastructures status, diagnostic and maintenance planning in order to guarantee the safety, operation, stability and durability of its highways

- The Group has defined an extensive project dealing with the definition of benchmark industrial standards for the infrastructure safety through the combination of advanced techniques of civil engineering, mathematical models and specific algorithms

MOTORWAY CONCESSIONS

INDUSTRIAL DNA FOCUSED ON MANTEINANCE & CAPEX



A strong commitment to:

- continuous enhancement of safety and service quality levels
- Italian toll road network development and improvement

Last 10 years:

- **€ 1.9 bn** manteinance
- **€ 4.6 bn** safety and development capex

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN BRAZIL

ECORODOVIAS

Via SIAS and jointly with CR Almeida, the Group controls EcoRodovias Infraestructura e Logistica SA, the second biggest motorway operator in Brazil, listed on the Brazilian stock market

MOTORWAY CONCESSIONS

KEY FIGURES BRAZIL

ECORODOVIAS

$R 2.6 billion
Revenues

$R 1.7 billion
EBITDA

$R 393 million
Net income

3,742
Employees

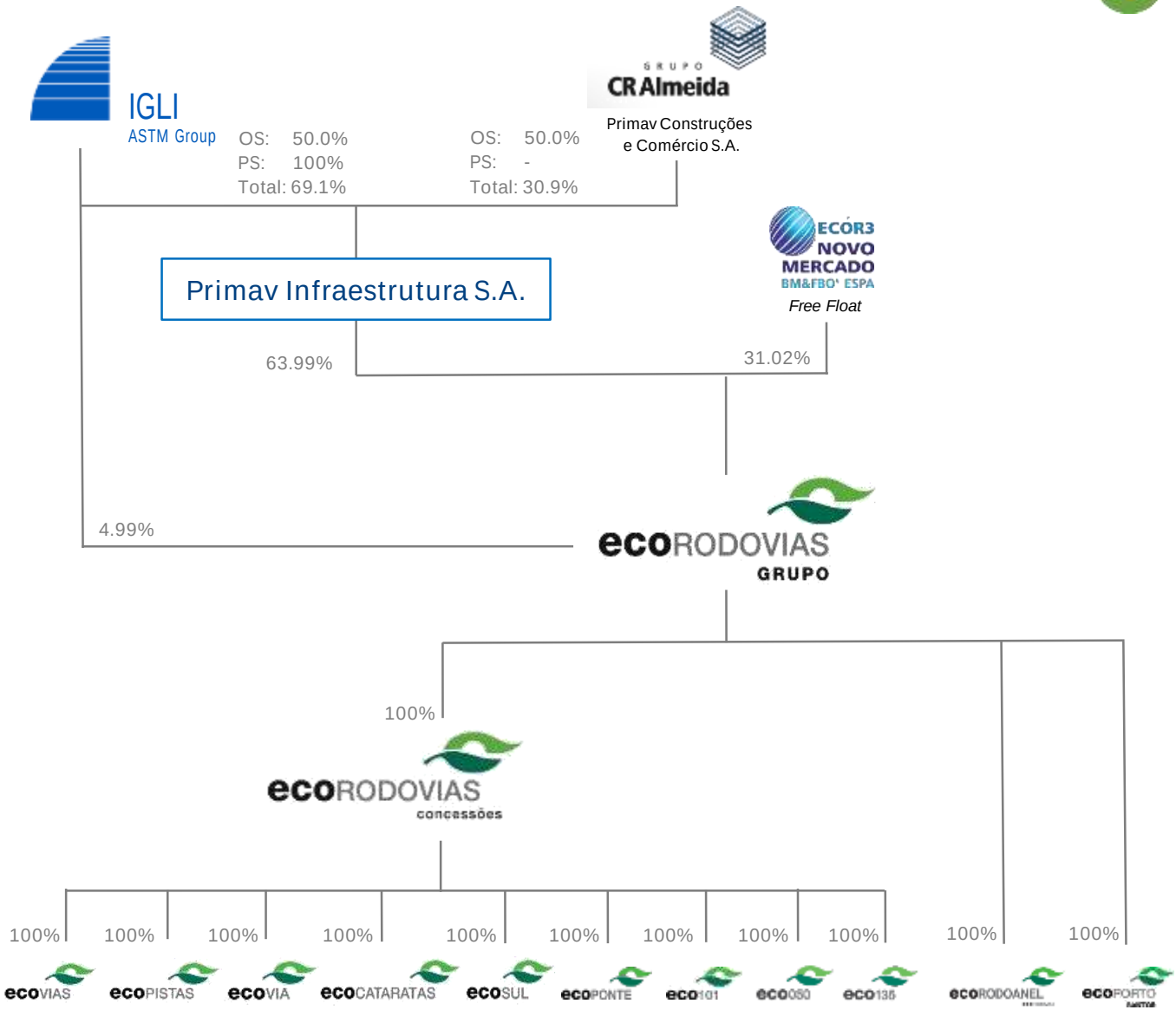
292 million
Vehicles passed through

$R 4.8 billion
Net financial position

Source: EcoRodovias 2018 Financial Statements

MOTORWAY CONCESSIONS

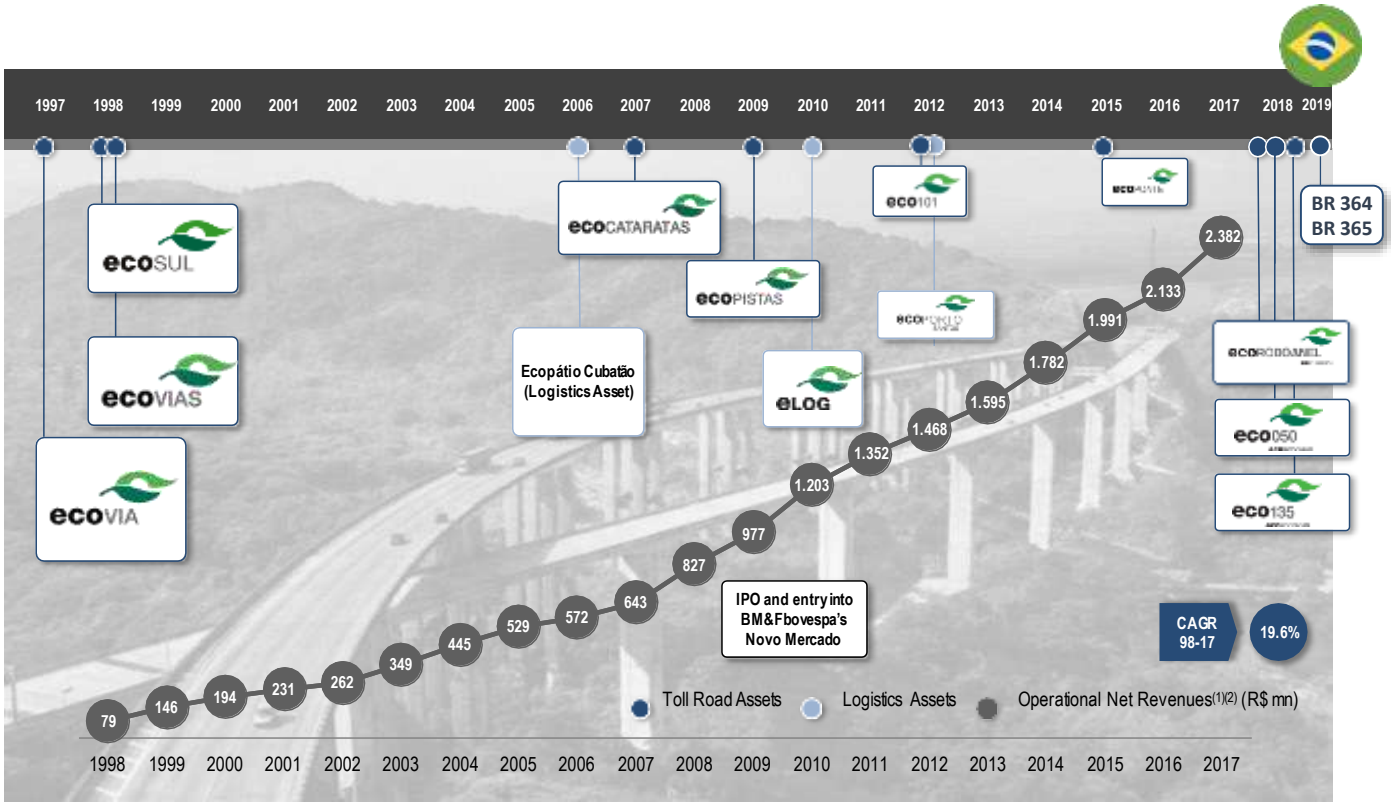
ECORODOVIAS STRUCTURE



MOTORWAY CONCESSIONS

ECORODOVIAS GROWTH

EcoRodovias is one of the main players in the infrastructure and concessions sector in Brazil, having added 11 assets to its portfolio in the last 12 years.



ASTM

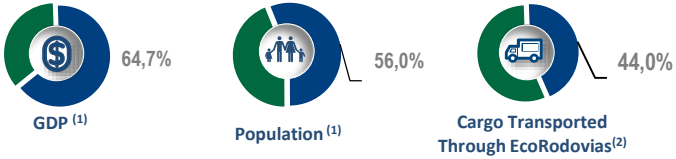
MOTORWAY CONCESSIONS

ECORODOVIAS GEOGRAPHIC FOOTPRINT

EcoRodovias portfolio includes 10 highway concessions with total of 3,087 km and one port asset (Ecoporto) in eight different states of Brazil, located in the main trade corridors in the South and Southeast regions

- 3,087 km of roads under concession
- 291.6 million equivalent paying vehicles (2018)
- Ecoporto located in Port of Santos, the largest in LatAm

Geographic footprint concentrates 2/3 of Brazilian GDP, 1/2 of the country's population, and 1/2 of all the Brazilian cargo imported and exported



Source: IBGE 2017 and Brazilian Ministry of Development, Industry and Foreign Trade
Notes:
(1) Considers the GDP and population of the states within the geographic footprint
(2) Volume share of Brazilian cargo imported and exported transported through EcoRodovias' toll roads influence zone as of 2017 (i.e. not considering Ecoponte)

ASTM

MOTORWAY CONCESSIONS

THE MOTORWAY NETWORK IN BRAZIL

ECORODOVIAS

ASTM

JOINTLY CONTROLLED ENTITIES

LICENSEE	SECTION	SHARE
ECOPONTE	Rio de Janeiro Noteroi-State of Rio de Janeiro	23.0
ECOVIA CAMINHO DO MAR	Curitiba-Porto Paranagua	137.0
ECOCATARATAS	Paranà - «Tripolborder»	387.0
ECO101	Macuri/Ba - Rio de Janeiro border	476.0
ECOVIAS DOS IMIGRANTES	San Paolo-Porto Santos	177.0
ECOSUL	Pelotas - Porto Alegre - Porto Rio Grande	457.0
ECOPISTAS	San Paolo - Vale do Rio Paraiba	144.0
ECO135	Montes Claros (Minas Gerais)	364.0
ECO050	Cristalina (Goias) - Delta (Minas Gerais)	437.0
RODOANEL NORTE	San Paolo Nortern Ring Road	48.0
BR 364 – BR 365	Jatai (Goias) - Uberlandia (Minas Gerais)	437,0

BUSINESS UNIT

EPC

ASTM

EPC

ITINERA

In the EPC (Engineering, Procurement and Construction) sector, the Group operates through Itinera, one of the leading Italian companies in terms of size, revenues and orders

Itinera is one of the key players in the construction of large infrastructural works and civil and industrial buildings.

Itinera operates both as contractor and promoter of new initiatives on greenfield Concessions

With over 2,000 employees and € 5.0 bn backlog, Itinera operates worldwide, in Europe, South Africa, the Middle East, Latin America, and the United States, where the company is present through its subsidiary, Halmar International LLC.

EPC

ITINERA

Sustainable behaviour as a key factor for the success in the global market

We work worldwide in the construction of large, complex civil infrastructure, as subways, railways, aereoports, motorways, in order to improve people life in the metropolis of the most important continents and even in the large African areas.

Itinera provides its global customers with high-quality, innovative solutions and is a leader in the field of infrastructure 4.0 projects.

We constantly work to boost our performance and to make our sustainable behaviour a key factor for the success in the global market.

EPC

BUSINESS SEGMENTS

ITINERA

- ROADS AND INFRASTRUCTURES
- RAILWAYS AND METROS
- HOSPITALS
- BUILDINGS
- AIRPORTS
- HIGHWAYS MAINENANCE

ROADS AND INFRASTRUCTURES

RAILWAYS AND METROS

HOSPITALS

BUILDINGS

AIRPORTS

HIGHWAYS MAINTENANCE

ASTM

EPC

THE INTERNATIONAL EXPANSION

ITINERA

A global geographical footprint

ASTM

EPC

KEY FIGURES

ITINERA

Source: ITINERA 2018 Consolidated Financial Statements

€633 million
Revenues
- 50% abroad
- 86% non captive

€34 million
EBITDA

€4.9 billion
Backlog

of which
65% abroad

€8 million
Net income

~2,000
Employees

EPC

MAIN WORKS IN PROGRESS

ITINERA

Roads and Infrastructure, Railways and Metros

ROADS AND INFRASTRUCTURES

ROADS

- External East Ring Road of Milan (Italy)
- Highway Junction Brescia-Bergamo-Milano (Italy)
- Highway A33 Asti-Cuneo (Italy)
- Highway Pedemontana Lombarda (Italy)
- Modernization of Highway A7 Milano-Serravalle (Italy)
- Modernization of Highway A4 Turin-Milan
- I-287 Cross Westchester Expressway-New York
- Hutchinson River Parkriver-Bronx
- Belt Parkway and Interchange over Ocean Parkway

BRIDGES & DAMS

- Marchetti Viaduct A4/A5 Santhià-Ivrea (Italy)
- Meier Bridge Alessandria (Italy)
- Storstrøm Bridge (Denmark)
- Skurusund Bridge (Denmark)
- Okavango River Bridge (Botswana)
- Kimvarer & Arror Dams (Kenya)
- Alexander Hamilton Bridge Rehab.

TUNNELS

- Frejus tunnel–Bardonecchia, Turin (Italy)
- Zogno tunnel–Bergamo (Italy)
- Avigliana tunnel, Turin (Italy)
- Brenner tunnel (Italy)
- MTA 7-Line Extension Ventilation Project

RAILWAYS AND METROS

RAILWAYS

- New building Terminal 2 Railway station, Malpensa Airport (Italy)
- High-Speed Railway Line To - Mi (Italy)
- High Speed Railway, stretch Treviglio - Brescia (Italy)
- Railway connection Terminal 1 - 2 at Malpensa Airport (Italy)
- High-Speed Railway Line Na-Ba (Italy)
- Maintenance rolling stock plant in Camnago, Monza (Italy)
- MTA Long Island Railroad Third Track
- MNR Yankee Stadium Rail Station
- NYCT Stillwell Passenger Terminal
- Kew Gardens Interchange Terminal

METROS

- Underground, Collegno - Torino Porta Nuova lot 3 line (Italy)
- Underground, Collegno - Torino Porta Nuova lot 5 line (Italy)
- Naples Line 1 Underground (Italy)
- NYCT South Ferry Terminal

ASTM

EPC

MAIN WORKS IN PROGRESS

ITINERA

Hospitals, Buildings, Airports

HOSPITALS

- New Children Hospital A. Mayer - Florence (Italy)
- "E.Agnelli" Hospital - Pinerolo, Turin (Italy)
- Enlargement of the Polyclinic Hospital - S. Donato Milanese (Italy)
- Rehabilitation Center Borsalino 2000 - Alessandria (Italy)
- Institute of Stem-cell Biology, Regenerative Medicine and Innovative Therapies, Foggia (Italy)
- "San Raffaele" Hospital - new surgical hospital and emergency center - Milan (Italy)
- Odense & Koge Hospitals - Denmark

AIRPORTS

- Terminal 1, 3 and Satellite C of Milano Malpensa Airport (Italy)
- Passengers Terminal Orio al Serio Airport – Bergamo (Italy)
- Cargo City, urbanization works at Milano Malpensa Airport (Italy)
- New Enac building with connecting walkway at Milano Malpensa Airport (Italy)
- Arrivals plan and check - in area restyling, at Terminal 1, Milano Malpensa Airport (Italy)
- Runways, aprons and hangar construction at Marco Polo Airport, Venice (Italy)
- JFK Airport (American Airlines Terminal 8 and 9, British Airways Terminal 7, Terminal 4)

BUILDINGS

- Carrefour Shopping Center «Street of Hunters», Turin (Italy)
- New Court of Justice - Vicenza (Italy)
- University Residence in Turin (Italy)
- Tobacco Factory Milan Lots A and B (Italy)
- Aquarium of Genoa - new dolphin pool (Italy)
- Reem Mall – Abu Dhabi)
- Shopping Center of Arese, Milan (Italy)
- Multifunctional center for Programme Agreement ex FIAT/Alfa Romeo in Arese and Lainate - Milan (Italy)
- New University Campus Einaudi, Department of Political Science and Law - University of Turin (Italy)

ASTM

EPC

US MARKET:

HALMAR INTERNATIONAL

The US market offers considerable potential, represented by complex works with significant added value, where experience, skills and technological innovation are seen as key factors in success and competitiveness.

Itinera operates in the USA market trought Halmar International, one of the leading construction companies operating in the New York City area.

This operation enables the Group to develop its activities in the US, both as an EPC Contractor (Engineering, Procurement & Construction) and through the development of existing Private Public Partnership (PPP) infrastructure programmes, through the know-how and qualifications gained by the Group in Italy and around the world in the design, implementation and management of highly complex projects.

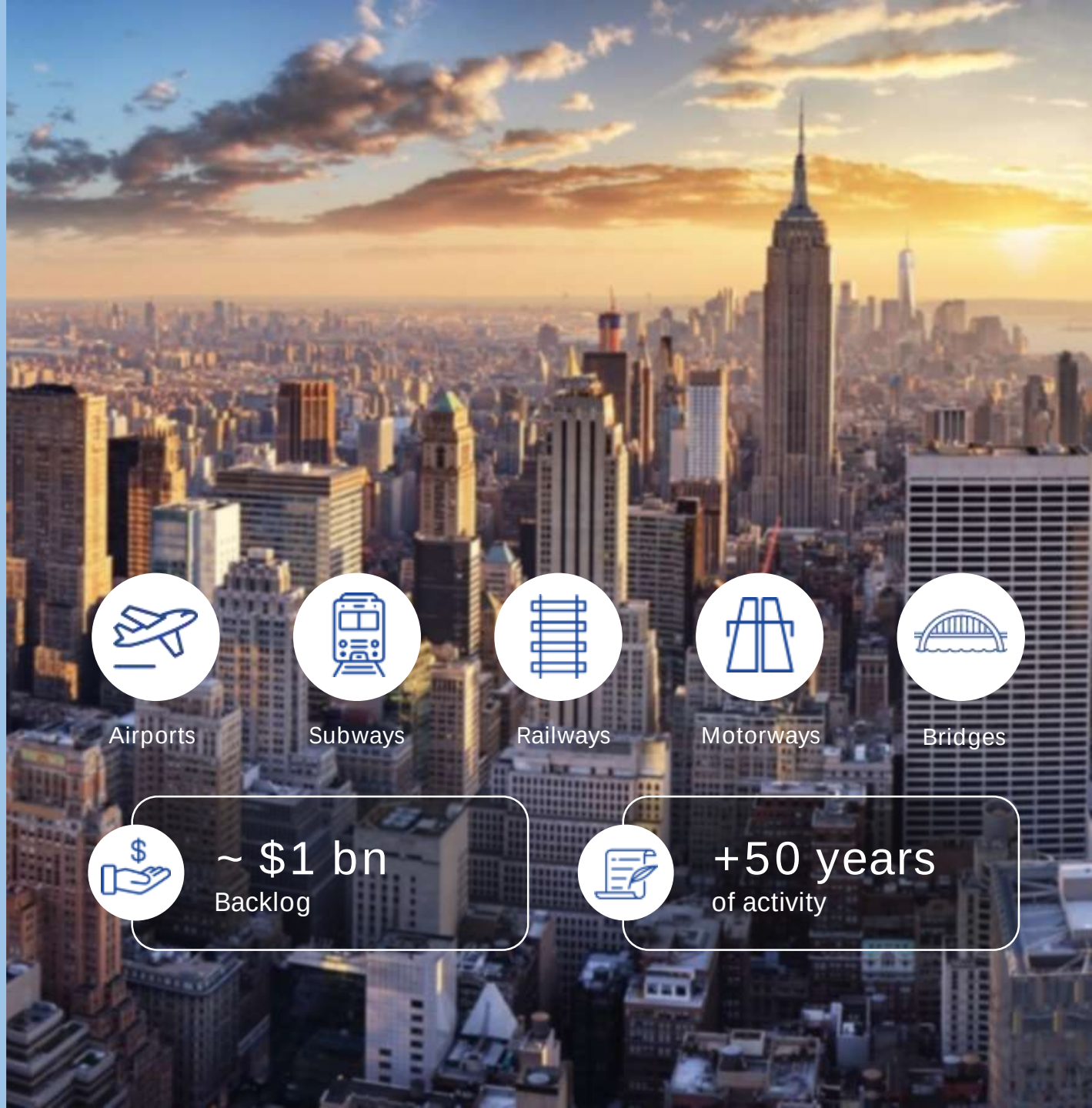
EPC

US MARKET:

HALMAR INTERNATIONAL

Leader in the realisation of Design-Build projects.

One of the top 5 construction companies in the New York City area.



ASTM

EPC

US MARKET:

HALMAR INTERNATIONAL

HALMAR International

$20 BILLION ANNUAL LOCAL MARKET

20% INDUSTRY LEADING CAPTURE RATE

54 YEARS OF PROVEN PERFORMANCE

1st RANKED LOCALLY OWNED TRANSPORTATION CONTRACTOR

Targets

- Develop strategic activities in the USA (EPC, PPP)
- Develop special competences on steel bridges and deep foundations
- Create value thanks to major national projects: tunnels, rails and bridges

Main Clients

- New York Department of Transportation
- New York City Transportation
- Washington Metropolitan Area Transit Authority
- Metro North Rail
- New York State Thruway Authority
- Army Corporation
- Port Authority New York - New Jersey
- Long Island Rail Road
- New Jersey Transit
- New Jersey Transport Authority
- New Jersey Department

EPC

BRAZILIAN MARKET: ITINERA COSTRUÇÕES

Itinera also operates in Brazil through its subsidiary Itinera Costruções

Project: ASANTOS – GUARUJÀ BRIDGE (Brazil - South America)
Client: Ecovias
JV: ITINERA CONSTRUÇÕES LTDA. (50% Leader) - CRASA INFRASTRUTURA S.A. (50%)

Description

Design Coordination and Construction of the Santos - Guarujá Bridge. The Project consists of 7.8 Km of dual carriageway bridge and 11 Km of access roads. The main structure is a Cable-stayed bridge with length of the central span of 305m and width of 32m. The deck is at 85 m above the channel and the masts height is 168m. The superstructure of the access ramps to the Cable-stayed bridge are partly box girders (balanced cantilever method) and partly with precast beams. All the structures are made of concrete.

Program dates

Contract award date (estimated)	Nov. 2019
Commencement date (estimated)	Jan. 2020
Contract completion date (estimated)	Dec. 2022
Contract duration	36 months

Total contract value
€ 640 million

EPC - MES

EUROIMPIANTI

Euroimpianti is the company that manages installation projects both in captive and extra-captive markets.

Main activities are value and cost engineering, procurement for supply and subcontracts, construction of installations.

EPC - MES

EUROIMPIANTI

Installations for external clients (extra-captive)

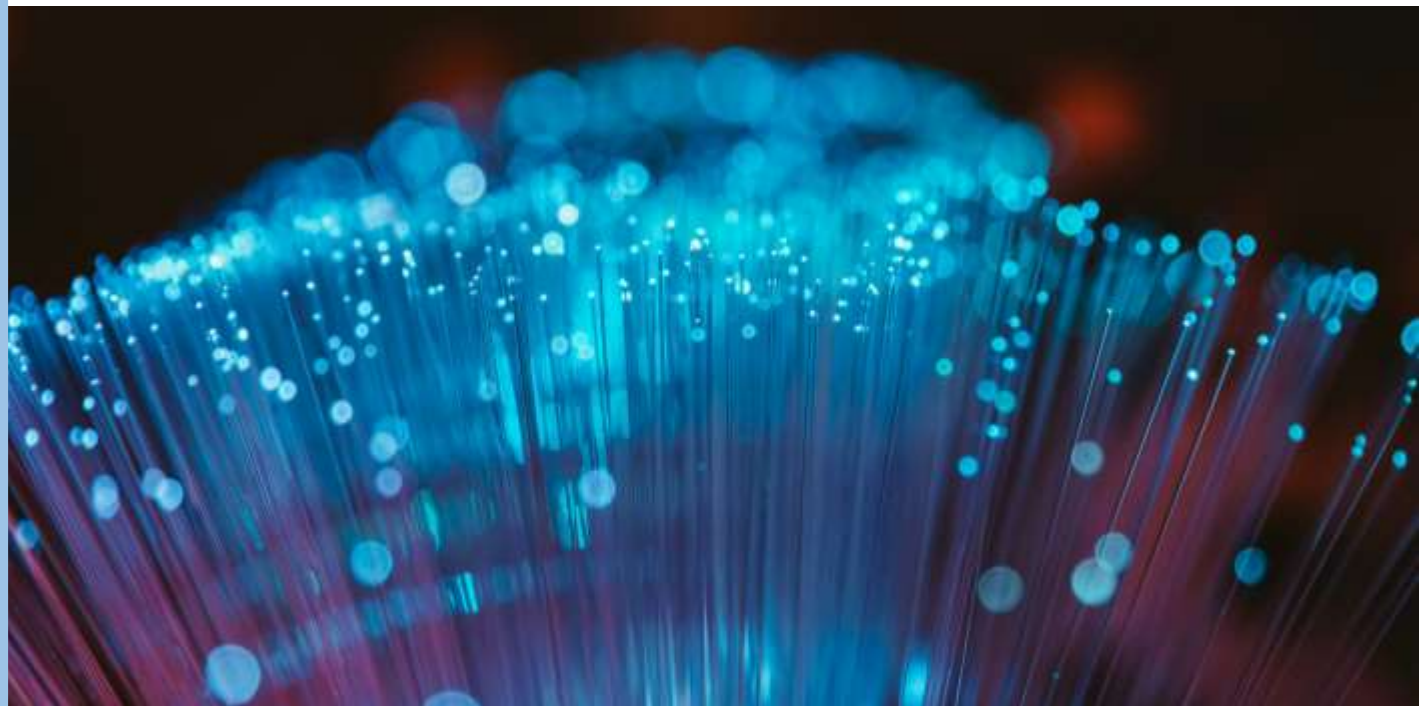
- Design of installations in the area of civil, commercial, industrial, energy efficiency, hospital installations, also in collaboration with Itinera

Global service and installations (captive)

- Design, set up and global service of technological installations (electrical, thermal and mechanical and SCADA – Supervisory Control And Data Acquisition), to serve infrastructures

Electrical cabinets, services and public lighting

- Design and production of electrical cabinets
- Development and implementation of new technologies in the field of public lighting



EPC - MES

KEY FIGURES EUROIMPIANTI

- **€34M** Revenues
- **€71M** Backlog

- 35% captive highways
- 65% other business

- 121 Employees

Operates in Italy, France and Romania

- Created in 1982 and acquired by SIAS in 2003

- ~10 certifications including ESCo (Energy Service Company)

ASTM

EPC - MES

EUROIMPIANTI

Activities focus mainly on installation for external clients

What we do

Installations for external clients (extra-captive)

- Design of installations in the area of civil, commercial, industrial, energy efficiency, hospital installations, also in collaboration with Itinera

Global service and installations (captive)

- Design, set up and global service of technological installations (electrical, thermal and mechanical and SCADA - Supervisory Control And Data Acquisition), to serve infrastructures

Electrical cabinets, services and public lighting

- Design and production of electrical cabinets
- Development and implementation of new technologies in the field of public lighting

EPC - ENGINEERING

SINA

Design and planning are key factors for operators in the transport and mobility sector.

ASTM Group carries out these activities through its subsidiary SINA, which boasts an impressive international track record.

SINA is the engineering company of the Group and since 1962 supports Concessions for the study and promotion of new infrastructures, as well as during the construction and the asset management

EPC - ENGINEERING

KEY FIGURES SINA

Source: SINA 2018 Financial Statements

€ 37 million
Revenues

€ 3 million
EBITDA

€ 55 million
Backlog

236
Employees

- Among the top 5 engineering companies in Italy
- Best in class in infrastructure monitoring and preservation

ASTM

EPC - ENGINEERING

KEY ACTIVITIES
SINA

Roads / Highways

Bridges / Tunnels

Railways

- Investment Planning, Design, and Work Supervision
- Infrastructure Monitoring and Preservation
- Health Safety & Environment
- Technical Support in Tender and Contract Management
- Research & Development

SINA chair of the World Road Association
for programs and policies on road safety

SINA member of the European ITS Platform
with the role of Project Manager

EPC - ENGINEERING

SINA

A strategic asset for the ONE COMPANY to:

- monitor and preserve the **Group's** infrastructural assets
- support the realization of the Group investment plan

Competitive, thanks to:

- lean organization and key engineering competencies
- strong know-how in the infrastructure sector
- best-in-class technologies and digitalization of processes

Competing into the extra-captive Italian market and, in a second phase, will expand into the international market

BUSINESS UNIT

TECHNOLOGY

ASTM

TECHNOLOGY

SINELEC

Sinelec is a leader in the research, design, installation and maintenance of advanced systems for managing data regarding mobility and transport, collected at the company's Data Center and analysed using Advanced Analytics models.

The company's main activities are connected to ITS (Intelligence Transport Systems), to cutting-edge toll collection systems (in line with European directives) and to telematic systems for monitoring traffic and increasing safety, with a particular focus on the development and implementation of new technologies dedicated to vehicle safety and assisted driving.

The company has its own WAN (Wide Area Network) telecommunications network, and creates the infrastructures, ICT services and information systems for Group companies.

TECHNOLOGY

SINELEC

Activities focus on ITS, ICT and digital

To win in today's market

and to be ready for the future

ASTM

TECHNOLOGY

ITS KEY COMPETENCES SINELEC

End-to-end Technology Solution Provider

800 toll gates

+20 developers in R&D

11 Operational Control Centers

€2B tolls/yr processed (500M vehicles/yr)

Infrastructure Maintenance and monitoring	Electronic tolling	Traffic Management	Safety Management	Traveler Information
▪ Infrastructure monitoring (sensor, cameras) ▪ Winter operations support ▪ Weather data collection processing and dissemination	▪ Gate automation ▪ Field equipment ▪ Vehicles identification and classification ▪ Enforcement solutions ▪ Operational back-office systems	▪ Operational control center ▪ Traffic metering ▪ Data collection (sensors, cameras, radar) ▪ Data integration	▪ Automated Incident Detection ▪ Video surveillance ▪ Tunnel safety systems ▪ Weight in Motion ▪ SOS Coverage ▪ Variable Messaging systems ▪ ISO-frequency radio coverage	▪ Pre-trip travel information (real-time flow condition,..) ▪ En-route driver information ▪ Smart parking ▪ Traveler information services

TECHNOLOGY

ICT KEY COMPETENCES SINELEC

Hybrid Cloud enabled main Data Center

19 managed IT infrastructures, +50 firewalls

+25 IT & Application specialist

3,000 managed workstations, +10,000 help desk calls/yr

2,000 Km Optical fiber network

Networking
Data Center
Hybrid Cloud infrastructures
Value Added IT Services
Cybersecurity

Planning, development and deployment of Group-wide Information systems: ERP, Business Analytics and governance Systems

Planning, development and deployment of Core Business IT platforms

ISO/IEC 27001:2015 Certification

ASTM

TECHNOLOGY

SUPPORT COMPANY DIGITALIZATION JOURNEY SINELEC

Harmonize and Innovate end-user experience

DIGITAL CORE SERVICES

- Platform as-a-service (Cloud)
- Unified Communication & Collaboration
- Wired and wireless connection for mobility workplace
- Cyber-security (Identity Management, Data Loss Prevention, …)

Improve Governance and increase efficiency

DIGITAL SOLUTIONS FOR MANAGEMENT AND SUPPORT PROCESSES

- Enterprise Risk Management
- Corporate Performance Monitoring
- Enterprise Resource Planning (ERP)
- Centralized HR
- E-Procurement

Optimize performance and increase competitiveness

DIGITAL SOLUTION FOR BUSINESS PROCESSES

- Integrated platform for project Management – BIM Ready
- IOT solution for Infrastructure and vehicles monitoring
- AI for continuous operations improvements
- V2X communication solution

TECHNOLOGY

KEY FIGURES
SINELEC

€56M Revenues
€13M EBITDA
€88M Backlog
€61M Expected orders

80% captive
20% extra-captive

289
Employees

€50M+ worth public tenders awarded

Source: SINELEC 2018 Financial Statements

ASTM

ASTM
READY TO FACE ALL
NEW CHALLENGES