

# Partnering for the future of aviation





# about Egis

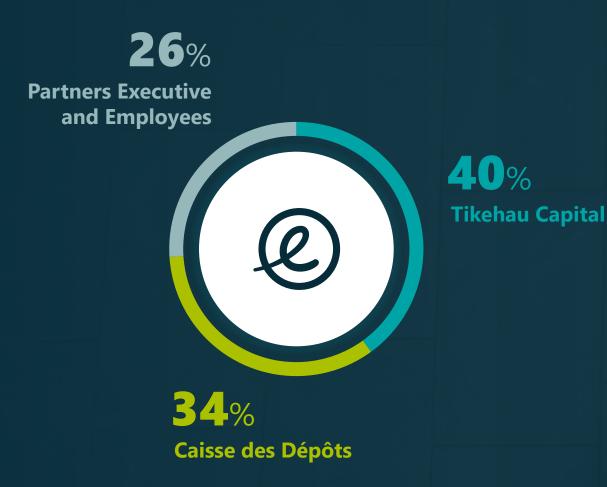


Egis is an international player active in the consulting, construction engineering and mobility service sectors.

We design and operate intelligent infrastructure and buildings capable of responding to the climate emergency and helping to achieve more balanced, sustainable and resilient territorial development. With operations in 120 countries, Egis places the expertise of its 16,000 employees at the disposal of its clients and develops cutting-edge innovation accessible to all projects. Through its wide-ranging fields of activity, Egis is a central player in the collective organisation of society and the living environment of citizens all over the world.



## our shareholder structure





# our global offer

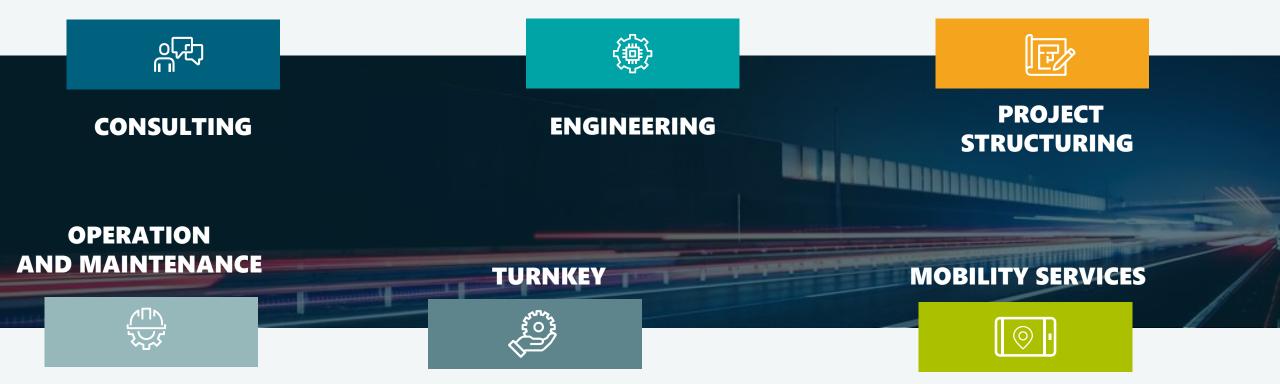


## FIELDS OF ACTIVITY UNDERPINNED BY CROSS-GROUP AREA OF EXPERTISE

ENVIRONMENT - MOBILITY AND SYSTEMS - GEOTECHNICAL & COMPLEX STRUCTURES - DIGITAL

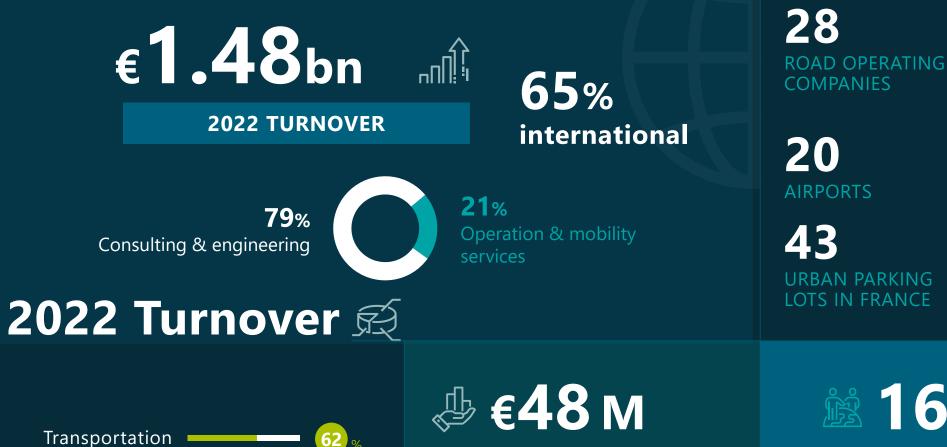


# along the entire value chain of projects









ENR 21<sup>st</sup>

ENGINEERING NEWS RECORD GLOBAL RANKING

**1 st** FRENCH ENGINEERING COMPANY

8<sup>th</sup>

IN TRANSPORTATION MARKET

Energy & Sustainable 38 % Cities 2 E4O IVI DISTRIBUTABLE NET PROFIT 2022 €176M EBITDA **16,000 EMPLOYEES** IN THE WORLD

74% Consulting & engineering 26% Operation & mobility services

## our values





# climate emergency, our absolute priority





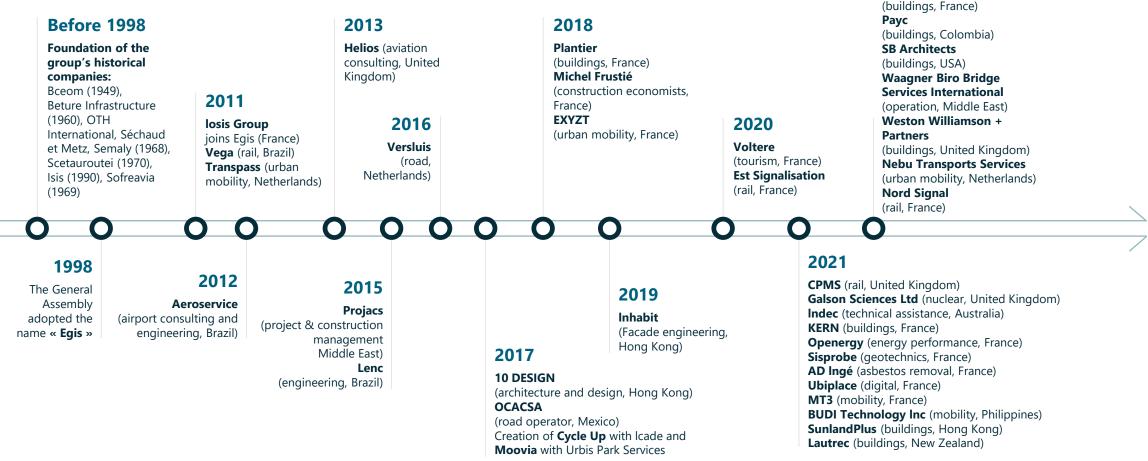
# a local international player



Markets and services

# **Impact the future**

Over its 70-year history. Egis has brought together the expertise of companies specializing in various sectors of activity, in France and abroad.





2022

WME

AG Concept

(consulting, Middle East)

# our flagship innovations follow 4 main themes





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→ All our innovations in the 2020 book "50 innovations by Egis"



– Saudi Arabia – DIRIYAH SOUTH & GARDENS DISTRICTS



- Chile -

SANTIAGO METRO

Systems project management assistance for the new line 7 of the Santiago metro -100% automatic, 26 km, 19 stations

# GARDENS DISTRICTS



Project Management Consultancy services to a part of DGDA's retail and heritage masterplan (Diriyah Gate Development Authority) – Philippines – UNDERGROUND METRO

**IN MANILA** 



Major contract to design and equip the country's first underground metro line - 35 kilometres, 15 stations

## – Romania –

WATER SUPPLY AND SANITATION IN SATU MARE COUNTY



Development of the water and wastewater infrastructure, for safeguarding access to clean drinking water for as many localities as possible

## – Baltic States –

RAIL BALTICA FUTURE HIGH-SPEED RAIL



Rail Baltica European High Speed Line Project engineering contract to prepare, procure and supervise Rail Baltica Control-Command and Signalling subsystem deployment

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– France –

#### ON-STREET PARKING IN MONTPELLIER



5-year contract with the city of Montpellier (Transports Agglomération de Montpellier (TaM)) for the supply of an overall solution to automatically enforce on-street parking – United Kingdom – GREATER MANCHESTER

**CLEAN AIR ZONE** 

5-and-a-half-year contract

to deliver the UK's largest

Clean Air Zone, to secure

healthy and sustainable

growth

– France – NEW TRAMWAY LINE



Project management for the 4<sup>th</sup> tramway line in the Nice metropolitan area which will link Nice, Saint-Laurent-du-Var and Cagnes-sur-Mer – Peru – STRATEGIC ROAD PROJECTS



Technical Assistance and PMO services for 10 years supporting the construction of 2 strategic road projects for the economic development of the country – Uganda –

#### TOLL ROAD OPERATION AND MAINTENANCE



Operation and maintenance of the first toll road in Uganda. The Kampala-Entebbe Expressway (2x2 lanes) with a total length of 26.2 km includes 3 toll plazas at each entrance and 17 toll lanes

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– France –

CANAL-SEINE NORD EUROPE -



Comprehensive programme management contract for the two main sectors: 107 km of waterway 6 locks 4 canal bridges 61 road and rail bridges 4 multimodal platforms...



– Bangladesh – DHAKA METRO LINE 5 SOUTH



A new design contract for the first underground metro line in the country: 15 km long 12.8 km is underground 4.6 km of viaducts, includes 15 stations

## – Hong-Kong –

HONG KONG AIRPORT THREE-RUNWAY SYSTEM



Consultancy on procurement, design, safety assessment, cutover and transition of new and upgraded/replaced ANS equipment; as well as onsite technical assistance during installation, integrationand transition -20 engineers and experts involved

## Monaco – NEW THERMO-FRIGORIFIC PRODUCTION PLANT



Project management for the construction of the heating and cooling production plant within the industrial base (project for the development of the SNCF wasteland on the Charles III block)

## – Brazil –

#### SÃO PAULO STATE RAILWAY NETWORK



Environmental management, delivering 25 neighborhood impact studies on the São Paulo state railway network under concession from the client, with an extension of 1,989 kilometers



– Israel –
TEL AVIV METRO



Network Management of Tel Aviv Metro, the largest infrastructure project ever undertaken in Israel with 3 lines, 150 km, and 109 stations

## – Saudi Arabia – AL ULA PROJECT



Strategic partnership between the RCU and the French consortium led by Egis for accelerating the development of Al Ula (Medina Region)

## – Egypt – **CAIRO METRO**



MOU with the National Authority for Tunnels (NAT) for Greater Cairo metro line 6 studies

## United Kingdom (Scotland) – ROAD MANAGEMENT



5-year contract to operate, with IBI Group, the Traffic Scotland National Control Centre and manage the Scottish Trunk road network (3,500 km of roads including the key inter-city motorways

## – France – DEVELOPMENT OF THE ATHLETES' VILLAGE WITH SOLIDEO



Project management of all the public spaces hosting the Athletes' Village in the municipalities of Saint-Denis and Saint Ouen-sur-Seine



# prestigious awards received

International –

DESIGNER OF THE YEAR AWARD



for Egis at the "Infrastructure and Construction Diamonds" gala in Poland – France – EMPLOYEE PREFERRED



Egis placed 2nd among the companies preferred by engineering and control employees in Capital Magazine's 2021 ranking. – International – DNA PARIS DESIGN

AWARDS



PARIS DESIGN AWARDS 2021

Two 10 Design projects awarded: "Pengcheng Laboratory Park Phase 1" in Shenzhen and "International Service Center" in Jinwan

## – France – CTBUH AWARDS 2021



Two Awards of Excellence for 10 Design for the Saint-Gobain Tower in Courbevoie. Award of Excellence for the best building between 300 and 399 meters high for Zhuhai Tower in China

#### – France –

#### INFRASTRUCTURES AWARD FROM IDRRIM



"Infrastructures for Mobility, Biodiversity & Landscape" award from IDRRIM for nesting boxes integrated into the acoustic barriers of the A480 motorway

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# delivering end-to-end services in aviation for over 50 years

## INTEGRATION & OPERATIONAL SUPPORT

## MANAGEMENT, OPERATIONS & DEVELOPMENT

Operations

Consultancy

LONG-TERM DECISION-MAKING & STRATEGY

PROJECT PLANNING & DEVELOPMENT

Engineering

PROJECT & CONSTRUCTION MANAGEMENT

DESIGN & ENGINEERING

02. Aviation

## Egis are leaders in optimising the future of aviation

## BRINGING PROJECTS TO LIFE AT EVERY STAGE

From business strategy, to performance, through to planning, designing, operating and maintaining sustainable infrastructure.

## DEMONSTRATED EXPERTISE

↓

50 years' experience delivering airport and ATM projects across the globe.

## MORE THAN AIRPORT EXPERTS

As leaders in Air Traffic Management, clients trust that the solutions we provide consider the entire airport operational environment, from ground to air.

## UNIQUE UNDERSTANDING OF THE AIRPORT ENVIRONMENT

Award-winning consultants and engineers, also operating airports for more than 30 years.

02. Aviation

# our strategic priorities

## SUSTAINABILITY

FUTURE AIR MOBILITY DIGITALISATION & CYBERSECURITY



# providing consultancy, design and engineering to all aviation stakeholders

- Airport Operators & Developers
- Air Traffic Management Stakeholders
- O Institutions & Governments
- Design & Construction Firms
- Aircraft & System Manufacturers



# today's aviation challenges

## **O** CLIMATE CHANGE

Implications for my business? How to reduce environmental footprint? How to build resilience to climate impacts?

## **O** POPULATION GROWTH & URBANISATION

What strategy for the future? Infrastructure requirements? How to prepare for drones and UAM?

## **O** OPERATIONAL EFFICIENCY

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Immediate priorities? How to deliver better returns? New business models / partnerships?



# supporting airports, from concept to operation LONG-TERM-DECISION-MAKING, & STRATEGY MANA<mark>G</mark>EMENT OF OPER Perlepasan Dalam Negeri Operations Consultancy **OPERATIONAL CONSULTANCY** TECHNICAL ASSISTANCE Engineering PROJECT & CONSTRUCTION MANAGEMENT AIRPORT / AIRSPACE DESIGN & ENGINEERING

# deep sector knowledge & operational experience



# flagship airport projects in France



#### TOULOUSE-BLAGNAC AIRPORT

#### **AÉROPORTS DE PARIS**



Framework agreement to support Groupe ADP in the management of its airport IT systems projects



Master plan, capacity analysis, and recommendations on development and long-term strategy.

Engineering, procurement and construction management of main runway and taxiways refurbishment Read more





Project management (design phase) of new baggage handling system in terminals 2, 3

#### CLERMONT-FERRAND AUVERGNE AIRPORT



Airport development strategy to 2030

#### **COLLECTIVITÉ DE CORSE**



Master Plan for the development of 4 airports on the island of Corsica: Ajaccio, Bastia, Calvi, Figari

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# flagship airport projects in Europe



## - IRELAND-DUBLIN AIRPORT



Advisor for over 10 years on capacity assessment and analysis related to proposed capital expenditure projects





Airport terminal master plan, traffic forecasts and infrastructure development scenarios to plan for and anticipate future expansion



Capacity assessment of airspace, airport airside, cityside and terminal – CYPRUS – LARNAKA / PAFOS AIRPORTS



ORAT, change management and operational support

## – UK – GATWICK AIRPORT



Advisor since 2016, reducing the impact of aviation noise on local communities <u>Read more</u>



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# flagship airport projects in the Middle East



### - SAUDI ARABIA -SAUDIA AIRLINES



Provision of ORAT consultancy for Saudia ahead of its move to a new hub terminal at Jeddah Airport



Project management consultancy of a major cargo hub in the Middle East. Providing a flexible cargo infrastructure with phased options to accommodate future growth. <u>Read more</u>

## -UAE-DUBAI AIRPORTS



ORAT support, technical and operational support during the closure of north runway, airport capacity studies and business continuity studies – SAUDI ARABIA – KING KHALID INTERNATIONAL AIRPORT (KKIA)



Riyadh Project management consultancy (PMC) services for airside projects

## - SAUDI ARABIA -AMAALA AIRPORT



Concept masterplan, aeronautical study, concept and schematic design of a greenfield airport infrastructure, project and construction management, and ORAT services



# flagship airport projects in APAC/India

- CAMBODIA -

AND PHNOM PENH

**AIRPORTS** 

Technical assistance for

runway overlay



- INDONESIA -WORLD BANK GROUP



Jakarta Airport PPP Technical Advisory

- INDIA -DRAL



Architectural/engineering design and site supervision for final assembly lines for Falcon jets in Nagpur

– INDIA – **AIRPORT AUTHORITY OF INDIA** 



Project management consultancy for construction of new integrated passenger terminal including city-side development works

- CHINA -**AIRBUS SAS** 



Development of technical *functional program, concept* design and site supervision for completion and delivery center



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# flagship airports projects elsewhere in the world



- COTE D'IVOIRE-ABIDJAN INTERNATIONAL AIRPORT



Soil.is Environmental analysis and action plan relating to carbon soil sequestration techniques <u>Read more</u>

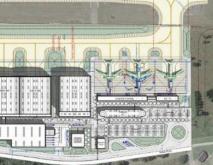




Main ORAT consultant



– USA –



Development of technical functional program and architectural/engineering concept design for the final assembly line in Mobile, Texas

and the second se

- PANAMA -TOCUMEN AIRPORT



ORAT consultancy and project management for the new passenger terminal building at Tocumen International Airport

– CHAD –

#### DJERMAYA INTERNATIONAL AIRPORT



Design studies of the new Djermaya International Airport



# ATM & Institutions

# 04.



## value added across the whole ATM cycle

## PROGRAMME MANAGEMENT, OPERATIONS & DEVELOPMENT

Experienced support in managing and monitoring the operational performance of the ATM system with a focus on maintaining safe and efficient operations.

# SYSTEM IMPLEMENTATION & TRANSITION TO OPERATIONS

Experienced management support and informed technical assistance for integration, validation and deployment of ATM system change. Operations

Consultancy

Engineering

## LONG-TERM DECISION MAKING, STRATEGY AND R&D

Independent advice on future ATM transformation and the latest technology and concepts, from business planning, masterplans and CBAs to CONOPS definition and regulatory approach.

## OPERATIONAL & TECHNICAL SYSTEM DEFINITION & DESIGN

Trusted technical expertise in deriving operational, functional, safety and performance requirements for ATM system development and procurement.

# supporting decision-making

## **IN-DEPTH MARKET UNDERSTANDING**

Independent, trusted counsel and nuanced analysis to advise on aviation matters, including investments and due diligence

## **TRUSTED TECHNICAL EXPERTISE**

Delivering training and 'capacity building' on safety standards, regulations and best practice, from state safety programmes to airworthiness and legislation

## **EXTENSIVE MANAGEMENT EXPERIENCE**

Delivering large, complex, multi-disciplinary, multi-stakeholder framework contracts in international environments



04. ATM & Institutions

# flagship projects for ATM & Institutions in France

**DSNA** 

SESAR PJ34 (AURA)

Support to the specification

and validation of a SWIM-

based interface between UTM

and ATM



**DSNA** 



4-FLIGHT System consulting and *engineering for five en-route* control centres. Delivering a *brand-new system to improve* the resilience and performance of air traffic management in France. Read more

## **DGAC-DSNA**



Assisting with operational concept development and validation of new ATS solutions (A-SMGCS, ATC tools, CDO, Free-Route) on SESAR R&D projects and very large-scale demonstrations

#### AIRBUS

**DSNA** 

SYSAT

Technical assistance with the

definition and design of an

advanced air traffic

management system for

control towers and approach control centers in Paris and mainland France Read more



Fello'Fly Advising on ACAS compatibility with Airbus Formation Flight

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# flagship projects for ATM & Institutions in Europe

– EUROPE –

**EUROPEAN DEFENCE** 

AGENCY

Development of quidelines on

the implementation of U-

space and its impact on military missions and

operations



– BELGIUM –



Support to the implementation of remote Digital Towers at Liege and Charleroi airports for Skeyes, the air navigation service provider





Consultancy, training and management support on SESAR2020 projects – UNITED KINGDOM – UKRI FUTURE FLIGHT CHALLENGE



Safety framework addressing the full aviation system using complex systems theory and bowtie analysis, centered on drones and future urban/regional air mobility Read more – EUROPE – SESAR JOINT UNDERTAKING (SJU)



Major study on cybersecurity of the future SWIM-enabled European ATM system



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# flagship projects for ATM & Institutions in APAC/India



-VIETNAM-VIETNAM AIR TRAFFIC MANAGEMENT CORPORATION



Technical design for Long Thanh ATC Tower - one of the tallest ATC towers in Southeast Asia

#### -SINGAPORE-CIVIL AVIATION AUTHORITY OF SINGAPORE



Consultancy on Airport Systems -HONG KONG-

HONG KONG CIVIL AVIATION DEPARTMENT (CAD)



Technical assistance in the fields of system engineering and safety covering ANS equipment upgrade and procurement for Hong Kong 3RS project

Design of Air Traffic Control Towers at Port Moresby & Goroka Airports

– PNG –

NATIONAL AIRPORT

**CORPORATION** 

Capacity building and institutional strengthening for DGCA and AAI

- INDIA -

**INDIAN MINISTRY OF CIVIL** 

**AVIATION** 



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# flagship projects for ATM & Institutions elsewhere in the world



#### – CANADA – NAVCANADA



Identifying opportunities to alter airspace, reduce community noise exposure and improve efficiency in Toronto Airspace



Project management consultancy for the implementation of the Saudi Future Airspace Concept; safety and business continuity activities and crisis management advisory – CAPE VERDE –

EMPRESA NACIONAL DE AEROPORTOS E SEGURANÇA AÉREA (ASA)



Developing a plan for airspace, ATM/CNS infrastructure and operational change, in anticipation of future traffic levels and emerging regulatory requirements

# COMESA

- AFRICA-

Technical and financial feasibility study of a unified single upper airspace in the COMESA region (eastern and southern African countries)

## – SAUDI ARABIA –



Assistance to ATC systems integration at KAIA Airport

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