

General Introduction



Engineering further

Discover ERAS



Our mission

To deliver Engineering & Consulting services for leading clients in Industry.

Sectors

ERAS is mainly active in Chemical, Pharmaceutical, Energy and Food & Beverage Industry sectors, in France and abroad.

Capabilities

With a team of 350 people, ERAS is delivering a large range of services from Consulting to medium scale and fast track projects including process studies.



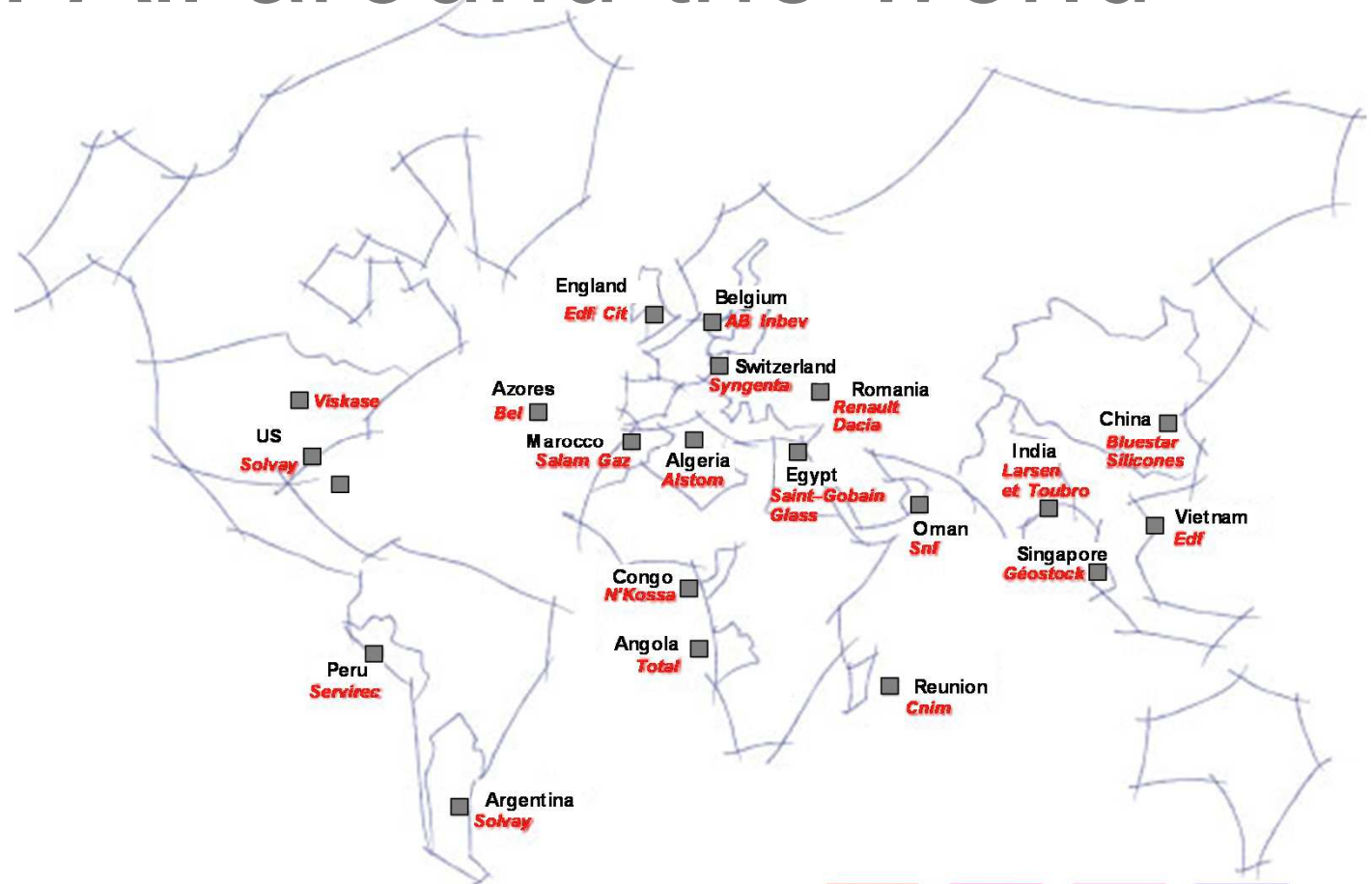
Closer to you



**16 offices
in France
and abroad**



... All around the world



*Following your
projects*

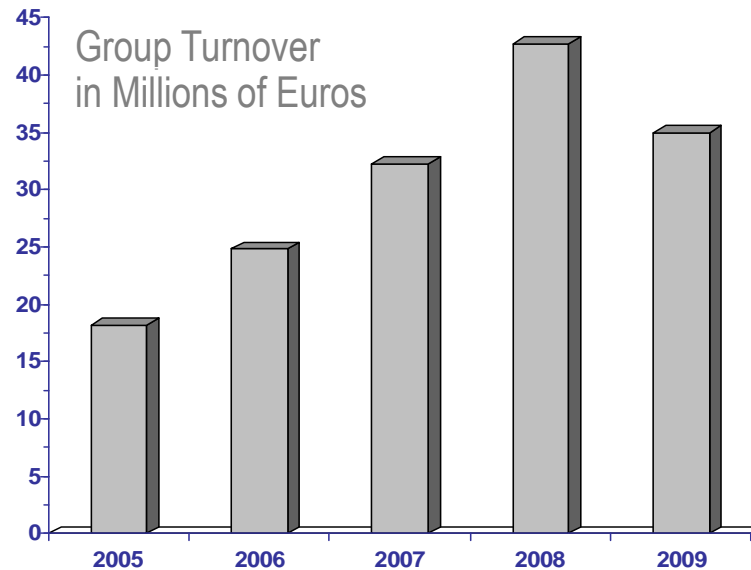


Identity card

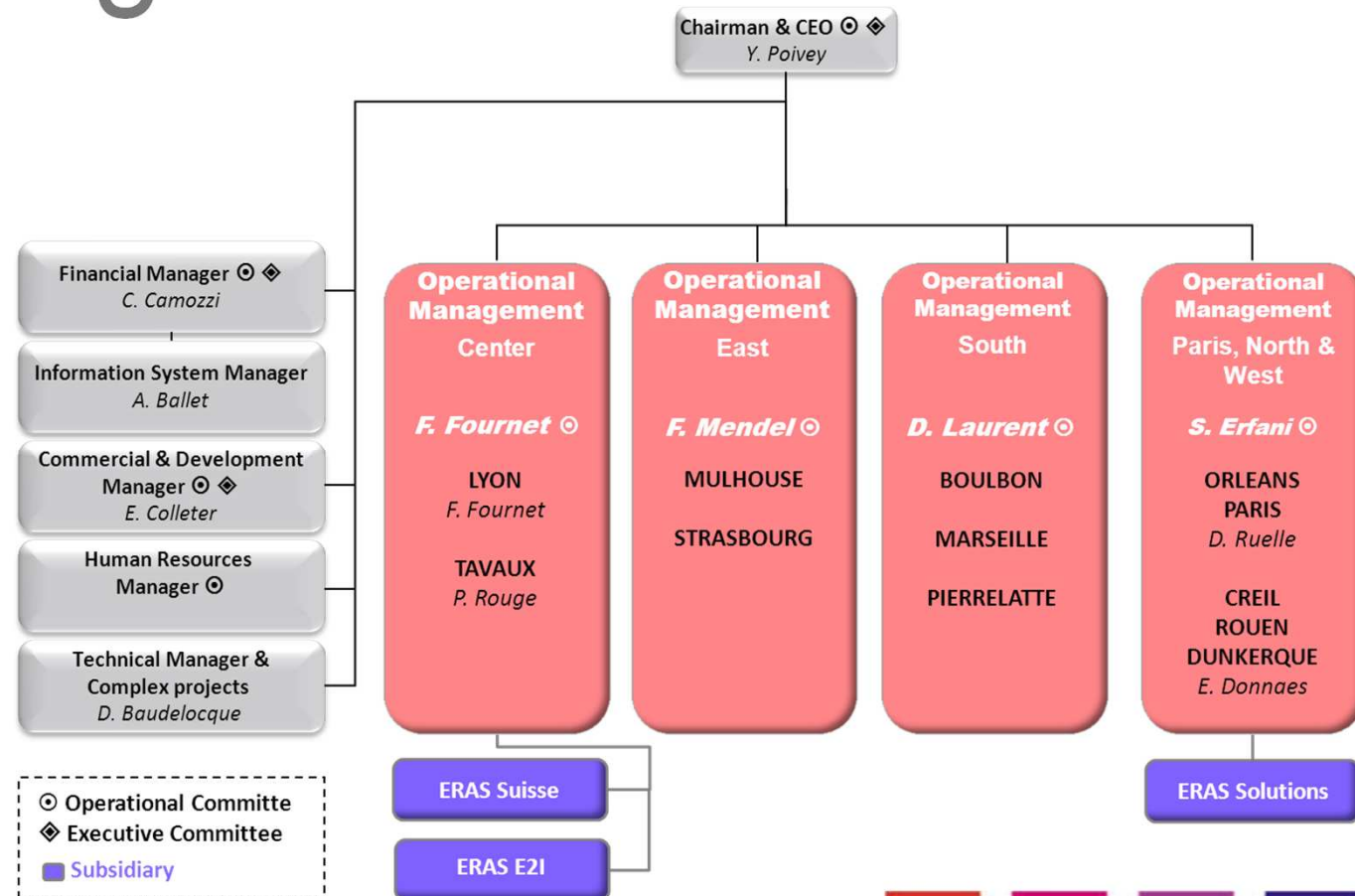


Limited Company
Capital :
956 220 €
Created in 1991
Employees :
350 people

ERAS is growing and building reputation on delivering complex projects in process industries



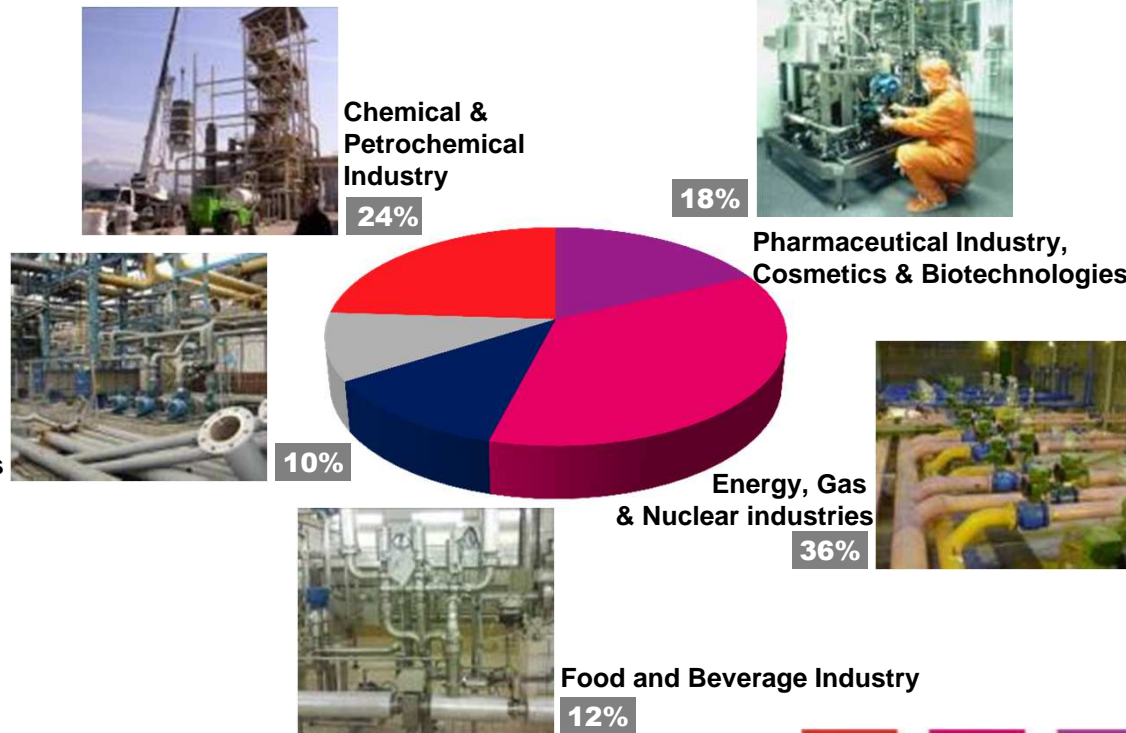
Organization



We understand your process

*80%
of our references
are in the
process industry*

In Infrastructures,
Metallurgy,
Environment
& other industrial sectors



Alliances Strategy



- **ERAS is implementing a network of strategic alliances with partners to extend expertise and further strengthen business in France and abroad.**
- **Our global network of local partners has a good understanding of regional differences, practices and requirement.**
- **ERAS is pleased to support French industries to develop projects abroad with a special care to confidentiality.**
- **ERAS is also pleased to welcome and design plants for Foreign companies aiming to settle in France.**

ERAS : your partner for a long term...

*Frame
agreement
= 1/3 of the
turnover*



TOTAL PETROCHEMICALS



References

Chemicals and Petrochemicals



References

*Energy,
Gas
and Nuclear*



References

*Pharmaceuticals,
Biotechnologies
and Cosmetics*



References

*Food and
Beverage
Industry*



WRIGLEY
FRANCE



References

Other industries



Scope of Services

Concept studies

Technical appraisal

Site Master plan

Feasibility study

Process engineering

Cost Estimate

Basic design

Permitting

Outsourcing

Technical & professional personnel

Detailed studies

Specialty design

3D Design

Works execution design

Turnkey projects

ERAS builds and delivers turnkeys projects to customers

Qualification

VMP / DQ / IQ / OQ

Project Management

Cost control & Schedule

Risk Management

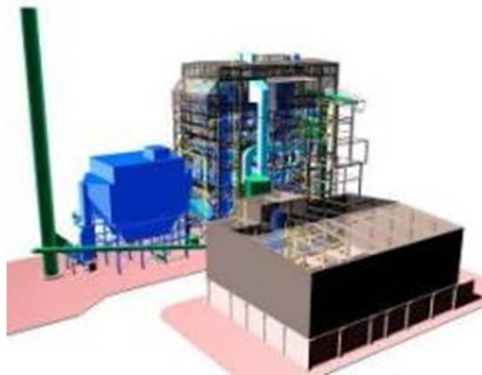
Procurement services

Contract Management

Inspection

Construction Management

Acceptance – Production startup



**Commitment
to success**



Our fields of expertise

PM / COST & SCHEDULE



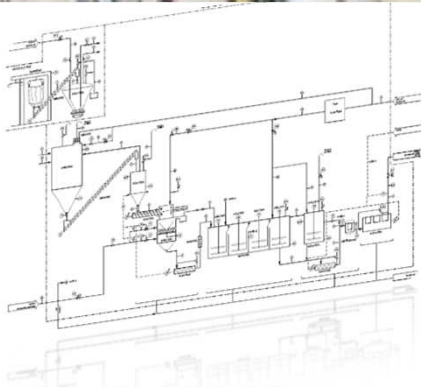
*Project
Management*

- To approve, measure and follow **Costs** and **Schedule**
- To set up a smart **Project Execution Plan**
- To **Manage Knowledge**, to communicate
- To **Contract Alliances**
- To take action and **corrective decisions** to respect objectives
- To access to up to date information :Supplier & Technology data base.
- To manage and track the **documentation**



Our fields of expertise

PROCESS DESIGN

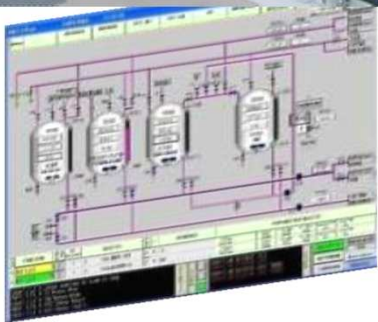


- Block Flow Diagram
- Process Calculation
- Process Definition
- Equipment Specification
- Process Flow Diagram
- Piping Instrumentation Diagram
- Safety review
- Impact and risk assessment



Our fields of expertise

PROCESS SUPERVISION

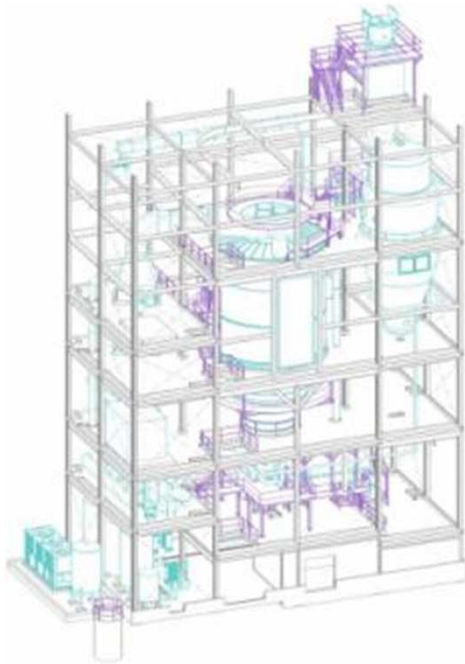


- Process Instrumentation
- Industrial Analyzers
- Industrial and safety PLC
- DCS
- Automation
- Fonctionnal analysis
- Industrial software (MES, BMS functions, ERP interface)



Our fields of expertise

BUILDING & INFRASTRUCTURES



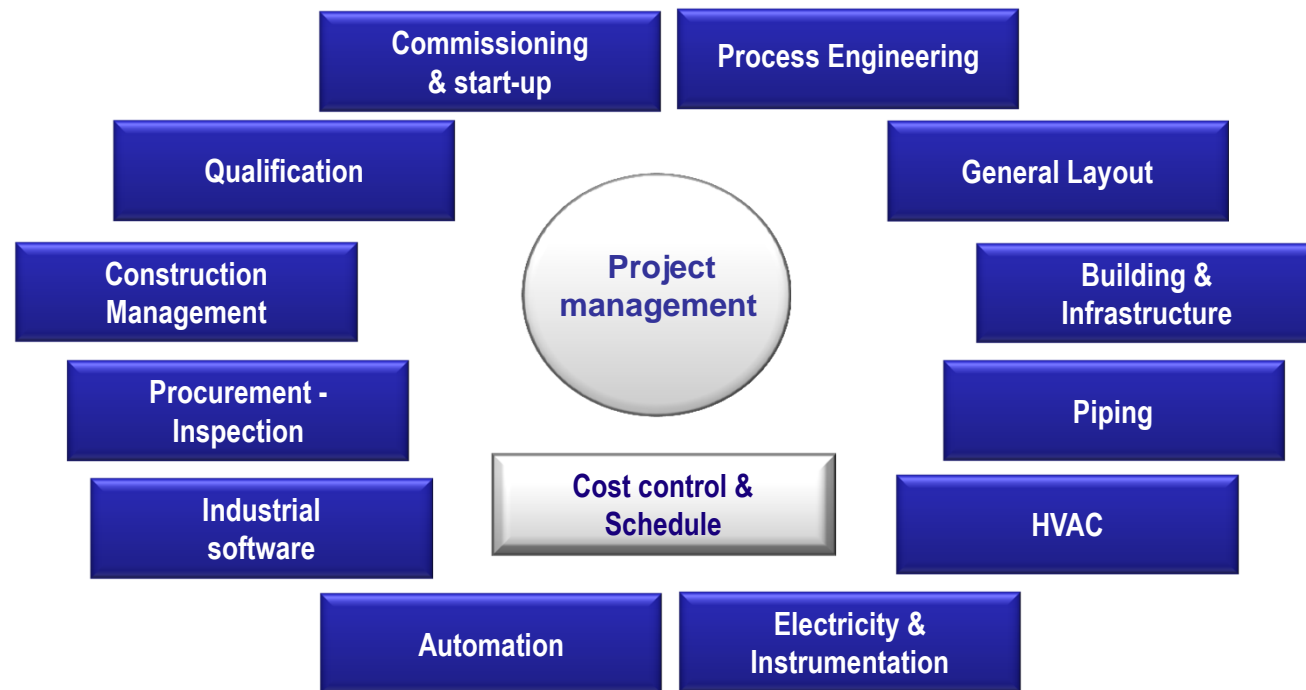
- Site Master Planning
- Equipment Layout
- Steel framework
- Piping Layout
- Mechanical engineering
- Road and underground network
- Civil engineering
- Utilities
- HVAC
- Distribution network HV / LV
- ...



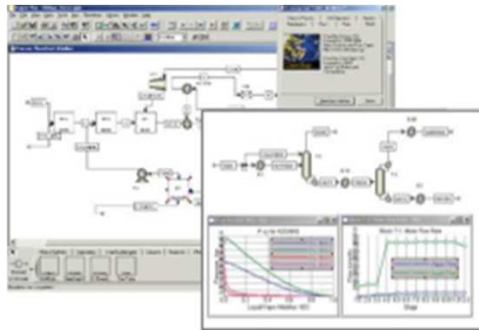
Interdisciplinary teams



*From Concept
to Completion*



Efficient tools



*Process
simulation &
CAO*

- **Calculation softwares** : Aspen+ & TascPlus, Simulis (ProSim), Hysys, Robot Millenium, FlowMaster, PipeFlo, PipeStress, Caesar II, Caneco HT et BT, Thermoflex
- **3D CAD General Installation** : PDMS, Microstation / PlantSpace, PDS, Pipingcad, Isocad, RCad Acier
- **3D CAD Mechanical engineering** : Solid Edge, Inventor, Catia, ProEngineer
- **3D Model review** : Walkinside, Review-Reality, Bentley Navigator
- **2D et 3D CAD** : Autocad, Microstation
- **PID** : Pidexcad, Smartplan PID
- **CAD Instrumentation - Electricity** : CIMS, See Electrical Expert, Autocad Elec.
- **3D Scanner** : on-site, numeric measurements for CAO & DAO use
- **Technical Inter-disciplinary Database**



Safety & Quality



**SAFETY &
QUALITY**
Our priority

Our approach and Quality certifications guarantee you a strict working methodology :

- **ISO 9001** Certification Version 2008 by the AFAQ (French Association for Quality Assurance) for all offices.
- **Technical watch**, Standards online access, *Techniques de l'ingénieur* online access for all.

ERAS guarantees your Security within the scope of its services

- Certification according to the **MASE - UIC** assessment system : Dunkerque, Lyon, Marseille, Mulhouse, Orleans
- Certification according to the **CEFRI E** assessment system : Marseille, Lyon, Tavaux, Grenoble, Marseille, Pierrelatte
- Certification according to the **Qualifoudre** assessment system : Dunkerque, Lyon, Paris, Rouen, Tavaux

Sustainable development project

Classified defense accreditation (in progress)



Teams Committed to projects



*Training budget
> 5% of the
turnover*

- Average age : **38 years**
- **54%** are engineers
- A dynamic Human Resources policy to develop loyalty of all co-workers with a low turnover of employee
- Unified and highly advanced IT tools are spread in all agencies; to facilitate team working



Sharing values



- **Respecting ERAS customers and co-workers**
- **Being a serious and reliable partner**
- **Building and developing team spirit**
- **Giving everyone responsibility in every day's work**
- **Developing talents**
- **Maintaining a good social balance and strong motivation within the team**



Design... further



- Risk analysis to ensure the security of your investments
- Value engineering for costs optimization
- Sustainable design to produce without damage to the ecosystem
- Optimization of energy consumption

Choosing ERAS for...



Our expertise in your Process

Our Project Management capabilities for complex projects

Our performing and innovating solutions

Ability to react

Commitment

Flexibility

Proximity

