



Mechanical Engineering Industrial Process Engineering



ANALISIS-DSC

PROCESS AND MECHANICAL ENGINEERING

January 2026

ANALISIS-DSC



Company:

We are a SME engineering service company specialized in **Mechanical** and **Industrial Processes** using **CAE** (Computer Aided Engineering) software tools.

Engineering services such as:

- Basic Engineering.
- Failure Engineering.
- Analysis and Optimization of Industrial Processes.
- Scale-up/Scale-down Industrial Processes.
- Ventilation Analysis and Optimization (Climatization and Fire Safety).

Our history:

- **2002** company was founded, as distributors of CAE software.
- **2006** we start offering mechanical and industrial processes engineering services using **CFD** (Computational Fluid Dynamics) software tools.
- **2009** we broaden our engineering services using **FEA** (Finite Elements Analysis), **DEM** (Discrete Elements Modelization) y **SES** (Subway Environment Simulator) software tools.

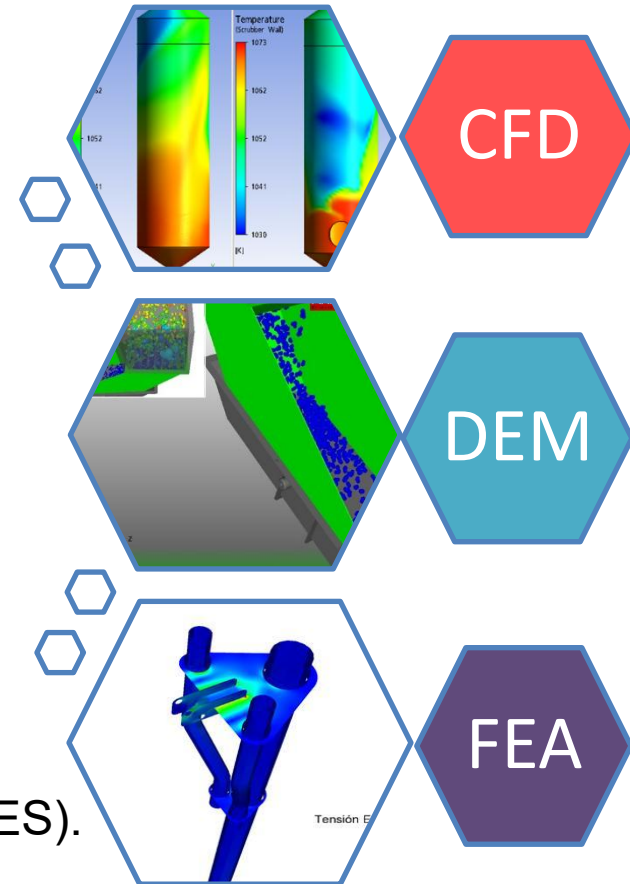
Engineering Services

• Applications

- Mechanical-Structural.
- Fluid dynamics.
- Thermodynamics.
- Granular Flows.

• Tools:

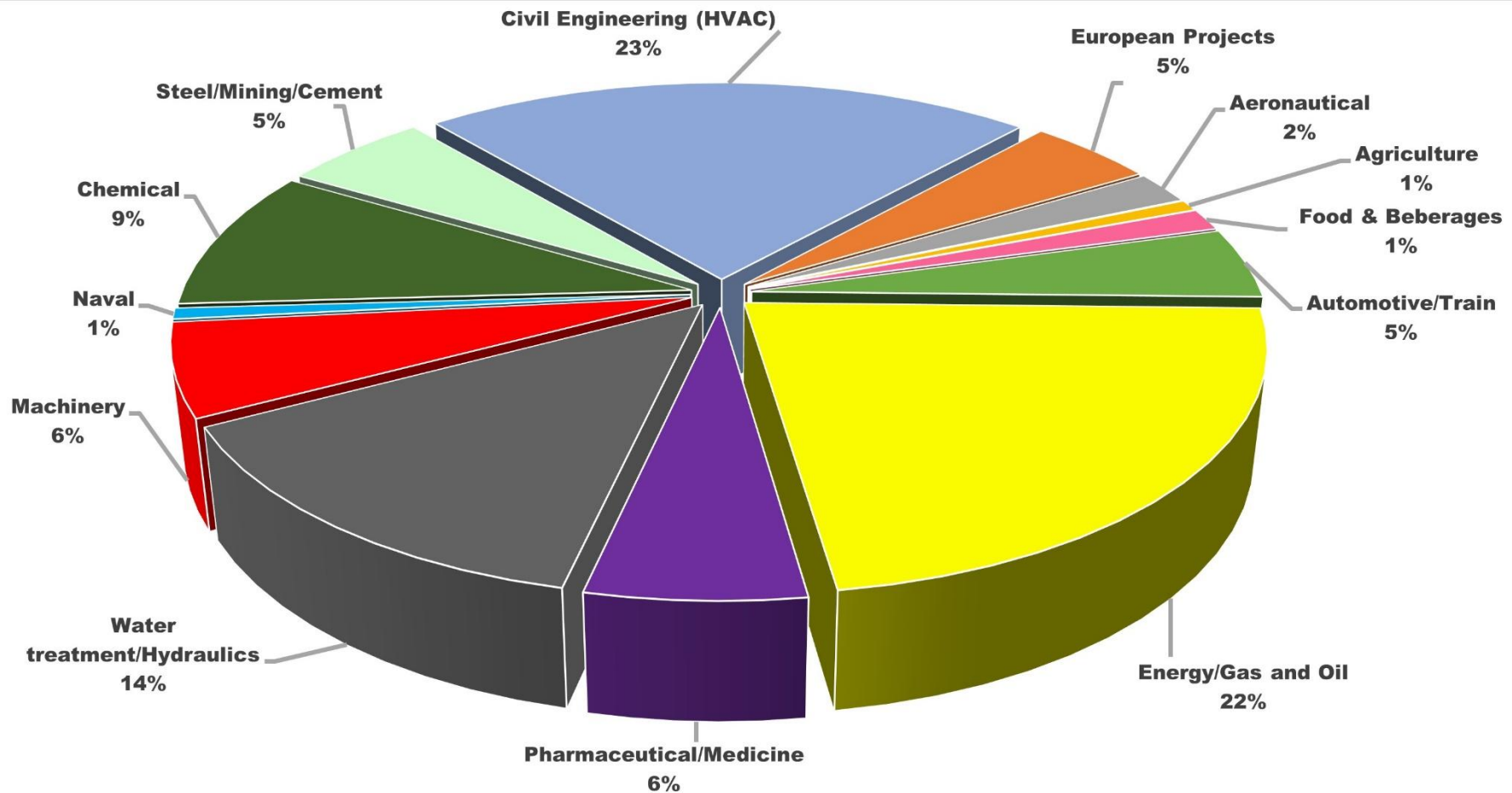
- CAD.
- CAE:
 - Computational Fluid Dynamics (CFD, SPH).
 - Finite Element Analysis (FEA).
 - Discrete Element Method (DEM).
- Specific Tools (Subway Environment Simulator, SES).



Engineering Services



Over 250 projects developed for over 190 customers.



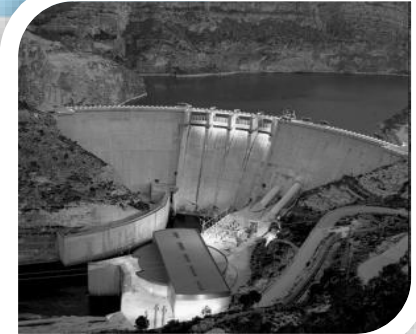
Engineering Services

Optimization/Improvement of Industrial Processes:

- Pressure Drop Reduction.
- Heat Transfer Improvement.
- Ventilation and Climatization Studies.
- Multiphysics (gas/solid/liquid) mixing time.
- Chemical reactions.
- Aerodynamic Loads Reduction.
- Gas distribution, combustion and particle emission.
- Solid particle transport and drying.

Design of Industrial Equipments/Products:

- Prototype Development.
- Design Scale-up.
- Basic Design Engineering.
- Experimental results validation.



Engineering Services

Damage equipment analysis:

- Erosion.
- Breakdown.
- Thermo-mechanical stresses.
- Corrosion.
- Cavitation.
- Vibration.
- Fatigue.

Contingency analysis (Incidents/Accidents):

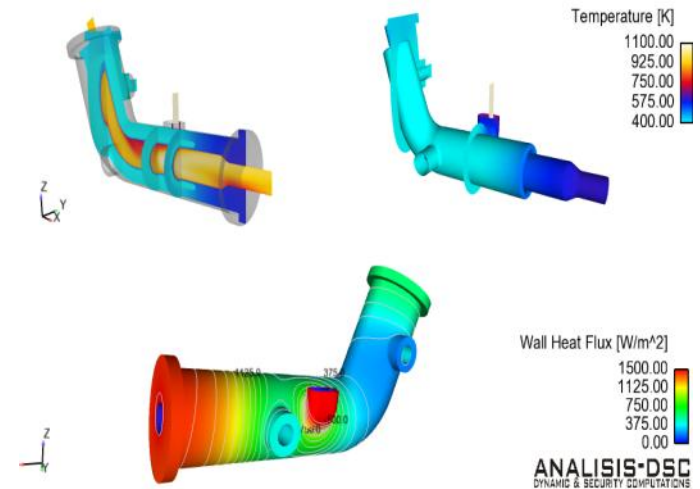
- Particle and contaminants emissions.
- Explosions.

Fire safety in civil engineering:

- Fire safety systems (Temperature and smoke dispersion).
- People evacuation.

Ventilation/climatization in civil engineering:

- Comfort evaluation / Ventilation systems.





We are a company with a strong focus on and dedication to R&D&I, enabling us to become your **technology partner**. We participate in both national (CDTI, MINECO, etc.) and European (Horizon Europe, H2020, Eranet, etc.) **R&D projects**. European projects for which we have obtained funding:

PROCESS INTENSIFICATION



NANOTECHNOLOGY



MINING



ENERGY



BIOREFINERY



AGRICULTURE



PRODUCTION



We are members or partners at

We are members or partners of different associations like:



Batteries Europe



BioNanoNet



CEIDEN



CrowdHelix



FOTOPLAT



Red TES
Red española de almacenamiento
de energía térmica

Red TES



Solar Concentra



Bioplat



ISMIC



PTE-ee

Contact

If your company is interested on additional information about our services, do not hesitate to contact us at:

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