



Mechanical Engineering Industrial Process Engineering

ANALISIS-DSC
DYNAMIC & SECURITY COMPUTATIONS

URL:



October 2021

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.

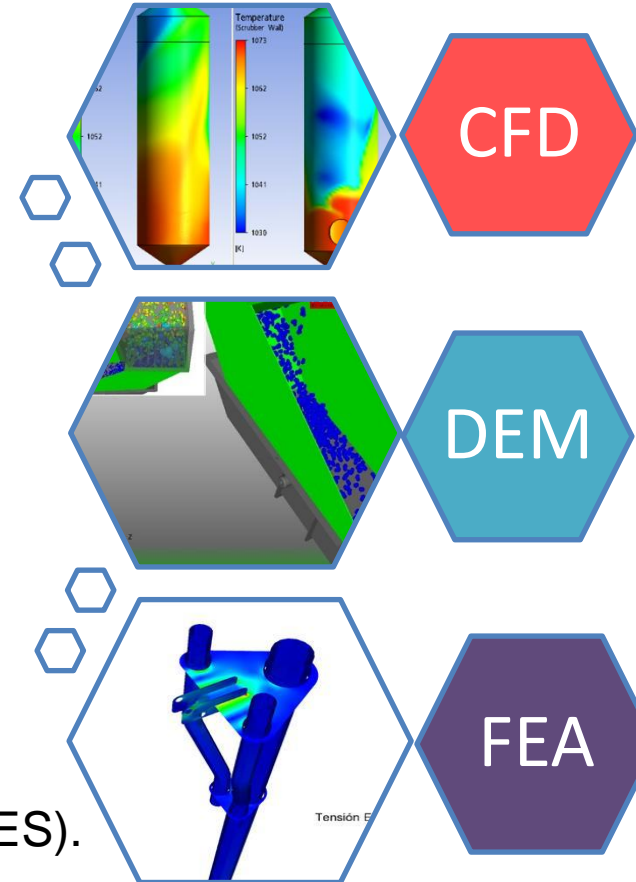
Engineering Services

• 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).

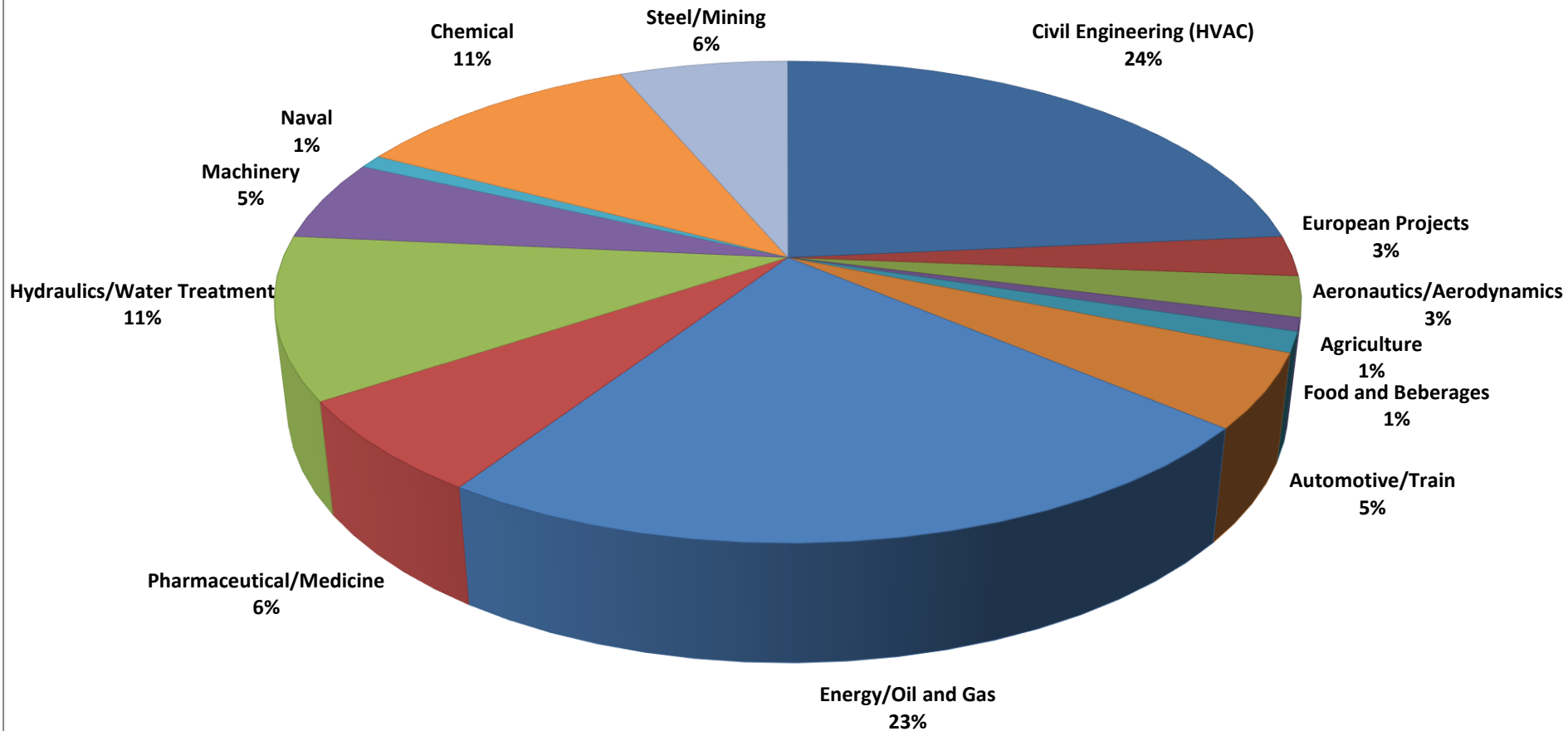


Engineering Services



We have long term experience with more than 200 projects developed.

PROJECTS DEVELOPED BY SECTOR



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:

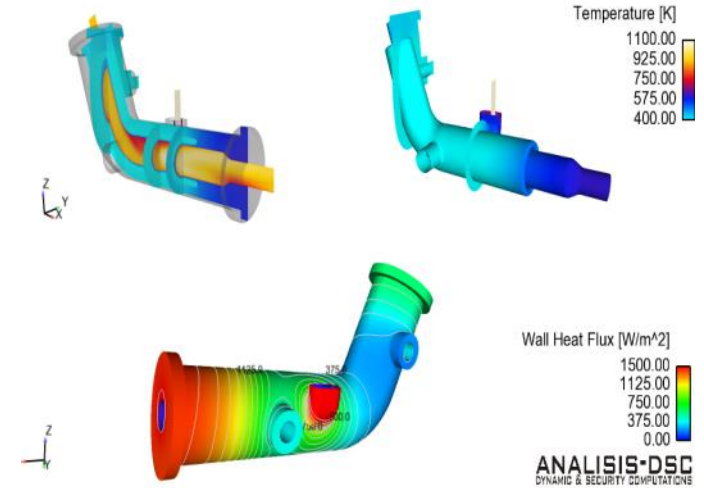
- Prototype Development.
- Design Scale-up.
- Basic Design Engineering.
- Experimental results validation.



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.



R&D



We are a R & D orientated and focused company so that we can become your technological partner.

We participate in R+D projects, national (CDTI, MINECO, etc.) and European (H2020, Eranet, etc.). European R&D Projects:



Chemical, mining, and pharmaceutical sectors. From 2015 to 2018.



Detergents. From 2019 to 2022.



Bioenergy. From 2020 to 2024.



Solar thermal energy. From 2020 to 2024.



NANOPAT:

Chemicals, nanomaterials. From 2020 to 2024.

We are interested in participating as partners in other European projects in areas such as: Water, NMBP, Energy, Biorefineries, Batteries, etc.


In case you would be interested in presenting a European proposal with us, please do not hesitate to contact us.

Contact

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

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