

Idra Simulation S.C.P
Barcelona 08004
pierre@idrasimulation.com
tel: (+34) 66 618 75 56
idrasimulation.com

Presentation

Idra Simulation offers services in Numerical Simulations and Finite Element Analysis. We work with different industry sectors, but also with scientific and academic institutions.

FEA services offered:

- Static and dynamic mechanics of solids
- Nonlinear analysis
- Heat transfer
- Multiphysics

Numerical Analysis services offered:

- Mathematical models
- Matlab/Octave applications
- Interpolation and optimization

Interest in code-aster

- We work with different open-source and commercial CAE software, but we focus on technology transfer using open-source tools. We believe that with our help and assistance, our clients can integrate code_aster in their design process. We offer them to build a generic model (Salome script, Code_aster command files, etc) that they can eventually edit and adapt to other products.
- Many of our clients are SMEs, and cannot afford expensive licenses. Code_aster is then an interesting option for them (most of the time, they simply don't know the existence and capacity of code_aster).
- Regarding parallel computing, the use of open-source software is strategic. While the price of commercial solvers increases with the number of CPUs used, code-aster can be run in parallel without any additional cost.
- Code-aster has the advantage of having a large number of validation tests, and a rigorous releases and updates system. This is crucial when trying to convince new users.
- It's our view that sometimes collaboration is better than competition. This non-traditional approach is not in contradiction with the notion of profit. Sharing can brings more benefits to you *and* your competitors.

Activities planned

Idra simulation will continue to promote the use of code_aster, with a special effort put in Spanish SMEs and Technical Centers.

Dissemination activities include participation of users forum, conferences, ProNet meeting, social networking, etc. We also publish in our web page studies, tips, and command files related to code_aster and Salome.