

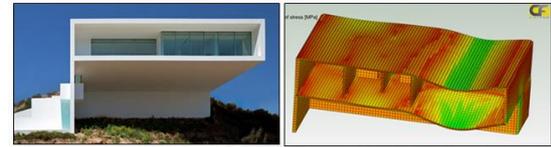
# -CivilFEM makes the difference-

Multidisciplinary Advanced Non-linear FEM Analysis Software

## Skyscraper & Advanced Architecture

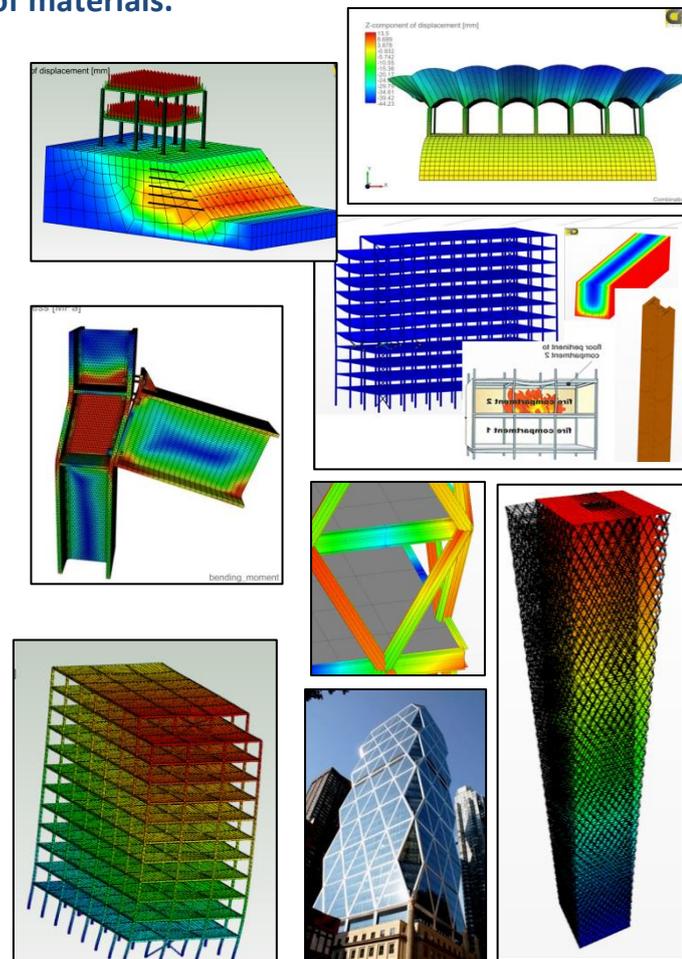
“CivilFEM® works in the same way as you build”

Analyze the entire construction process in a single model: CivilFEM facilitates the virtual simulation of all the non-linear construction processes in a straightforward sequential way by means of its tools, time-dependent properties and activation and deactivation of materials.



### ARCHITECTURE ANALYSIS HIGHLIGHTS

- Check & design of steel, reinforced and prestressed structures
- Transient and non-linear evolutive construction process
- Time dependent material properties
- Soil-structure interaction analysis: Slope stability, retaining walls, seepage & foundations
- Soil behavior law models: Drucker-Prager, Mohr-Coulomb (cohesion and variable angle of friction) and Tensile Cam-Clay
- Non-linear multibody advanced contacts
- Seismic and earthquake engineering (response spectrum or nonlinear time history)
- Heat transfer (steady and transient analysis)
- Thermal analysis (Fire protection design)
- Concrete creep and shrinkage
- Cracking (concrete, timber...)
- Prestressed reinforced concrete non-linear spring and dumpers
- Non-linear buckling
- Follower forces. Large deflections



CivilFEM® powered by Marc® is a very powerful and versatile program suitable for all the types of advanced analyses performed in all construction sectors, providing a rich set of tools that streamline the creation of analysis models for Construction, Dams, Civil engineering, Tunnels, Geotechnics, Mining, Energy, Oil & Gas, Precast, etc.

With its intuitive user friendly interface and pre/post features, it is very easy to learn. The powerful (included) Marc® from MSC® Software non-linear solver aids to solve the most demanding and complex advanced analyses. ®Trademark property of their respective owners