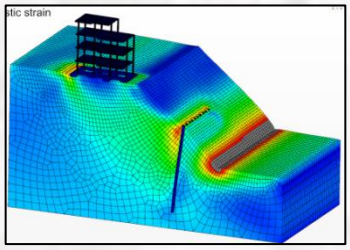
-CivilFEM makes the difference-

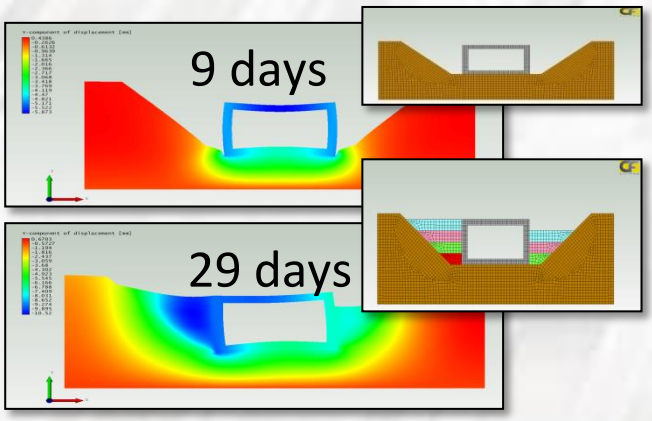
Multidisciplinary Advanced Non-linear FEM Analysis Software

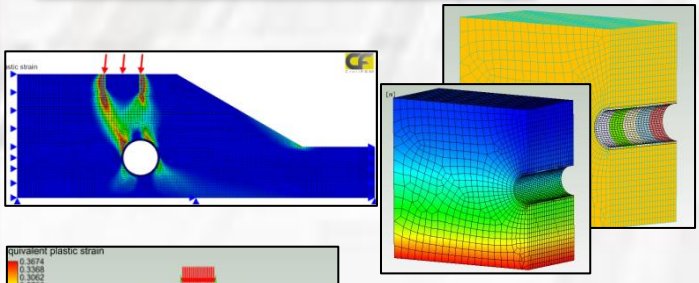
Geotechnics, Tunnels & Mining

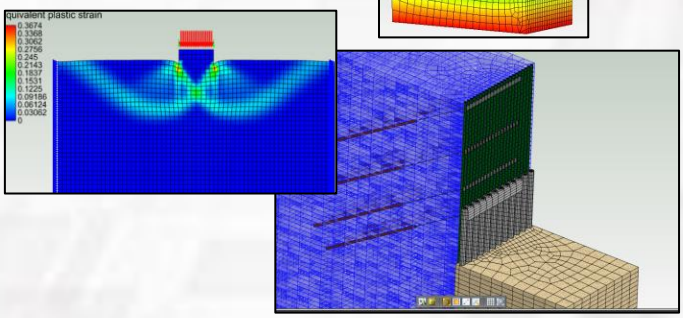


"CivilFEM® works in the same way as you build"

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.







GEOTECHNICAL CAPABILITIES HIGHLIGHTS

- Non-linear material behavior laws: 2D and 3D Mohr-Coulomb with variable "c" and "φ", Cam-Clay (Initial tensile stress), Drucker-Prager…
- Transient and non-linear evolutive construction process (analysis of construction staging in tunnels)
- Seepage (steady and transient analysis)
- Time dependent material properties
- Soil-structure interaction analysis
- Multibody advanced contacts (cohesion, static and sliding friction coefficients …)
- Slope stability (SRF …)
- Prestressed reinforced concrete (beams, shell and solids)
- Initial stresses
- Creep and shrinkage
- Cracking (concrete, timber …)
- Heat transfer (steady and transient analysis)
- Thermo-structural analysis
- Non-linear springs and dampers

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

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