

Barcelona Supercomputing Center BSC-CNS

- Developers of Alya, parallel multi-physics / multi-scale simulation code
- Simulations at tissue / organ level, mostly focused on cardiovascular and respiratory
- Fluid-electro-mechanical computational cardiac model
- Code performance in present and future supercomputing architectures, on the road to Exascale Computing
- Coupling parallel algorithms, code efficiency at all programming layers
- Mesh generation and preprocess
- Visualization and postprocess analysis

