

# VELaSSCo Project: BigData Technologies for Postprocessing and Visualization

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VELaSSCo (Visual Analysis for Extremely Large-Scale Scientific Computing) is an FP7 European funded research project devoted to give solutions for post-processing and visualizing extremely large numerical simulations. For this purpose, Big Data and advanced visualization and post-processing techniques will be merged.

The solvers tends to run more and more in distributed memory machines in order to be able to take advantage on scalability in their parallelized algorithms. HPC or Cloud platforms are used for this purpose. Nowadays there is a bottleneck at the time of getting the results in order to post-process and visualize them, as they cannot be stored in a single machine. VELaSSCo platform will manage the distributed data from all the calculation nodes in order to post-process the results and send to the client only the interesting parts for the visualization.

GiD will act as a client of VELaSSCo platform, so the end user will be able to post-process and visualize in a standard PC the distributed results generated from a large numerical simulation, typically using an HPC platform.

Web site: [www.velasco.eu](http://www.velasco.eu).