

Using on-site 3D laser scanning, Urbica collects and processes millions of measurements. Urbica has specialized software tools for the 3D modelling of objects surveyed on site in as-built condition. Each structure, device or installation is then reconstituted graphically for restitution in conventional CAD tools (PDMS, PDS, Autocad, Microstation, Solidworks, SmartPlant, ProE, etc.).

Shape recognition based upon a point cloud provides the user with a 3D scale representation or "3D model" which is faithful to reality, accurate and exhaustive.

This modelling may be completed on the basis of standardized ISO or AFNOR catalogues. In general, however, it will be more cost-effective to work on a model based upon volumes or primitives, given that, in many cases, the existing site will no longer correspond to the notional models represented in catalogues.



After modelling, Urbica will deliver a file of the site or installation concerned, in the required format, which will allow the following:

- the reading of distances between equipment, the identification of pipe diameters or the form of supports;
- the virtual inspection of the installation;
- the generation of isometric diagrams, plan views or layouts;
- the display or concealment of different layers, according to "functional application" (structure, piping, instrumentation, equipment, etc.);
- the detection, analysis, documentation and resolution of collisions between a 3D plan and the 3D as-built model;
- the provision of an up-to-date 3D model for the execution of analyses for maintenance, revamping or extension

Find out about our other services by visiting our website at urbica.net.

To request a demonstration on your premises, call us on +33 141 500 036.

