The Company
3DVeritas S.r.l. was founded in Italy in January 2001 as a spin-off from the Joint Research Centre of the European Commission with the objective to exploit JRC’s 3D reconstruction technology.

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Product
3DVeritas develops and commercialises software that combines range data from laser scanners (LRS) with 2D data from digital cameras. Laser range scanners for long distances have been commercially available for about 4 years. They allow measuring distances of up to 200 m with an accuracy of several millimetres at measurement rates of up to 100,000 points per second. Laser range scanning is a revolutionary technology for all applications that require accurate 3D measurements of existing structures. However, until today, laser range scanning failed to unfold its full potential due to the lack of a sophisticated software that converts the raw output data—a cloud of hundred of thousands of 3D measurement points—into a useful representation.

3DVeritas fills this gap with a highly automated software system based on modern computer vision and computer graphics technology that merges geometrical information taken from laser range scanners with 2D images taken with digital cameras. Thus, 3DVeritas software not only produces a photo-realistic 3D model that combines geometric and chromatic information, but the colour information also offers a much more intuitive interface during the processing and interrogation of the data. The technology is optimised to reconstruct 3D models of large objects, as for example exteriors and interiors of buildings, monuments, bridges, caves, etc.

Like no other company 3DVeritas combines the following functionalities and features in its technology

- **Photo-realism.** 3DVeritas offers software that allows to accurately map any 2D image from an external source onto the 3D model. We strongly believe that in future almost all scanning applications will make use of texture information and that scanning without texture will seem as advanced as black and white television does today.

- **Integrated software for 3D modelling.** 3DVeritas provides a software package that covers the entire workflow from the data acquisition over the 3D model creation until the texture mapping.

- **Highly automated processing.** The system creates a pre-model in real-time.

- **Advanced data management.** The software allows processing large data sets on a standard PC.

- **Independence from Laser scanner.** Our customers are free to choose the LRS most suitable for their purpose.