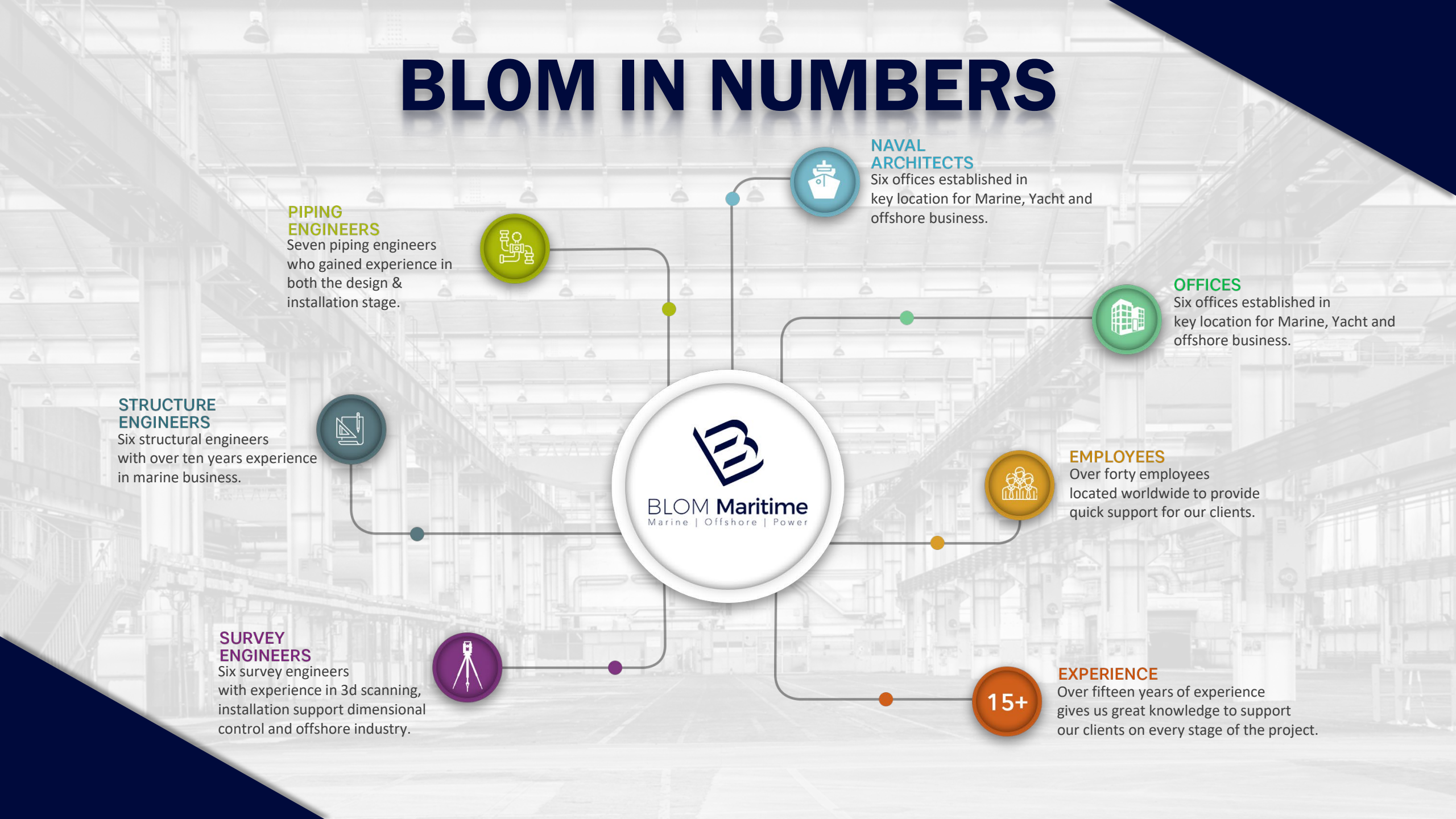
WHO WE ARE

BLOM Maritime is a multi-disciplinary team of project managers, piping engineers, structural engineers, surveyors and data analysts capable to execute a variety of engineering tasks. Our engineers have been gaining experience by cooperating with production workshops and installation, supporting clients in paper-mills, biomass plants, power plants, garbage incinerators, and other land-based industries.
Our worldwide office's location gives us a great opportunity to support our clients with all services in a short notice of time.

BLOM IN NUMBERS



NAVAL ARCHITECTS
Six offices established in key location for Marine, Yacht and offshore business.

PIPING ENGINEERS
Seven piping engineers who gained experience in both the design & installation stage.

OFFICES
Six offices established in key location for Marine, Yacht and offshore business.

STRUCTURE ENGINEERS
Six structural engineers with over ten years experience in marine business.

EMPLOYEES
Over forty employees located worldwide to provide quick support for our clients.

SURVEY ENGINEERS
Six survey engineers with experience in 3d scanning, installation support dimensional control and offshore industry.

EXPERIENCE
15+
Over fifteen years of experience gives us great knowledge to support our clients on every stage of the project.

KEY ACHIEVEMENTS

BLOM Maritime is a modern company working on the latest software and hardware solutions. In our daily work, we use software from Autodesk, Bentley, Leica, FARO, AVEVA and ANSYS. As a company related to the industry business, we focus on the highest quality and flexibility of our services, ensuring comprehensive support for customers.

Below we present selected application for 3D scanning in which our engineers can assit.

We are powered by

AVEVA Bentley Advancing Infrastructure ANSYS

Rhinoceros AUTODESK Leica Geosystems

3D SCANNING

3D scanning is the quickest and the most effective way to collect a big amount of data with high level of details that can be used in a design, retrofit, architecture processes. Working with laser scanning data gives us a great opportunity to optimize the construction process especially in cooperation with different subcontractors to avoid conflicts between different systems (HVAC, Structure, Electrical, etc.). The point cloud information can be further use to support planning stage and all design needs.

HIGH LEVEL OF DETAILS

Detailed colour scan of installation

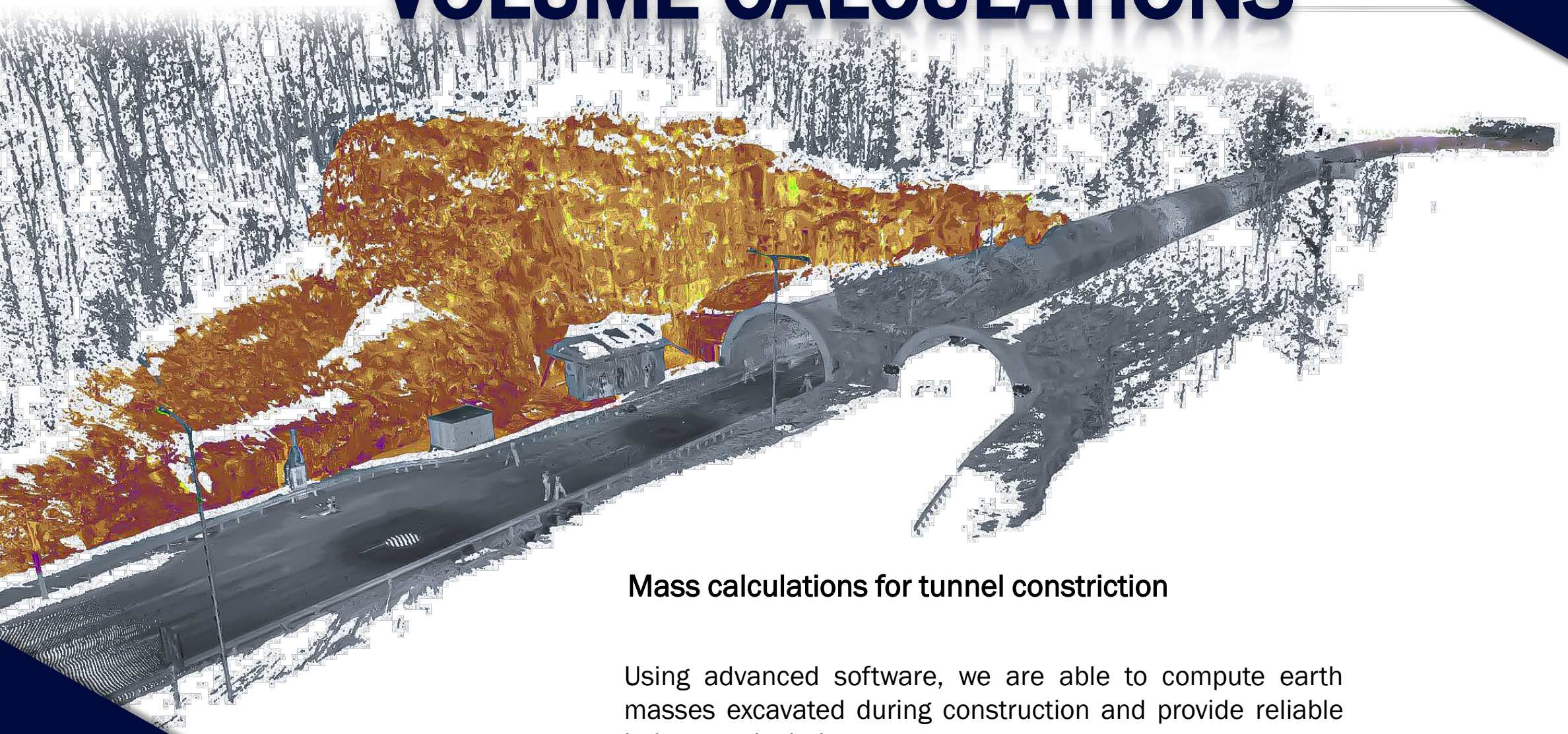
BLOM Maritime focuses aims to provide the highest quality of the services, therefore we put special attention to work with the state of art equipment and software.
Using Leica RTC360 scanners we are able to provide scans with panorama pictures giving great amount of details in a short time.

POINT-CLOUD VISUALIZATION

Virtual walk in the point-cloud

We strive to develop our services. Design and created inhouse tool - NUBES - makes easy to view any 3D model of installation in the point-cloud via web browser with an internet connection. This allows our clients, to check their design in the scanned digital twin from their own office and discus within the team even spread across the globe. It is an important tool for project visualization and demonstration what exactly will be installed. This can reduce risk, installation time and make sure there are no unexpected surprises. We also deliver tools develop by Leica such as TrueView and Jet-stream for point-cloud presentation.

VOLUME CALCULATIONS

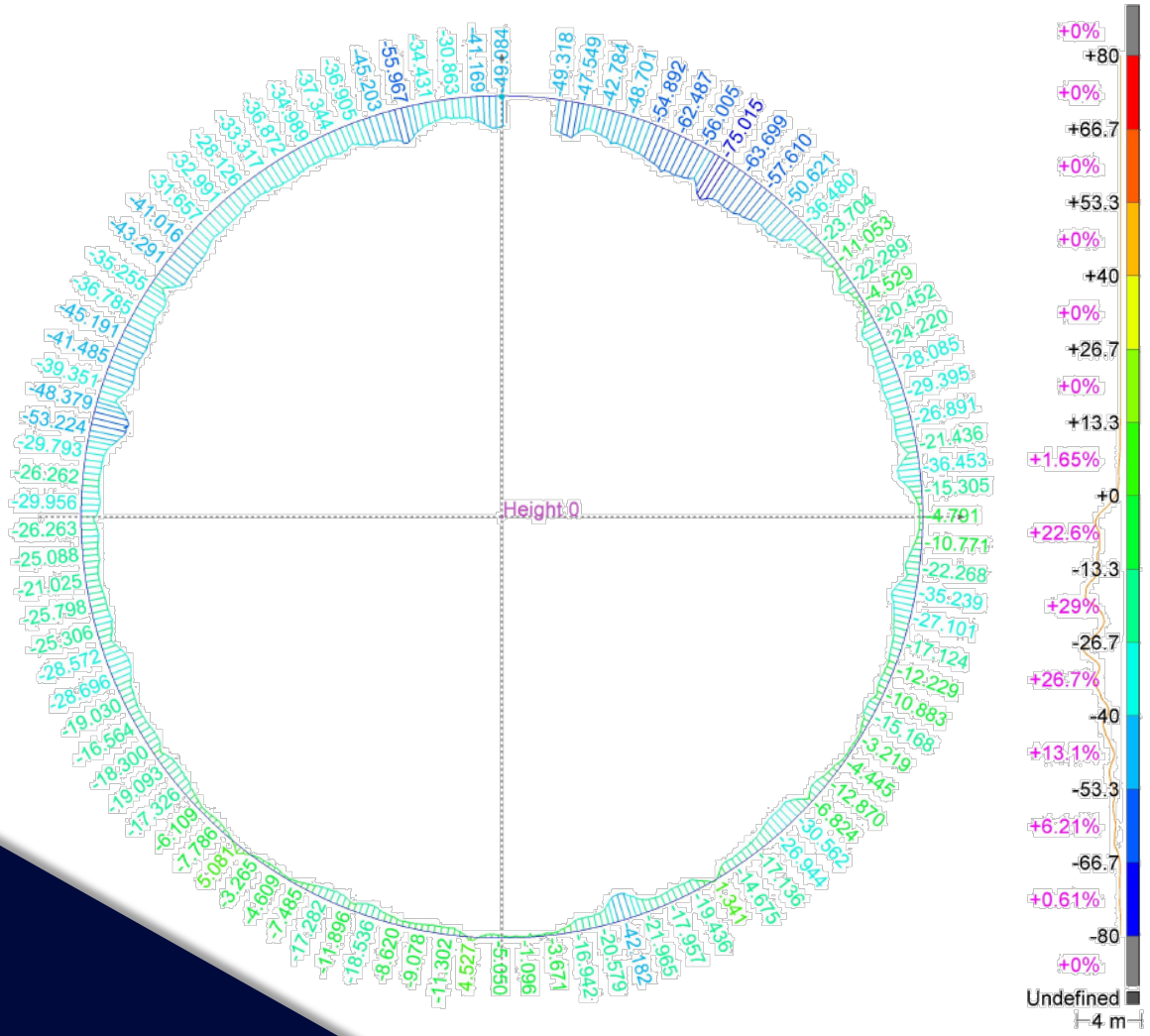


Mass calculations for tunnel constriction

Using advanced software, we are able to compute earth masses excavated during construction and provide reliable balance calculations.

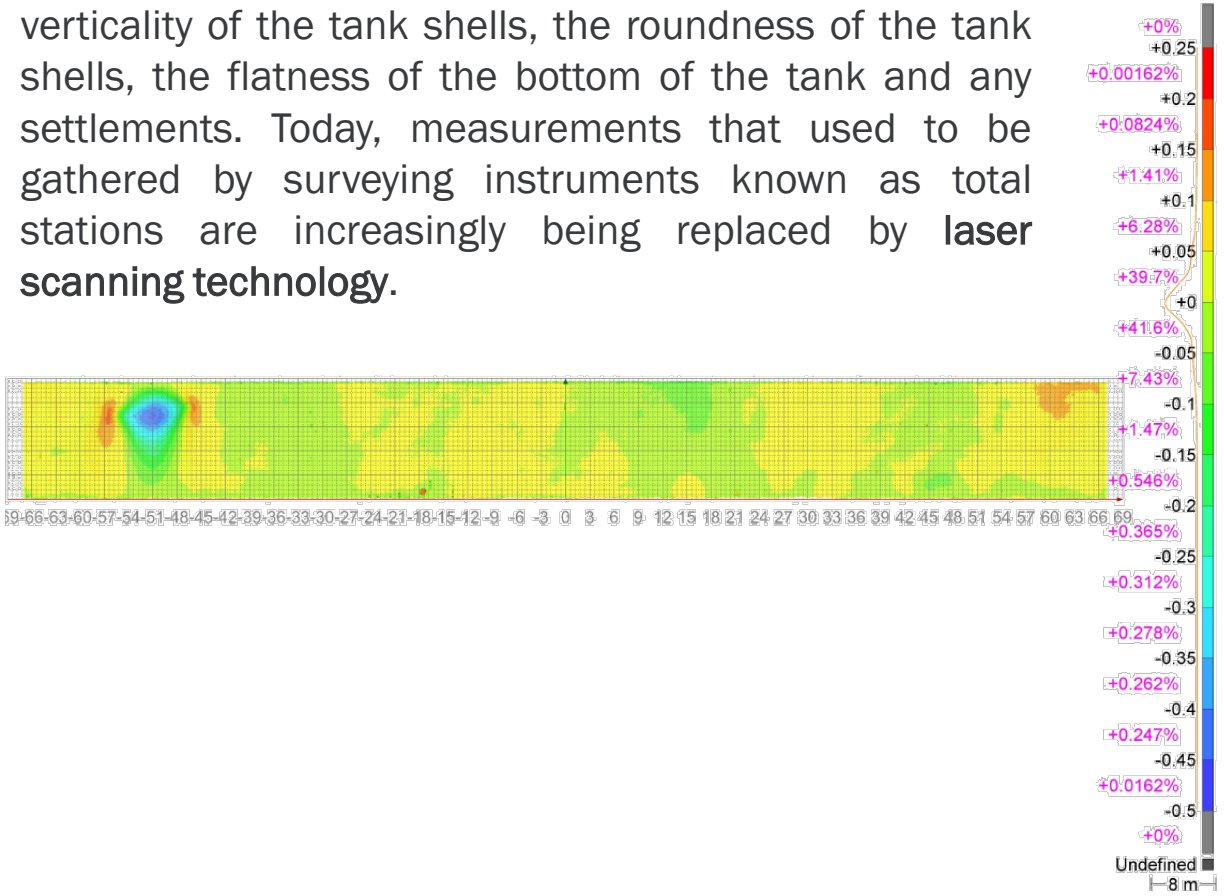
CONTROL SURVEY

Roundness

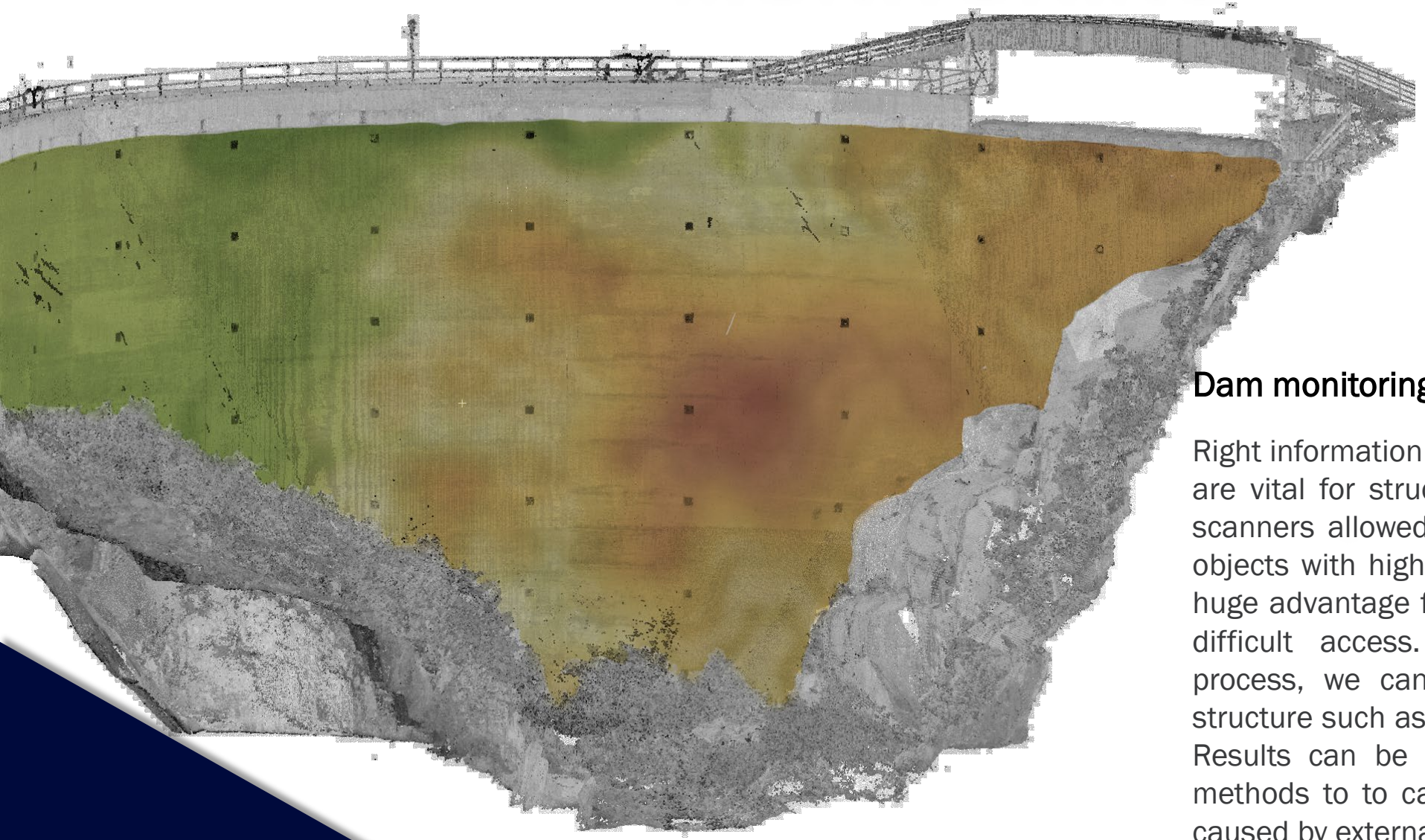


Tank Inspection

API653 standards require data to be measured on the verticality of the tank shells, the roundness of the tank shells, the flatness of the bottom of the tank and any settlements. Today, measurements that used to be gathered by surveying instruments known as total stations are increasingly being replaced by **laser scanning technology**.



MONITORING



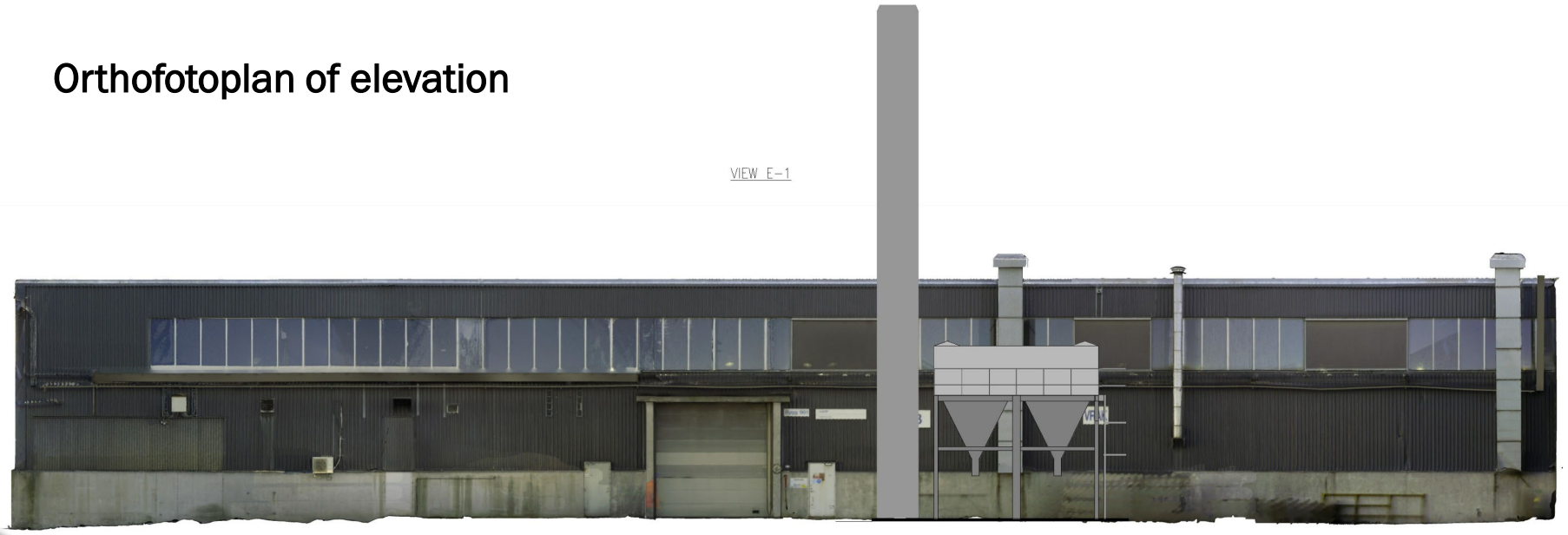
Dam monitoring

Right information regarding surface deflections are vital for structures safety. Our long-range scanners allowed us to measure required 3D objects with high quality of point-cloud. It has huge advantage for objects with impossible or difficult access. With a regular scanning process, we can present deviations on the structure such as dams, roads, elevations, etc. Results can be combined with other survey methods to to capture the dynamic behavior, caused by external factors.

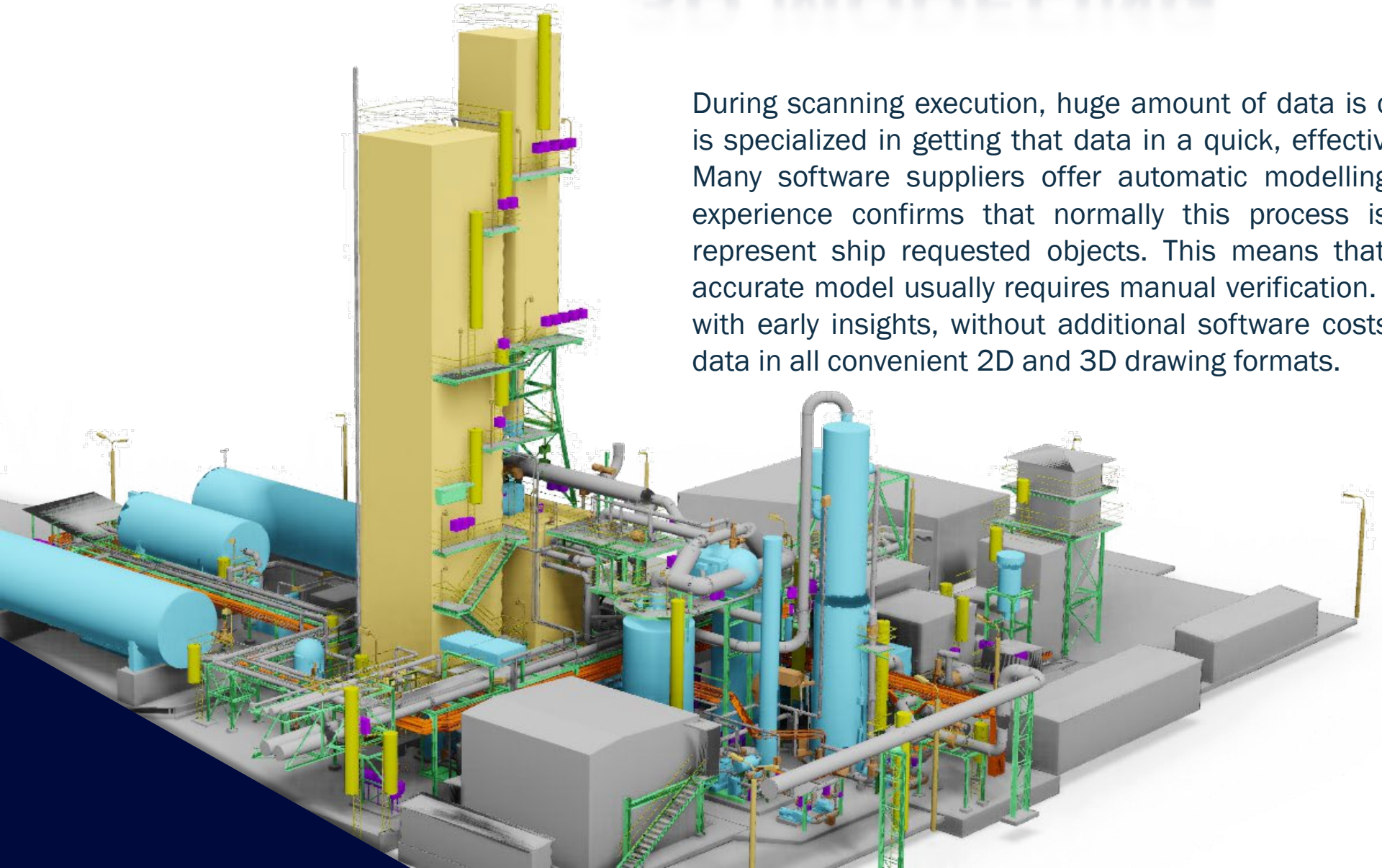
AS-BUILT DOCUMENTATION

In many cases the original design building drawings have not survived time or do not correspond to the as-is reality. In such circumstances we implement 3D scanning with CAD software to follow expectations of our customers. We can prepare precise 2D/3D drawings and orthofotoplans that reflect the actual geometry and conditions of objects in details.

Orthofotoplan of elevation



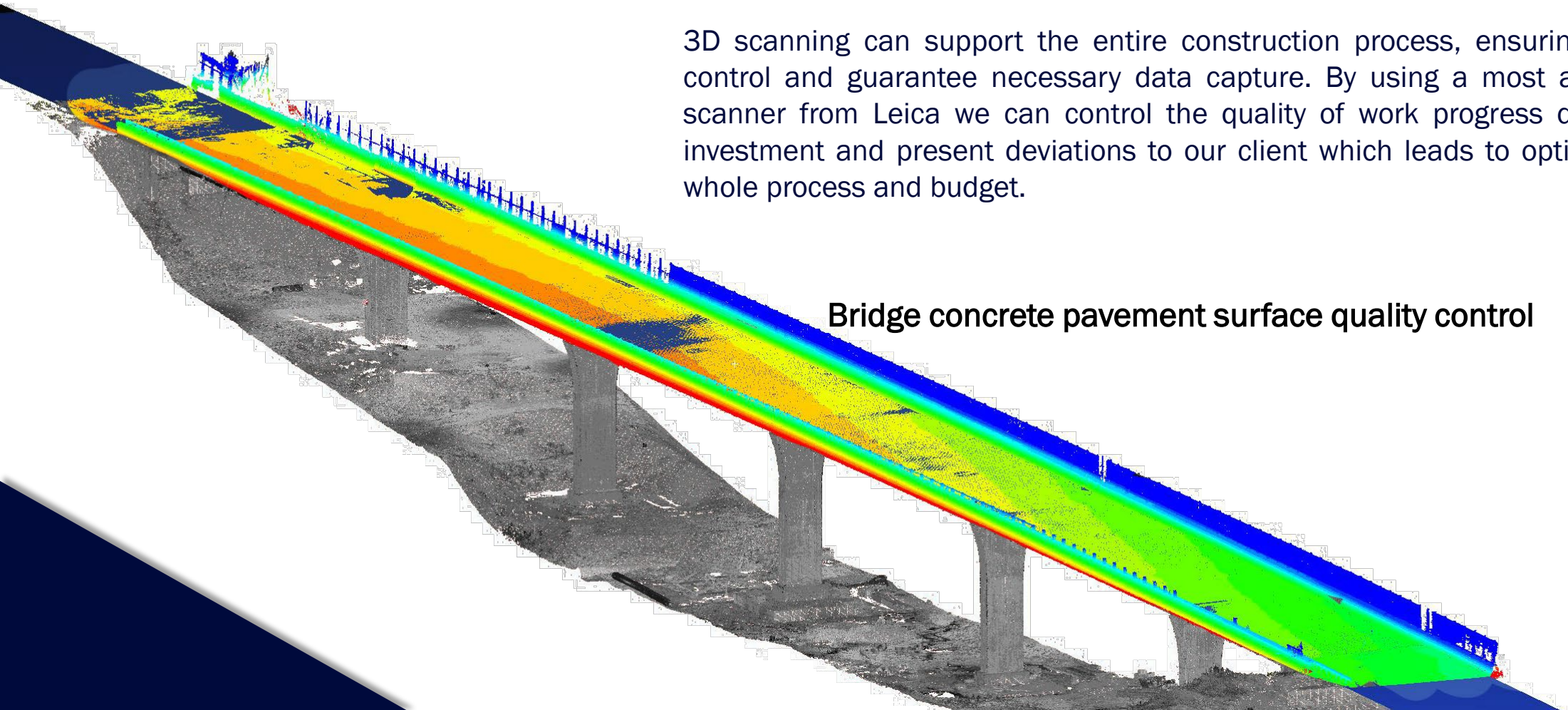
3D MODELING



During scanning execution, huge amount of data is collected. Blom Maritime is specialized in getting that data in a quick, effective and accurate manner. Many software suppliers offer automatic modelling of scanned data. Our experience confirms that normally this process is not smart enough to represent ship requested objects. This means that producing a good and accurate model usually requires manual verification. To supply our customers with early insights, without additional software costs we are able to provide data in all convenient 2D and 3D drawing formats.

QUALITY CONTROL

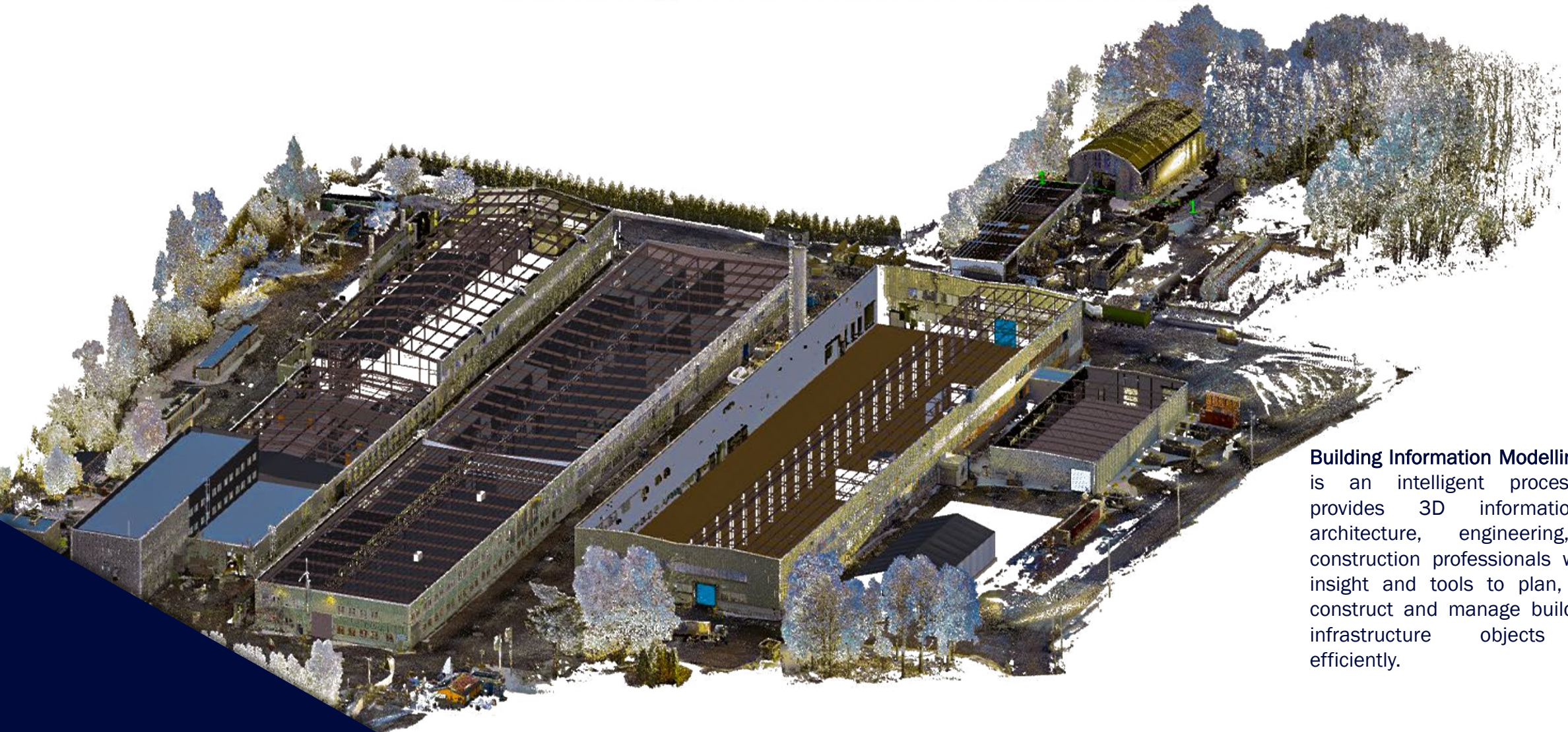
3D scanning can support the entire construction process, ensuring quality control and guarantee necessary data capture. By using a most advanced scanner from Leica we can control the quality of work progress during an investment and present deviations to our client which leads to optimise the whole process and budget.



Bridge concrete pavement surface quality control

BIM

Building Information Modelling



Building Information Modelling (**BIM**) is an intelligent process that provides 3D information for architecture, engineering, and construction professionals with the insight and tools to plan, design, construct and manage buildings or infrastructure objects more efficiently.

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