## BIM services – smart 3D modelling

#### Spatial data capturing, management, modelling and analytics services

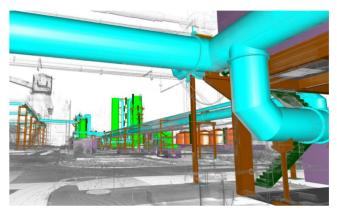
Unlock the power of innovative construction with our 3D Building Information Modelling (BIM) services. From data capturing, accurate as-built documentation to digital twins, we deliver cutting-edge solutions that streamline planning, enhance collaboration, and ensure project success. Whether it's structural analysis, damage documentation, or creating detailed 3D and BIM visualizations, we transform complexity into clarity.

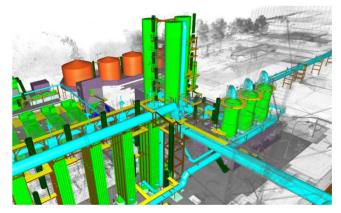
# BIM Services: More than models - gain control to make informed, proactive decisions.

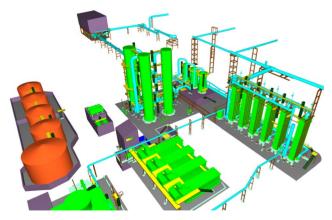
Our work serves construction and infrastructure, industrial facilities, and architecture. We deliver robust digital twins and virtual replicas, enabling seamless remote inspections and precise engineering solutions. Through BIM project management we streamline collaboration and decision-making, ensuring efficiency and accuracy at every stage of your project.

#### **Our Services**

- Data capturing 3D laser scanning, photogrammetric surveys and auxiliary data integration
- Holistic spatial data management, geographic information systems (GIS) from end to end
- Detailed 3D models and visualizations
- Building Information Modelling (BIM) with intelligent metadata and complete virtual replicas
- Integration with online and real time information and sensor data (Digital Twins)
- BIM project management to streamline planning, coordination, and execution
- Comprehensive software suite (e.g. AutoDesk Civil 3D, Revit, Bentley Systems – iTwin Capture)







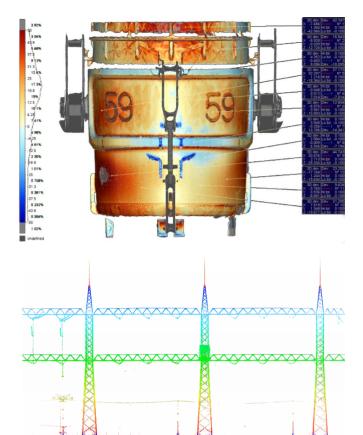
DMT 3D data/scan to BIM: application at industrial plant

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#### Your advantages

- **Precision**: Achieve highly accurate and detailed models that reduce errors and rework.
- Collaboration: Streamline communication between stakeholders with centralized and accessible data.
- **Cost Efficiency**: Minimize project delays and costly modifications with proactive planning.
- Real-Time Insights: Access up-to-date information for better decision-making throughout the project lifecycle.
- Integration: Integrate 3D and BIM models into existing workflows for smoother execution.
- Transparency: Gain a clear visual representation of every stage, ensuring all stakeholders are aligned.
- Sustainability: Optimize material usage and reduce waste through precise modeling and planning.
- Future-Proofing: Retain comprehensive digital records for maintenance, renovations, and future expansions.



3D point cloud: as-built documentation and deformation analysis

#### Projects

**ADM AG Hamburg and Straubing (Germany):** Complete 3D measurement and as-built documentation of various soya processing plants for process engineering planning in existing plants and implementation during operation.

ArcelorMittal Bremen / Stadler Schaaf (Germany): 3D measurement and creation of a planning basis for the integration of pipelines and infrastructure in existing buildings regarding the use of hydrogen for steel production.

ArcelorMittal Gijon (Spain): 3D laser scanning and creation of detailed 3D models for plant planning and recommissioning of the steelworks.

**GEBAG Duisburger Baugesellschaft (Germany):** 3D monitoring and deformation analysis of a complex retaining wall in Duisburg inner harbor (The Curve).

**Emschergenossenschaft und Lippeverband (Germany):** 3D as-built documentation of wastewater pumping stations for the planning of conversion measures and creation of 3D BIM models to use the data as a digital twin.

**RAG AG (Germany):** Complete 3D surveying and CAD modelling of the shaft infrastructure and shaft head frames of the World Heritage "Zeche Zollverein Coal Mine Complex"

**PORR Design & Engineering (Germany):** 3D laser scanner measurement, deformation and roughness analyses of ground surfaces at the FAIR particle accelerator in Darmstadt

DMT 3D laser scanning and modelling: selected projects

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