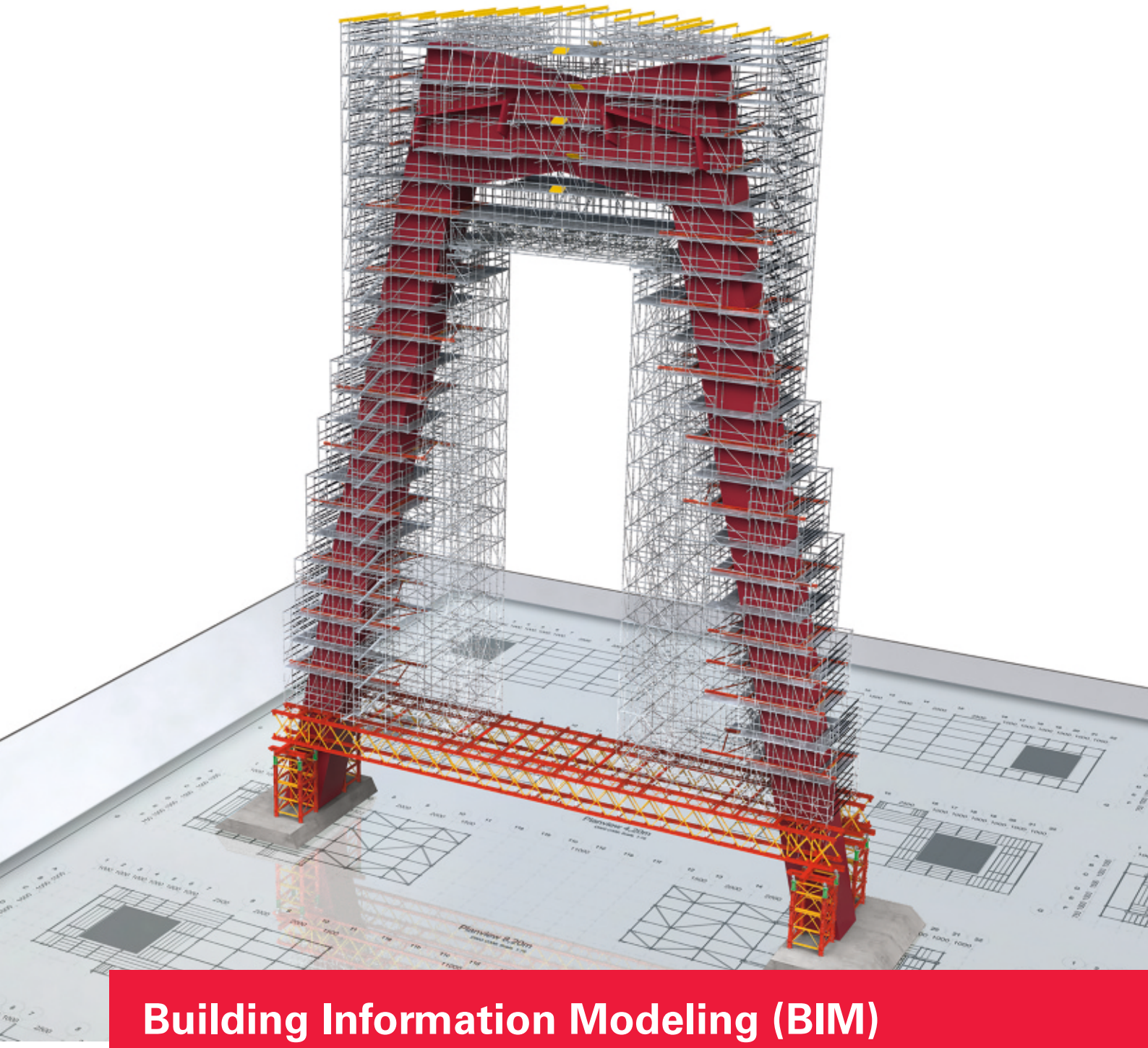

Building Information Modeling (BIM)

Model-based planning of formwork and scaffolding

Improvement of construction processes
through three-dimensional visualisations and animated process simulations before project execution

Efficient construction work and cost transparency
thanks to optimised work preparation and the integration of additional process data

Coordinated processes
due to the integrated solution from CAD design through all change processes to commissioning

PERI

Formwork
Scaffolding
Engineering

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Building Information Modeling (BIM)

Model-based processes for formwork and scaffolding

Digitalisation is significantly changing the planning, construction and operation of buildings. The entire process, which has often been small in scale until now, is increasingly being replaced by a holistic approach.

What is BIM?
Building Information Modeling is an IT-supported working methodology for planning and implementing construction projects based on an information-enriched building model. This 3D data model is enhanced with corresponding layouts, views and alphanumeric project and article information according to the application and project.

How does PERI support BIM?
PERI supports the BIM process by integrating process data for formwork and scaffolding technology in common digital database systems. Among other things, the three-dimensional visualisation of the planning is linked to the dimension of time via the cycle planning. Additional process data such as necessary plan changes are documented and tracked as an additional service in a mobile construction information management system.

What is the aim of BIM?
The cloud-based reporting features facilitate construction site- and company-wide cooperation. The all-embracing goal here is the complete integration of formwork and scaffolding solutions into the construction process. In this way, various alternative courses of action can be evaluated and selected with regard to their impact on costs, deadlines and quality already in early project phases.

What is the advantage for users?
On the one hand, the BIM methodology offers users data-based transparency. Intelligent model attachments provide clear and detailed insights into what is happening at all times, in construction work and in planning. On the other hand, the coordination of specialist models between project participants leads to improved planning quality, while the linking of information relevant to the construction process and site personnel facilitates better quality construction.

Building stands for three-dimensional building models. These can be industrial structures or infrastructure projects, as well as building constructions or historical structures.

Information means the process-relevant information linked to the building model throughout the entire building life cycle.

Modeling is the management of data models, sub-models and specialist models and involves the planning, organisation, procurement and control of information.

Your top 10 advantages with BIM:

- Planning reliability
- Data management with all project information
- 3D visualisation of the construction project with linking of information and documents
- Project information up-to-date and available at all times
- Simplified object monitoring and asset management
- Quality assurance through early detection of collisions
- Reduction of the construction cost risk
- Increase in occupational safety through system-supported approval processes
- Risk minimisation in construction work
- Data consistency throughout the building life cycle

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