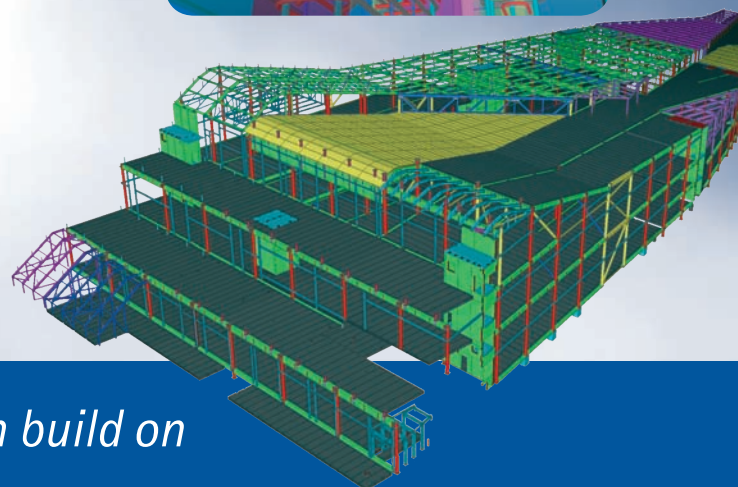
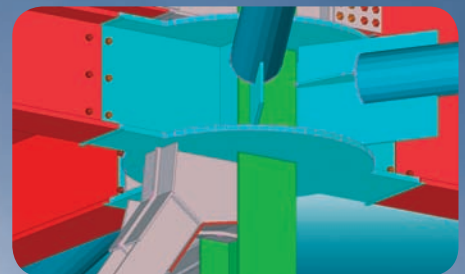
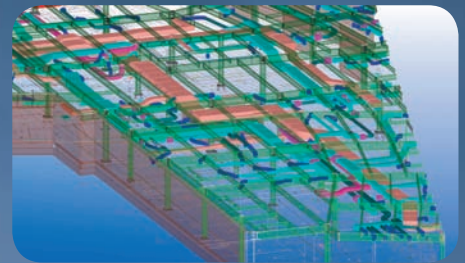




TEKLA® Structures

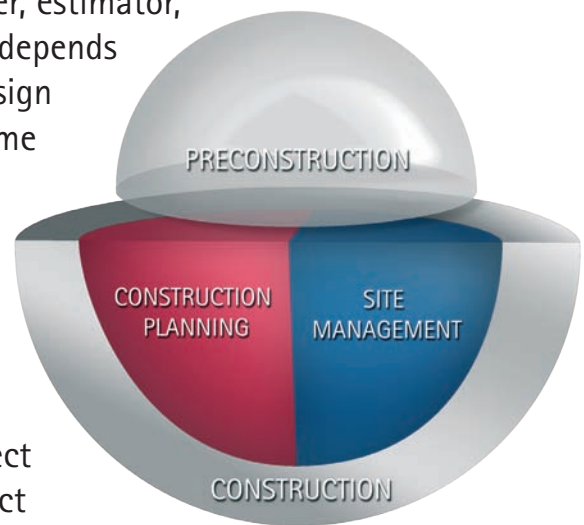
CONSTRUCTION MANAGEMENT



Tekla Structures – Models you can build on

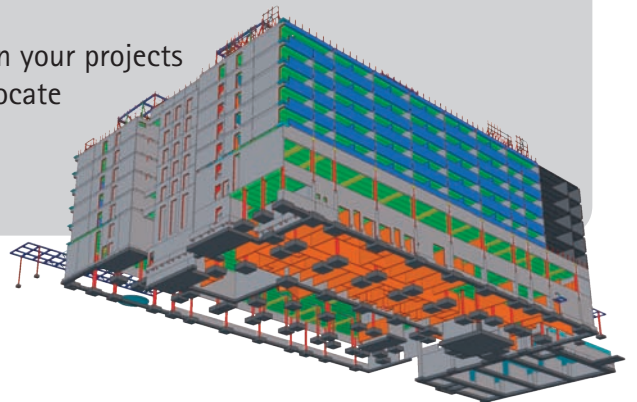
MODELS YOU CAN BUILD ON

➤ Whether you're a project executive, manager, estimator, scheduler, or site coordinator, your success depends on how you plan, communicate and manage design information during a building project. At the same time you need to monitor performance from supply to installation. Tekla Structures for Construction Management is a platform of BIM (Building Information Modeling) solutions, that maximizes downstream usage and benefits. It is a model-based solution that supports contractors, sub-contractors, and project management professionals by centralizing project data into a visual 3D and 4D context. Schedule and cost control can be realized by an effective and well-informed communication and decision-making process that results from managing the fragmented nature of both project planning and performance data.



Use the structural model provided by engineers and fabricators to its full potential:

- Model the whole process from preconstruction to construction planning and site management: plan and schedule the structures, quantities, costs and resources
- Automate data import from models, spreadsheets, schedules, web pages, company databases...
- Update and monitor impacts as changes occur in your projects
- Visualize the building in its as-built condition, locate the task in the building, and show the team an exact way to proceed!

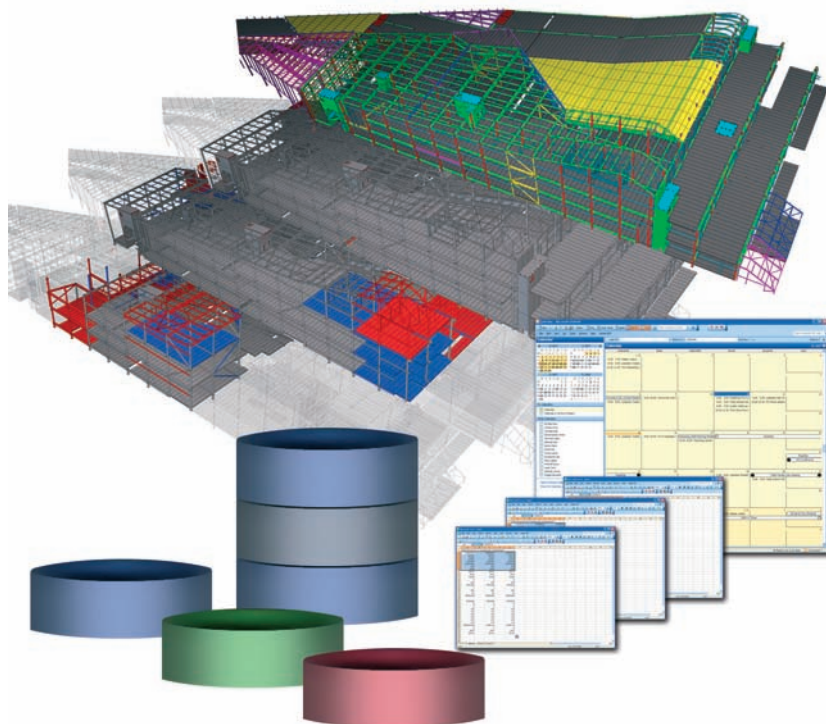


PRECONSTRUCTION

➤ To ensure the success of a building project, there are two critical objectives to meet: understanding owner expectations and interpreting the design intent. The Tekla Structures BIM process combines both building geometry and its element-specific properties. Sophisticated reporting tools allow rapidly quantifying the scope of materials provided by the design information. The visual nature of the Tekla model helps to illustrate levels of completeness, which would not be available by using traditional design tools. Quantities drive everything in preconstruction, so accurately understanding the scope of labor and materials drives both the cost determination process as well as schedule development.

Use the model to:

- Associate lead times, delivery dates, methods and materials with elements in the model
- Determine project budgets, general schedules and availability, as well as delivery and constructability constraints
- Develop design alternatives, qualifying the variety of proposal options that may suit your best practice and deliver maximum value to the project
- Mitigate the risk involved in the early stages of a project
- Communicate efficiently with project participants to help understand design intent and ultimately to meet the owner's expectations



"Tekla Structures is the most open format in regards to implementation of other file types to import and export. It's being developed into one of the most practical and powerful solutions to coordinate construction through building information modeling."

*– Ronald B. Sinopoli,
Project Manager at Barton
Malow, US*

"The model makes it easy to plan the entire construction chain of design, manufacture, delivery and installation sequence."

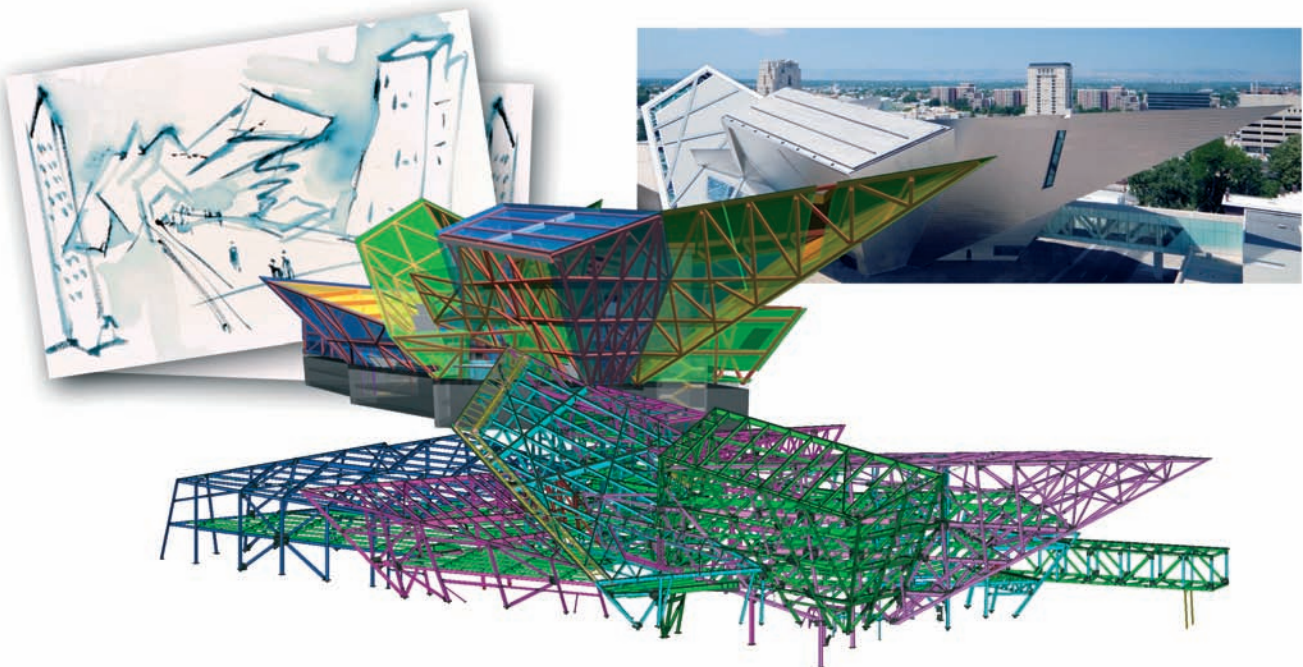
*– Annikki Karppinen,
Business Development Manager
at Lemcon, Finland*

CONSTRUCTION PLANNING

➤ Once a project is awarded, the transition starts from preliminary estimates to procuring and coordinating actual project resources. Tekla Structures software can be used to regulate the critical transfer of design information and planning data bi-directionally between the design and construction teams. Ultimately this ensures that perspectives on scope and schedule dates are clearly communicated throughout. The Tekla Structures offering of design, fabrication, and management tools enables Construction Manager with a well-informed and streamlined procurement process, and to control the costs of early purchase packages and delivery dates.

Use the model to share building information with other disciplines:

- Centralize and distribute the critical exchanges of data that will control production and activate the supply chain
- Combine and gather models created by other parties with other software
- Combine conflict detection in both geometry and schedule with web-enabled, model-driven communication tools to ensure efficient design, which translates into easier and faster fabrication
- Facilitate constructability analysis with the 3D model throughout the design and delivery process
- Visualize site layout, shapes and geometry
- Plan equipment and quantities in a digital environment, utilizing model-integrated resource data for further manpower calculations
- Minimize research and expedite the time associated with construction-phase Requests for Information
- Facilitate the submittal process amongst the project team

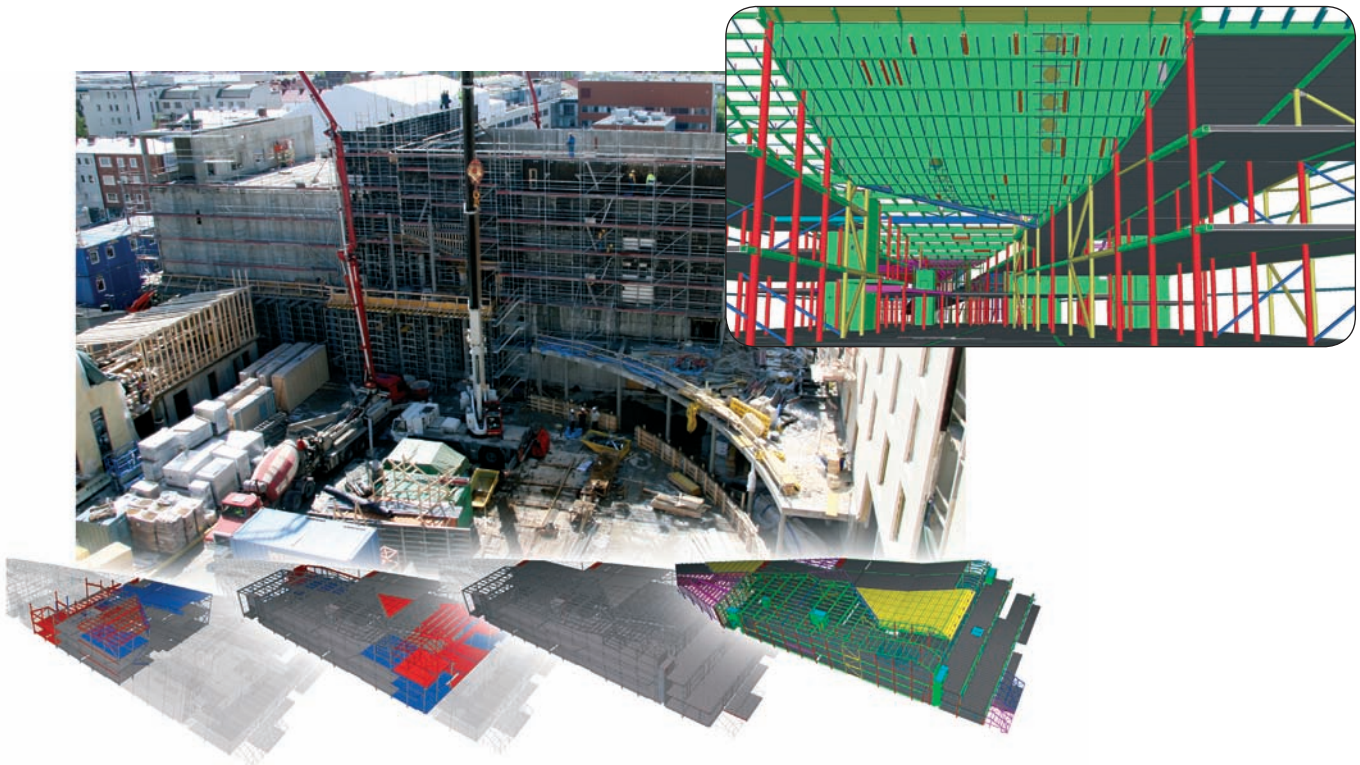


SITE MANAGEMENT

➤ During the peak of the actual construction process, project performance rapidly grows in complexity and scope as more and more providers, vendors, and subcontractors mobilize. Even before ground is being broken and the field begins preparation, site management becomes a critical aspect of project control. In orchestrating the supply chain, the delivery of materials and resources to site, as well as, in planning and executing actual installation, Tekla Structures provides fully-detailed models for reference and for the centralizing of **essential planning and management data**.

Use the model to:

- Continuously update general schedules, integrated into the model in high-detail, to balance production schedule data with daily installation or work packages
- Communicate with the supply and installation parties to ensure continuous project flow, by clearly indicating various schedule constraints in a visual environment
- Create proactive project management process that simulates and anticipates delays or difficulties
- Document and record late schedule and scope deviation, and ultimately facilitate the management of any associated claims
- Visualize, maintain and further develop early planning data, comparing project plans to the real-time performance of the subcontractors
- Experience the power of the As-Built model

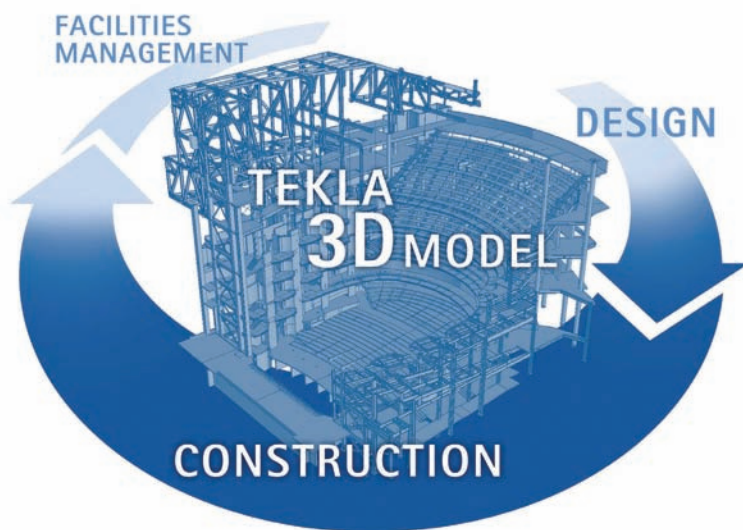


WANT TO KNOW MORE?

Tekla Structures encompasses specialized configurations for structural engineers, steel detailers and fabricators, precast concrete detailers and manufacturers, as well as contractors. Thousands of Tekla Structures software users in more than 80 countries have successfully delivered BIM-based projects across the world. Every year Tekla invests up to 30% of revenue in R&D to provide you with the leading and most advanced solutions on the market. The Tekla team of skilled professionals provides all the technical support you need.

TEKLA CORPORATION

Tekla is a leading international software company whose innovative software solutions make customers' core businesses more effective. Tekla's software products and related services are used mostly in building and construction, but also in energy distribution and by municipalities. Tekla Corporation has area offices and partner organizations worldwide. International operations account for 75% of net sales. Founded in 1966, Tekla is one of the oldest software companies in Finland.



With Tekla, BIM means wider usage of the structural model: accurate and error-free coordination of every material in every stage of design and construction

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