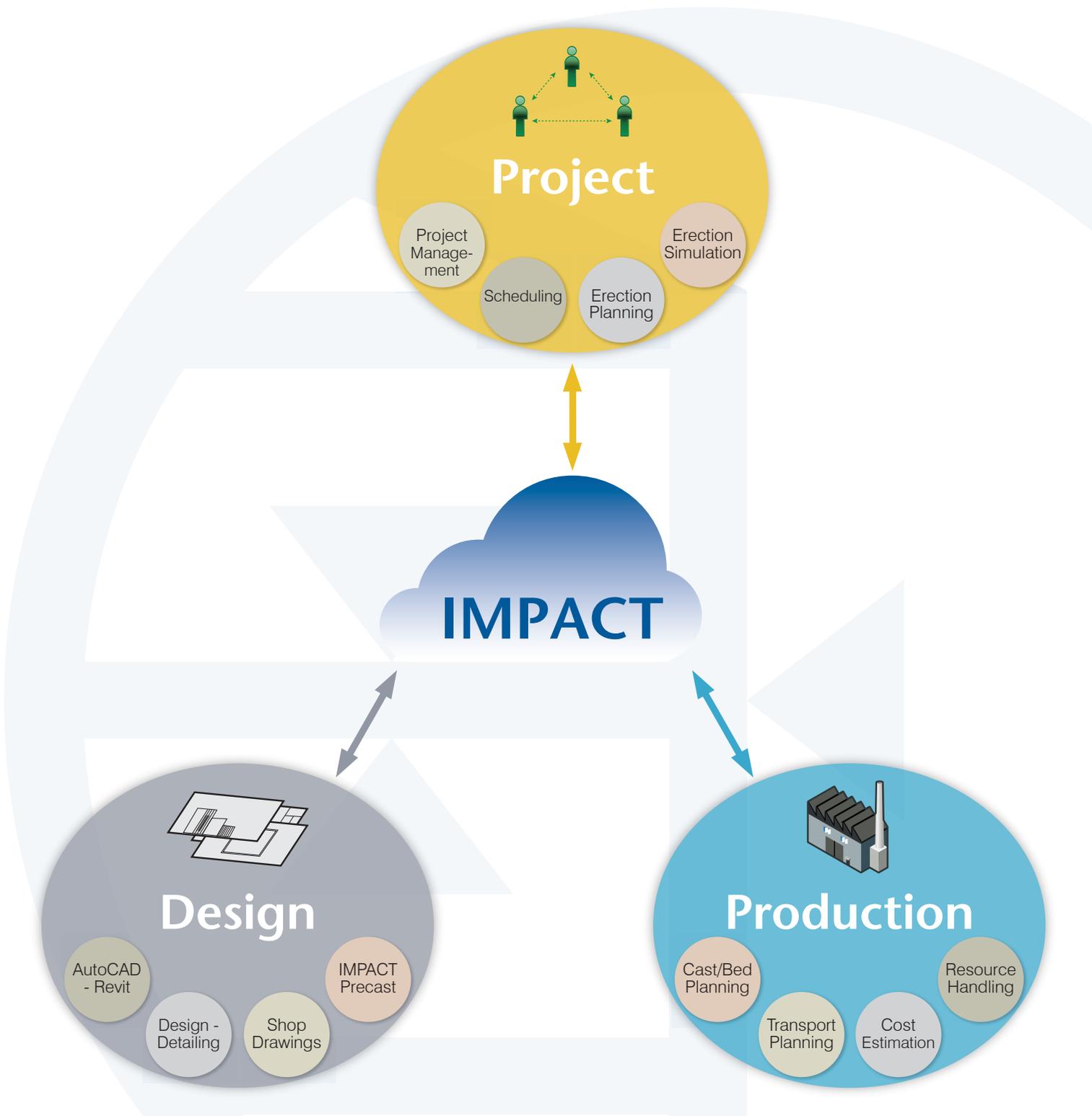




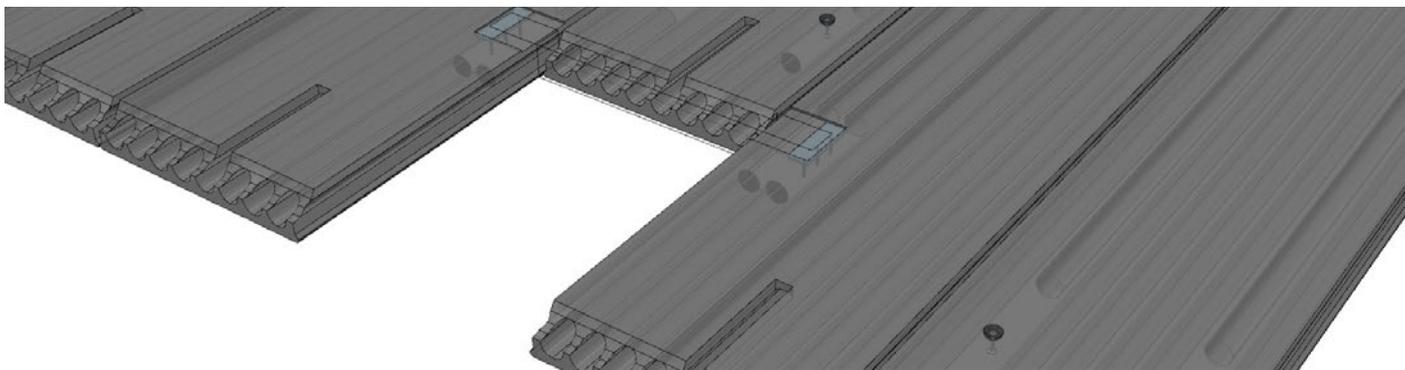
IMPACT





IMPACT is a family of **BIM** software that provides the necessary tools for the precast concrete industry to efficiently manage, design, produce, transport and erect prefabricated elements.

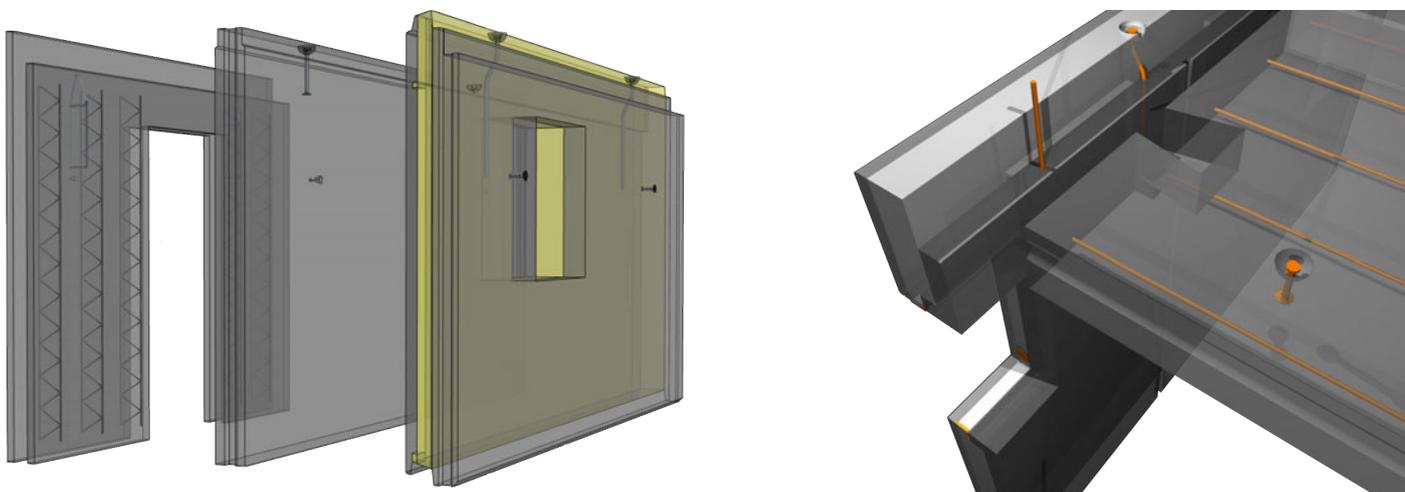
IMPACT is comprised by three main areas: **Project, Design and Production**. These areas communicate through the same open database where the Building Information Model is stored and is available to be accessed in real time by all stakeholders. Any changes from one area are reflected immediately to the others resulting in increased efficiency, accuracy and productivity, while reducing costs, avoiding conflicts and saving time.



IMPACT Design offers designers and consultants the ability to create the Building Information Model using 3D elements, with information and characteristics from the actual building elements produced by the precast factories.

Design Benefits

- ✓ IMPACT has a **fast learning curve** and delivers **immediate results** since it works within AutoCAD and Revit, while enhancing their functionality for precast concrete elements. Additionally it allows for **bidirectional communication** with other software such as Tekla.
- ✓ IMPACT offers **high quality** floor plans, shop drawings, assembly drawings and reports that are easily and automatically generated.
- ✓ Working in a 3D environment is **true to life**, helping designers to work more accurately, efficient and save time by avoiding and correcting conflicts faster.
- ✓ Continuously checking the model according to crane, mass, size and production capacities, contributes to the **overall efficiency** of the project operations.
- ✓ IMPACT component library utilizes a large number of specialist tools for **maximizing model accuracy** and is expandable in order to model any type of precast element in 3D.
- ✓ Any changes made to the model or to various elements, are saved to the database, where they are instantly available to the other members of the project. This helps with **avoiding design conflicts** and files being outdated.



The screenshot displays the IMPACT Project software interface. On the left, a 3D model shows a yellow, perforated metal element being positioned on a structure. Below the model is a 'Properties' panel with a table of element characteristics. On the right, a larger table provides a comprehensive overview of the project's elements, including their status, production, and erection schedules.

General		Cast Planning	Erection Planning	Simulate	Transport Planning	Table																			
Name	Value	Element Mark	Id	Length (mm)	Width (mm)	Height (mm)	Area (m ²)	Mass (t)	Ready for Production	Ready for production date	Producing Factory	Division	Production date	Delivery date	Erection Seq. No	Transport No	Stack No	Cast No	Planned drawing date	Planned production date	Planned storage date	Planned delivery date	Planned erection date	Stat.	
Element Mark	HC112	HC111	2576	1200	185	5,56	3,54		✗	120615					0	0	0	100020						0	
Element Id	1302	HC111	2651	1200	185	5,56	3,54		✗	120615	120306	120902			0	0	0	100020				120319	120425	120504	0
Element Type	Hollow Core	HC111	2801	1200	185	5,56	3,54		✗	120615	120206				0	33	33	100021				120319	120425	120504	0
Definition	19	HC112	1416	1200	185	5,56	3,54		✓	120615	<External>	120403			70	1	1	100017						120510	0
Product	HC19	HC112	1568	1200	185	5,56	3,54		✗	100317	<External>	120403			151	127	127	100004				120425	120525	7x	0
Lot		HC112	1835	1200	185	5,56	3,54		✗	120615					0	0	0	100004							0
Strandpattern	4																								
Quantity	15																								
Frozen	No																								

IMPACT Project offers project managers the ability to overview, support and manage all operations of a building project, from initial idea through to design, production, transportation and erection of the elements.

Project Benefits

- ✓ IMPACT Project offers a **complete insight** of the project in 3D, while including summaries and reports for all elements.
- ✓ IMPACT **streamlines the workflow** by incorporating plans and time schedules into the drafting process.
- ✓ Scheduling of design, production, transportation and erection, with element status, allows for **complete control** of the progress and **easy tracking** of each individual element.
- ✓ The simulation function illustrates the erection sequence of the elements from start to finish, providing **better scheduling and understanding** of the actual erection progress.
- ✓ IMPACT helps to create rough estimations of delivery and cast dates to make sure that the **project is on track** from the start.



PROJECT



IMPACT Production is highly customizable to the needs of any precast factory, offering the ability to plan precast elements with accuracy down to individual cast units and giving managers full control of all resources in their factory.

Production Benefits

- ✓ IMPACT provides a great **overview of all projects** by having the ability to reserve space in the factory schedule, keep tabs on cast units and staffing capacity, follow up on production, manage storage, take care of issues and rejected elements.
- ✓ Cast designs are taken directly from the 3D model resulting in **accurate and precise casts**. The process becomes simpler and with fewer steps, since design and production have access to the same model.
- ✓ Quantities of cast-in materials, reinforcement and holes are provided in a separate report. Bill of Material (BOM) lists are automatically generated and updated according to production designs, hence **avoiding outdated and conflicted lists**.
- ✓ Advanced cost and resource management tools give a **holistic view** and increased control over the project.
- ✓ IMPACT also supports a number of export formats to **production planning systems (ERP)** and production automation systems including Unitechnik, BETSY, ELIPLAN and BVBS, as well as customer specific exports.

Mobile

IMPACT brings the ability to gain access to the BIM model from everywhere with the convenience of mobile phone applications.

▶ Track element status with detailed information.

▶ Ability to scan QR codes to update the BIM database about element status.



Impact Mobile		
SELECTION	HISTORY	
6 ELEMENTS		
P022	Not Approved for Production	10
Element ID: 1248		
P023	Not Approved for Production	10
Element ID: 1249		
P024	Not Approved for Production	10
Element ID: 1250		
P025	On Waybill	60
Element ID: 1254		
P003	On Waybill	60
Element ID: 1255		
P026	Scheduled	30
Element ID: 1256		

Impact Mobile	
PROJECT NAME	136617
GENERAL	
ELEMENT MARK	P022
ELEMENT ID	1248
GROUP	RP 50/60
ELEMENT TYPE	Column
DEFINITION	RP 50_60
PRODUCT	RP
LIFT	0161

PRODUCTION



IMPACT

StruSoft is an innovative Swedish software company with more than 35 years of experience in specialized software applications for analysis, design, modelling and energy for the building industry.



FEM-Design

Finite element software for analysis and design of load-bearing concrete, steel and timber structures.



WIN-Statik

A suite of easy to use applications for common design tasks such as beams, columns or frames.



PRE-Stress

Analysis and design software for complete product life calculations of prestressed beams.



IMPACT

A family of BIM software to efficiently manage, design, produce, transport and erect prefabricated concrete elements.



VIP-Energy

Fast energy balance analysis for buildings using a dynamic calculation engine.



BIMcontact

www.bimcontact.com

Web-based project collaboration and document management system for the building industry.

Villa Suprême, the head office in Malmö, Sweden
Cover photo: Malmö Live by Pia Hansson

StruSoft

www.strusoft.com/impact