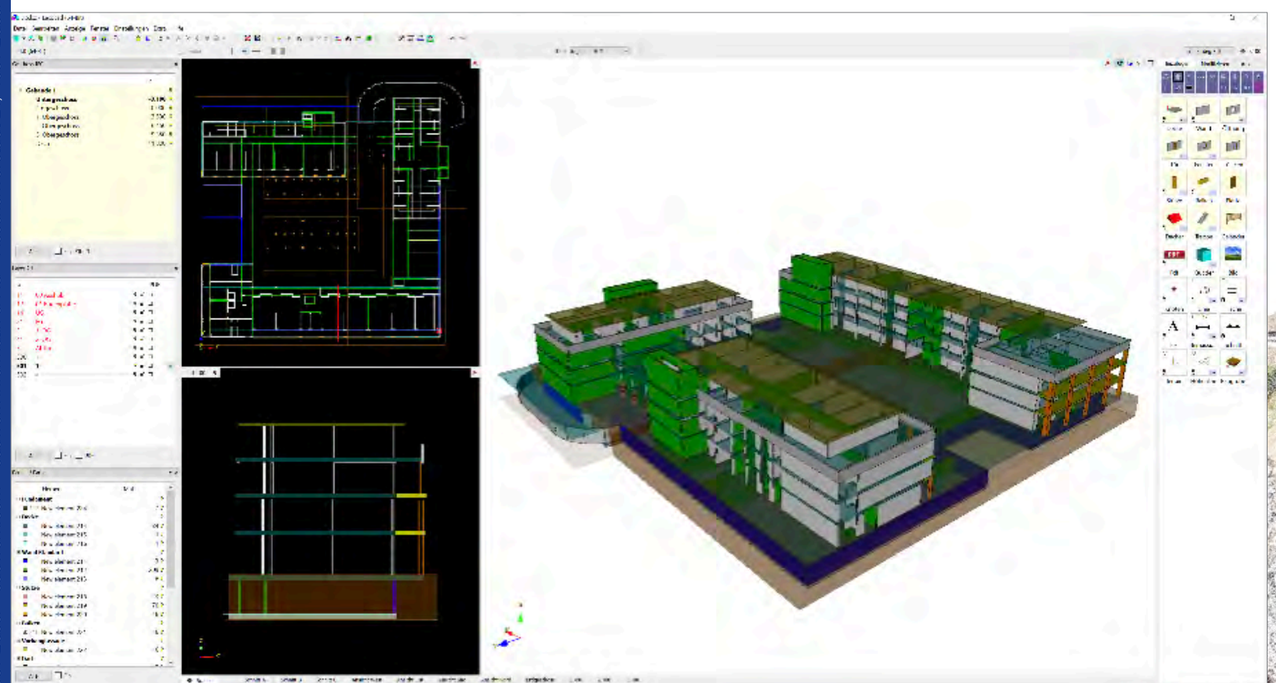
cadwork

Contractor

Cadwork for contractors

The cadwork software solutions can be used in various fields of activity. can be used. The following software solutions exist:

- ***cadwork 2D***
- ***cadwork 2DR***
- ***cadwork 3D***
- ***lexocad***
- ***BIMteam***



Lexocad

Lexocad is a software of the cadwork product range that can be used stand-alone or as a complement to the other cadwork software solutions. Lexocad is a BIM software solution with a wide range of functionalities, whereby a user-friendly and simple handling is, as always, in the foreground.

On the left side there are windows with which, among other things, the visibility of the layers or the individual components can be controlled. In the menu on the right, construction elements and auxiliary lines can be added and existing elements can be modified. Lexocad supports multi-window technology, which simplifies your workflow. Thanks to the viewports, you can see your model and your 2D views at the same time. With just one click, you can switch between 3D model, floor plan and sections. These views can be saved as scenes in the bottom bar and called up directly.

Lexocad offers a smooth transition to cadwork 2D, 2DR and 3D. IFC import/export is available for exchange in a BIM project. Triangulations and point clouds can also be imported. Furthermore, image files and PDFs can be imported or exported as a basis. Lexocad's wide range of functionalities enables an extensive field of application:

- ***Modelling of structures***
- ***Parameterised components***
- ***Planning of building site installations***
- ***Quantity take-off for calculation***
- ***Construction sequence planning for construction programme***
- ***Modelling of excavations***
- ***Planning of special civil engineering***
- ***Terrain modelling and processing***
- ***Quantity take-off for billing***
- ***etc.***

Data basis

Various formats can be imported into lexocad:

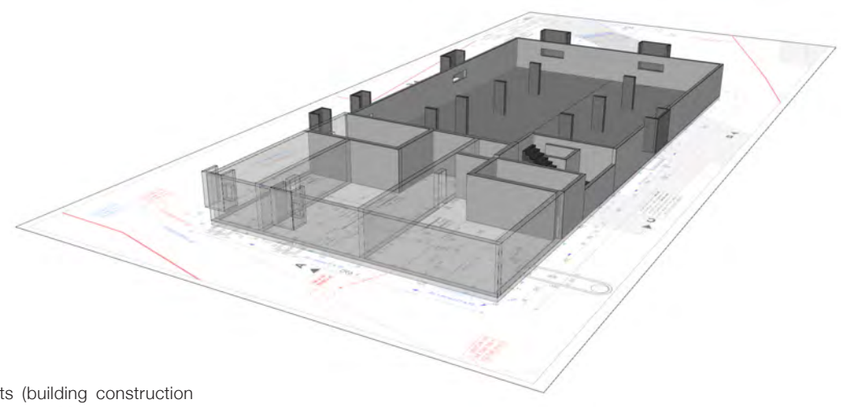
- ***2D plans (PDF, DWG*, DXF*)*** **Import via cadwork 2D*
- ***Models (IFC & BCF)***
- ***Drone models (OBJ)***
- ***Survey points (TXT)***
- ***Point clouds (as LAS, PTS or geotiff)***
- ***Swisstopo Data (integration)***

On the basis of the imported data, further work steps can be carried out.

- On the basis of PDF plans, for example, a building construction object can be constructed in order to carry out quantity take-off, to plan building site installations or to create a construction sequence plan.
- Survey points can be imported to model a terrain, which is then exported as DWG for the excavator.
- Survey points can be imported to model a terrain, which can then be exported as a DWG for further use.
- Swisstopo integration can be used to quickly create an environment model that can be adapted and combined with the construction project for visualisation purposes.

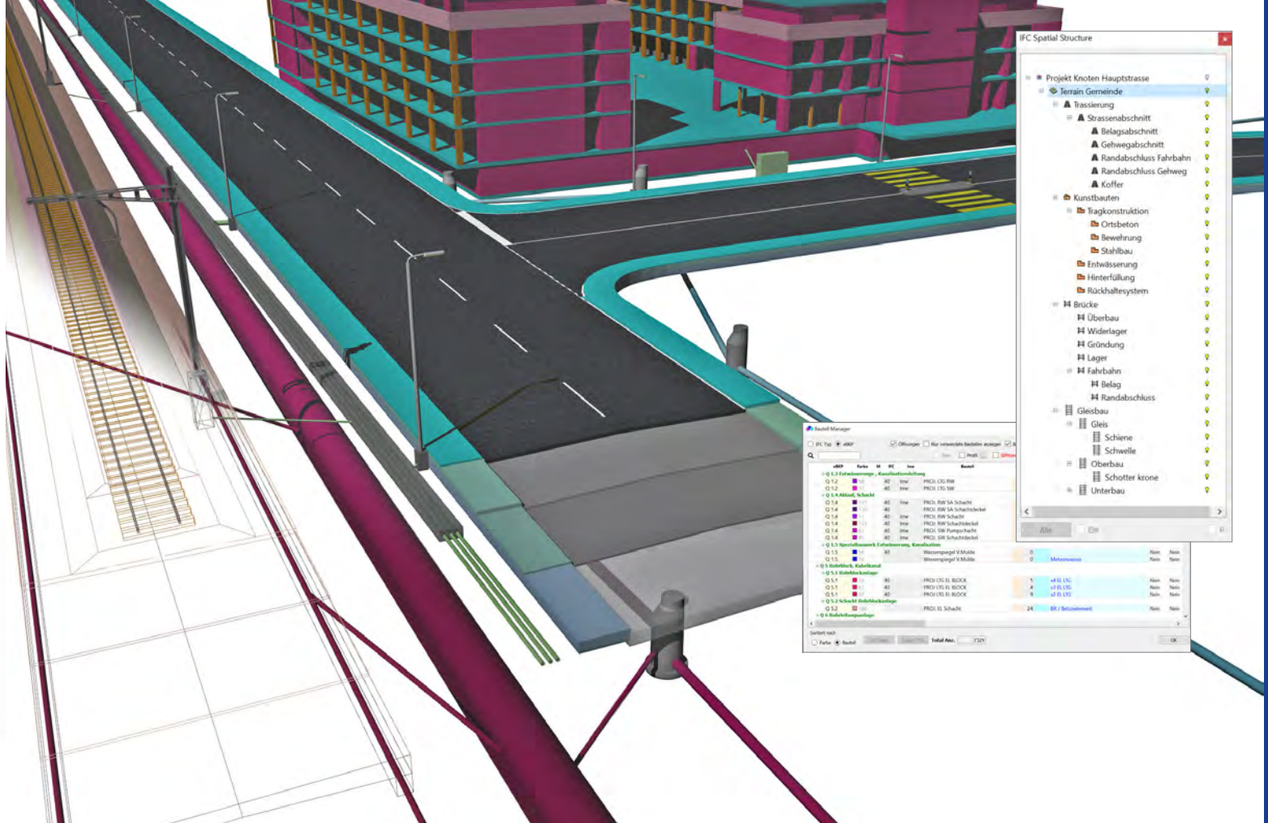
With lexocad, various formats can be exported:

- ***2D plans (PDF, DWG*, DXF*)*** **Export via cadwork 2D*
- ***Models (IFC & BCF)***
- ***Drone models (OBJ)***
- ***Survey points (TXT)***



Modelling options (2DR road & lexocad)

Lexocad can be used to model various objects (building construction models, excavation pits, road projects, track objects). PDF plans can be imported, e.g. to create a building in 3D quickly and easily with lexocad's modelling functions.

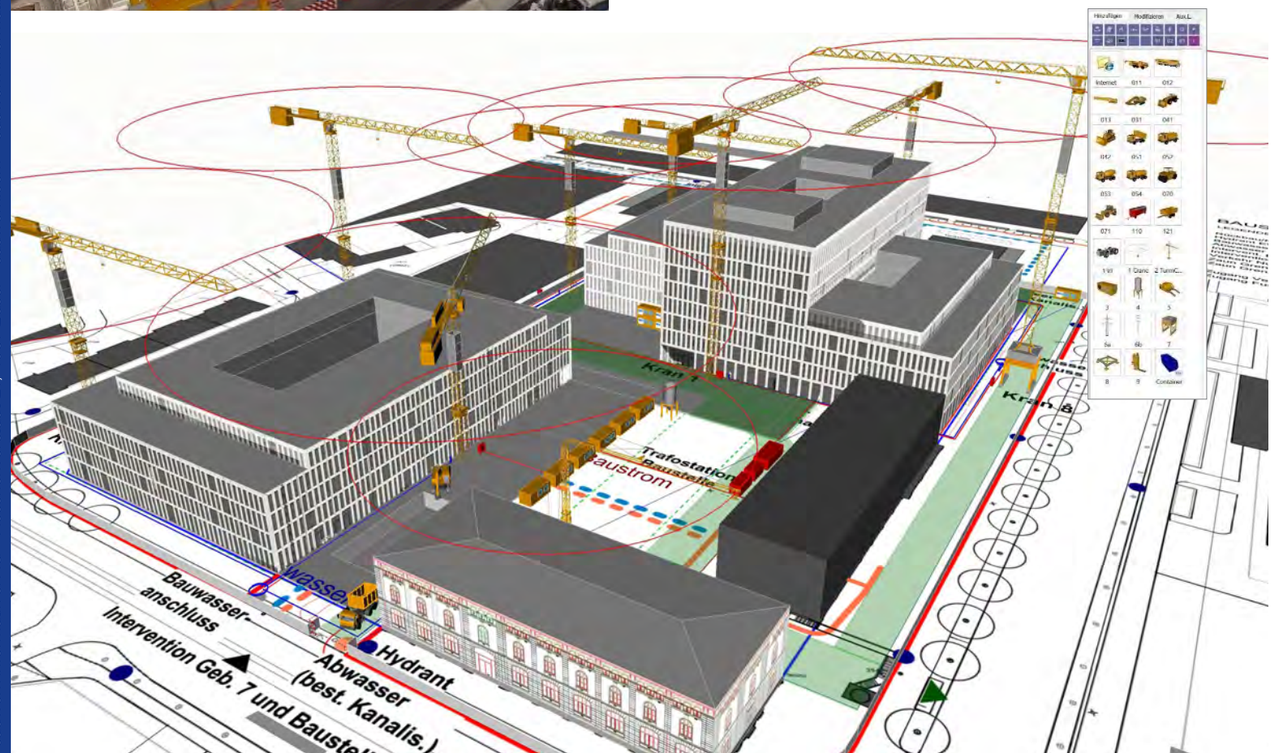


Building site installation

With lexocad you can easily and quickly plan and visualise your construction site. Check the feasibility, plan processes and create a construction site installation plan.

With the help of the available catalogue components and the parameterised components, you can plan your construction site installation in a short time. You can drag and drop cranes, vehicles, fences, containers, etc. from the library into the workspace and complete your site installation. Envelope areas can be modelled and text added.

The 3D site installation plan can be exported as a PDF or as an IFC model.

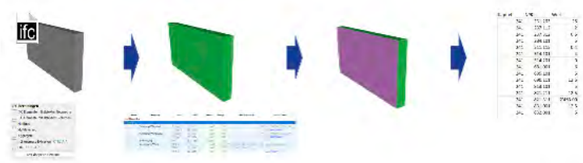


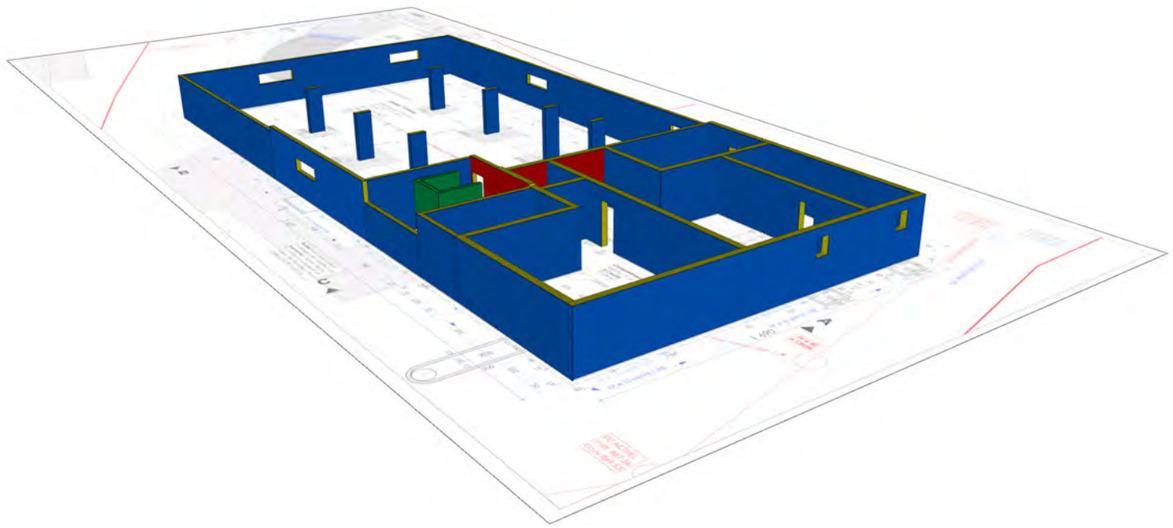
Lexocad quantity take-off

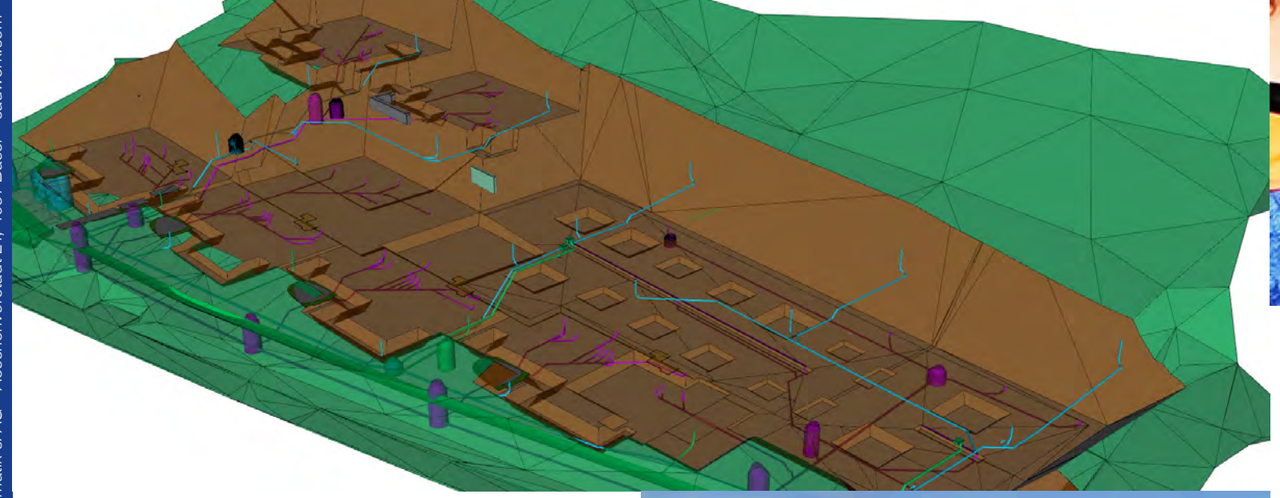
Lexocad offers various quantity take-off options with which quantities can be determined quickly and easily. Individual quantities can be determined, but automated quantity determination functions can also be used. Possible areas of application are:

- Quantity take-off for positions
- Quantity verification
- Quantity determination for duration of the construction program
- Quantity take-off for billing

With the Lexocad Parts Catalog (LBK), quantities can be determined automatically. The Lexocad Parts Catalog can be individualized, whereby quantities can be determined automatically according to your needs. The quantities can be exported as a csv. file.







Excavation / Terrain

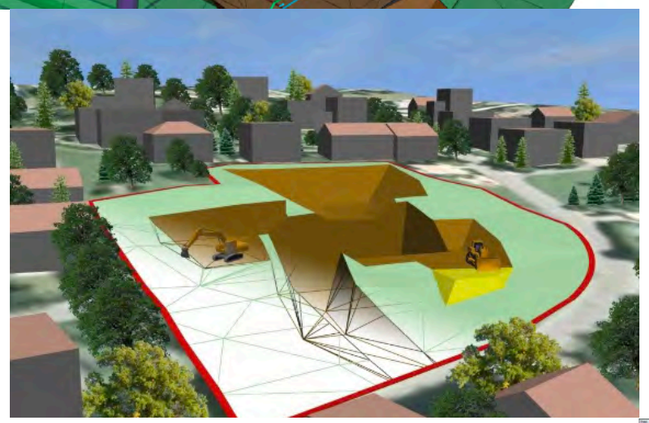
Excavations can be modeled to visualise the excavation in three dimensions and to determine the quantities. Nodes can be set to be further used for surveying.

- ***Volume***
- ***Special civil engineering***
- ***Excavation fuses***

Besides intersecting terrain, lexocad offers the possibility to export a single terrain only as a triangular mesh instead of a volume. Thus, excavation volumes can be divided according to this triangular mesh.

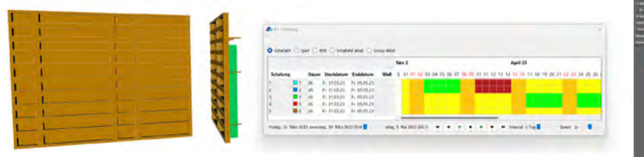
Construction process

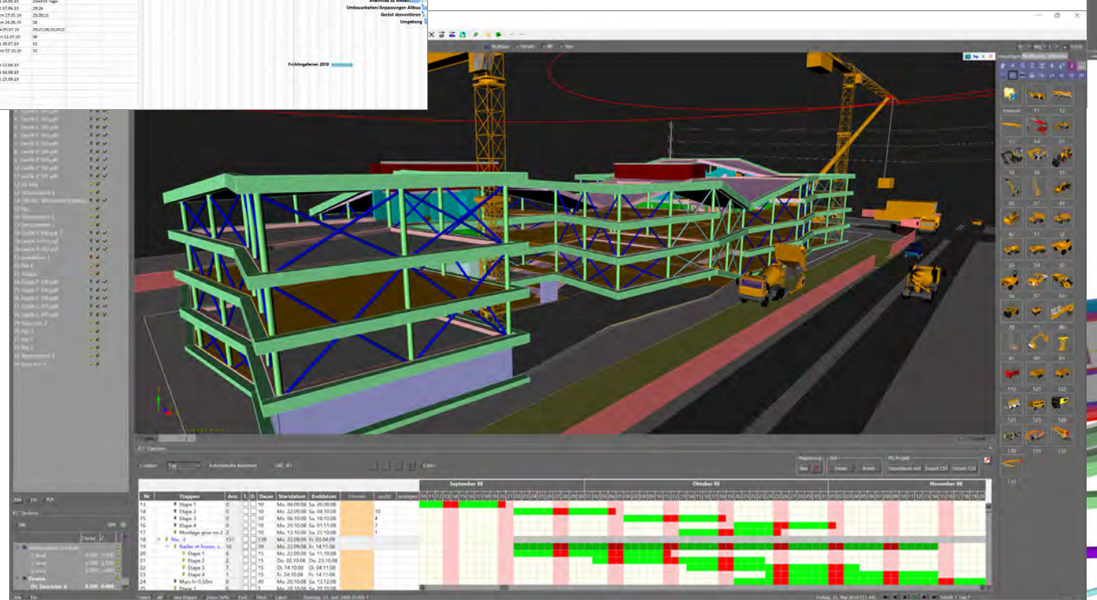
In the stages window you can import MS Project data or create your own construction stages. You can link these with elements and show or hide them on the desired date. The planned construction process can be imported into MS Project in order to use it as a construction program. Thus you have all construction phases in view and can create a 3D animation of the progress of your construction site.



Plan system formwork

The system formwork can be planned in 3D, which means that the exact number of used system formwork can be determined. The surplus of system formwork on the construction site can thus be counteracted.





BIMteam

CDE Platform & BIM2Field

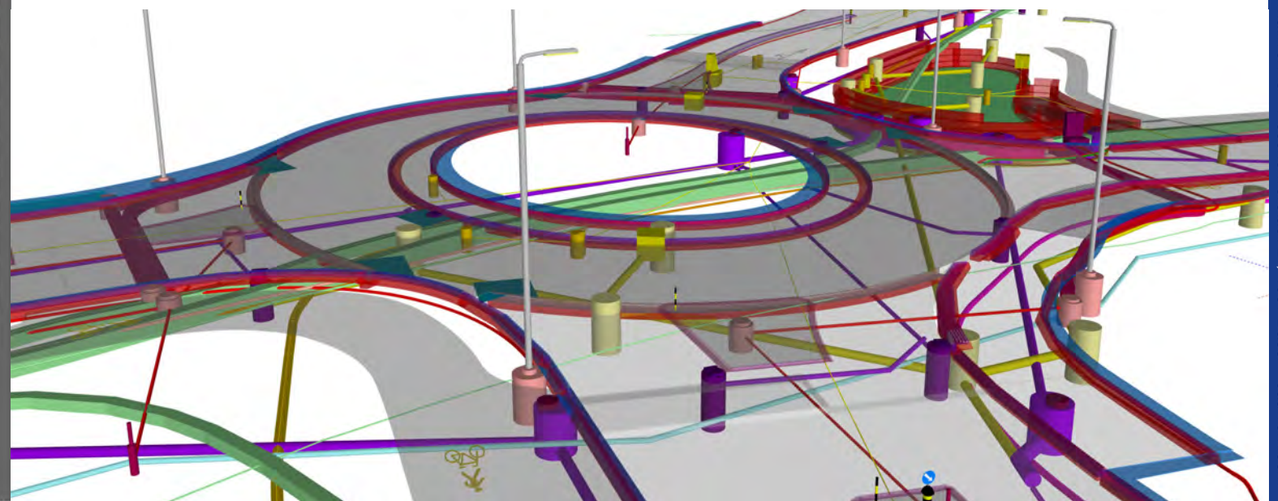
BIMteam is a cloud-based project platform (CDE) and can be used as a common data environment as well as for BIMtoField. 3D models and other data can be easily stored, shared and managed on the website. BIMteam is not only a platform for planning, it also serves as an interface to the construction site. Models can be shared via a link and accessed directly on other devices, e.g. on the construction site. No programme needs to be installed to open the models. With the BIMteam Viewer, reinforcement can be visualised and laid, for example. With the BIMteam Viewer, model-based surveys can be carried out cloud-based. It was developed for foremen and offers easy handling. It is possible to control different surveying devices. Points can be measured and saved (point list).

Cadwork 2D

Cadwork 2D provides you with easy-to-learn software to create precise 2D drawings. The intuitive user interface helps you to get started quickly.

Cadwork 2DR

The cadwork 2DR programme supplements the basic cadwork 2D module with various calculation functions with intelligent elements. Create and edit terrain data (DTM) including the possibility to calculate excavations in 3D and then use the variant tools to construct roads, sewers and railways on them. Many export options are available to generate point lists or quantities. Situation, length and cross sections can be exported back to cadwork 2D with user-defined templates to add the finishing touches to the plans. Or play the data into the 3D world of lexocad and capture your project as a BIM model.



About cadwork

Cadwork informatik CI AG was founded in Switzerland in 1990. Since then we have been offering our customers a comprehensive range of products for civil engineering and construction companies. Besides the easy to use software, our customers appreciate the direct line to our support and the close cooperation.