



Metropol Parasol
J. MAYER H. Architects
www.jmayerh.de
Photo © David Franck

ARCHICAD IS BIM

AND BIM IS PRODUCTIVITY

ARCHICAD is the world's leading BIM application that offers quantitative productivity gains for design and documentation workflows, improved communication and error-free round-trip coordination — all while allowing you to create breathtaking renderings with ease.

GRAPHISOFT
A NEMETSCHEK COMPANY

INCREASED PRODUCTIVITY

WORK ON A SINGLE 3D BIM DESIGN WITH FAMILIAR TOOLS



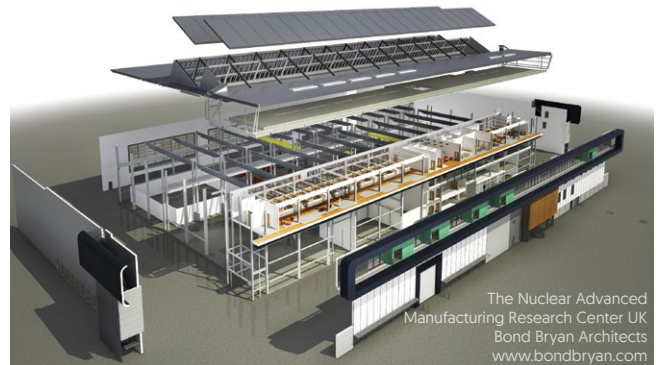
Haparanda Tornio Resecentrum
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Photo © Sakari Vierola

Stop Rework

ARCHICAD's Building Information Model represents one, single 3D design model, the digital equivalent of a real building. Any modification in the central, 3D model will instantly replicate in all other views [plans, sections, elevations], design details, layout sheets, construction documentation, schedules and cost-estimations, etc. BIM saves time and reduces design inconsistencies.

Familiar Tools

ARCHICAD offers the most design-oriented and innovative tools available on the market today. Work with digital yet identical versions of Walls, Roofs, Openings, Skylights, Corner-Windows, Curtain Walls, Stairs and Railings. 3000+ architectural design-specific, parametric library parts are at your disposal. All ARCHICAD design tools, element settings and workflows have been designed with architects in mind — and will already be familiar to you. ARCHICAD is easy to learn and fun to use.



The Nuclear Advanced
Manufacturing Research Center UK
Bond Bryan Architects
www.bondbryan.com

Design Continuity

BIM is not only 3D design, but also a process for creating and managing design data for the entire life cycle of a building. ARCHICAD ensures that from schematic design through construction documentation; from interactive model walk-through till open collaboration, the architect is in full control.

Documentation made easy

Automatically updated, one-click documentation makes even the most tedious tasks fast and easy. ARCHICAD helps not only in creating the documentation faster, but also provides stringent quality assurance through automatic coordination of the different views.

STREAMLINED WORKFLOWS

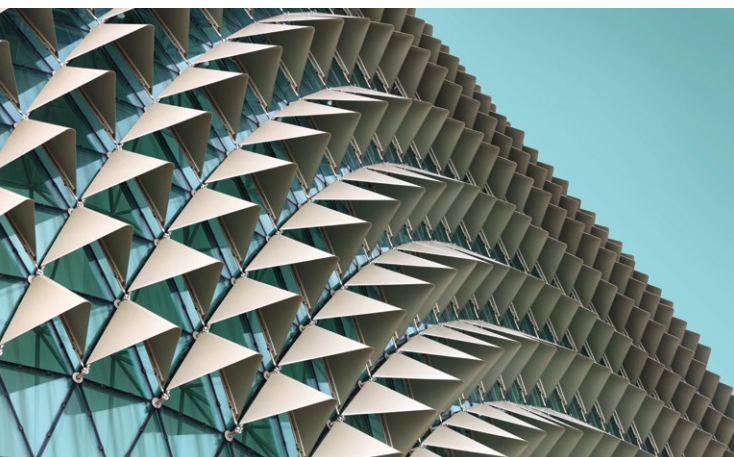
MADE BY ARCHITECTS, FOR ARCHITECTS

Schematic Design

ARCHICAD reads conventional 2D data (DWG, DXF), understands point-cloud laser scans and includes an integrated SketchUp connection. Dedicated tools to develop conceptual design alternatives result in informed design decisions by using accurate per-story surface areas derived from a simple mass model.

Algorithmic Design

The ARCHICAD-Rhino-Grasshopper toolset offers a live, bi-directional connection and enables architects to work with free-form, algorithmic design geometries and accurately transform these into full-fledged BIM elements.



Charles Perkins Centre, Sydney, Australia
fjmt | francis-jones morehen thorp - www.fjmtstudio.com
Photo © John Gollings

Energy Analysis

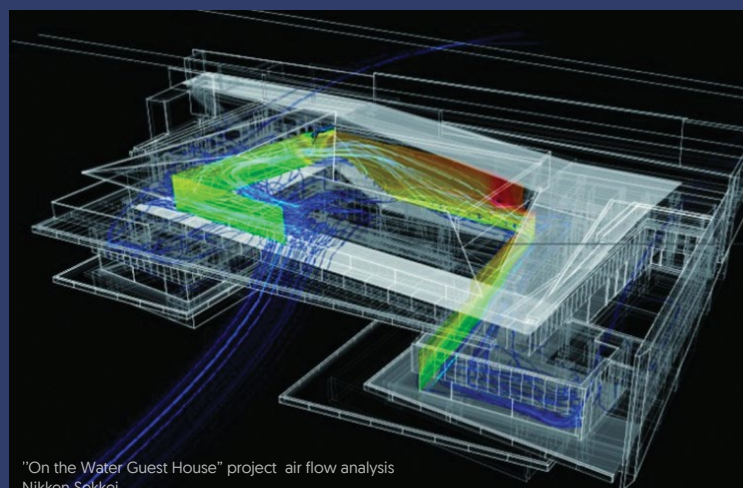
The built-in Energy Analysis enables architects to perform quick, reliable and dynamic energy evaluations with standard-compliant technology without the need for additional training. The results are displayed in easy-to-read charts and graphs and help bring informed design decisions, supporting design presentations for clients.

Collision Detection

Collision Detection automatically identifies and lists potential collisions of 3D model elements. Allows for smooth coordination of the work submitted by engineers and consultants using various applications.

Publisher

The Publisher collects, organizes, automates and simplifies the repeated and consistent output of customized documentation sets in a variety of formats, including conventional 2D (DWG, PDF) and 3D (IFC, BIMx) formats.



"On the Water Guest House" project air flow analysis
Nikken Sekkei

ULTIMATE COLLABORATION

UNIVERSAL OPEN BIM APPROACH AND OPEN COLLABORATION WORKFLOWS FOR TEAMS OF ANY SIZE

Teamwork

ARCHICAD's Teamwork enables architects to work on the same design project at the same time. Carefully defined roles ensure that team members can access, edit or view only the part of the project that is relevant to their actual work. Color-coded workspaces and on-demand element reservation combined with real-time team-messaging helps architects review, discuss and resolve design issues on the fly.

BIMcloud

BIMcloud guarantees fast and secure teamwork, scalable to any size team and project, ensuring 24/7 uninterrupted teamwork for offices located across continents. Patented „Delta-Server” technology makes it possible for only the modified elements to be shared; send and receive operations happen in a snap and colleagues can join the project using even a mobile Internet connection. Design studios can deploy their workforce much more efficiently with a dynamic and centrally-controlled design workflow.

The free BIMcloud Basic product plan enables even smaller practices – including one-man operations – to benefit from automated project backups. BIMcloud offers architects peace of mind knowing that projects are always safe and secure.



Interactive BIMx Hyper-model on a mobile device



BIMx

The award-winning, free BIMx app enables clients and other stakeholders to discover and fully understand the architect's design proposals using mobile devices – such as tablets or smart phones. The interactive 3D model — hyperlinked with 2D documentation layouts — can be explored using familiar, game-like navigation and gestures. Construction professionals can use BIMx for on-site coordination, markups and instant messaging with the design teams.

BIMx Web Viewer works with all common Internet browsers and lets you access the full content of a BIMx Hyper-model without having to install any application or plug-in. Hyper-models can be shared with anybody given a link or integrated on the architect's own website.

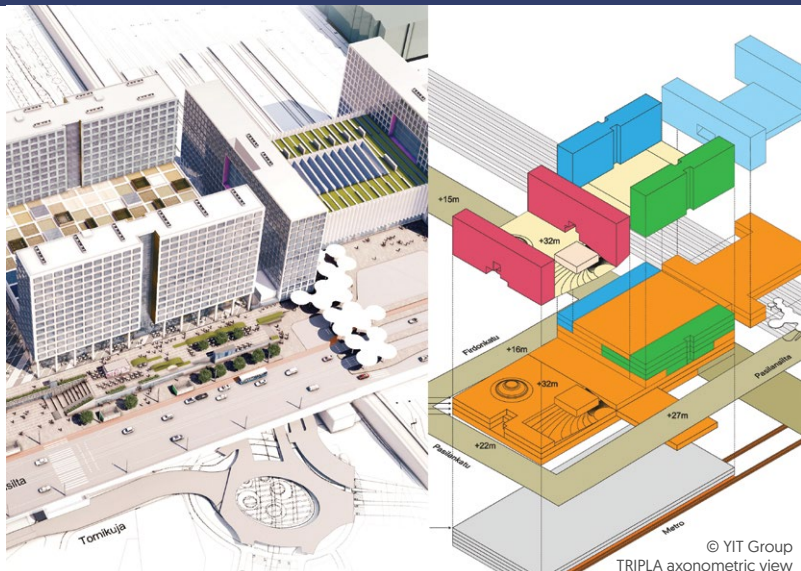
File Exchange

ARCHICAD reads and writes a wide-range of formats out of the box, including various point-cloud; raster- and vector-based drawings; image and model-based, 3D file formats (DWG, DWF, DXF, DGN, 3DS, 3DM, OBJ, FACT, VRL, LP, SKP, U3D, KMZ, STL, PSD, PDF, EMF, WMF, BMP, JPG, GIF, TIF, PNG).

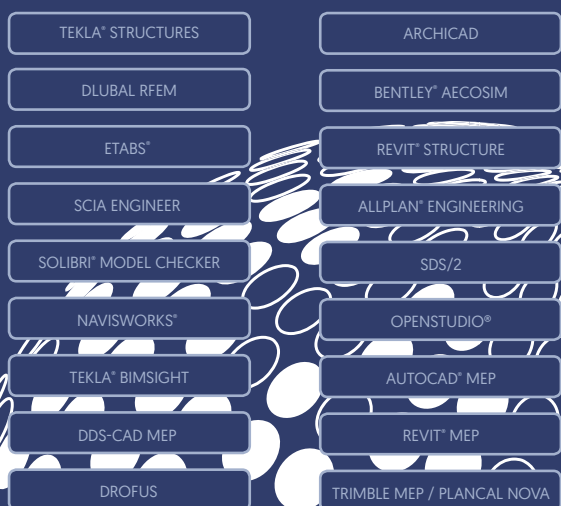
Once the content and the output file type of the documentation sets have been configured, Publisher offers a simple “one-click” publishing process; even last-minute design changes will be captured in the published sets.

The **ARCHICAD-Solibri** connection enables seamless code- and constructability checking at any stage of the design. The add-on automatically detects and sends only those elements in the ARCHICAD model that have been changed, resulting in faster round-trip collaboration.

The **ARCHICAD-dRofus** connection allows architects to capture and organize client planning requirements and use these to validate and propose design alternatives. The dRofus database enables designers to collect and handle planning rules and design data with ease, even when working on large and complex projects.



The **Rhino-Grasshopper-ARCHICAD Toolset** connects the best tools for the different design stages and closes the gap between early stage design and Building Information Modeling. A free add-on enables Rhino/Grasshopper and ARCHICAD to communicate directly in order to create and manipulate a BIM model in full or in part, through Grasshopper's visual scripting interface.



+ More
than

200
application
support IFC

OPEN BIM

Thanks to ARCHICAD's BIM-based, open collaboration workflows, architects can enjoy managed, round-trip design exchange with consultants and engineers using other software solutions.

ARCHICAD's certified IFC connection and built-in translators ensure that only the relevant BIM elements are shared and all information is preserved. Built-in collision detection and project markup tools secure streamlined, error-free collaboration with all disciplines.

ARCHICAD is internationally recognized as the BIM solution providing the most comprehensive IFC import and export. Users have absolute control over the element parameters to be included in the IFC file. Revision management and color-coded markup tools help round-trip IFC data exchange. Several vendor-specific IFC translators are available out of the box to ensure accurate design information exchange [Tekla, Revit, DDS-CAD, etc.].

PROFESSIONAL PRESENTATION

TAILOR-MADE
PRESENTATIONS
DURING ANY PHASE
OF YOUR PROJECT

White Renders

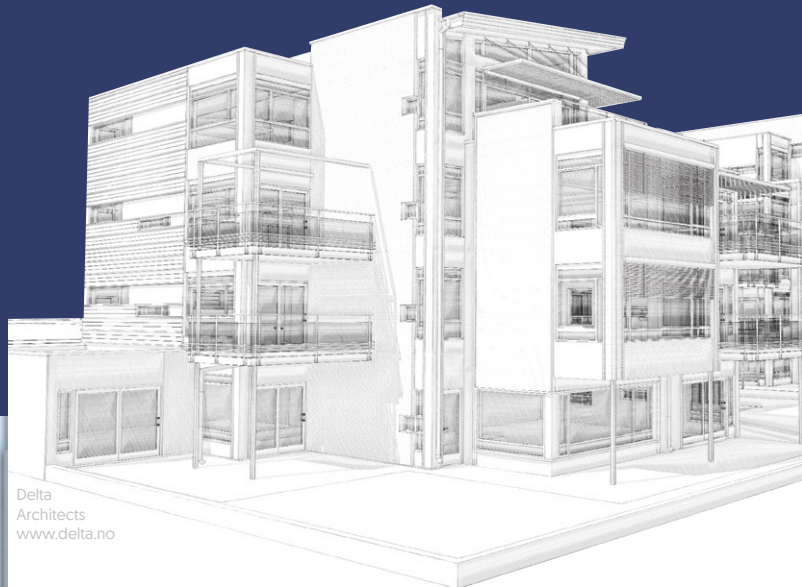
CineRender includes a "White Model Render" tool designed especially for architects. White renders are similar to physical 3D models made of clay or cardboard that architects love to use to present the feeling of space, the proportions of building volumes or to simply visualize conceptual design ideas in a professional manner. A white render displays all elements and surfaces in shades of white, helping viewers to focus on the architectural design concept.



The Tang Dynasty Style Sightseeing Pavilion
Architect: Lu Yongle
Company: Zhejiang T.R. Architectural Design Co., Ltd.

CineRender

Maxon's CineRender engine ensures a seamless modeling-to-render workflow and professional image quality with the click of a mouse. Thanks to the various pre-set indoor and outdoor rendering scenes, there's no need for rendering expertise. Building Materials and Surface Libraries ensure that every modeled element is prepared and ready to render. The Surface Painter lets you try different looks by changing finishes on the go. ARCHICAD offers direct export to Cinema4D, Artlantis, Twinmotion and 3ds Max to create professional animations.



Delta
Architects
www.delta.no

Sketch Renders

ARCHICAD's built-in Sketch Rendering enables designers to create sketch-like project presentation images. A wide range of "ready" scenes can be selected with one click: edges, surface textures or pen styles. Sketch renders are often used to present the design in the early design phases to provide an overall impression about the future building.



ARCHICAD: Revisiting | Visualization — New opportunities for architects | Architect: Svetlana Kravchenko

ARCHICAD PERFORMS

HANDLE LARGE AND
COMPLEX PROJECTS
WITH INCREASED
RESPONSIVENESS AND
NO INTERRUPTIONS

Instant Model Updates

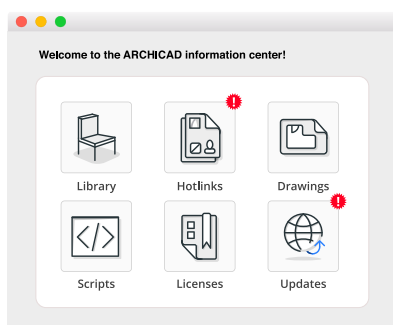
ARCHICAD's predictive background processing enables you to generate instant model updates on any part of the model by anticipating what you might do next and preparing for it in the background. It is also used by ARCHICAD to check the status of external reference files and drawings, while server communication is carried out in a separate thread. This results in faster feedback and dramatically reduces response times, enhancing general responsiveness.

Smoother, faster 3D navigation

Thanks to the optimized OpenGL, ARCHICAD ensures smooth and lightning-fast navigation – even on extremely large building models.

Responsiveness

ARCHICAD is extremely responsive, thanks to the improved Start-up/Open process. Now, you can get straight to work without any interruptions; ARCHICAD will collect and address all the dialogs under an 'information center' tab for you to manage at your convenience. Tab previews make the View Change process easier, while faster model import and export support efficient data exchange. In addition, reduced project sizes allow faster file opens, as well as faster drawing updates.



64-bit computing

Working on large and complex models is not a problem for ARCHICAD, which effectively utilizes all the RAM your computer has and enables you to work on projects of any size and scope. ARCHICAD's robust 64-bit architecture enables the display of large models, while optimized scaling of multiple-core CPUs boosts performance when working on large, complex projects.

Multi-threading

ARCHICAD takes advantage of multiple cores and processors in various computing-intensive areas. Multi-threading allows faster generation of Sections, Elevations and 3D displays; faster drawing updates and renderings; smooth panning and zooming; file saving with data compression option. In order to offer a better Teamwork experience, BIMcloud is also multi-threaded, resulting in faster sending and receiving of updated elements and messages.



For more details please visit graphisoft.com, or one of our localized websites:

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