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VECTORWORKS®  
DESIGNER



TRANSFORM THE WORLD.

# DESIGN WITH VECTORWORKS DESIGNER.



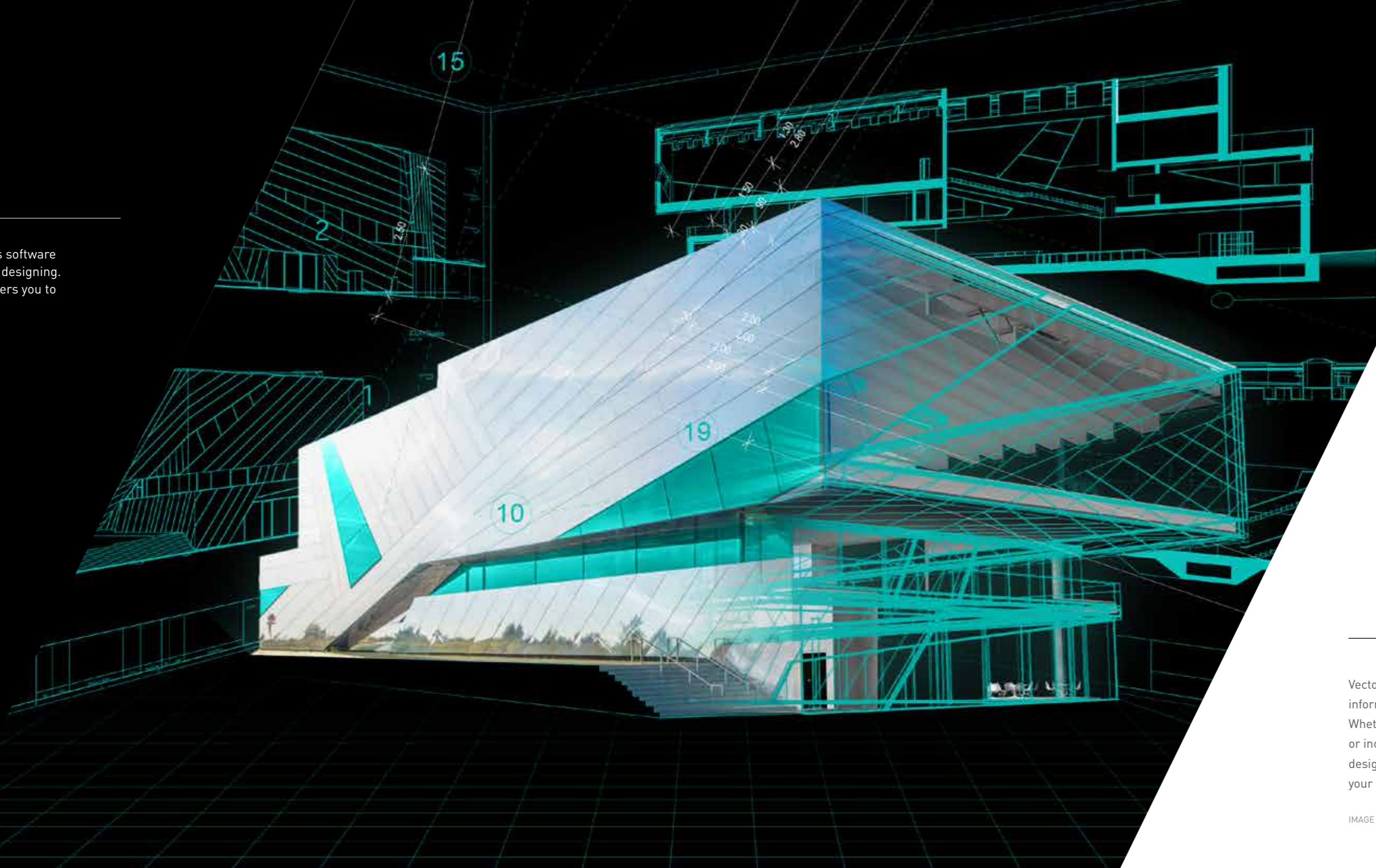
Whether your specialty is architecture, landscape, or entertainment design, **Vectorworks® Designer** software enables you to draft, model, and present in a single, intuitive interface. Enhance your workflow and follow your inspiration, explore your ideas, and discover new ways to simplify your process with Vectorworks Designer – the ultimate solution for the design professional who needs it all.

IMAGES (LEFT TO RIGHT) COURTESY OF:  
HAMONIC + MASSON & ASSOCIÉS; LIGHTING DESIGN:  
NICK WHITEHOUSE, ILLUMINATE ENTERTAINMENT, INC. &  
PHOTO COURTESY OF RALPH LARMANN; MCGREGOR COXALL.



# SIMPLIFY YOUR PROCESS

Your time is valuable—and Vectorworks software enables you to spend more of that time designing. Vectorworks Designer software empowers you to work faster and more efficiently.



# THE BEST IN BIM

Vectorworks Designer is purpose-built to create building information models without changing your design process. Whether you're looking to streamline costs, analyze materials, or increase your energy efficiency while creating world-class designs, our software provides an efficient way to maximize your BIM capabilities.

IMAGE INSPIRED BY HOLZER KOBLER ARCHITEKUREN.



SIMPLIFY YOUR PROCESS

# STREAMLINED WORKFLOW

From the first spark of inspiration to final construction, Vectorworks Designer's tools are designed to take you from sketch to final experience and beyond in a single software suite. You'll explore design alternatives, create stunning client presentations—all while generating coordinated documentation and accurate schedules and reports.



Vectorworks software's Resource Manager puts the ability, at your fingertips, to create, edit, and apply desired resources to your designs. Featuring direct browsing of resources from multiple content locations, the Resource Manager also includes all the Vectorworks Service Select online subscription libraries. Easily find what you need with powerful search and filtering, search based on keywords, and access your resources directly from Vectorworks software's parametric tools.

# POWERFUL RESOURCE MANAGEMENT





## ENHANCE YOUR WORKFLOW

Vectorworks Designer gives you more resources than ever to optimize your workflow. Whether you're creating a BIM model for your next inspired project, lighting a production, or designing an urban green space, Vectorworks software offers features and improvements that are designed with you and your workflows in mind.



## INDUSTRY-LEADING 3D SOLUTIONS

Capture your visions in 3D and design without limitations with Vectorworks Designer. With Marionette, our cross-platform graphical scripting tool, find new ways to explore form and function. Create any shape and easily transform geometry with our advanced suite of Parasolid-based solids and NURBS-surface tools.

IMAGE COURTESY OF ©EM2N, ZURICH.

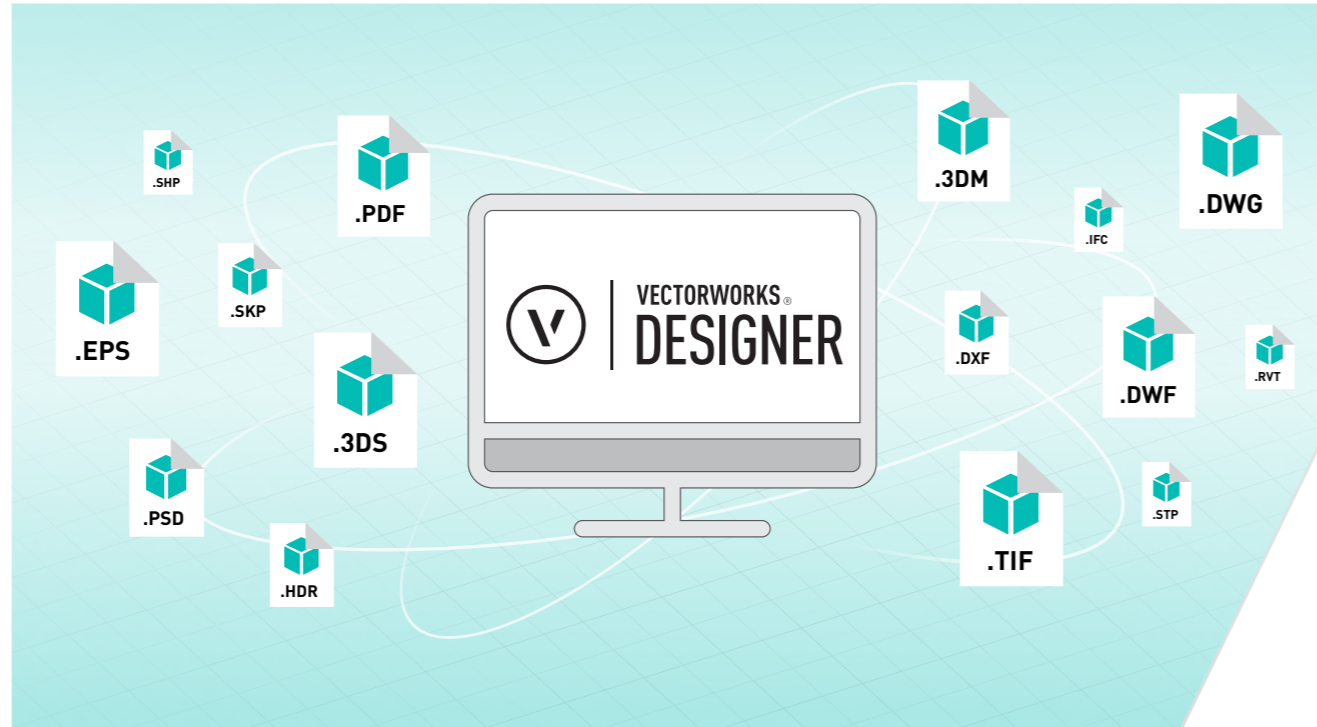
In addition, Vectorworks Designer offers you the capability to model complex forms with our subdivision surface modeling built on Pixar's OpenSubdiv library. With our intuitive interface, you will design in any 2D or 3D view using modes in modeling tools that react intelligently to faces of objects as you move your cursor.



# SEAMLESS INTEROPERABILITY

Exchange NURBS models with Rhino or import concept models from Sketchup®. Support of both import and export of OBJ, STL, and 3DS file formats lets you explore the full range of design options by incorporating information from multiple sources, making sweeping changes quickly and easily.

Using IFC, an industry-standard file format, communicate effectively with your consultants and collaborators who may be using Revit® or other BIM software—or use your model for clash detection and model checking. Vectorworks Architect supports IFC, gbXML, DWG/DXF, Revit, PDF, and more for document and model exchange.



## VECTORWORKS DESIGNER FILE IMPORT/EXPORT CAPABILITIES

File Type	Import	Export
3D PDF		●
3DS	●	●
ASCII Patch		●
BCF	●	●
Cinema 4D (.C4D)		●
C4D Textures	●	
Collada		●
Database	●	●
CSV	●	●
DWG/DXF/DWF	●	●
ECW	●	
FBX		●
gbXML		●

File Type	Import	Export
GIS shapefile (.SHP)	●	●
HDR/ HDRI	●	●
Hoist Data	●	●
IFC (Industry Foundation Classes)	●	●
IGS/IGES	●	●
Illustrator (.EPS/.EPSF)	●	●
IMAGE FILES (GIF, BMP, TIF, JPG, PNG)	●	●
Instrument Data	●	●
KML		●
MOV		●
OBJ	●	●
Parasolid X-T	●	●
PDF	●	●

File Type	Import	Export
Photoshop (.PSD)	●	●
Point Cloud	●	
Python Script	●	●
Rhino (.3DM)	●	●
RVT/RFA	●	
SAT	●	●
Script	●	●
Shapefile	●	●
SketchUp (.SKP)	●	
STP/STEP	●	●
STL	●	●
Webview		●
Worksheet	●	●

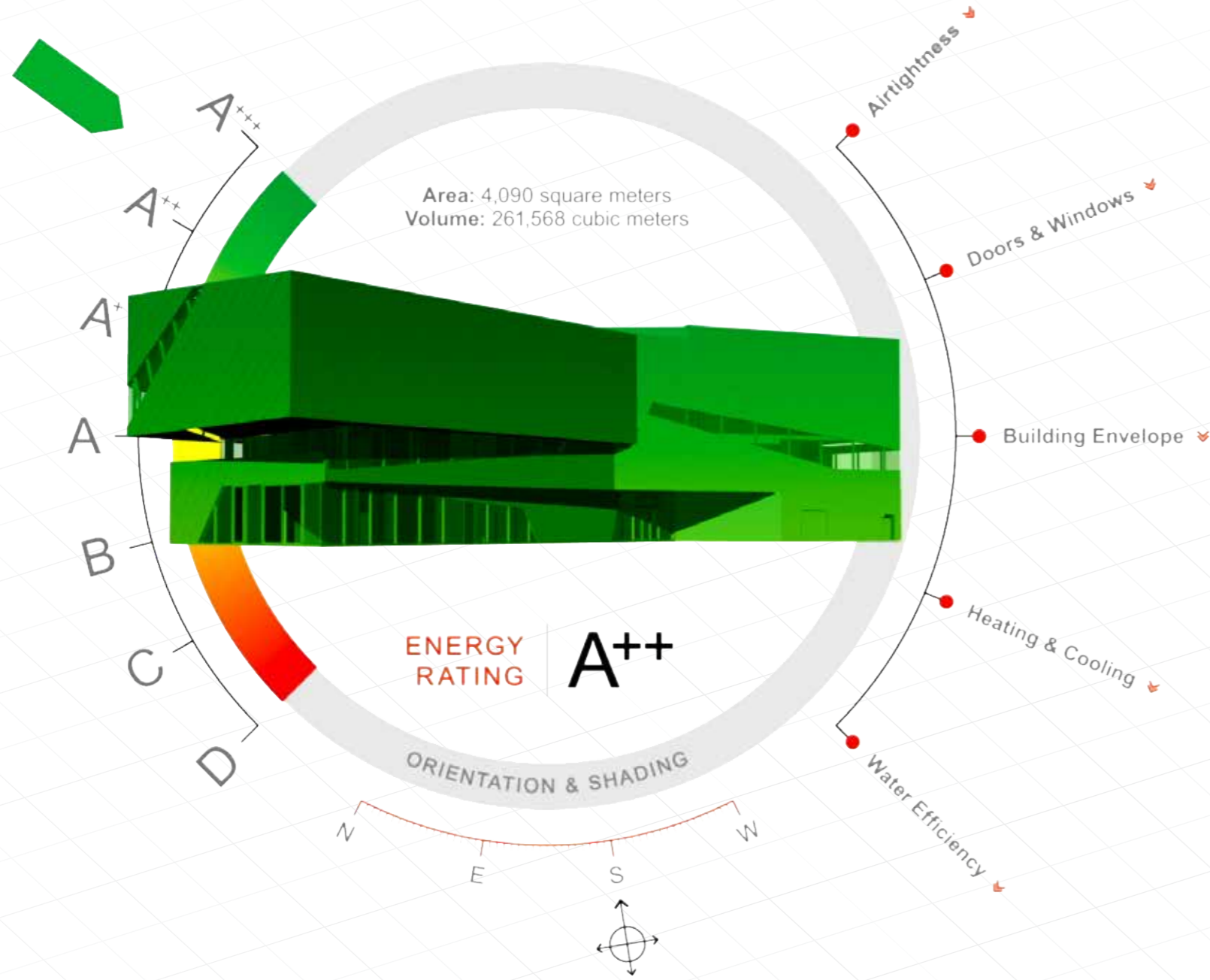


# POINT CLOUD SUPPORT

Replace field surveys with integrated point cloud support. Using your preferred 3D scanning device, you can capture any physical location and import a 3D point cloud object directly to Vectorworks Architect using PTS, E57, LAS, LAZ, and XYZ file formats. From there, you can model and measure, creating entirely new structures or renovating existing architecture.







# RESPONSIVE ENERGY TOOLS

Our Energos feature is a powerful energy analysis tool for architects, so you can make sustainable design decisions throughout the design process. Based on the Passivhaus calculation method, the Energos module gives you—and your clients—a dynamic, intelligent gauge of a building's energy performance.

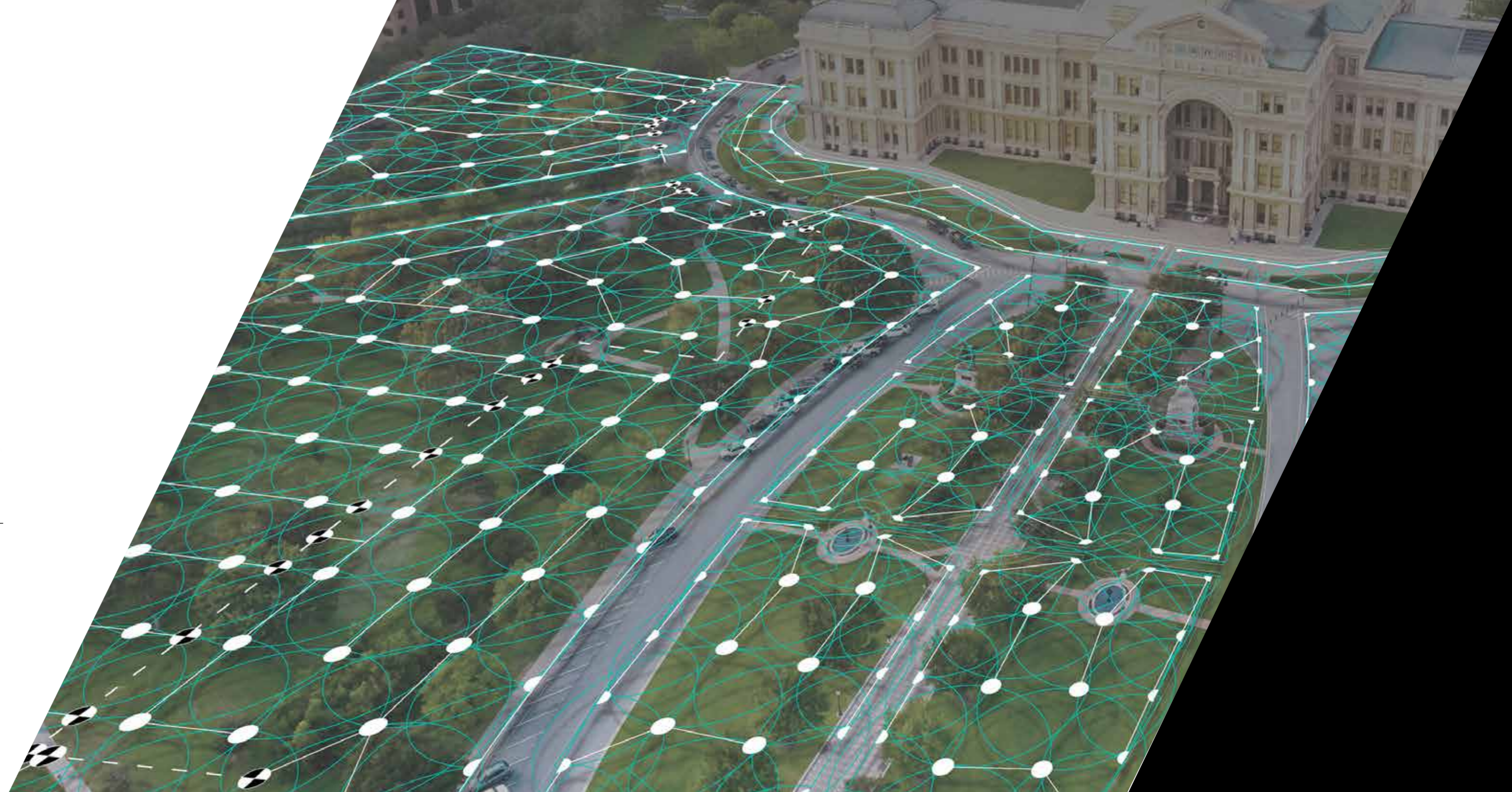


## INNOVATIVE IRRIGATION DESIGN



Planning for a site's irrigation involves considerations and calculations related to both its physical features and resource availability. Vectorworks Landmark software meets all of these needs with innovative irrigation design tools. Create zones of similar watering needs with the new Hydrozone tool and then use built-in worksheets to analyze for water efficiency, which makes satisfying a site's water budget allowance easier than ever.

Whether specifying lateral and main piping, sprinkler heads, drip systems, valves, controllers, or other system components, the automated and manual placement methods are designed to meet industry standards while giving professionals the flexibility to design, document, and estimate proposed and as-built systems efficiently.





# SUPERIOR DOCUMENTATION

Vectorworks software's extensive suite of drawing and editing tools help you produce beautiful drawings and high-quality, professional documentation with ease. Define your signature look and meet industry standards with Vectorworks Designer's precision drafting tools, intelligent objects for building, sites, lighting, scenic, rigging, detailing, MEP, furniture, millwork, machine parts, and annotations, plus thousands of free symbols from leading building product companies. Batch print drawing sets or export them as multipage PDFs at full or reduced size.





## FROM CONCEPT TO PREVIZ **TO FINAL EXPERIENCE**

Experience Designer's renowned lighting and entertainment design capabilities. Quickly create design documents, automate paperwork, and visualize your design in rendered 3D views. For high-end previsualization, use our high-quality and simple export command to take your fixture and model information directly to Vision to program and cue your show.





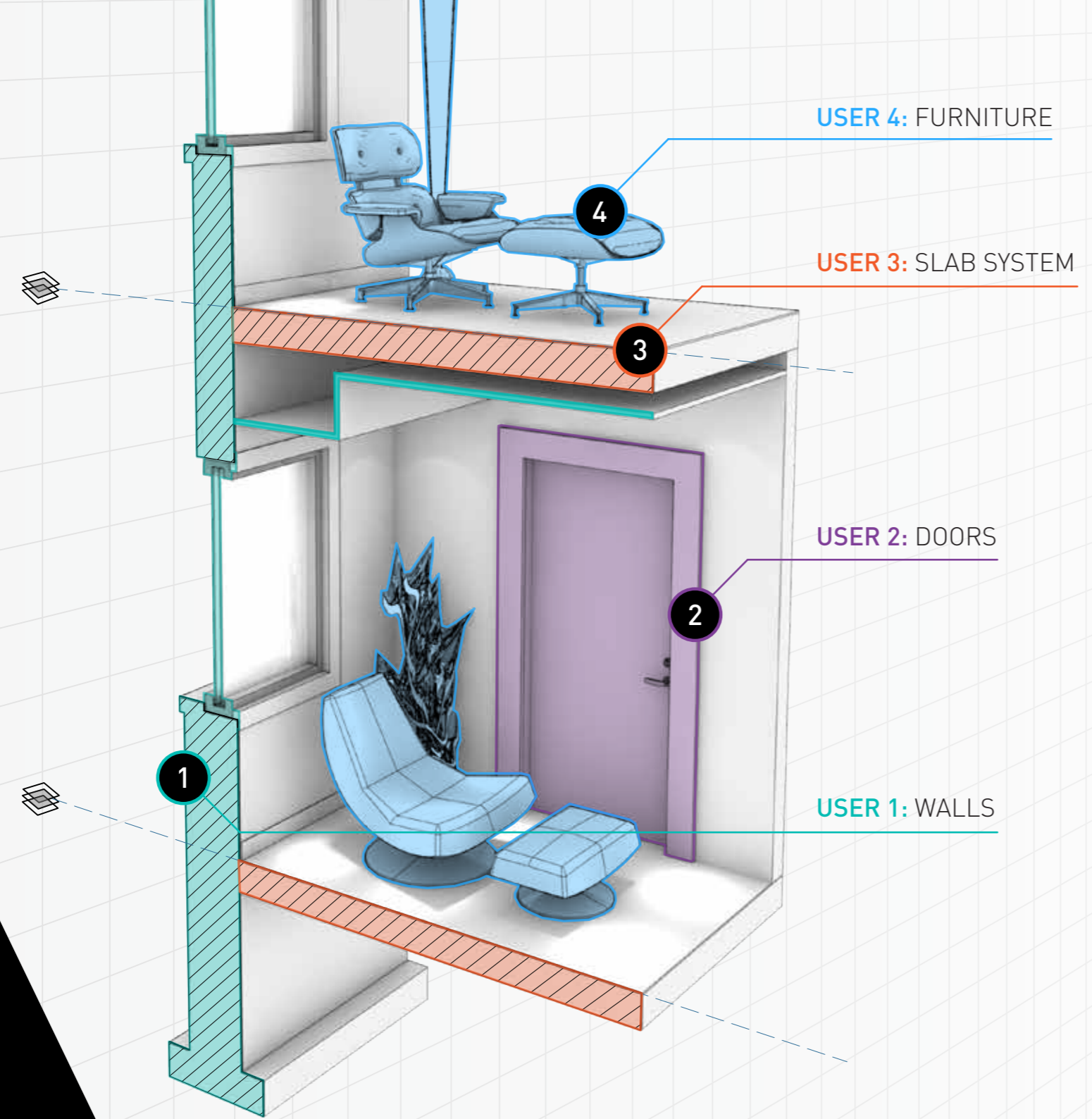
# COORDINATE WITH YOUR PROJECT TEAM

Vectorworks Designer is engineered to facilitate your collaborative workflows. Design, document, and exchange your models within your firm and beyond with Revit import capabilities, IFC4 support, a new BCF manager, and Raster PDF capabilities.





# MULTIUSER ENVIRONMENT



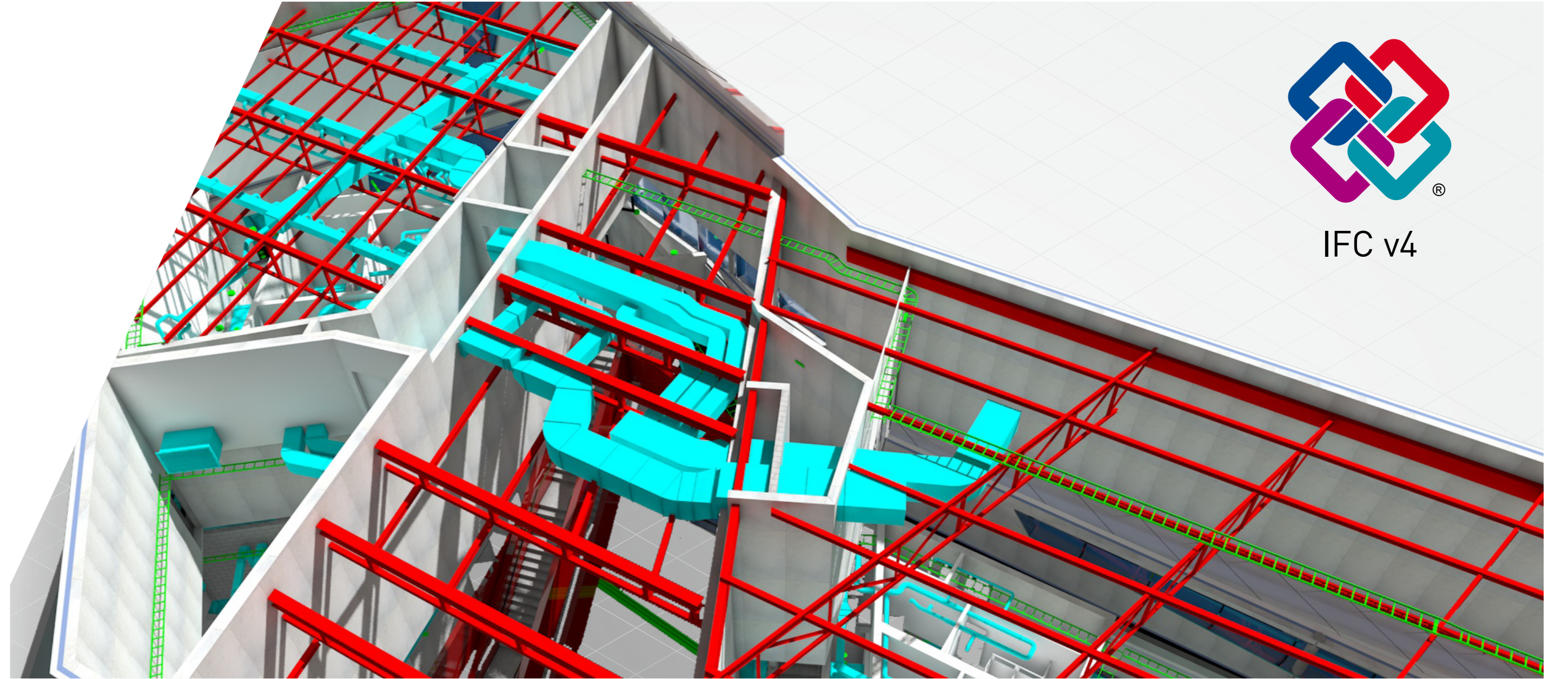
Collaborate and maximize efficiency. Project sharing provides customizable multiuser workflows allowing your project team to work on the same Vectorworks file concurrently. It also frees designers to work anywhere any time with cloud integration letting you save your files in your Dropbox, OneDrive, Box, and Google Drive accounts.



# IFC SUPPORT FOR OPEN BIM

BIM

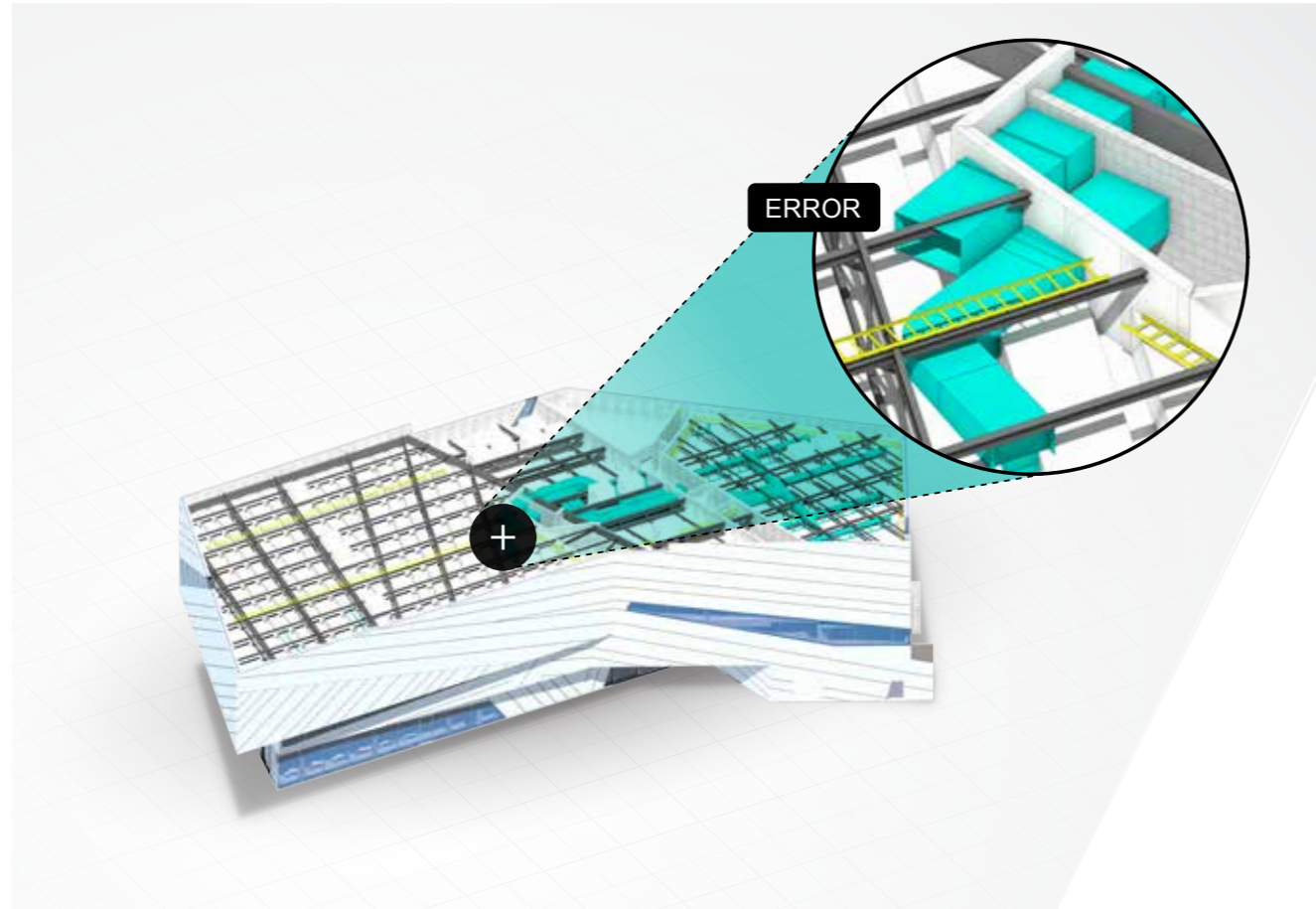
Vectorworks supports the latest version of the buildingSMART data exchange standard, IFC4, enabling you to communicate with other IFC4-compatible BIM platforms for the next generation of open BIM workflows.



IFC v4



# BCF MANAGER



As part of our continued support of open BIM workflows, the BCF manager, available directly in Vectorworks Architect software equips project teams with the resources to share, edit, and assign issues or clashes that have been discovered. You can now export BCF files that can contain revisions, notes, or new issues.

# REVIT IMPORT

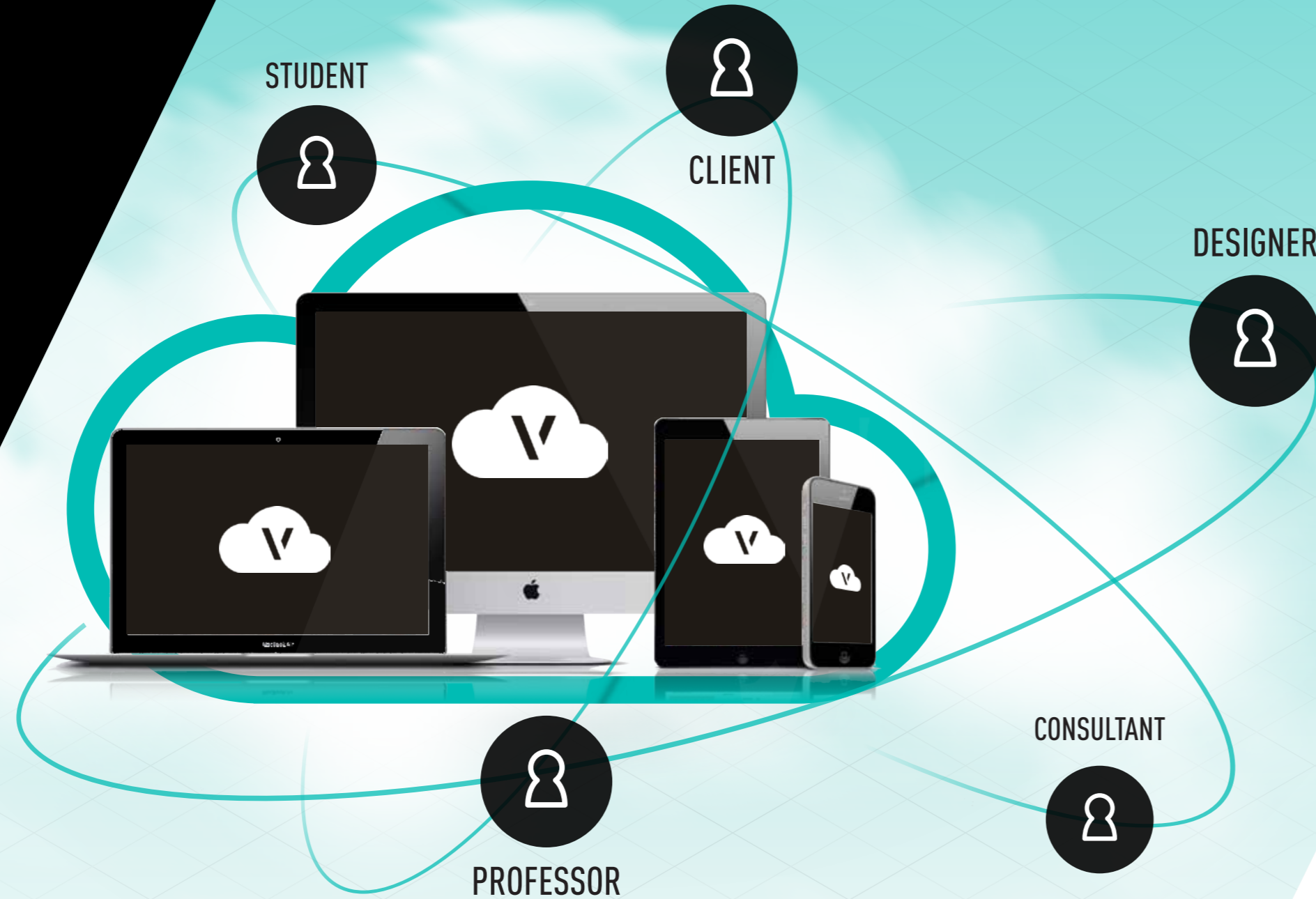


Architects and landscape professionals must be prepared to exchange data with other BIM collaborators. In Vectorworks software, you can now import Revit files directly, allowing you to manipulate manufacturer-specific objects from Revit or to collaborate more effectively with other designers and contractors throughout the lifecycle of your project.



# SHARE YOUR VISION

Good communication is key to your design process, and with Vectorworks Designer, you have more options than ever to share your ideas and inspiration.



# CLOUD SERVICES

Vectorworks is committed to communication and collaboration. In Vectorworks 2017, our Cloud Services environment is openly available to everyone, giving you the ability to easily share files between team members and providing a simple interface for collaborators and clients to tour your models using our mobile app, Vectorworks Nomad.



## WEBVIEW AND **VIRTUAL REALITY**



Easily share your designs with current clients and collaborators using Vectorworks software's immersive web viewing and virtual reality features. Generate a link that allows anyone, anywhere, to view your model in 3D on any device.





# INSPIRE YOUR CLIENTS

With stunning, photorealistic renderings, designers can include material selection options, make accurate lighting decisions, and generate high-quality documentation and presentation boards. With Vectorworks software, you have all the tools necessary to wow your clients.



# INTEGRATED RENDERING



All Vectorworks software packages include Renderworks, the best-in-industry rendering feature set built on the award-winning Cinema 4D render engine. Renderworks provides the tools necessary to visualize your work throughout the design process while producing clear and accurate illustrations with stunning quality.

IMAGE INSPIRED BY HOLZER KOBLER ARCHITEKTUREN. RENDERING BY LMCAD STUDIO.



## POWERFUL PRESENTATIONS

Vectorworks software provides architects with a comprehensive “what you see is what you get” suite of design tools built to create the industry’s best 2D presentations. Fine-tune line weights, adjust color opacity, and add drop shadows to produce stunning presentations—all from within Vectorworks Designer’s intuitive interface.

## CAMERA MATCH

With the Camera Match feature in Vectorworks, designers can integrate photos taken on-site with their model, generating realistic adaptations of those images by matching the perspective vanishing lines in the photo with those in the model. From there, you can create custom shadows, mask out other elements, and tailor the photo to your design vision without the need for an external editing application.





# SYSTEM REQUIREMENTS

Mac OS X 10.10  
Mac OS X 10.11

Windows 7 SP 1 (64-bit)  
Windows 8 (64-bit)  
Windows 8.1 (64-bit)  
Windows 10 (64-bit)  
64-bit Intel Core i5  
(or AMD equivalent) or better

## RAM

4GB minimum  
8GB recommended  
8GB-16GB recommended for large  
files and complex renderings

## Graphics\*

A dedicated graphics card is required  
OpenGL 2.1 compatible graphics card  
VRAM: 1GB minimum,  
2GB-4GB recommended

## Vectorworks with Vision:

A dedicated graphics card is required  
Open GL 3.0 compatible graphics card  
VRAM: 1GB (minimum), 2GB-  
4GB (recommended)

## Screen Resolution

1440x900 minimum  
1920x1080 or higher recommended

\* Several Vectorworks features have placed higher demands on graphic hardware. Additionally, the performance and quality of the graphics provided by the Vectorworks Graphics Module depend directly on the speed, memory, and supported extensions of the graphics card. These new features have the potential to provide a very fast and fluid experience if used on capable hardware, or a noticeably slower experience if used on older or incompatible hardware. Graphic cards should support at a minimum OpenGL version 2.1; cards not meeting this recommendation will have limited functionality and poor performance, particularly when rendering in OpenGL mode. In general, the more powerful your video card is, the better your Vectorworks experience will be.

For the most current and updated technical information, please visit our Knowledgebase at [kbase.vectorworks.net](http://kbase.vectorworks.net). See [vectorworks.net/sysreq/](http://vectorworks.net/sysreq/) for updated information.

# ABOUT VECTORWORKS

Vectorworks cares about design. Since 1985, we have served the architecture, landscape, and entertainment industries, drawing inspiration from the world around us and encouraging the more than 650,000 designers who use our software to create experiences that transform the world.

Our commitment to develop the world's best cross-platform design software has taught us a simple truth: great design begins with the inspiration of the designer. Vectorworks supports that inspiration by guiding the exploration of discovery and finding creative solutions. We provide powerful tools to help designers capture ideas, nurture innovation, communicate effectively, and realize their vision.

We serve those who desire to create experiences that are memorable and build things that truly matter. We recognize that great design is about revealing opportunities that explore the unexpected, while fully satisfying the demands of an increasingly complex world. We acknowledge the value of a designer's dream and strive to facilitate the creation of something that's truly appreciated and uniquely positioned to express the best in the built environment.



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