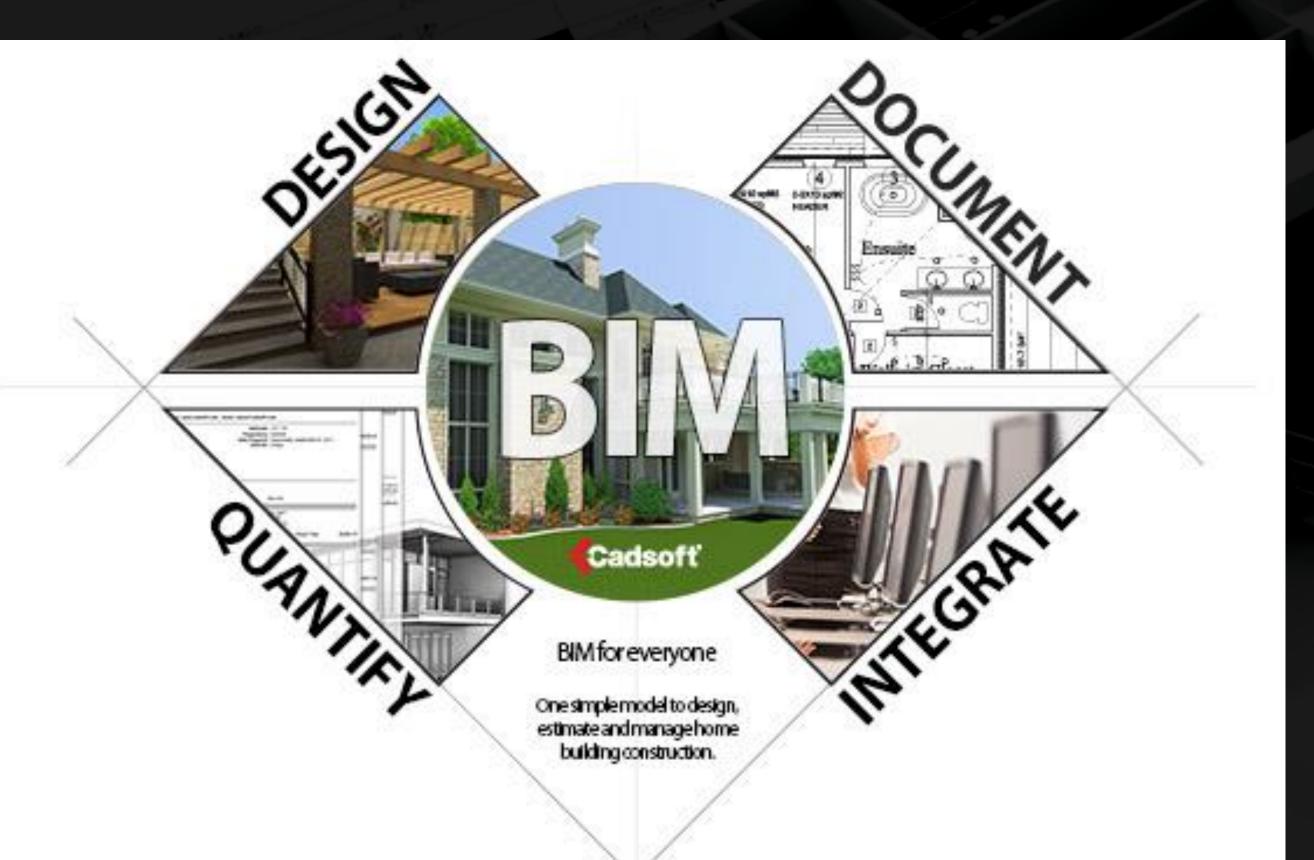
Home Building Industry Innovations BIM and VR





What is BIM...

- **2D hand drafting.** Historically we started from a point of **documentation**. Hand drafting all buildings to convey our ideas and construction methods.
- 2D CAD drafting. This next stage was a great leap in optimization. Changes were easier and files could be reproduced and shared digitally.
- **3D models.** Became an efficient way of **communication**. New ways to solve problems by creating prototypes.
- **BIM** is now about the connectivity of the process. Extend the workflows and **collaboration** with all stakeholders. Taking all of the information that we can from a model and using it however we can to automate the building industry.



What are the benefits of BIM?...

Presentation: Produce informative 3D images and VR experiences. Engage the client with stunning visuals and realistic experiences. Reduce the concept stage.

Communication: Reduce the amount of errors and "surprises" on site by sharing the 3D model with all trades. Graphical languages everyone can understand.

Accuracy: The model holds information related to cost, sku #s, size, phase and usage for itemized reports sent directly to accounting software.





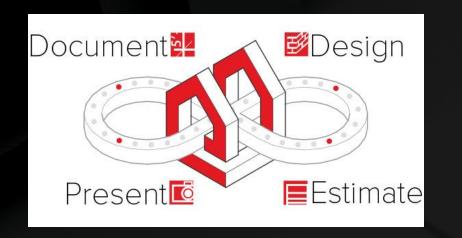


Automation: Automatically produce the elevations, sections, floor plans and details required for permit purposes and submit them digitally.

Integration: The data from the BIM model flows to value added engineering, cabinet design and POS packages: MiTek trusses, Weyerhauser ijoists, CSD, Simpson, 2020 Spaces, POS systems etc.

Analysis: The intelligent model integrates with energy analysis software ResCheck for US government approved energy efficiency standards for value added services to contractors.







Why Automate?

Sales/Marketing
Engage customer
early and often

...When everyone works together effectively from the earliest phases of design, the results in the end are pretty incredible:

Reduced overall costs and time through better communication, the elimination of duplication of efforts, and most importantly, better quality custom renovations and new homes.

Finished Home

Easy 3D BIM for homeowner to renovate or for maintenance

Décor Centre

Better decisions leads to increased sales value

Engineering

Direct data integration for better & faster analysis

Control Systems P/L

Seamless link to POS for accounting controls

Framing and Manufacturing

Accurate BOM shipped for field framing or factories

Quotes

Instant quotes linking to POS systems

Permit Drawings

Fast and accurate document production

Suppliers' Catalogs

Custom catalogs with sku's linked to website and pricing





The Power of VR

The home building industry needs technology to help professionals and consumers visualize concepts better while making changes on the fly and making decor selections.

We need better ways of engaging and educating the homeowner in the purchasing process early to improve opportunities to initialize a strong business relationship.





Cadsoft

- → GOOGLE CARDBOARD
- → SAMSUNG GEAR VR
- → OCULUS RIFT
- → HTC VIVE
- → VRSTUDIOS



So whether you are a Homeowner, Designer, Builder, Contractor, Engineer or LBM Supplier...

Designing a new kitchen, garage, deck or new home should be a fun and engaging experience!

Everyone should easily work together and build from the same 3D BIM Model from concept to construction.

The process should be seamless and the data should be intelligent from concept to construction to future project.





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Personal Architect



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Building Essentials



Construction Suite

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