Creative Architects

Stay Curious©
Stay Inspired.

Adopting Technology 101: Architecture, Engineering and Construction

Interests

BIM, Construction, Visualization, Gamification, Architecture

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Contents

About me

Industry Pain Points

The BIM Advantage

New terminologies - AR, VR, MR

Construction Visualization

Adoption - How to Start?

What to expect in this Session

- Thought provoking points
- Not a software workshop
- Benefits in clear words
- Resources for tech adoption

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BIM/VR Specialist **at SwiftWall**

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Researching BIM + VR Game Design for Human Building Interaction

The Construction industry is among the least digitized.. But why????

Building i Modeling

Credits - chronos-studeos.com

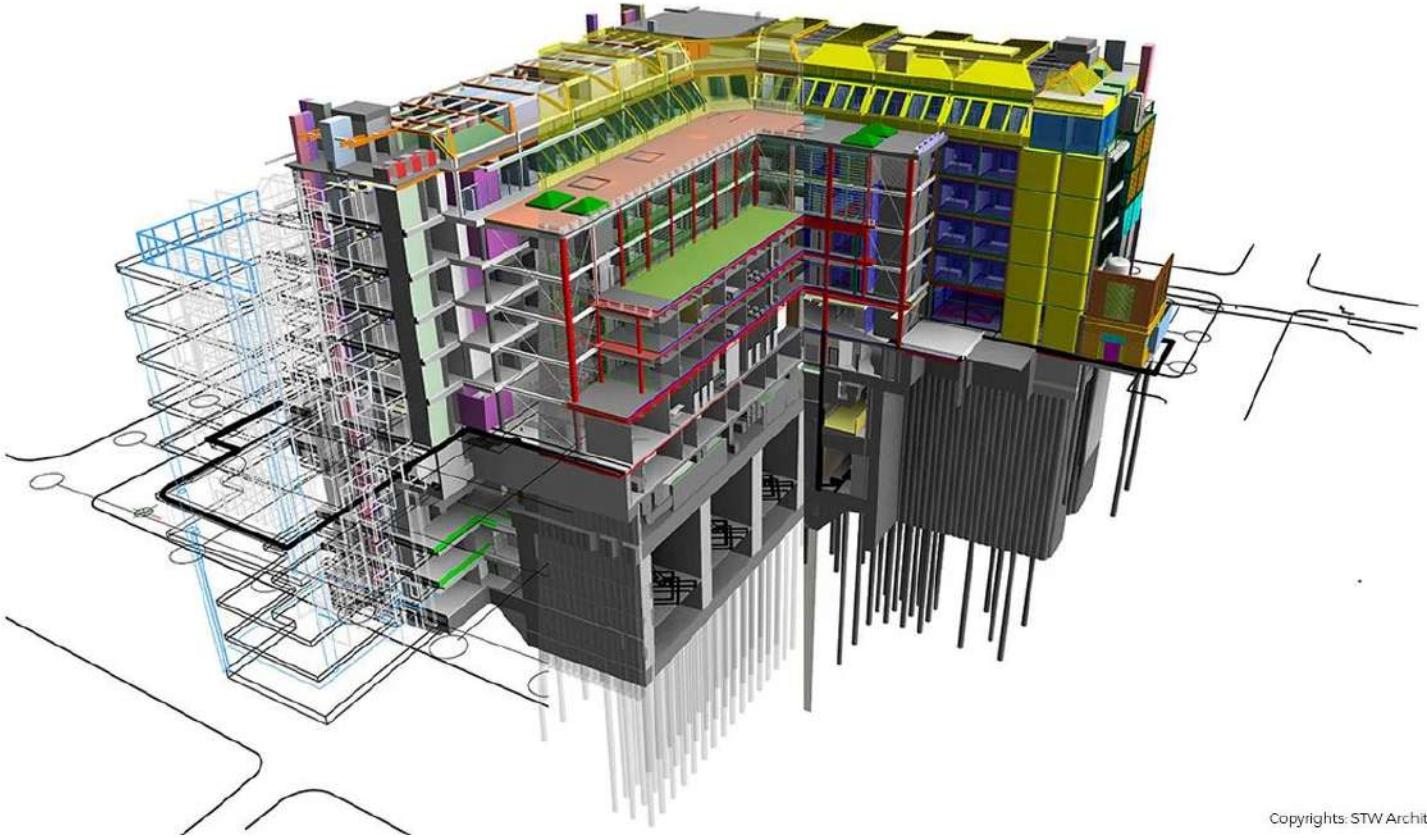
There is so much more to BIM = Information..!

Many are not using the DATA in BIM. Why not?

File Format issues?

I don’t know it exists?

Too busy with deadlines?



Data First - what and how?

The Benefits for You

Why embrace Building Information Modeling?

- Resolve differences between multiple consultants models
- Share ‘information’ efficiently
- Reduce rework & improve communication

Get used to new terminologies because they are not going away..!!

Augmented Virtual & Mixed Reality, Artificial Intelligence, Machine Learning, Simulation, Automation, 4D Construction Visualization, 5D Cost Estimation & Collaboration, Cloud Filesharing

“ 1

5-D Model Based Cost Estimation

“ 2

Digital Collaboration and Mobility

“ 3

Analytics + Machine Learning

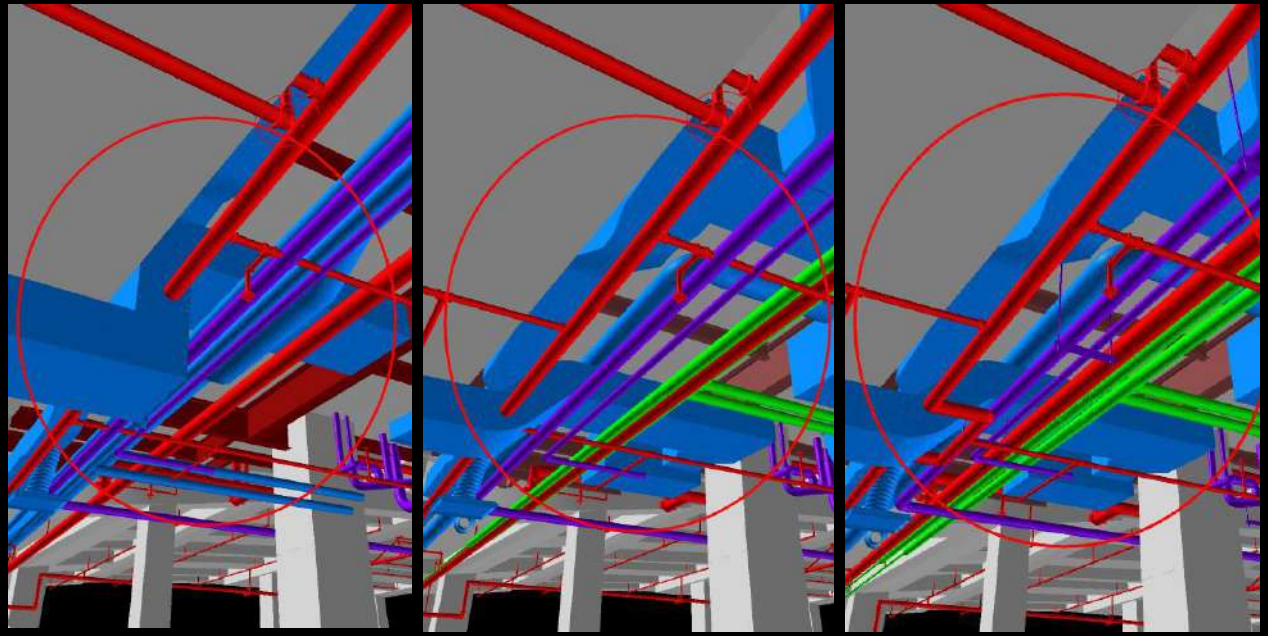
3 Ideas Disrupting Construction

What happens in Advanced Construction Visualization?
Not your Everyday 3D...

Clash Detection

Sequencing & Estimation

Predictions & Decisions



Credits - DPR Construction

Autodesk Navisworks

Easy tool in the industry for creating construction scheduling visualization, cost estimation, clash (detection, assignment, report) etc.

Key Benefits

Visually communicate scheduling with contractors/subcontractors/clients during planning sessions and generally achieve a more realistic construction schedule.

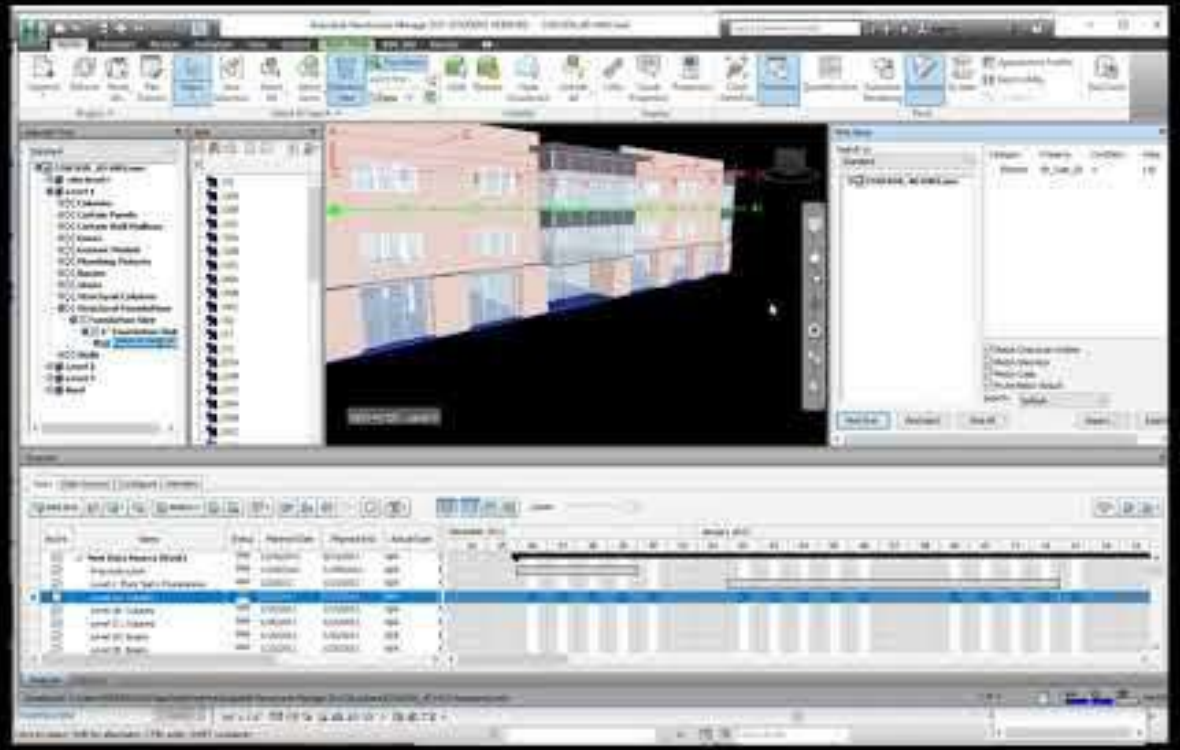
Features

Not hardware/resource intensive

Has cloud rendering feature

Update revit models with ease

https://bit.ly/3hBtPTh



The Goals!!!

Why embrace Design & Construction Technology?

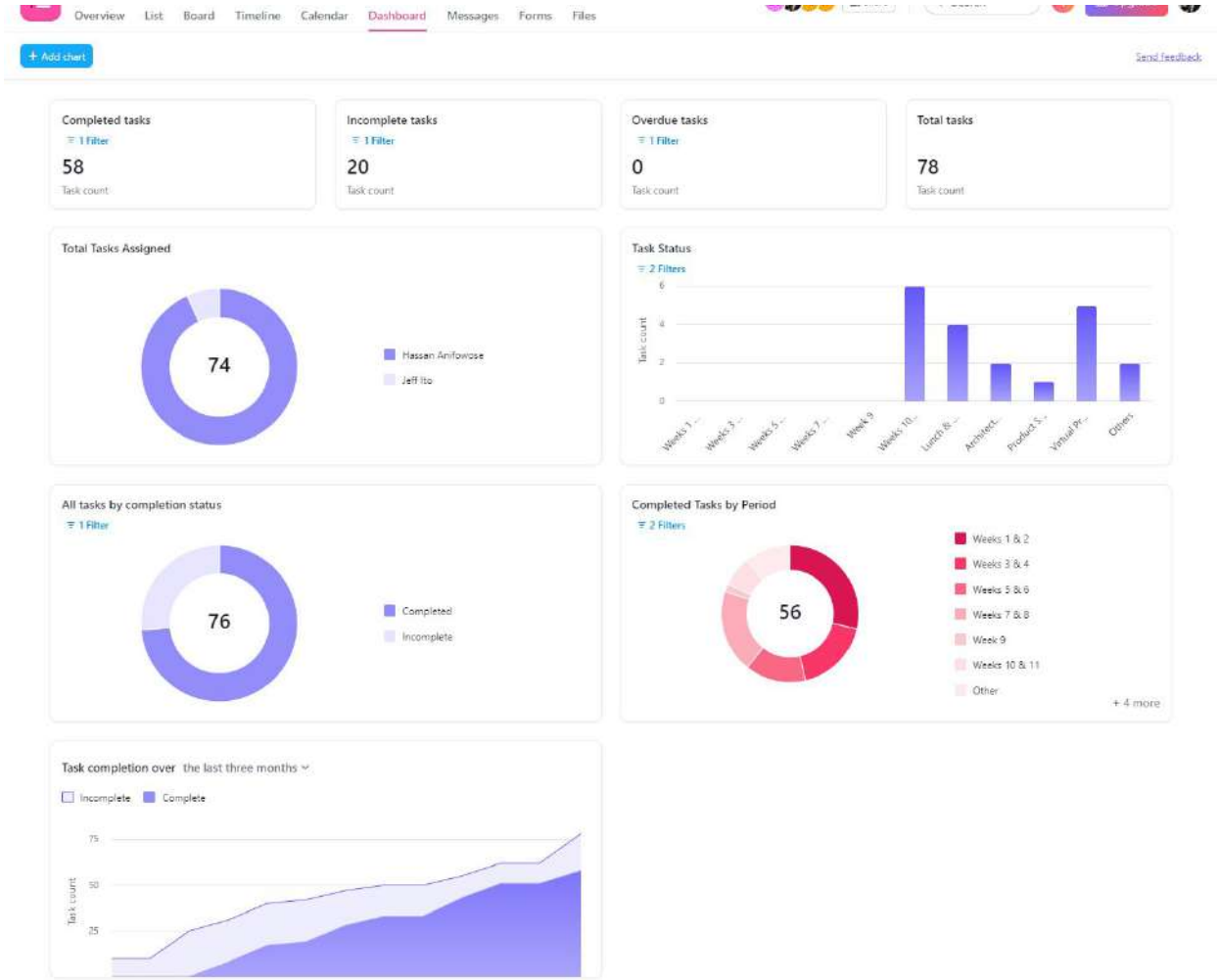
- Make informed decisions earlier
- Dominate your industry market - efficiency
- Sign on more projects easily - competition

If you can’t measure it, you can’t grow it.

Measuring efficiency has become part of the trend for maximum return on investment. You must establish the goals, develop the strategy and execute the ton of increasing workloads and scale.

To work smarter and faster? Or to work harder?

The choice is yours.



Getting Started

Suggested Resources for 'BIM adoption'

Autodesk Design Suite (Software - AutoCAD, Revit, MEP, Navisworks)

Autodesk University (Tons of educational resources on trends)

Blaze Academy (Podcasts, Trainings, BIM Strategy & execution)

BIM Africa (Pushing digital construction across Africa)

Thank you
Questions/Comments