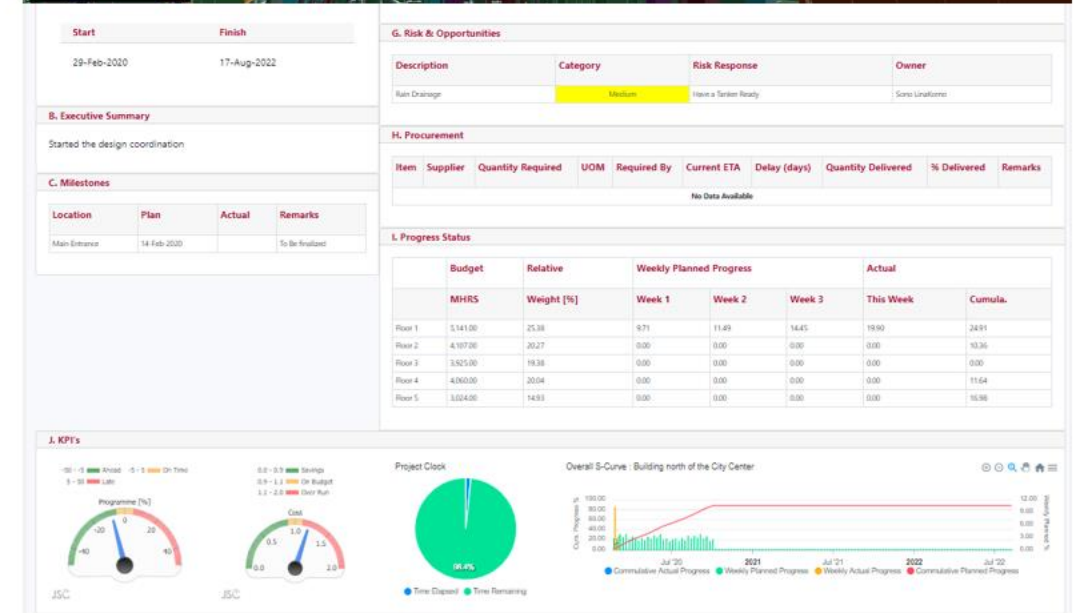




BlackSmithSoft Digital Construction

Fusing Cloud Technology with Construction Management



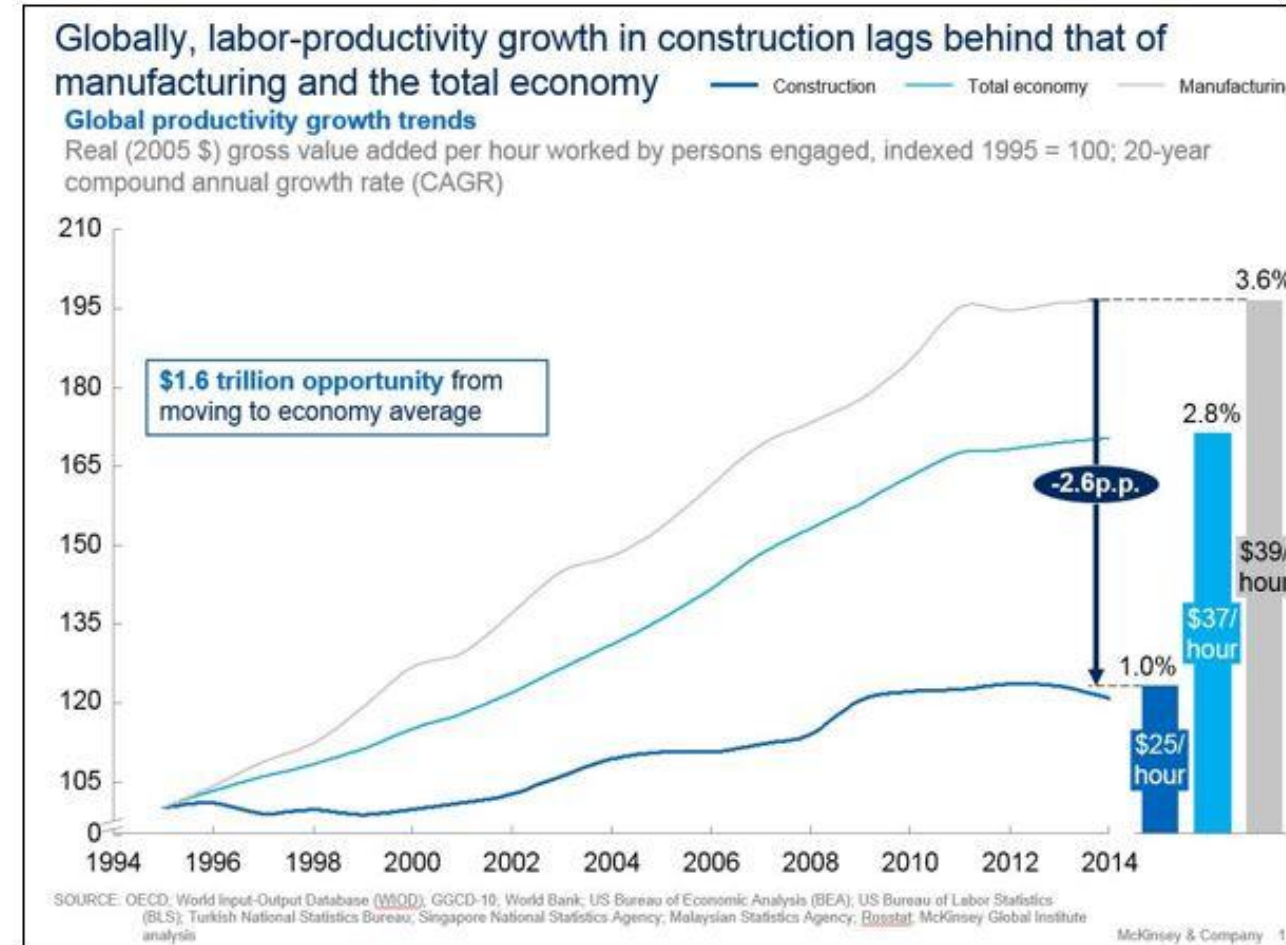
Why BlackSmithSoft DC

Built by Construction Experts for the Construction Industry

About our Team: Combined 50 Years of Construction Management Experience in Mega projects: airports, office buildings and complexes, universities, oil & gas facilities and infrastructure (roads, bridges, stations,) etc.



AUTODESK FORGE®
Certified Systems Integrator



BlackSmithSoft DC: People & Technology

- Strategy: Don't Enforce, Buy IN.
- Modular System, no need to transform all operations
- Adaptable/Customizable to company operational workflow



4D Simulations

Reality vs BIM

Clash Management

On-site Progress Update

Document Management

Constraints Management

Executive Level Reports

Material Management

N-Week Look Ahead

Cost Management

Handover

Lean Planning

Manpower Management

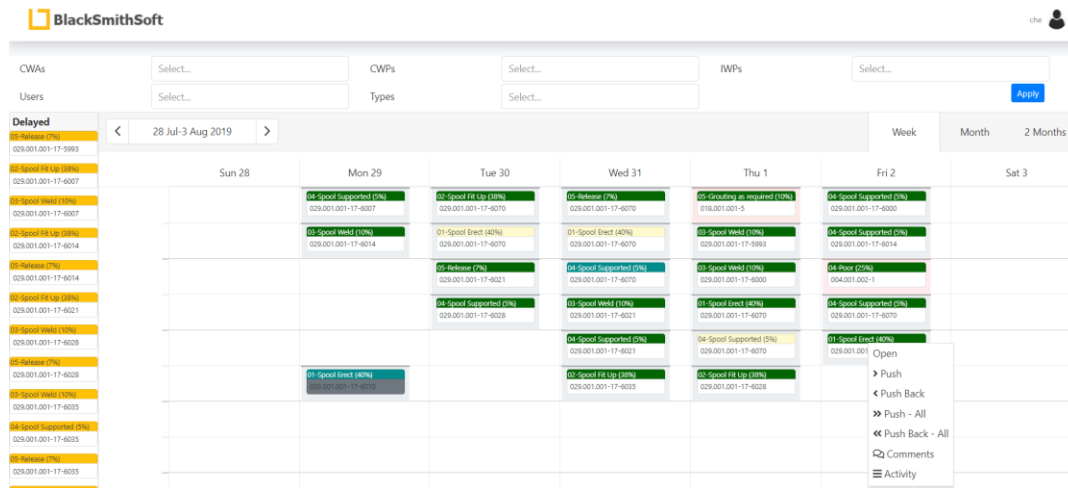
Auto Scheduler

Business Intelligence

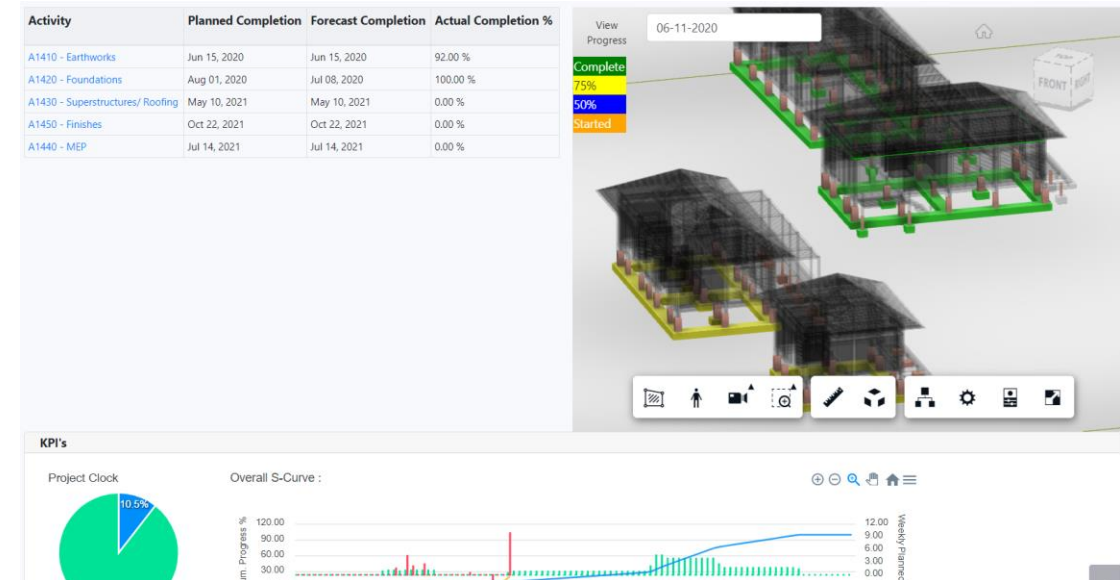
#1 tool in the Construction industry is **Excel!**

Cloud and COVID-19

- Requirement for Remote Work – increased Buy-In for Cloud.
- Using Local Cloud Service Providers. (when required)

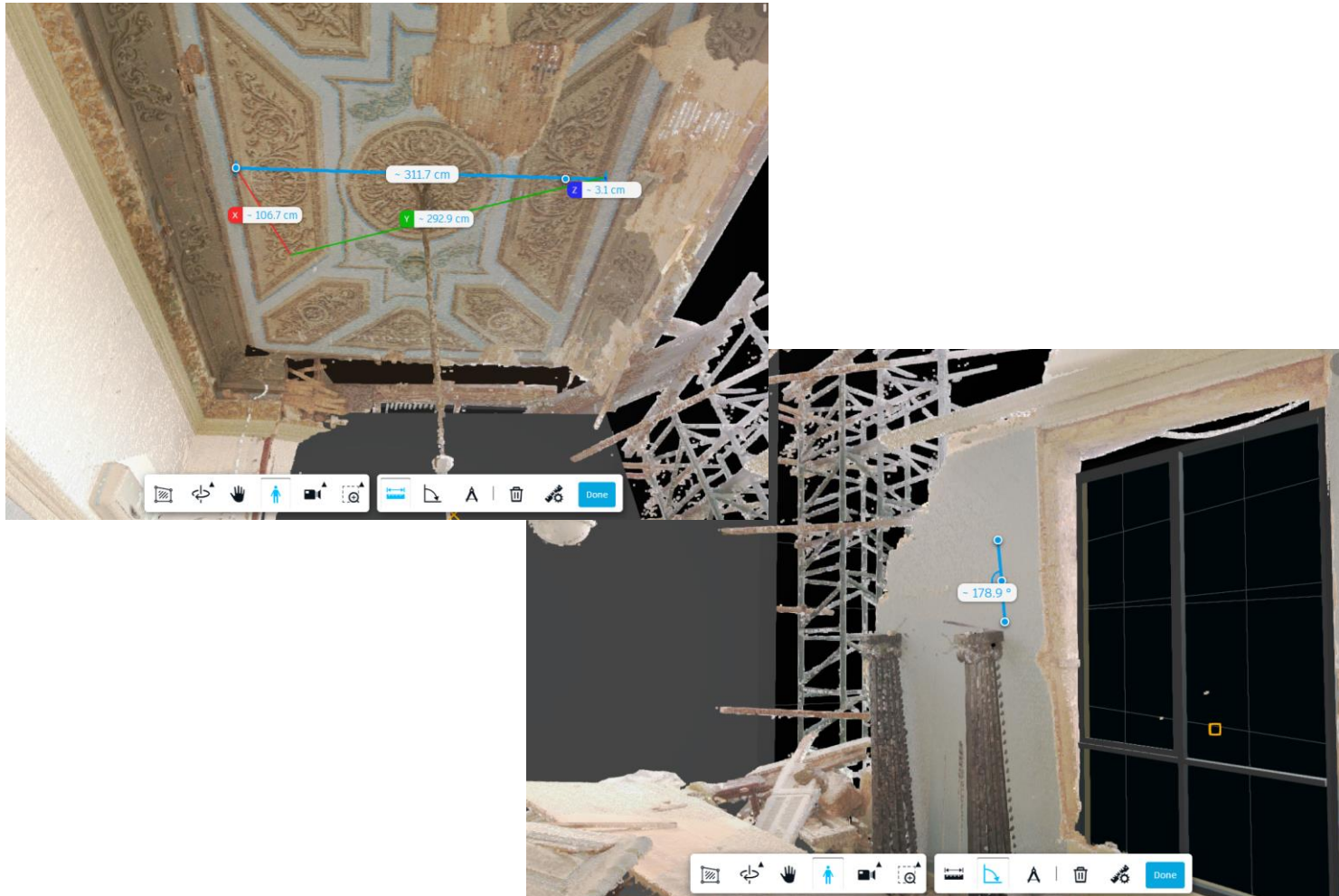


Virtual Daily Operations Planning – Sync
Instead of In-person Meetings



Buyer/Owner Report/Simulator
Instead of Site Visits

BlackSmithSoft DC for Renovation



Key features:

- Integration between point clouds and BIM
- Align scan point-clouds to BIM models.
- Complete, measurable documentation of site conditions on one platform.
- Model Review Tools (with point cloud support)
- Issue Management.

Use-case:

- Remodeling / reconstruction of historic buildings
- **Reconstruction of destroyed buildings**
- Renovation of hotels...

Use-Case: Rebuilding after the Beirut Blast on AUG-4

➤ Description:

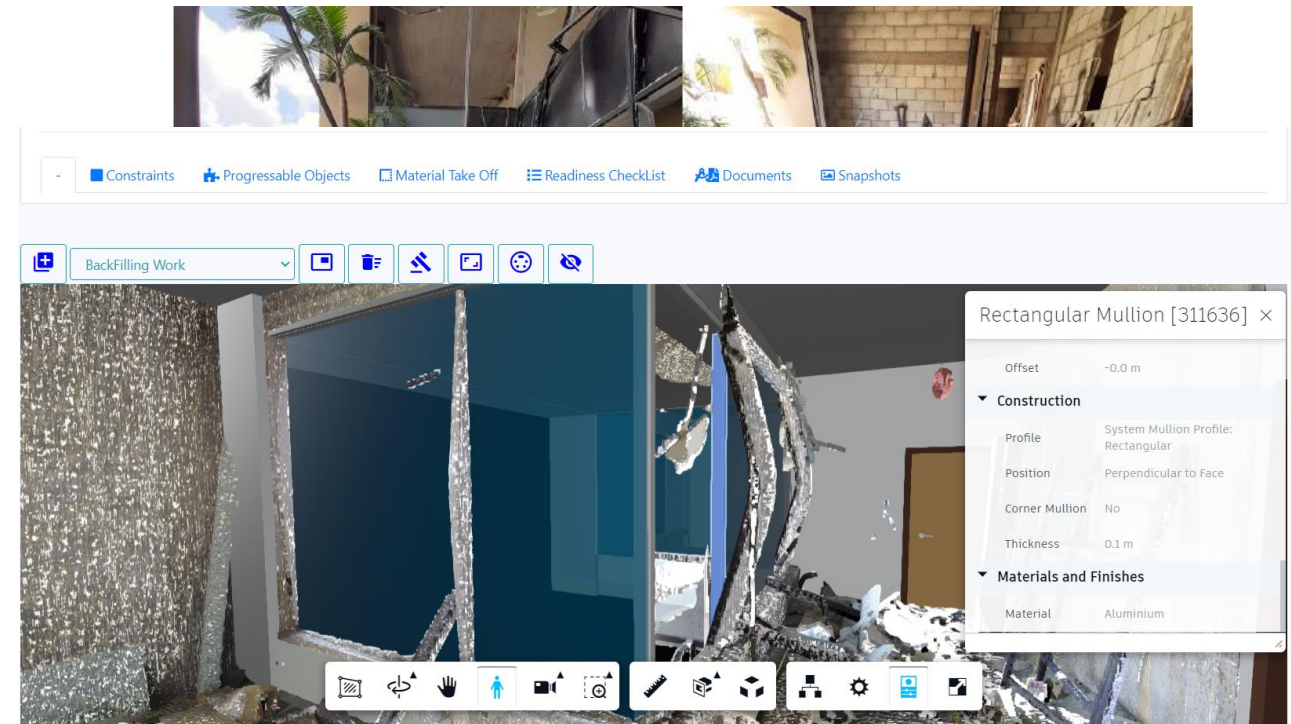
- **Contractor:** German Company
- **Architect:** French Company
- **Donor:** EU based Foundation
- **Building:** 800 meters from blast center

➤ Donor Requirements:

- Documentation
- Proof of Damage
- Proof of Progress
- Proof of Quantities
- Images **NOT** enough

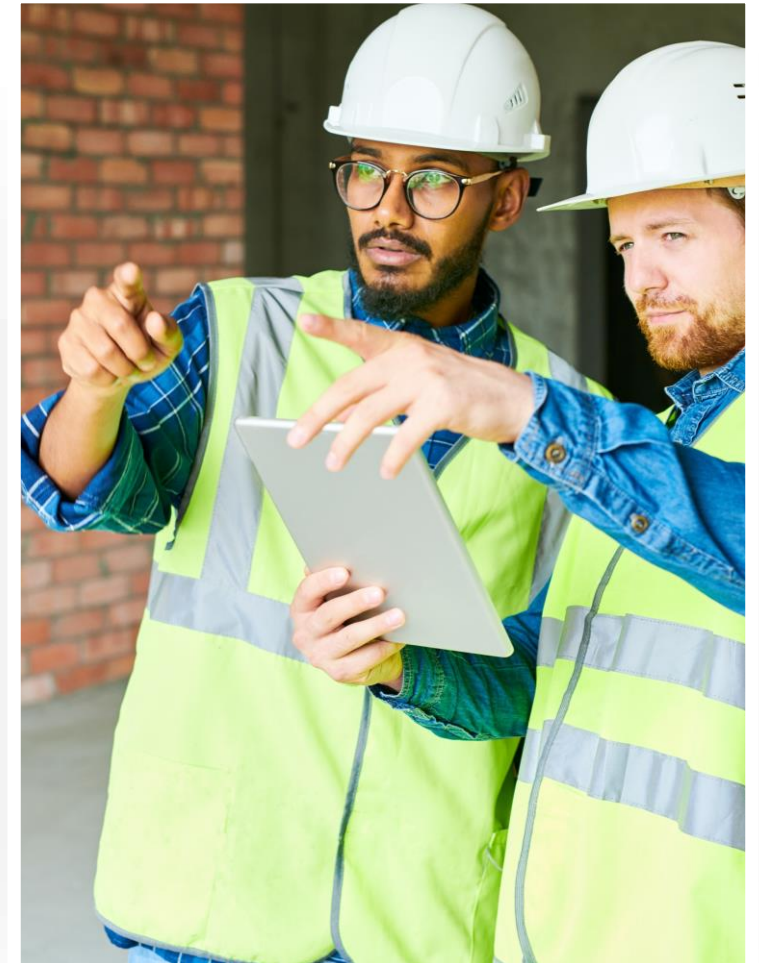
➤ Need a Fraud proof **Cloud Solutions.**

➤ **Laser Scan:** 11 GB per Floor

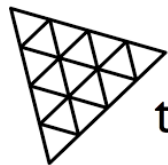


Demo:

BlackSmithSoft DC in Renovation Live Project

 BlackSmithSoft

AUTODESK®
FORGE



three.js



DRACO
3D DATA COMPRESSION

Read More

- What is BIM: <https://www.autodesk.com/solutions/bim/benefits-of-bim>
- Advanced Work Packaging (AWP): <https://blacksmithsoft.com/services/certified-awp-wfp-training/>
- BlackSmithSoft DC: <https://blacksmithsoft.com/services/blacksmith-dc/>
- BlackSmithSoft Digital Renovation: <https://blacksmithsoft.com/services/digital-renovation/>
- Buyer Report: <https://blacksmithsoft.com/giving-visibility-to-the-buyer/>
- Mckinsey Report:
 - <https://www.mckinsey.com/business-functions/operations/our-insights/how-construction-can-emerge-stronger-after-coronavirus#>
 - <https://blacksmithsoft.com/post-coronavirus-engineering-construction-companies-need-to-change/>
- Google Draco: <https://google.github.io/draco/>
- GLTF: <https://www.khronos.org/gltf/>
- Autodesk Forge: <https://forge.autodesk.com/>