How Different Technologies Can Make You More Lean

Mikael Reckley | Procore
Presenter

Mikael Reckley
Field Marketing Manager, Procore
Cultural Hurdles
New Tool = New Process
Remember these Companies?
Bottom Line: Adding Value & Reducing Waste

People/Culture

Lean Construction

Process

Tools/Technology
Virtual Lean Tools

• Software that attempts to emulate and automate an existing lean tool or process

Virtual Construction Tools

• Software, when used properly, can add value and reduce waste, thus making the team more lean

Mobile

• Mobile devices that will use virtual construction and lean application to enable your operational staff to be much more efficient and have accurate information in the field
# Tools & Technology

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<th>Virtual Construction Tools</th>
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Tools & Technology: Virtual Lean Tools

Last Planner: Touchplan.io™, BIM 360 PLAN, LeanPlanner

A3: A3Creator

VSM: smartdraw, Lucidchart, creately
Tools & Technology: Virtual Construction

Project Management
- Procore
- Field Lens
- Aconex
- PlanGrid

Schedule/Planning
- Primavera
- Oracle Primavera P6
- Project
- Vico
- Trimble

BIM
- Autodesk
- Bentley Systems
- Assemble
- Solibri
Tools & Technology: Mobile

+ Full Access to your Network/Firewall
+ Ability to use more robust software
+ User Friendly, Apps vs Software
+ Durable-Smaller/Light
+ Photos/Video
+ Cloud Dependent
+ Hybrid
+ Less Distinguishable from iPad and Droid

Laptops vs. iOS/Droid Tablets vs. PC Tablets
Typically happens during the workday

Walk the jobsite. Visit each sub and get a count of all their employees and a narrative of what they are working on that day, record in notebook.

10 min per subcontractor

(22*10min)/60 = 3.6hrs

Typically happens after the workday

Return to the trailer.

10 -20 min

Transcribe all this info into your project management electronic tool.

10 min per subcontractor

(22*10min)/60 = 3.6hrs
Future State for Daily Reports

Done concurrently with other daily tasks

Walk the jobsite Visit each sub and get a count of all their men and a narrative of what they are working on that day, record in notebook.

10 min. per subcontractor
Current State of PM Software

Log into PM Software and create an RFI
Generate RFI then export PDF
Combine RFI PDF and backup docs in PDF editor
Generate email with proper language and distribute to Architect/Team
Review RFI response
Input response into PM software. Close RFI.
Generate email with proper language then distribute to Subs
Save official RFI to local network for record keeping

Total Estimated Process Time: 22.5 Minutes
Future State: Procore

Log Into Procore “Create RFI” Page
20 Sec.

Generator RFI and Drag/Drop Backup Docs Into Procore
2 Min.

Click “Distribute” to Send to Architect/Team
5 Sec.

Response Uploaded, Open Doc in Procore
20 Sec.

Review RFI Response
5 Min.

Mark as Official Response and Close RFI
5 Sec.

Click “Email” to send Response to Sub.
10 Sec.

Total Estimated Process Time: 8 Minutes

Percent Improvement in Time: 64%
Estimated MH Savings (Based on 200 RFIs): 47
Conclusion

+ Adding value and reducing waste
+ Re-evaluate process with new tools
+ Training
+ Leadership buy-in
Q + A
Thank you!

Contact Us

866.477.6267
sales@procore.com