



Dave Thomas

Project Executive, Consigli Construction Co., Inc.

Bridging Craftsmanship with Innovation



2018 Real Estate Spring Conference
Workforce Challenges: How Innovation Can Help



**Passion for
Building**



**Culture of
Accountability**



**Create
Raving Fans**

W o r k f o r c e C h a l l e n g e s : H o w I n n o v a t i o n C a n H e l p



ADDRESSING THE LABOR SHORTAGE

1. Advance STEM jobs and education
2. Attract more women to the field
3. Encourage craftsmanship training
4. Incorporate new technologies to innovate

entrepreneur.com



Economist.com



1. PLANNING
2. COMMUNICATION
3. TRUST

Engage & Empower the Tradespeople

- Follow through on Commitments
- Reward Innovation



<https://www.leanconstruction.org>

Eliminating Waste in Construction - Lean

Over-processing: The “Re-Draw”

Waiting: Delay in Material to do the Work

Motion: Excess movement to do the Work

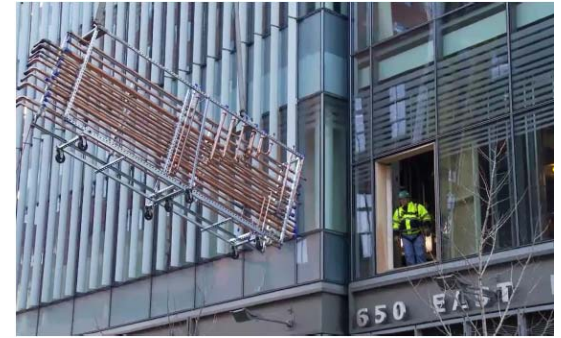
Inventory: Too many Stored Materials on site

3D Model Usage & Layout



CONSIGLIO
Est. 1985

Pre-Fabrication



Workforce Challenges: How Innovation Can Help



Kitting & Material Handling

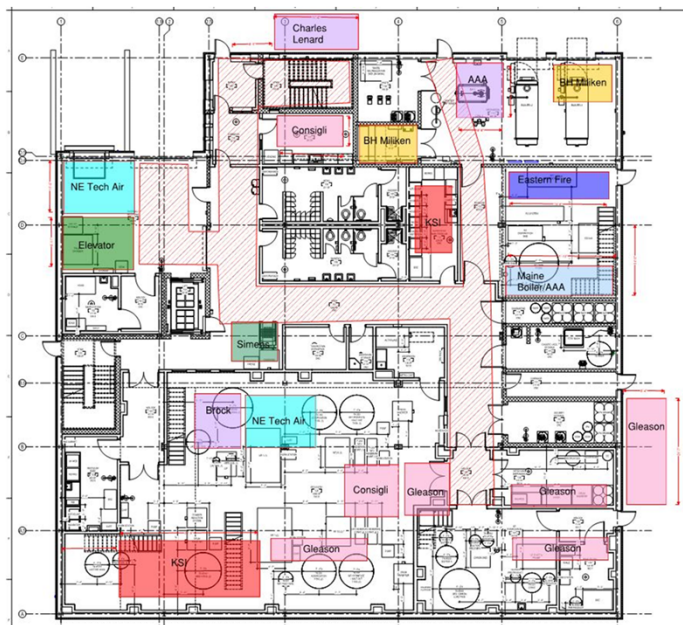


Workforce Challenges: How Innovation Can Help



Lean on the Job Site

Material Storage Plan



Nothing Hits the Ground



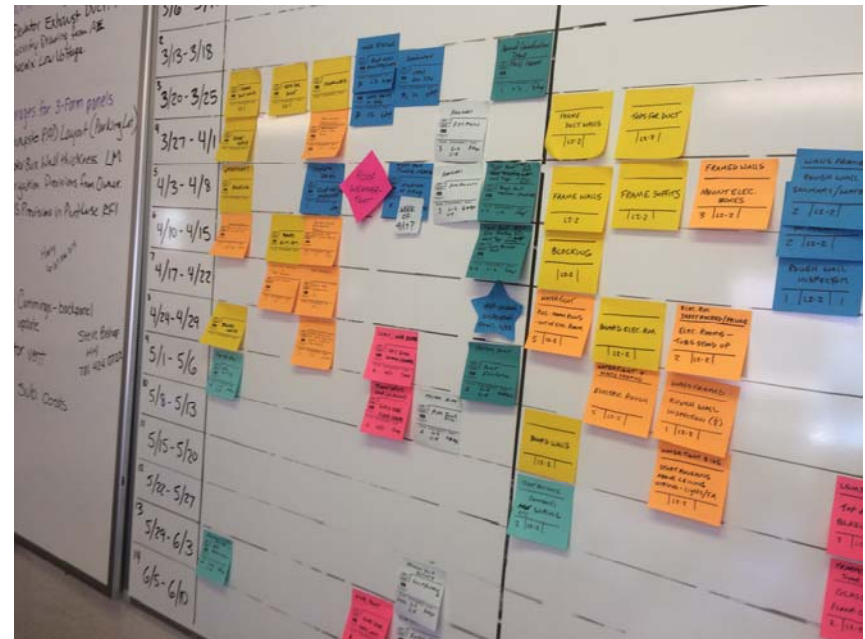
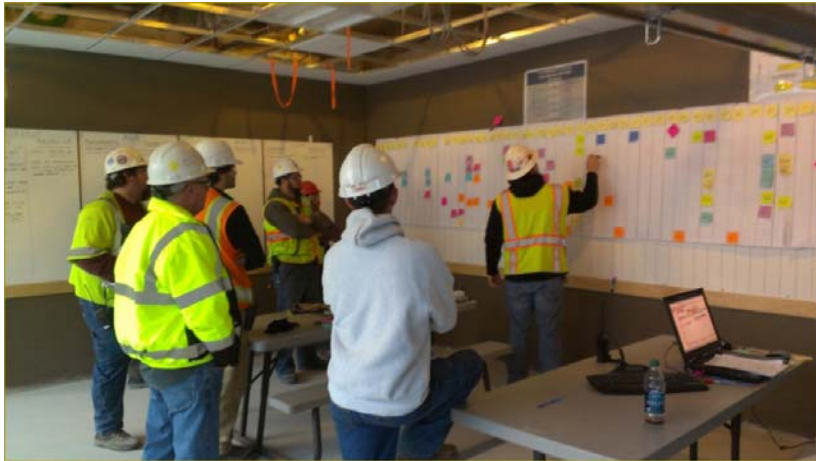
Workforce Challenges: How Innovation Can Help



Lean on the Job Site

Pull Planning

Daily Stand Up Meeting



Workforce Challenges: How Innovation Can Help



Hutchins Drive - PPC By Variance

Plans: Hutchins Drive Selected

Roles: Multiple Roles Selected

Locations: All Locations Selected (Including Location-less tickets)

Start Date: Monday February 26 2018

End Date: Friday April 20 2018

Data as of: April 27, 2018 09:30:21 AM EDT

Total Promises Met:

148



Total Promised:

213



Handshakes

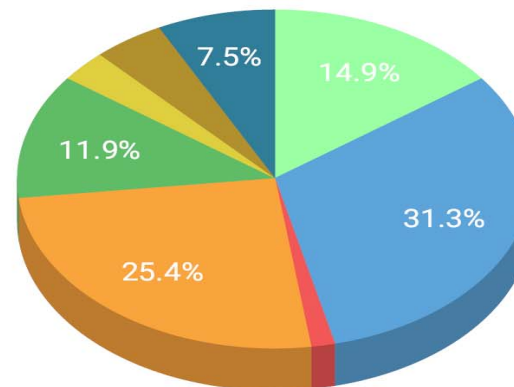
Overall Score:

69.5%



PPC By Variance Reason

10. Manpower 1. Coordination / Scheduling 2. Design / Engineering 3. Owner Changes
5. Material / Equipment 6. Permits / Inspections / Regul... 8. GC Directive 9. Finished Before Plan



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Big Data / Analytics

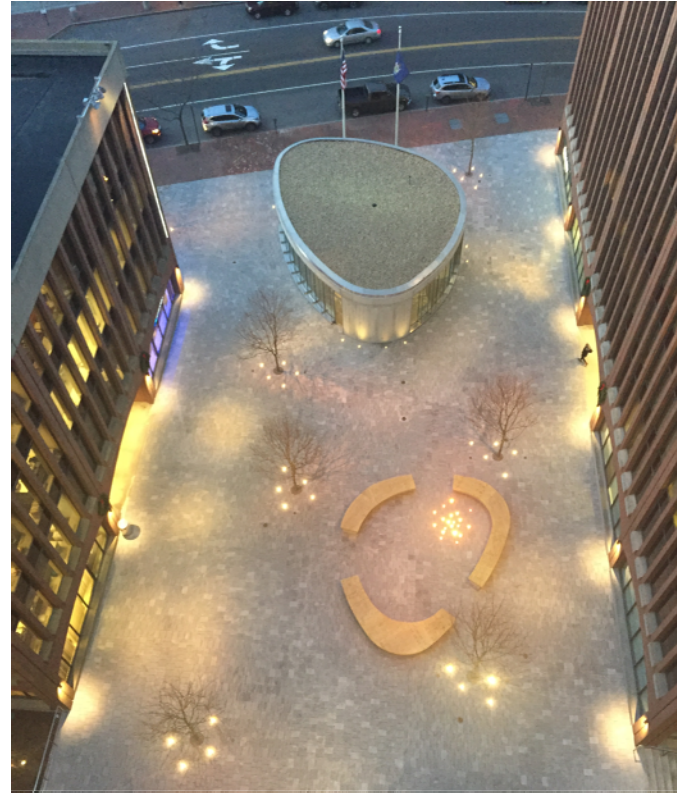
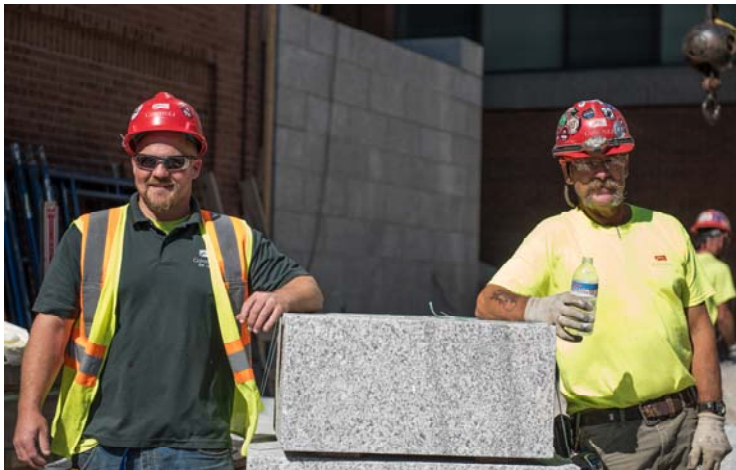


Robotics



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