# Adapting to Crisis through Innovation

Jordan Lawver May 15, 2021 FIG Young Surveyors Conference





### **Jordan Lawver**

Senior Business Area Manager, XR Tech



- Family background in residential construction
- B.Sc. Geomatics Engineering, The Ohio State University
- M.Sc. Computer Vision & Photogrammetry, The Ohio State University
- NASA and DoD funded research at OSU (Spirit, Opportunity, LRO, USAFRL)
- Joined Trimble Leadership Development Program in 2013 (Denver, Colorado)
- Joined Trimble Mixed Reality Program when launched in 2015
- Today oversee all Trimble XR software & hardware innovation tech



"In a customer and market focused view, innovation is never 'disruptive'. Innovation itself is an essential, vital, and fundamentally positive force. It's only disruptive to ossified incumbents who have failed to adapt and themselves innovate."

Dr. Peter Large

"Strategy, Innovation, and the Art of Navigation"

### **Trimble Mission & Vision**

#### Our Mission



Transforming the way the world works

#### Our Vision



Delivering products and services that connect the physical and digital worlds





**Process** - Complex projects, generally unique

92% 85%

63%

4%

14%

**Projects** Exceed Budget

**Projects** Exceed Schedule

Projects Have Quality Deficiencies

in AEC Firms

Project Capital in Rework

**People** - Skilled Labor is a Top Priority

90%

30%

Face Talent Shortages

Decrease in Workers Less than 24 Years Old



### **Construction Tech Innovation**



Field Layout

Robotic 3D Capture

Mixed Reality

Site IoT



### Why is innovation important?

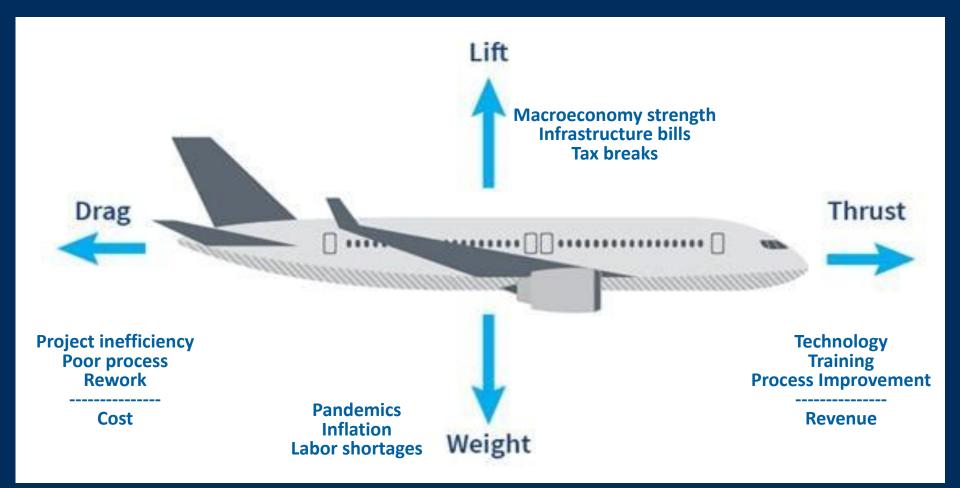


Rework Cost

**Process Improvement** 

Revenue







# COVID-19 and Construction Can't travel to the jobsite?

Subject matter experts unable to travel to solve critical issues



Worker shortages, reduced capacity allowed onsite



PPE requirements, temperature checks, contact tracing





# COVID-19 and Construction Can't travel to the jobsite?

### Collaborate Remotely





### Automate Data Collection





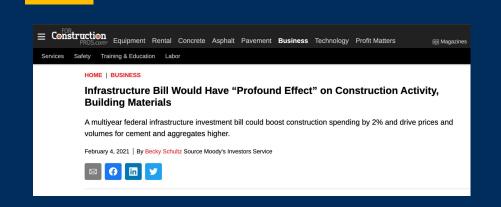
### **Ensure Worker Safety**







### When life gives you tailwinds...











Q&A

