TECH ALLIANCE

Associated Builders and Contractors

ABC TECH ALLIANCE
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Matthew Abeles

Vice President, Construction Technology and Innovation

What We are going to Cover

- Covid-19 Technology Solutions
- Safety Technology Solutions
- Project Management Solutions
- Smart Tools
- Building a culture to Innovate

ASK QUESTIONS AT ANY TIME!

This is not meant to be a one-way discussion

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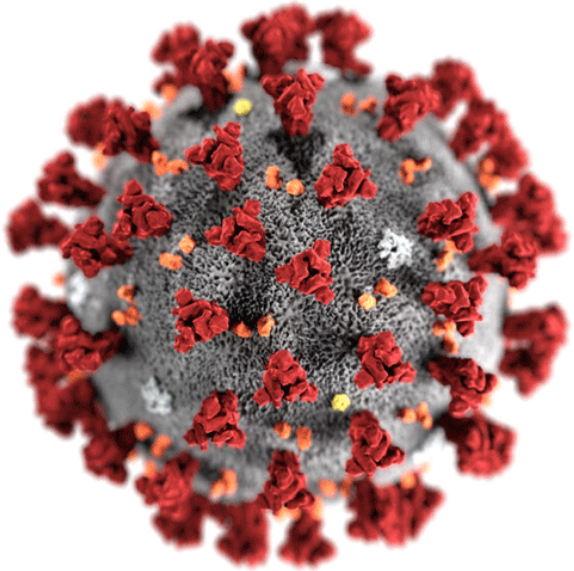
COVID-19 TECHNOLOGY SOLUTIONS

What kinds of COVID-19 solutions should you embrace?

- Health testing
- Social Distancing
- Compliance tracking
- Temperature/PPE checking
- Jobsite Monitoring



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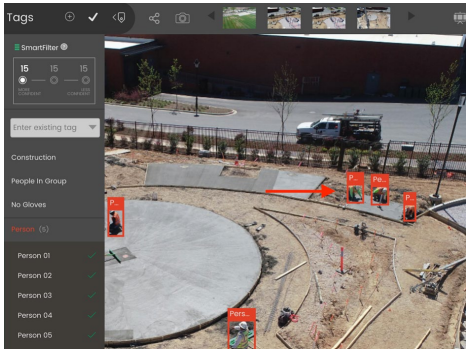
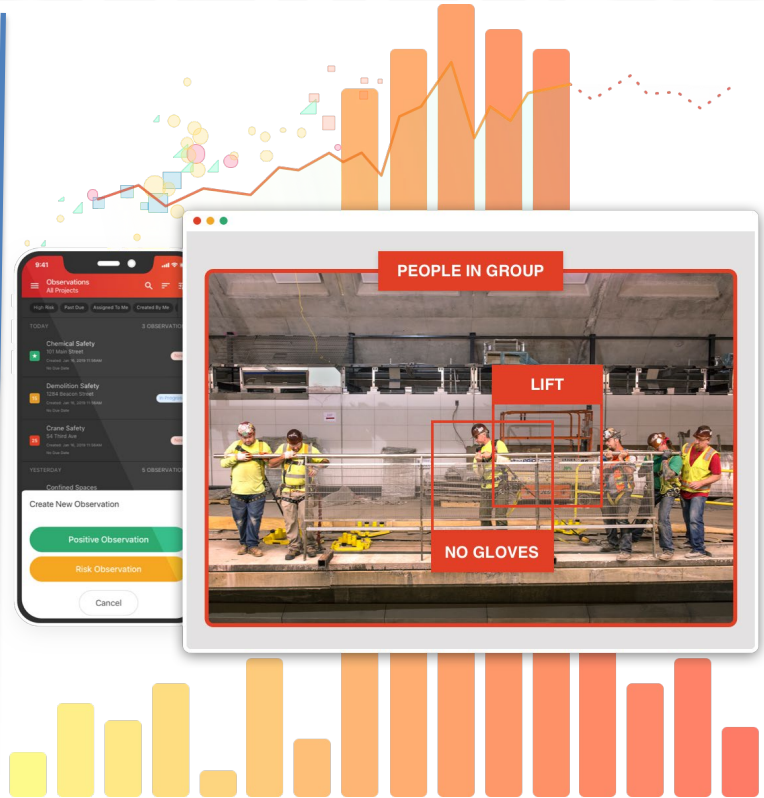
COVID-19 Technology

SMARTVID.IO

Benefits:

- Realtime artificial intelligence
- Track PPE gear worn
- Ensure social distancing with AI
- Covid-19/safety analytics

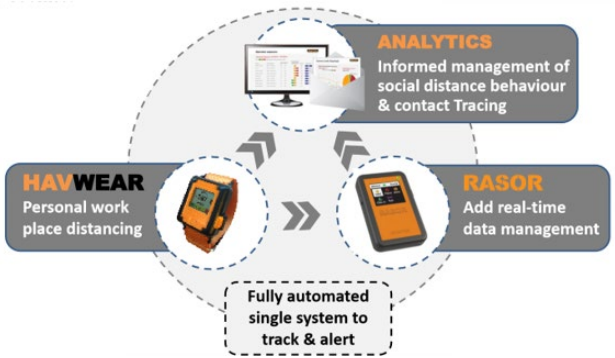




COVID-19 Technology

Benefits:

- Hardware + data on social distancing
- Realtime analytics on worker social distancing.
- Watch with vibration notifications.



REACTEC

INFORM : PROTECT : DEPLOY

COVID-19 Technology

Benefits:

- Test fatigue, sickness, alcohol and drugs.
- Simple 1 minute test.
- Noninvasive pupil scan test

sobereye

COVID-19 Technology

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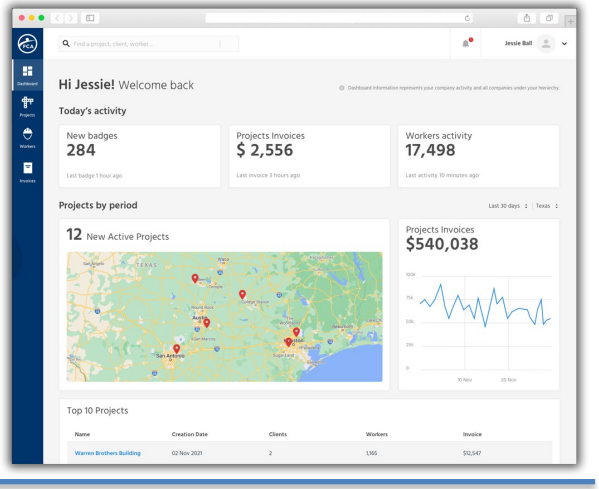
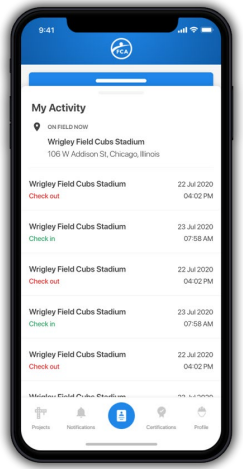
COVID-19 Technology

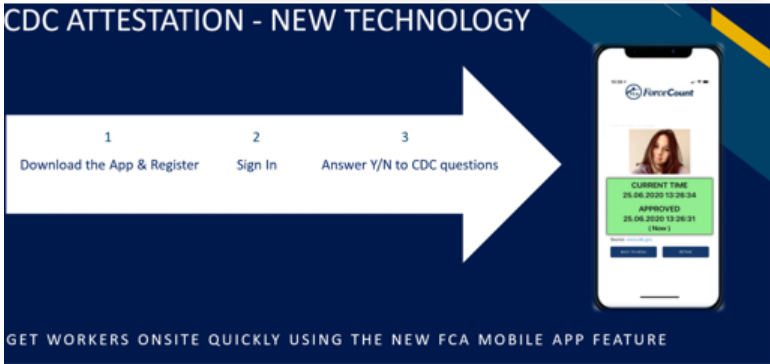
Field Control Analytics



Benefits:

- Real time COVID-19 Approval for sites.
- Mobile workforce monitoring.
- Analysis dashboard with hours worked, type of worker, ethnicity and more.





SAFETY TECHNOLOGY SOLUTIONS

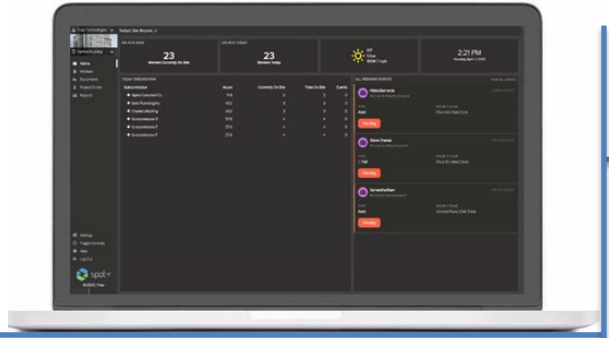
What kinds of the safety technology solutions should you embrace?

- Internet of things (IOT) devices to inform of safety occurrences.
- Wearable solutions that improve safety awareness.
- Safety documentation.
- Tools to prevent injuries.
- Site sensors
- Drones

Safety Technologies

Benefits:

- Site safety
- Real-time worksite visibility
- Automation and productivity gains



triax®

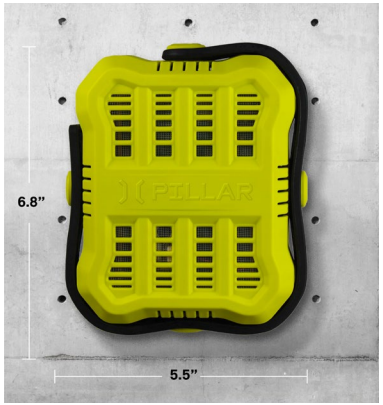
Safety Technologies

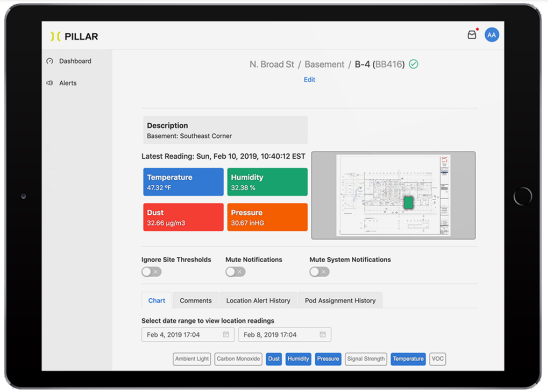
Safety Technologies

Benefits:

- Hardware + data on site conditions reporting
- Instant notifications on safety and site issues.

PILLAR





Safety Technologies

Benefits:

- Paperless safety documentation
- Track safety actions with real time analytics

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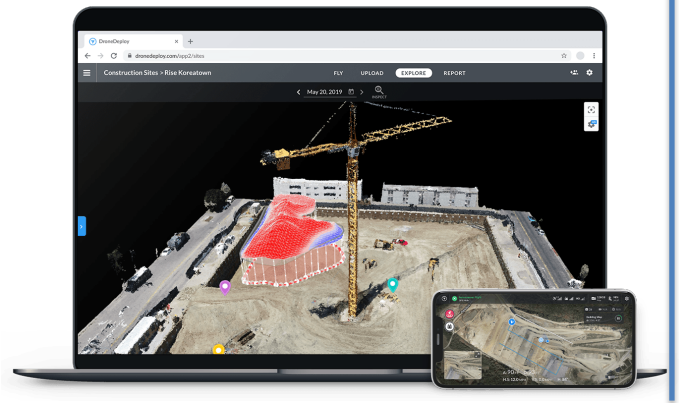
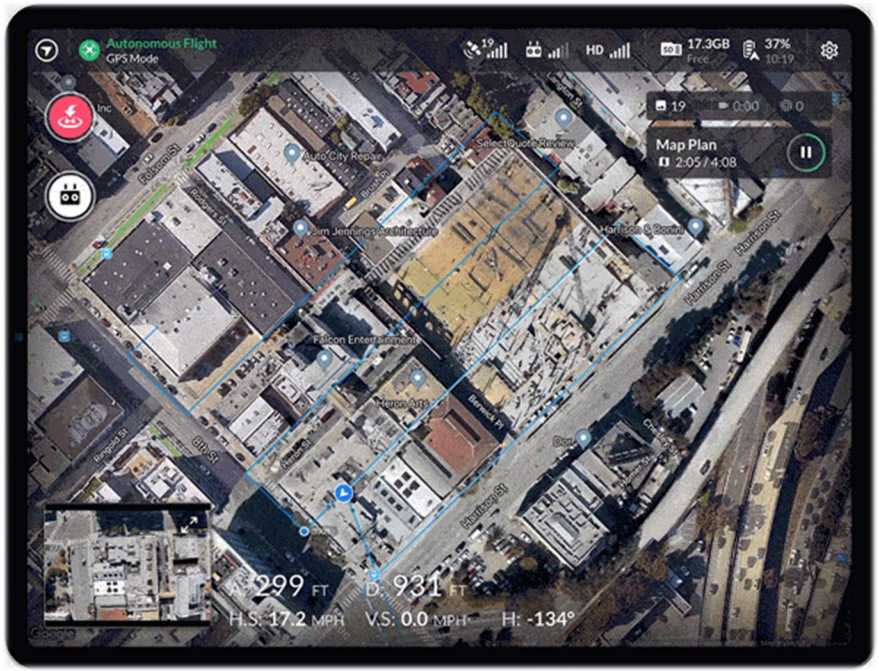
Safety Technologies

DroneDeploy

Benefits:

- Simplify Pre-Construction
- Expedite Construction Projects
- Stay Connected to Your Project from Anywhere





PROJECT MANAGEMENT SOLUTIONS

What problems should your project management solution solve?

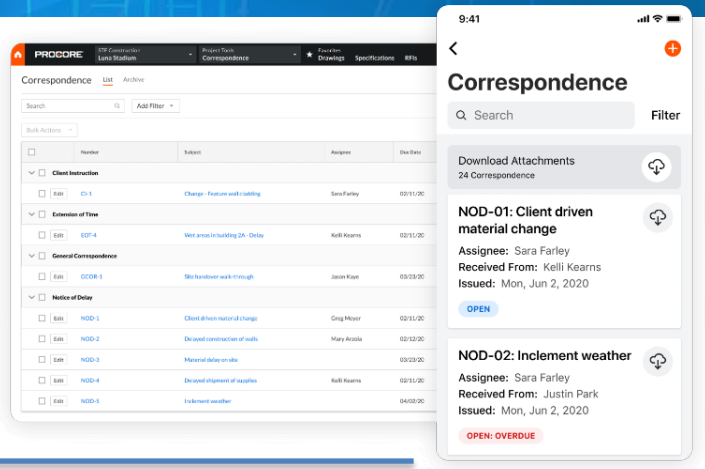
- Coordinate workflow and improve efficiency
- The ability to track field activity in real time, and measure productivity
- Communicate better

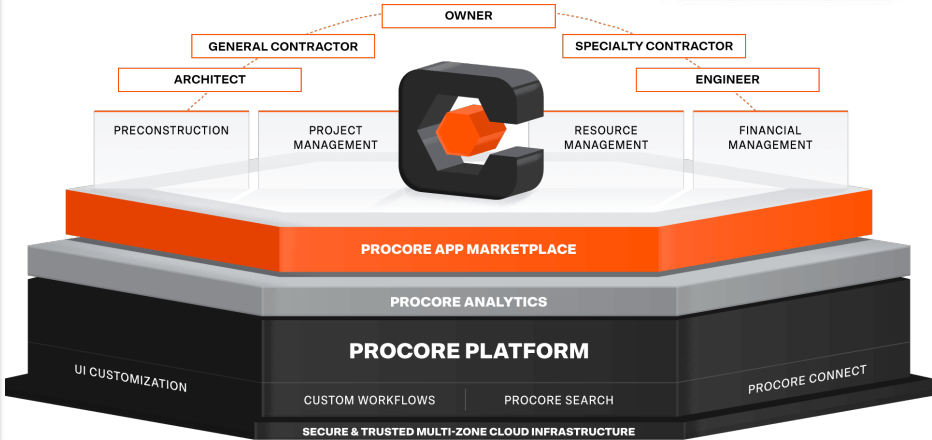
Project Management

PROCORE®

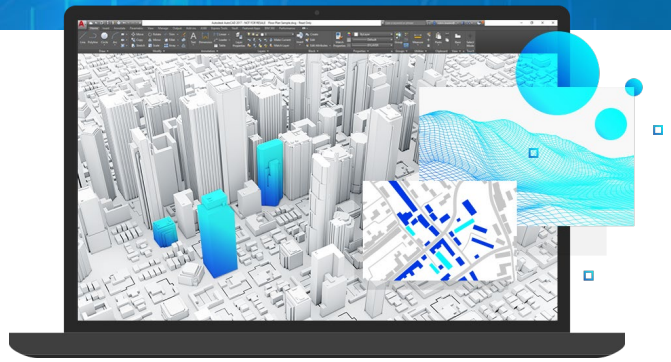
Benefits:

- **250+ integrations**
- Centralized access to assets
- Data:
  - 50% of clients see an increase in profit margin.
  - 68% of project managers save 5+ hours each week.
  - 75% of project managers reduce project duration by at least 3 days.





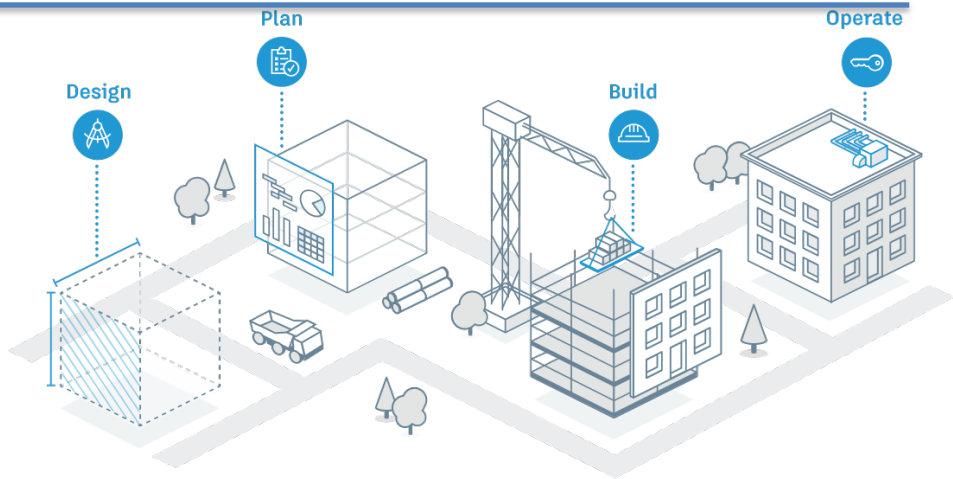
Project Management



Benefits:

- Mitigate risks early
  - Improve predictability with Level of Development (LOD) models.
- Avoid costly rework
  - Use 3D coordination tools that detect clashes, errors, and omissions.
- Drive innovation
  - Push your projects further using schedule and cost simulation.

AUTODESK **CONSTRUCTION CLOUD**™



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SUBHQ

AN AUTHENTIC **SUBCONTRACTOR PROJECT MANAGEMENT** SOLUTION FROM **BIDDING TO COMPLETION**

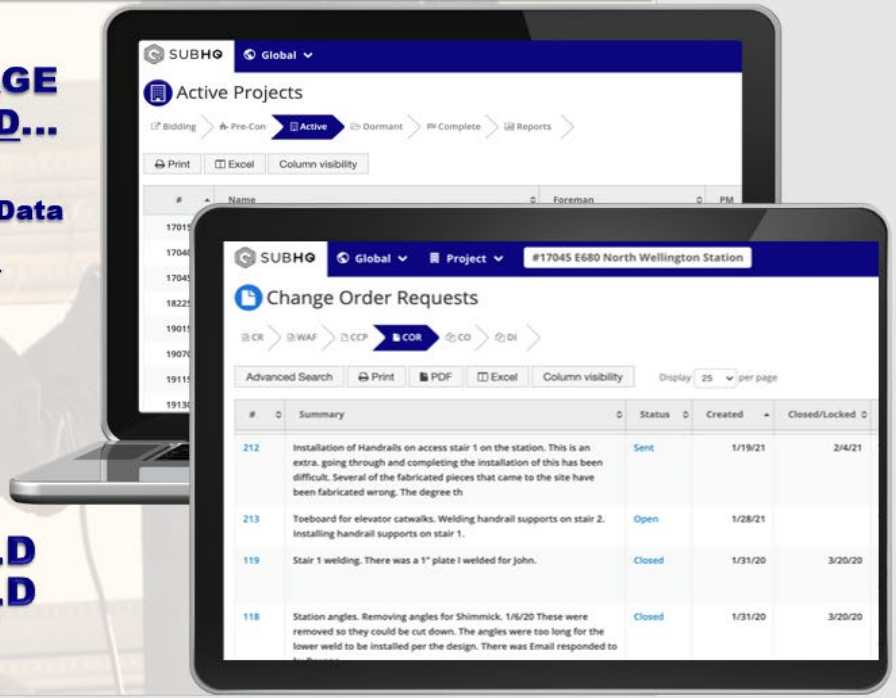
90% OF THE DATA SUBCONTRACTORS MANAGE ORIGINATES IN THE FIELD...

Field-Friendly First
- Built for their Real Needs & Real Use
- Easy & Intuitive Field Adoption

Real-Time Project Data
- Same in Field or Office
- Phone / Tablet / Computer

Manage Complexity Simply
- Streamlined & Integrated Workflows
- Streamlined Change Order Management

One Touch Entry
- Reduces Redundancy
- Increases Consistency



BUILT WITH KNOWLEDGE OF THE FIELD & WITH PROXIMITY TO THE FIELD

SMART TOOLS SOLUTIONS

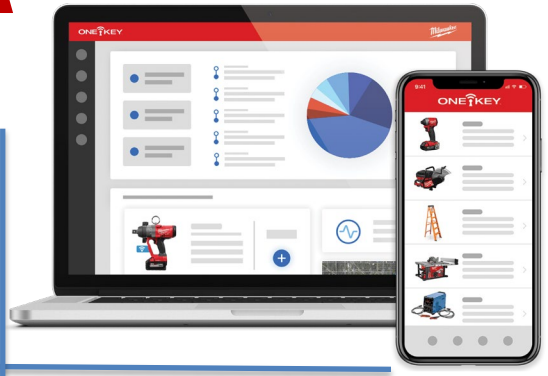
- What are some of the Smart Tools You Should Embrace?
  - Milwaukee - ONE-KEY
  - Tenna
  - Bosch – BLUEHOUND
  - Robotics
  - Virtual Reality

Smart Tools

Benefits:

- Integration with procore
- Integrated with newer model tools – smart tools
- Provides small asset management and tracking
- View tool usage and performance data

ONE-KEY™



TICK™
TOOL AND EQUIPMENT TRACKER

TRACKED BY ONE-KEY™

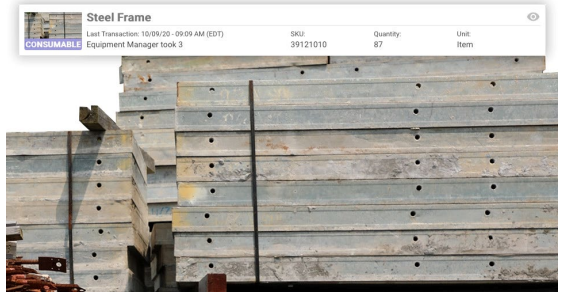
Smart Tools

ONE KEY
DIGITAL PLATFORM FOR TOOLS & EQUIPMENT
CUSTOMIZE. TRACK. MANAGE.

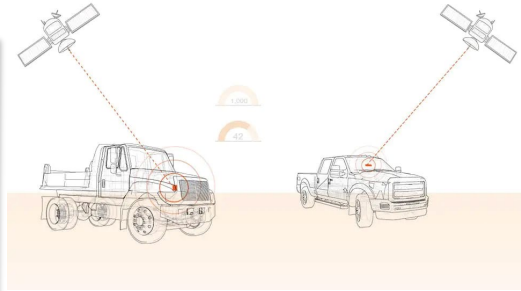
Smart Tools

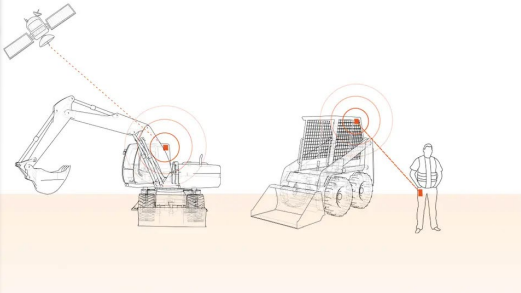
Benefits:

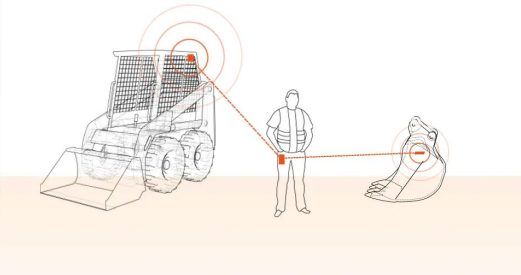
- Construction material management and inventory management on the go.
- Small tool equipment tracking
- Midsized equipment tracking
- Fleet tracking
- Heavy equipment tracking
- Geared towards small to mid sized contractors.
- Integration with Procore
- Utilizes GPS tracking, low energy bluetooth, and cellular wireless



TENNA®





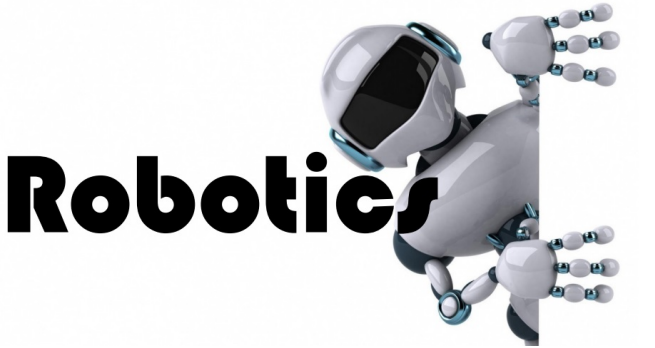


Smart Tools

Benefits:

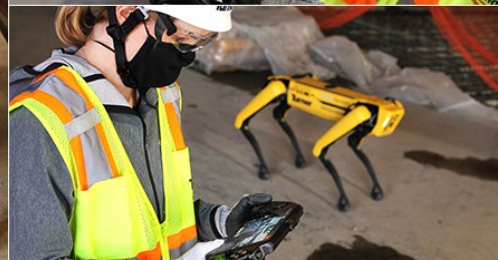
- Wifi Access Point
- Tool Connect
- Bluetooth tag-based system
- Mobile app to track and manage your assets

Smart Tools



Benefits:

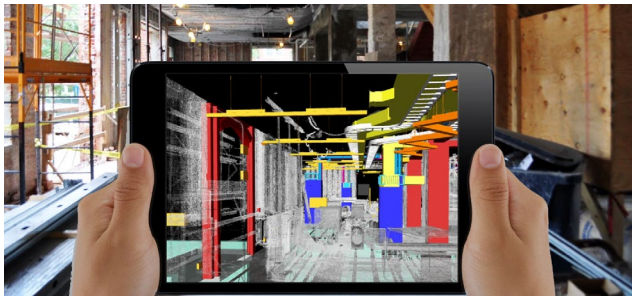
- Increased Safety.
- Remote surveillance, surveying and inspections.
- 3D Printing of Materials.
- Self-Driving Vehicles.
- Lower Cost Over Time
    - Brick Laying Robots



Smart Tools

Benefits:

- View Virtual Reality Renderings
- Virtual Reality vs Augmented Reality
  - VR - removes the user from that real-world experience, replacing it with a completely simulated one.
  - AR - lets the user experience the real world, which has been digitally augmented or enhanced in some way.



CULTURE

- What are some ways your company can innovate?
  - Embracing technology
  - Prioritizing diversity
  - Attracting the best talent

Culture

Embracing Technology:

- Start small - test technology on one or two project before rolling it out across all jobs
- Get buy in from everyone, especially the end-user.
- Assign a technology champion who's responsible for successful implementation.

Culture

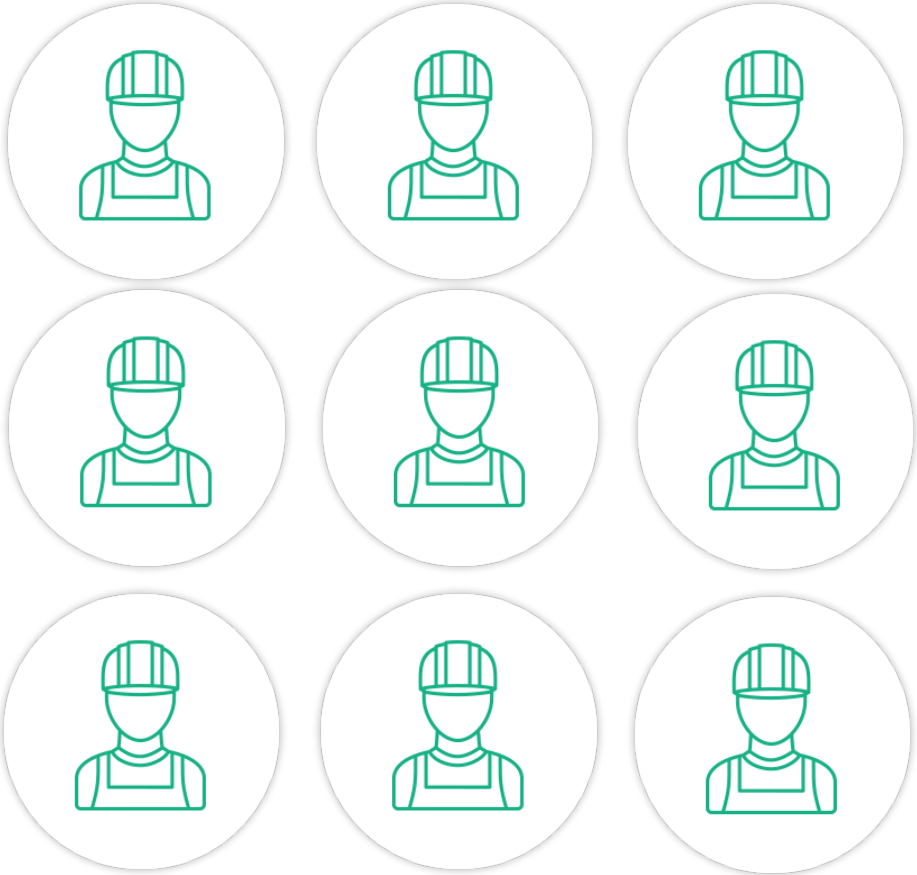
Prioritizing Diversity:

- Diversity of thought, diversity of background means we have more ideas and more perspectives at the table
  - Which is when innovation can thrive.
- Prioritizing D.E.I to help everyone feel like there's a place for them in the industry will enable us to attract that talent to the workforce.
- Tools like BuildingConnected help contractors discover those women and minority-owned businesses and help spread economic activity across the board.

Culture

Attracting Talent:

- Technology helps bringing new types of folks to our industry
  - People with an interest in gaming.
  - Virtual reality.
  - Data analytics.
- Digital Construction Schools
  - Hosted by companies like:
    - Autodesk, Procore, United Rentals, and many others.



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Q&A/Contact

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