

How Workforce Data Enhances a Data Center Project's Construction Efficiency





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How Workforce Data Enhances a Data Center Project's Construction Efficiency

- The Data Center Market
- > Trends in Construction Tech Investments
- Why Focus on the Workforce?
- A "Single Source of Truth"
- How Does it Work
- Centralized Workforce Data in Action

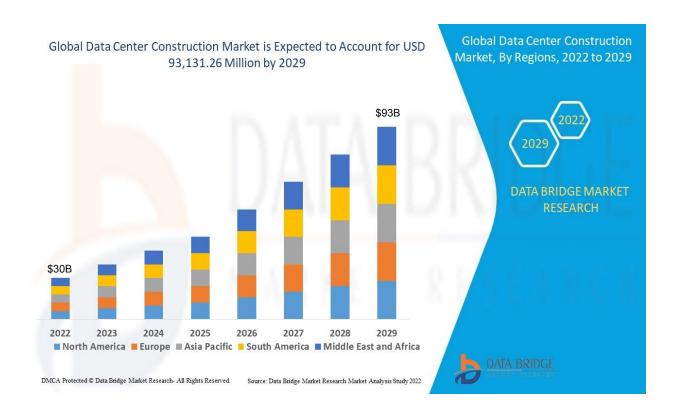
Agenda



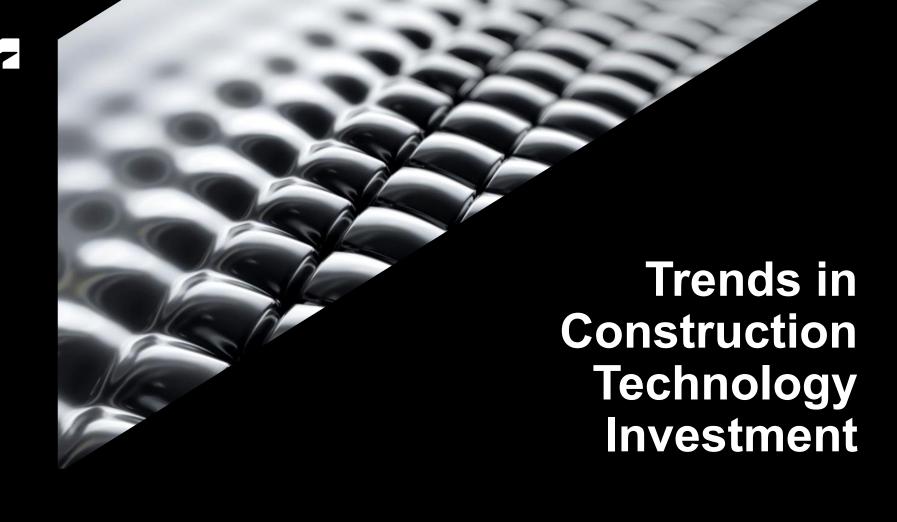


The Data Center Market

- Continuous Global Growth in Data Center Demand
- 25% Global Data Usage Spike since Pandemic
- 300+ Hyperscale Data Center in the Pipeline Globally
- \$1+ Billion per Hyper Data Center
- Schedules are Getting Shorter!

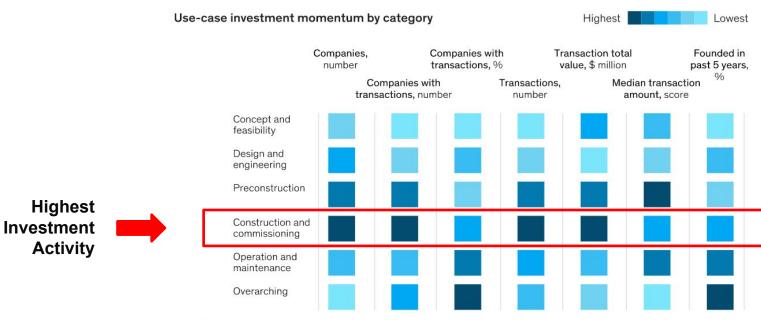






Trends in Construction Tech Investments

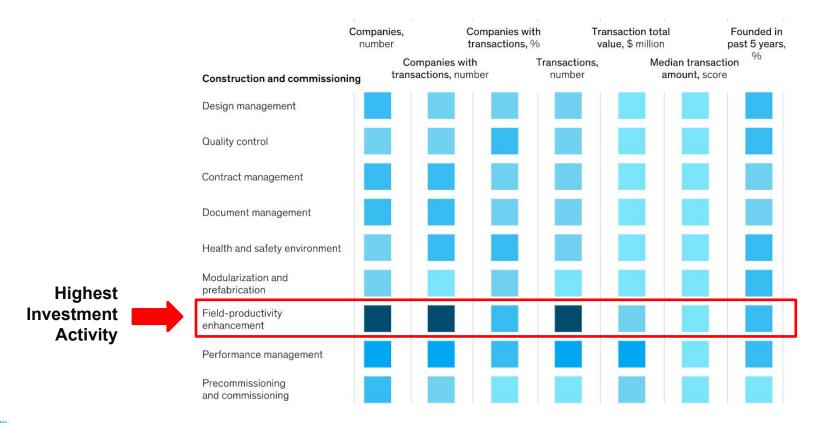
The construction and commissioning phase has twice the investment activity and more active players.







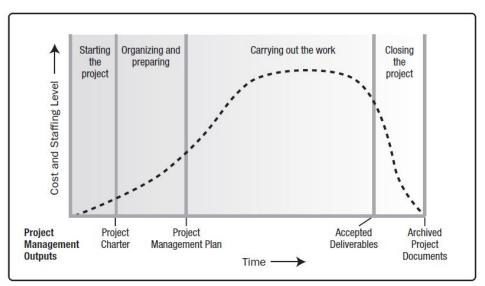
Where are the investments Trends?



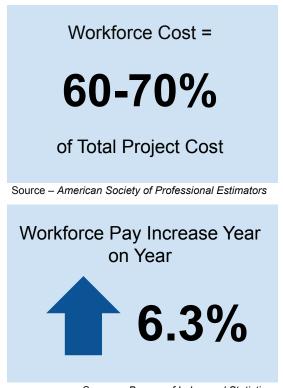




Construction Phase Highest Risk



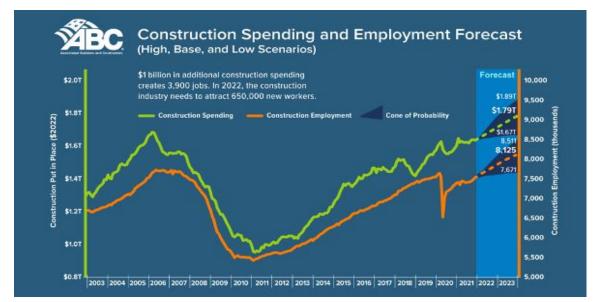
Source - Karneliuk.com



Source - Bureau of Labor and Statistics



Labor Shortage: The Struggle to Fill Construction Positions



Source – Associated Builders and Contractors of America

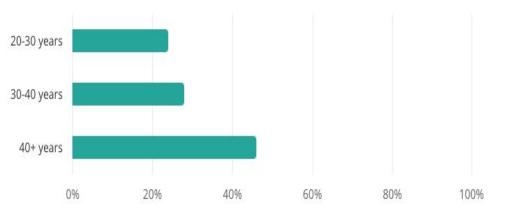
According to AGC:

- 375,000 Unfilled Positions
- Jump of 11.3% in 12 Mos.
- 93% of Companies have Vacancies
- 91% are having Trouble Filling them
- Construction Unemployment is at 3.5%



Aging Workforce

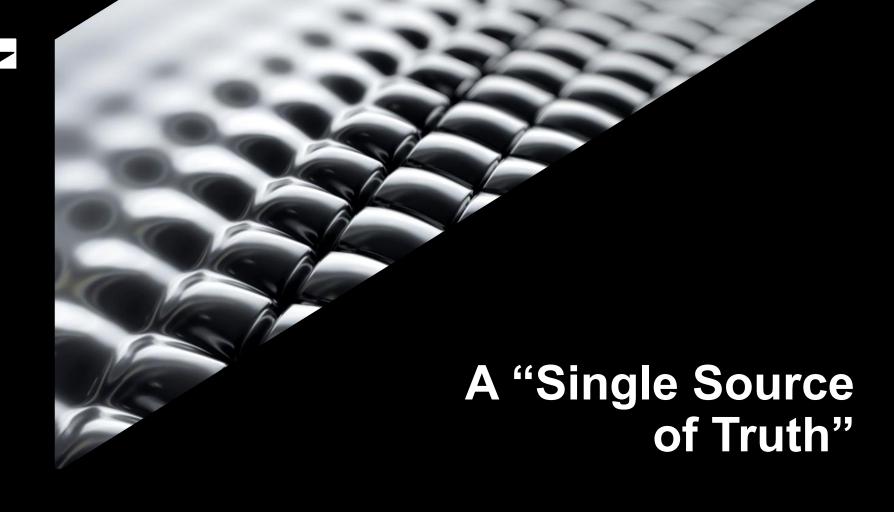
Percent of total construction workforce by age



Source - https://www.zippia.com/construction-worker-jobs/demographics

- Construction = Industry with Greatest average age increase in Workforce
- The Average age of
 - Plumbers 42
 - > Electricians 40.9
 - Construction Workers Overall 42.5
- For Every Five Retirees, there is only One Younger Worker to Fill the Gap. (Source LHSFNA)
- Compare to Average age of Coding Industry is 28





Data Center Projects



IMAGE CREDIT - Albuquerque Business Journal

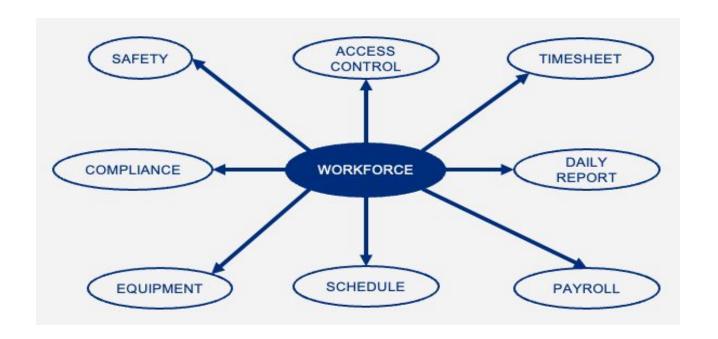
- Sites are 100's of Acres Large
- Schedule is a Major Driving Force
- Workforce on Site:
 - 100+ People in the Site Office
 - 1500 +/- Workers per Day
 - 7,000 +/- Unique Workers per Project
 - 4M Workforce Hours Recorded per Year
 - 45 Different Companies

How Can You Manage Projects Without Data?

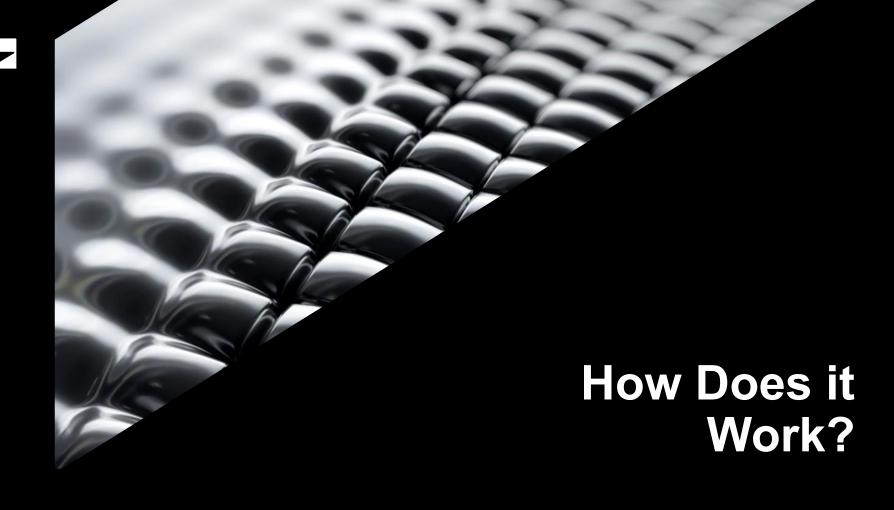


- Schedule is Driving Factor
- So Many Moving Parts
- You need Reliable Data in Real-Time
- For each Day of Delay = \$1,000,000 is Lost!

A "Single Source of Truth" for the Workforce







Autonomous Data Collection

- Fits within Site Workflow
- Easy to use and Minimize Data Entry
- Improves Administrative efficiency
- Reliable and Consistent Data Collection
- Configurable with Automated Reporting
- Automation and Alerts





Analyze Objective vs Subjective Data



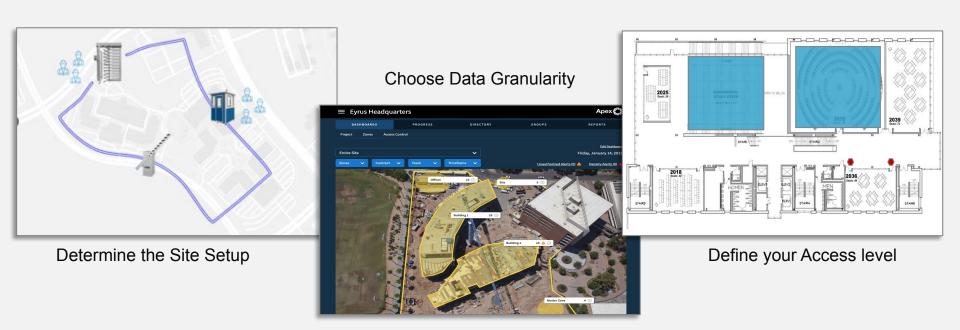
Objective information refers to Factual, Data-Based Information that is not Informed by Bias



Subjective information is based on Opinion, Perspective, or Open to Interpretation



1. Configure Data Collection by Site



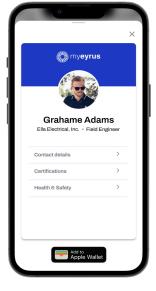


2. Choose the Right Data Collection Solution





3. Workforce Registration and Onboarding



Download App



Scan Code

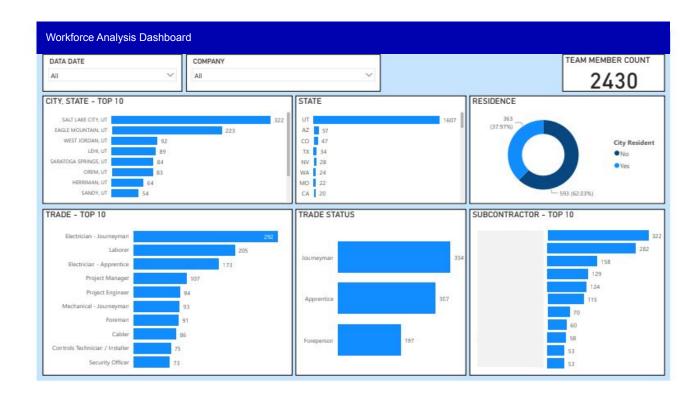
- Efficient Site Workflow
- Data Transparency for the Workforce:
 - Manage their Own Profile
 - Upload Certifications
 - Recorded Timesheets
 - Multiple Projects





Visualize Your Data to Make Informed Decisions

- Reliable Single Source of Truth
- Better Informed Decisions Making
- Communicate Visually
- Deliver the Right Information to Each stakeholder
- Automate Accurate Reporting

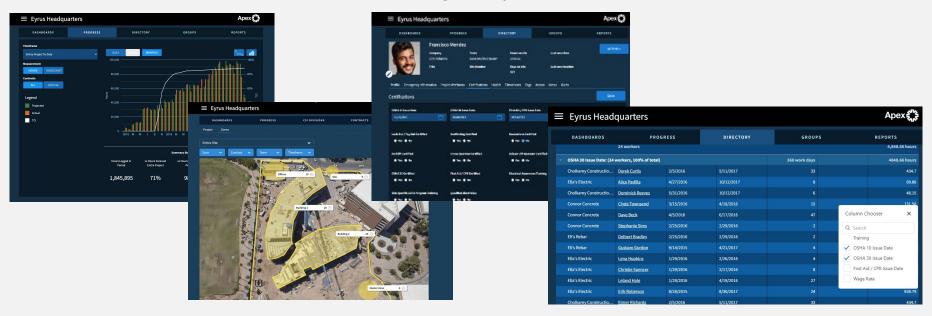




Benefits of a Centralized Workforce Database







Communicate in real time

Manage compliance reporting



Achieve More Efficient, Effective Worksite Management

- Integration = Seamless Data Flow
- Reduce Browser Fatigue
- Enhance Collaboration
- Increase Accuracy
- Improve Communication
- Streamline Decision-Making

- > Eyrus ROI:
 - 10 to 15 Hours a Week Saved in Administrative Work
 - 1 to 2 Hours a Day Saved in the Management of Trade Partners and Operations
 - 5% Reduction in Schedule delay Risks









Payroll

Project Management Software



ROI: Risk Mitigation, Safety & Compliance Reporting



Scope

- Confidential Data Center
- Location: Tornado Alley
- Over 1k Member Workforce
- 600K+ Project Hours

Wins

- 3 full Tornado Safe Evacuation
- Automated Data for Reporting on Safety and Compliance
- Workforce Deployment Forecast vs Actual Analysis

Challenges

- Accurate, Real-Time Attendance needed due to Natural Disaster Threats
- Key Workforce Management Data was Needed for Insight into the Project's Cost and Efficiency
- Owner Required Workforce Compliance Reporting

ROI

- > 15 Hours a Week Saved in Time Spent on Daily Administration
- 20% Productivity increase on Superintendent Time
- 3% Reduction on Workforce Bench Time



ROI: Enhanced Safety, Security, Performance & Risk Mgmt.

The Normalization of Data Across the Entire Program allows us to Accurately and in Real-Time Enhance Safety, Security On-Site and Workforce Visibility. The Integrated Platform Across the Program allows us to Compare Performance and Manage our Risks On-Site."

Ian Mincey

Project Exec Director of Preconstruction
Turner Construction

The Features and Capabilities of Eyrus have allowed us to Capture Real-Time Data Analytics to Understand what is Happening on our Project in the Moment. The User Interface is very Intuitive and Easy for us to Navigate...I would Recommend it for any Project with Labor Hour Analytic Needs."

Bryan Higgins

Project Manager Whiting-Turner Construction



Thank you!



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ROI: Real-Time Visibility into Workforce Productivity





Eyrus has a window to workforce productivity on our projects unlike any real time technology available in the marketplace."

Sean Cahill

Senior Vice President PGP DEVELOPMENT



ROI: Insights into Progress, Efficiency, Time Savings





I use Eyrus on my projects for the efficiency and insights on construction progress. Time is saved on documentation, and reporting is easier & concise with data being continuously collected onsite."

Billy Frye

Senior Project Manager VERITY COMMERC IAL



Get Some Quick Wins with your Data Immediately



Quick project deployments

- Start with the low-hanging fruit
- Start acting on your data immediately

Reduced steps & clicks

- Simple to use
- Automates admin processes
- Reduces steps/clicks
- ✓ Increased project momentum

