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AI IMPACT 2024 40th Annual FPC Seminar + Expo Sept 29 - Oct 1, 2024

Al Infusion: Redefining Healthcare's Design, Construction, and Operations

Course Number: AHCA 2024.09

Credit Designation: 1 LU/HSW

AIA CES Provider Number: E240



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Explain what AI is and how it's being used in our everyday lives

OBJECTIVE

Learn how AI can be a tremendous aid in the design and construction of healthcare facilities

3 OBJECTIVE

Recognize what AI can help us accomplish from a healthcare facilities operations standpoint.

OBJECTIVE

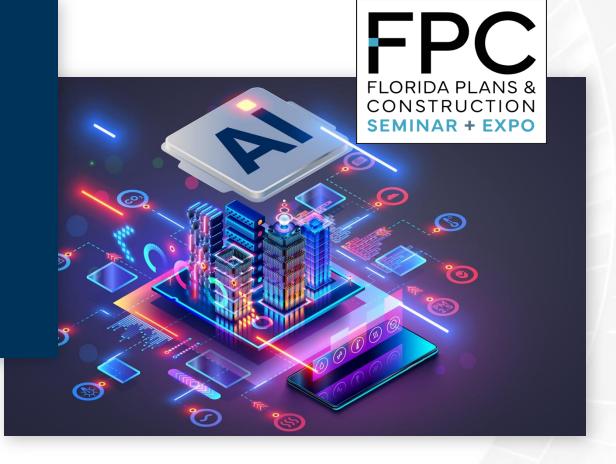
Understand how to use these tools to improve overall efficiencies in healthcare design, construction, and operations.



AI INFUSION

REDEFINING HEALTHCARE'S DESIGN, CONSTRUCTION, AND OPERATIONS

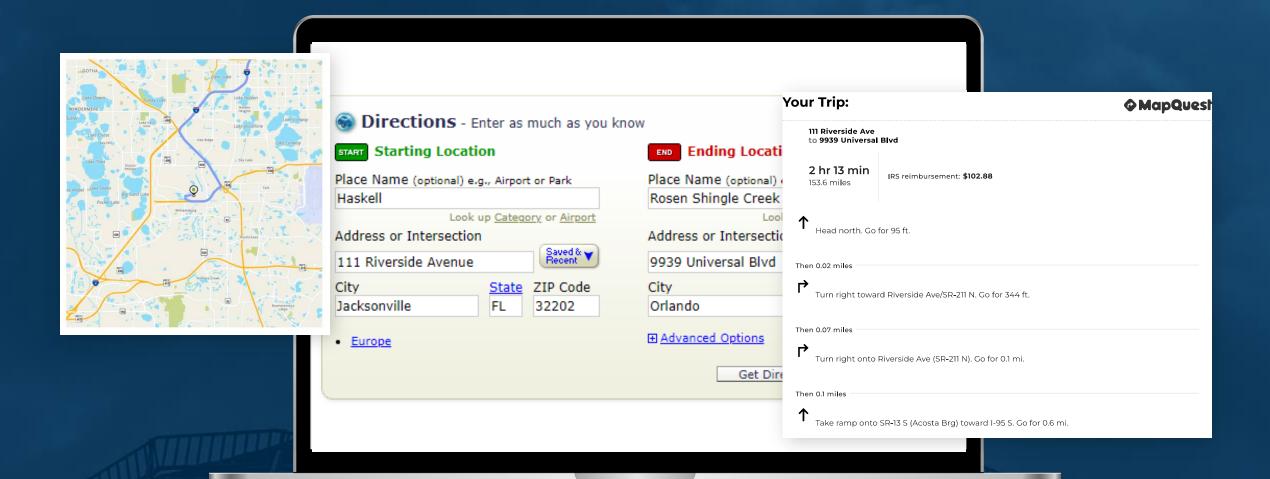
HAMZAH SHANBARI, PhD



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is Al just another hype?

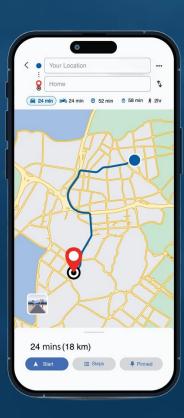
Who needs Al anyway?



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I DO NEED AI!





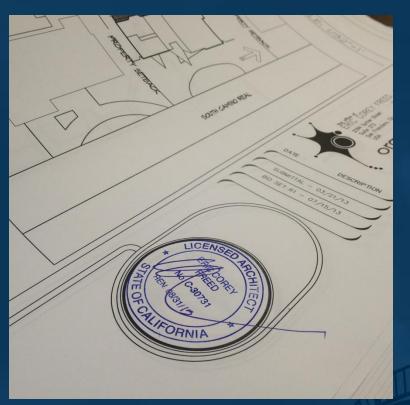
AI IN ARCHITECTURE & DESIGN





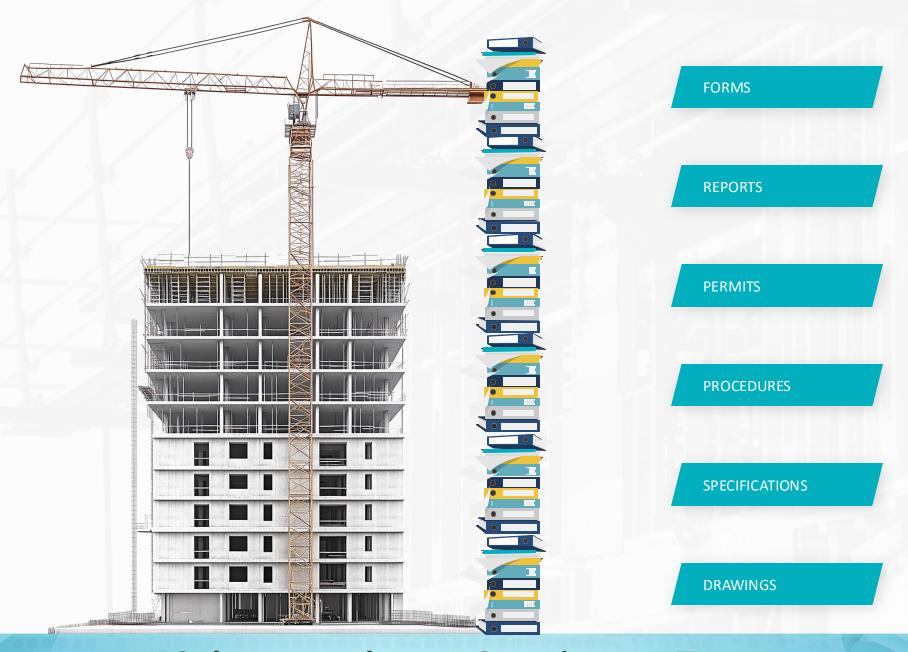


IN CONSTRUCTION



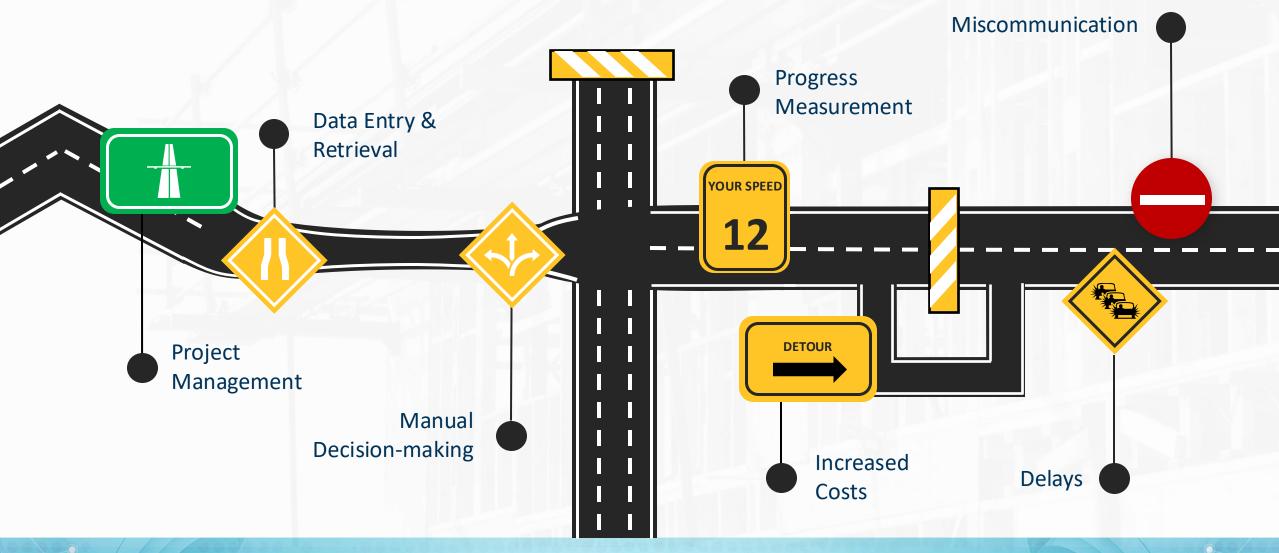






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Traditional Construction Processes



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can Al help?

Let's see...





PRECONSTRUCTION

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DRAWINGS

Traditional Approach

Blueprint Bottlenecks

Manual review and slow collaboration lead to misunderstandings and delays



SPECIFICATIONS

Traditional Approach

Static Spec Sheets

Static documents prone to miscommunication

Adjustments require manual updates across multiple documents



ESTIMATING

Traditional Approach

Time-consuming Estimations

Time-consuming, error-prone manual estimations



SCHEDULING

Traditional Approach

Gantt Chart Grind

Manual schedules with rigid timelines

Adjusting for delays or changes requires complex recalculations



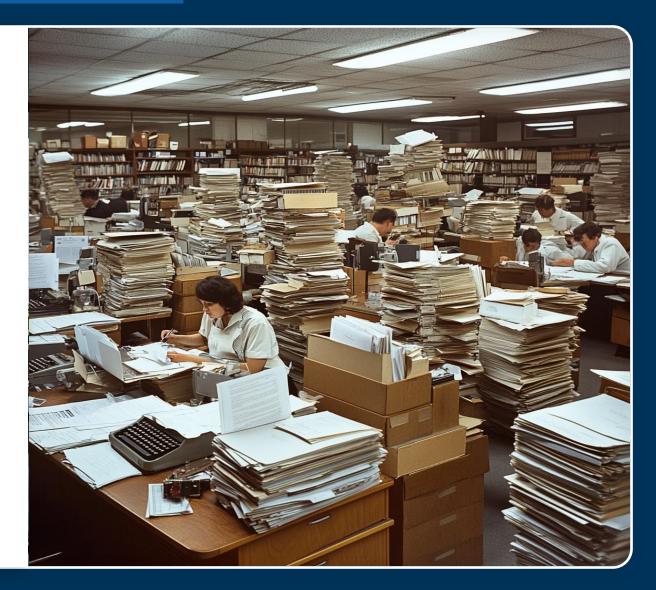
PROPOSAL STAGE

Traditional Approach

Paper-Based Proposals

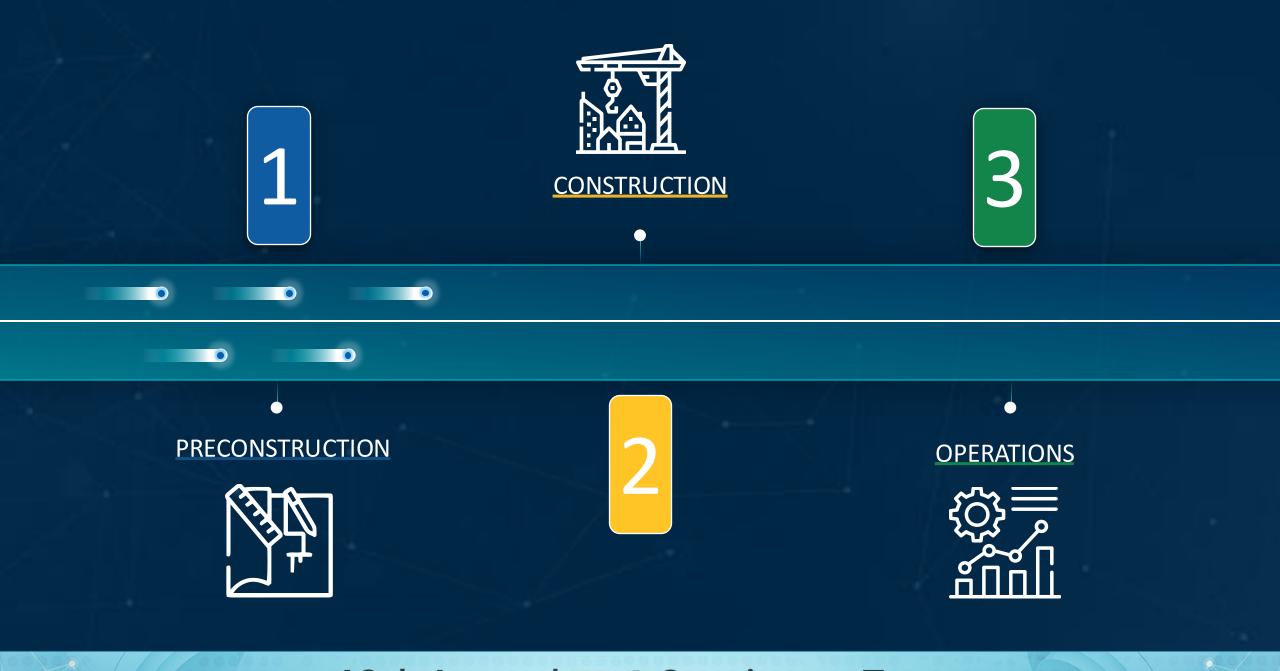
Labor-intensive proposal drafting

Extensive paperwork, manual data entry

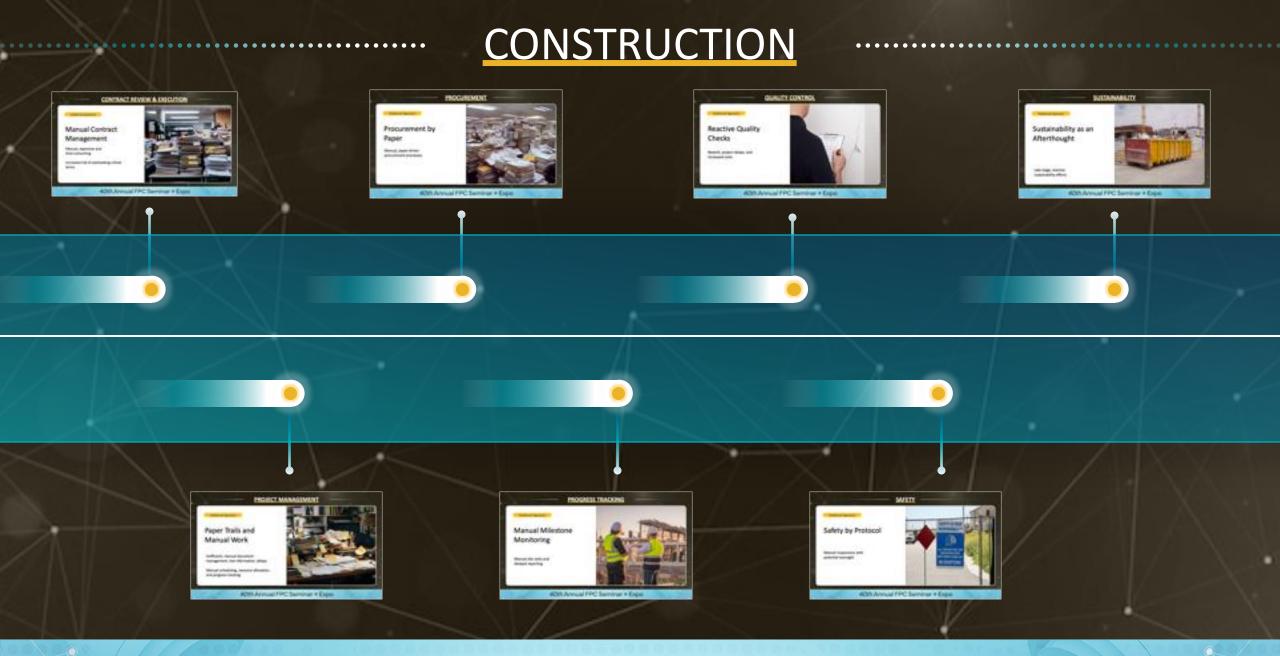


can Al help?

Potentially...



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CONTRACT REVIEW & EXECUTION

Traditional Approach

Manual Contract Management

Manual, expensive and time-consuming

Increased risk of overlooking critical terms



PROJECT MANAGEMENT

Traditional Approach

Paper Trails and Manual Work

Inefficient, manual document management, lost information, delays

Manual scheduling, resource allocation, and progress tracking

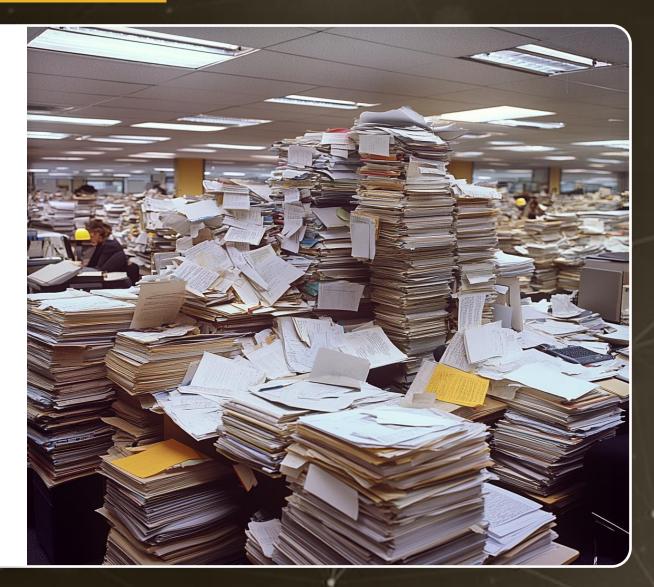


PROCUREMENT

Traditional Approach

Procurement by Paper

Manual, paper-driven procurement processes



PROGRESS TRACKING

Traditional Approach

Manual Milestone Monitoring

Manual site visits and delayed reporting

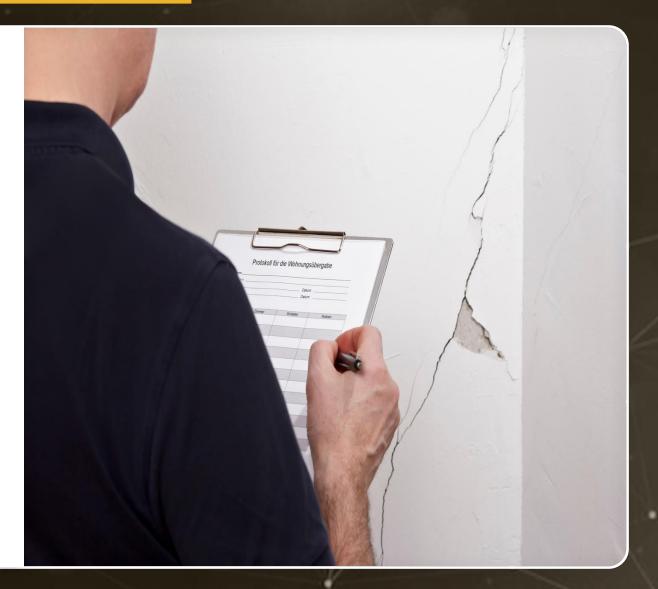


QUALITY CONTROL

Traditional Approach

Reactive Quality Checks

Rework, project delays, and increased costs





Traditional Approach

Safety by Protocol

Manual inspections with potential oversight



SUSTAINABILITY

Traditional Approach

Sustainability as an Afterthought

Late-stage, reactive sustainability efforts



can Al help?

Probably...





HANDOVER

Traditional Approach

Headaches & Tons of Paperwork

Paper-heavy, time-consuming, prone to missing documentation

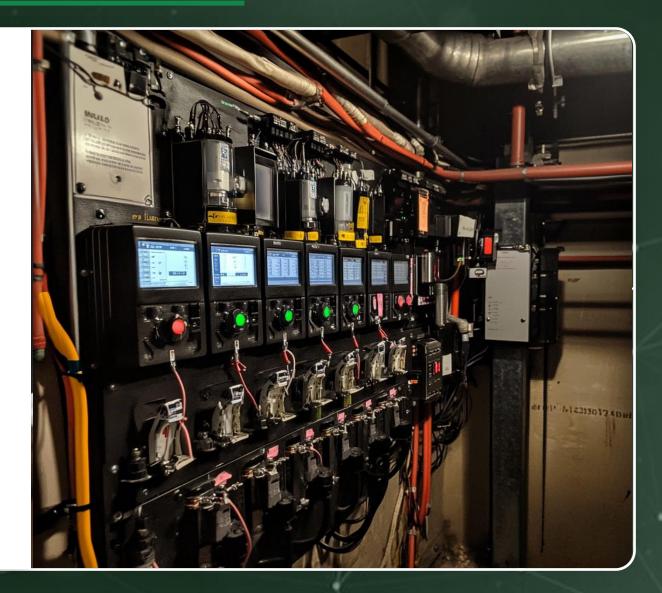


ENERGY OPTIMIZATION

Traditional Approach

Manual Tweaks, Missed Savings

Static systems, adjusted manually when issues arise

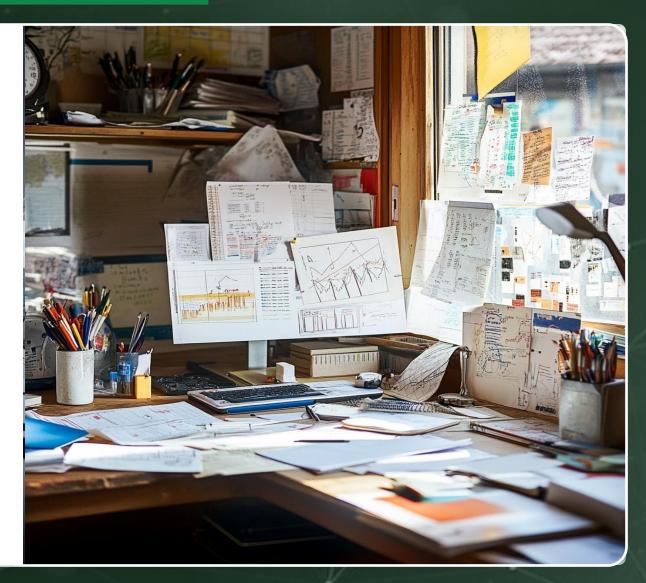


OCCUPANCY TRENDS

Traditional Approach

Guesswork and Periodic Checks

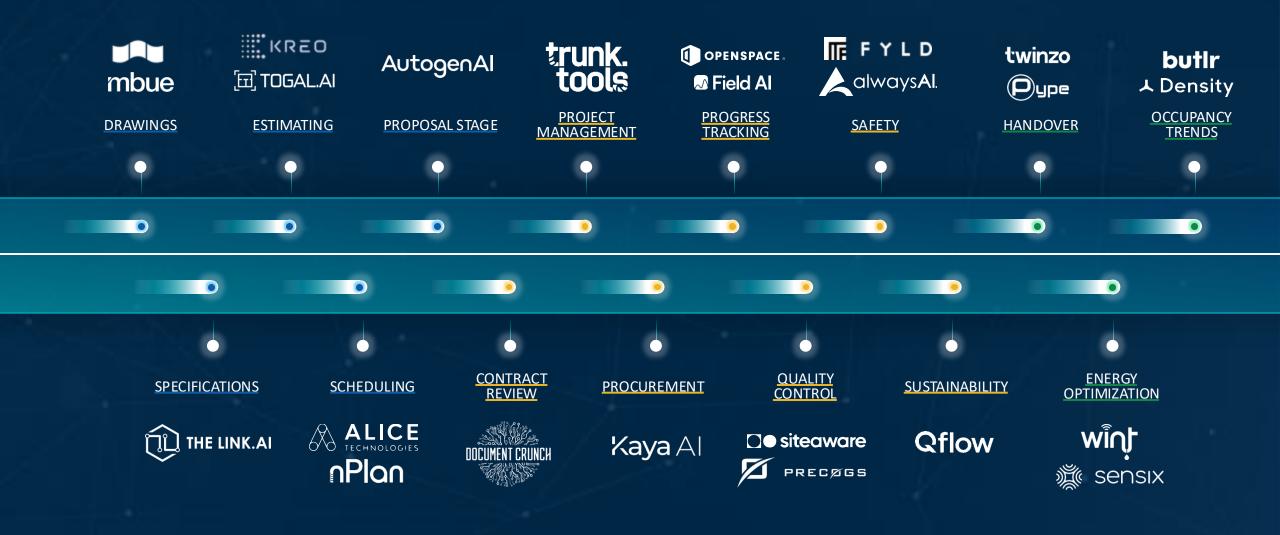
Manual monitoring and maintenance schedules





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Al in Construction: The Future is Now



Key Takeaways

AI will be embedded in many solutions

A new paradigm for construction

 Having AI is like having the best navigation system for your projects





Thank you for your attention!

