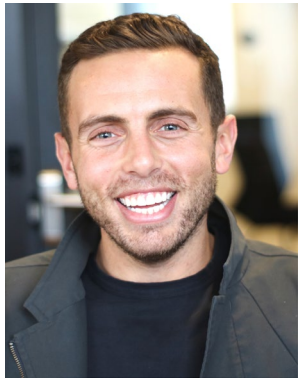
Safety and Risk Metrics: Driving Accountability in the Field

Speaker Overview



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First Onsite

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Chief Risk Architect
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In today's construction market, an effective Risk Management program structured to be not only defensive, but also tackles risk offensively

We see the purpose of risk management as twofold:

1. Protect the value of the business by derisking the balance sheet and stabilizing the income statement
   - *Risks inherent to the construction industry, whether known or not, can be a significant threat to the value and viability of the company.*

1. Leverage risk management as a strategic asset
   - *This concept transforms risk from a cost center to a potential profit center and allows you to be more competitive in your market.*

The Risk Management Model identifies nine critical elements present in a best-in-class Risk Management Program

Leveraging Risk Management

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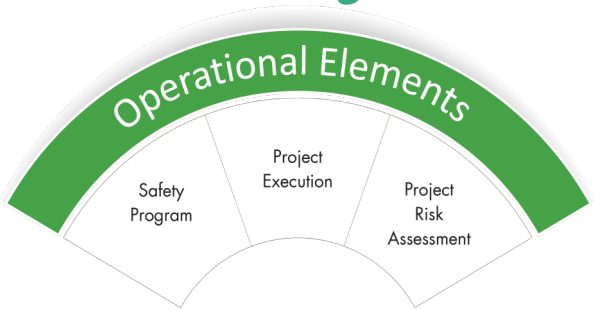
Risk Management

Key Elements of Risk Management Function in Leading Firms



Leveraging Risk Management

- Paradigm shift of how risk is viewed
  - Recognition that risk management can add significant value to an organization
  - Embrace and manage risk as an organization for a better outcome.
- Effectively incorporating our risk management program into all parts of our business and create a value for customers.

Safety Program

- Culture of safety embedded in the organization
  - Safety department is a resource to operations
  - Internal metrics and reporting in place to support and promote the program
- Aggressive claims process that is utilized by an engaged team
  - Structured hand-off between field & home office
  - Effective utilization of third-party resources

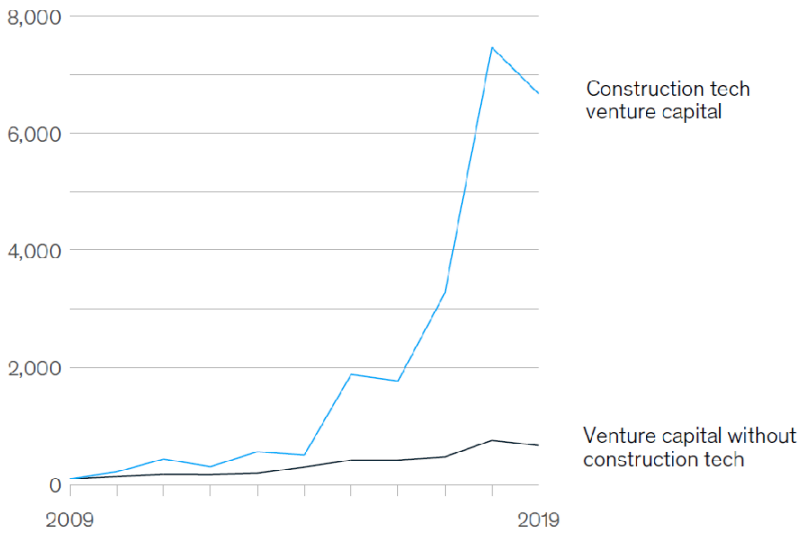
Project Risk Assessment

- Supports strategic job pursuits
- Assists in appropriately pricing risk
- Create simple to use dashboard for decision-makers
- Integrate completed project experience
- Provides good foundational risk information for field in pre-mobilization and during construction activities
- Process to systematically and consistently evaluate potential projects on key areas of risk

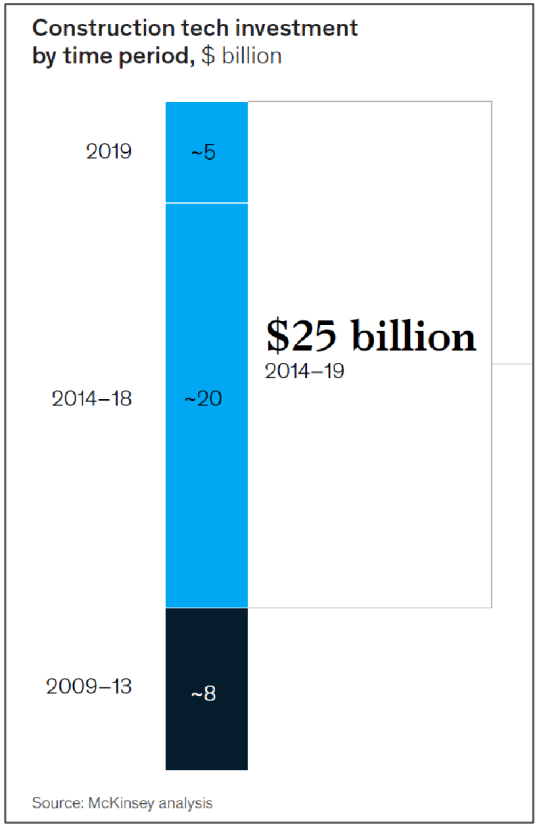
Venture-Capital Investment in Contech

Venture-capital investment growth in construction tech has far outpaced the overall venture-capital space.

Venture-capital yearly volume, index (100 = 2009)

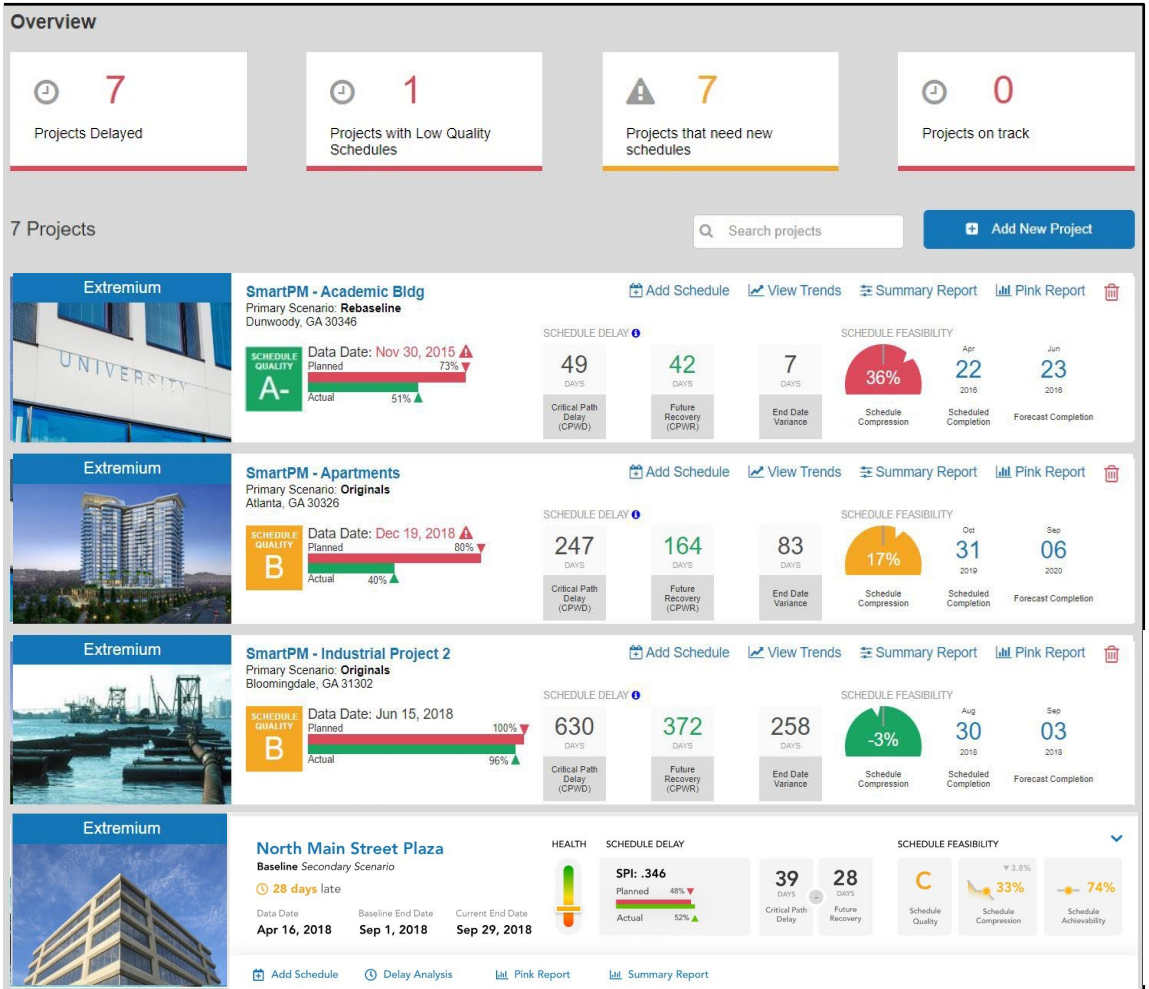


Source: McKinsey analysis



SmartPM ClaimLedger Monitoring Project Schedule Analytics

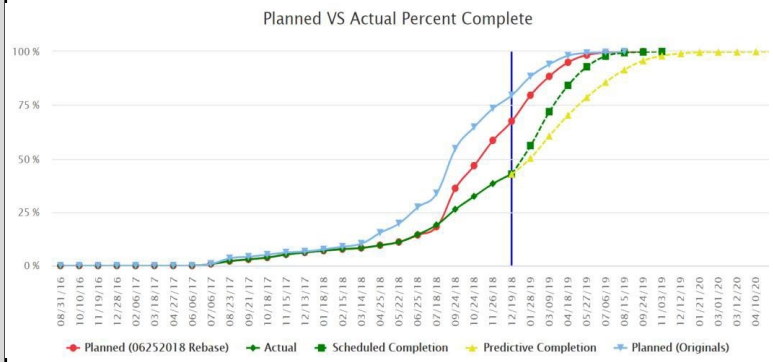
ClaimLedger



Executive Level Data Summary (Identify projects at risk)

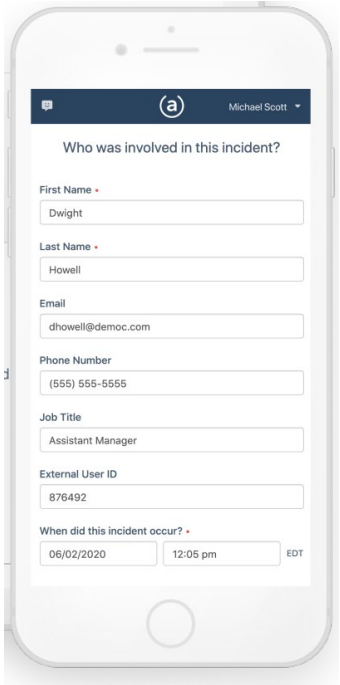
- Schedule Quality – Grade or Color (custom criteria)
- Actual vs Planned Progress (%)
- Delay Metrics - Critical Path Delay, Recovery, and End Date Variance
- Schedule Feasibility - Compression Index and Forecast Completion Date

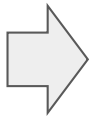
New – Trend Graphs

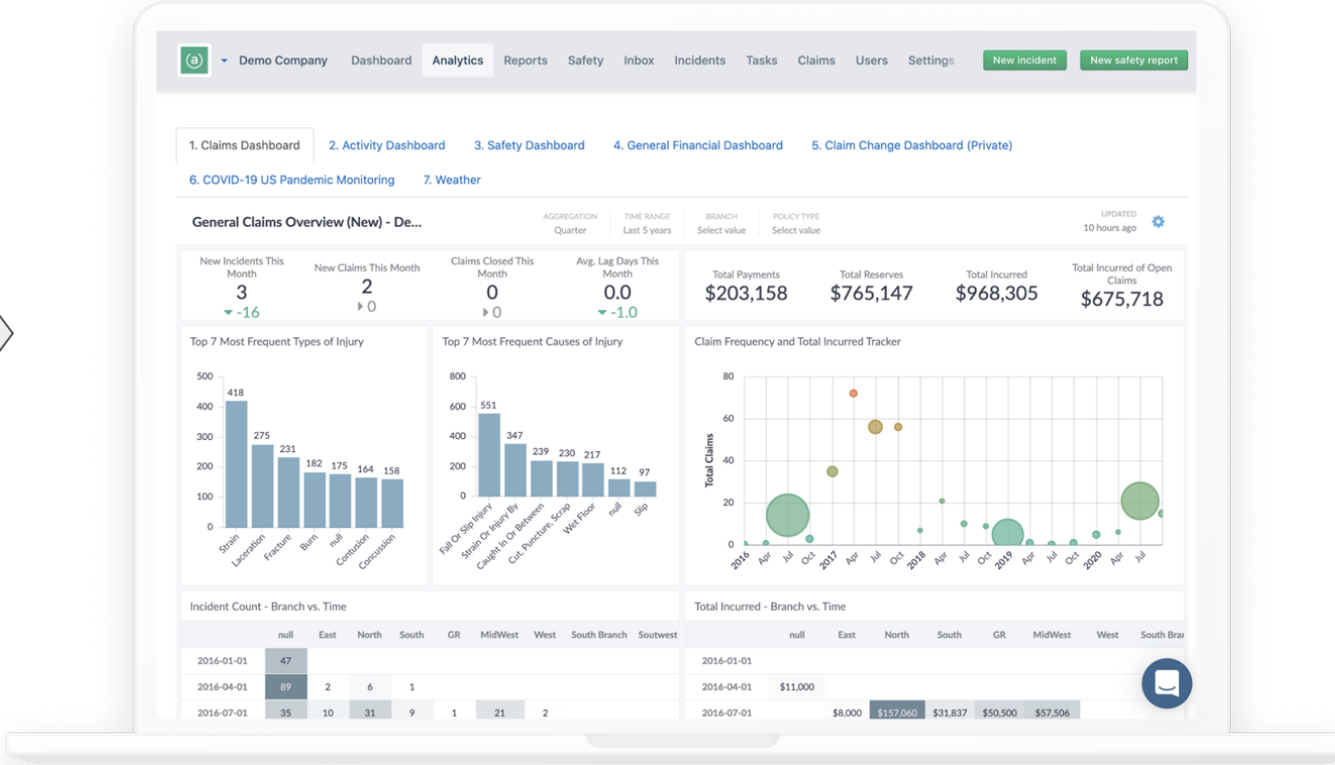


Direct Cost vs Indirect Cost

Key Goals: Safety and Risk Metrics







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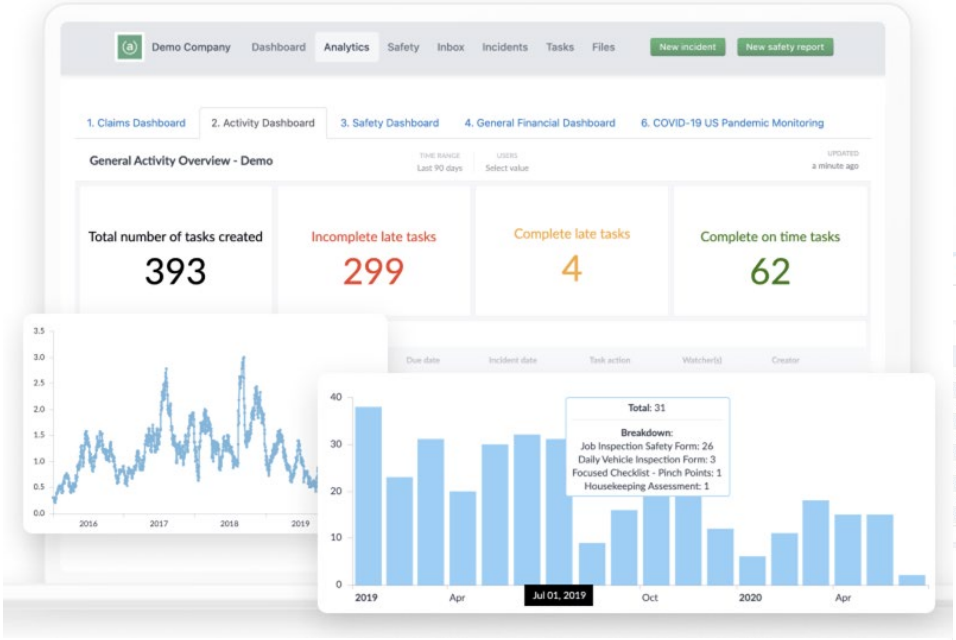

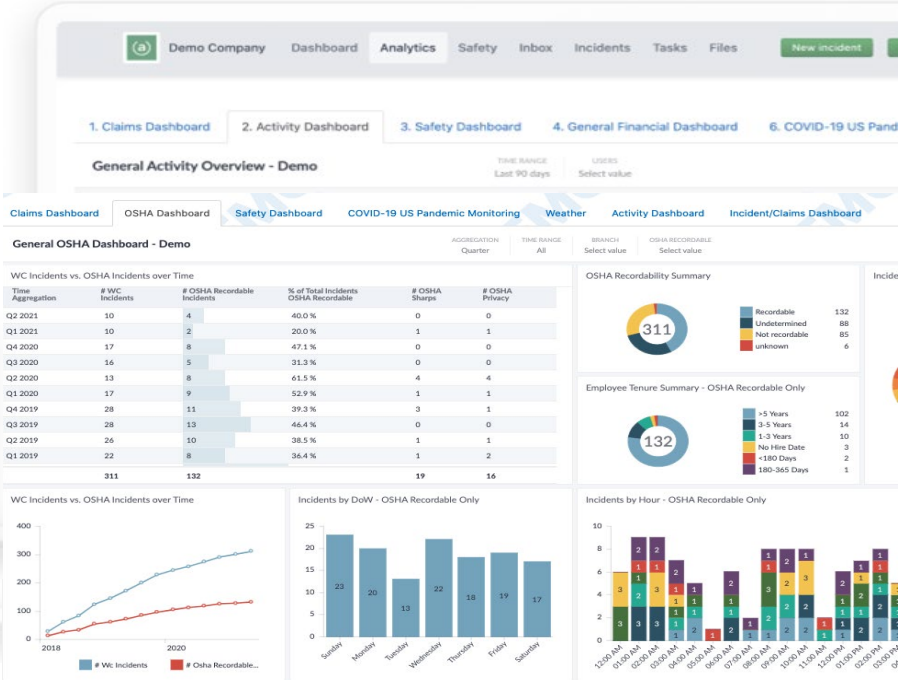

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Strategic Elements
Structural Elements
Operational Elements
Enterprise Risk Management
Leveraging Risk Management
Risk Management Department
Insurance Program
Financial Participation
Project Risk Assessment
Project Execution
Safety Program
Risk Management Partners
Risk Management Function
CULTURE

Thank You!