



Safety and Risk Metrics: Driving Accountability in the Field

Speaker Overview



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Aclaimant



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ClaimLedger



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and Safety
First Onsite



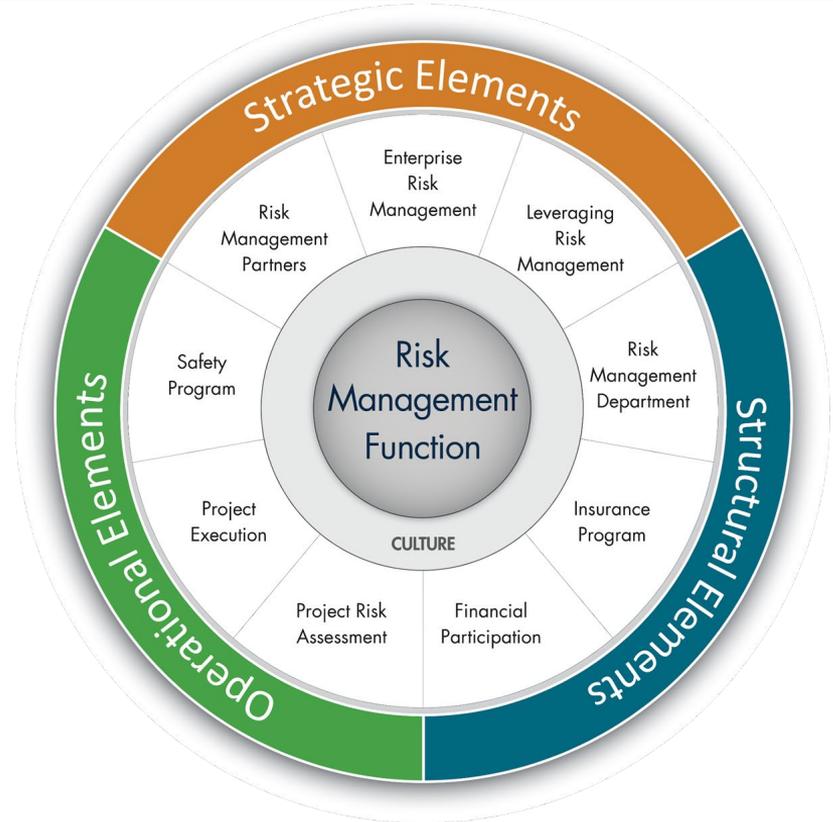
Gary Pearce
Chief Risk Architect
Aclaimant

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



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

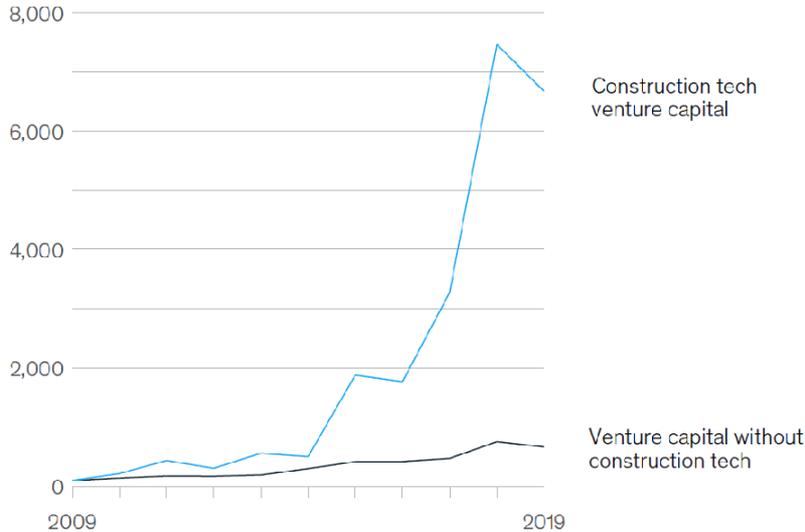
Project Risk Assessment

- 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.

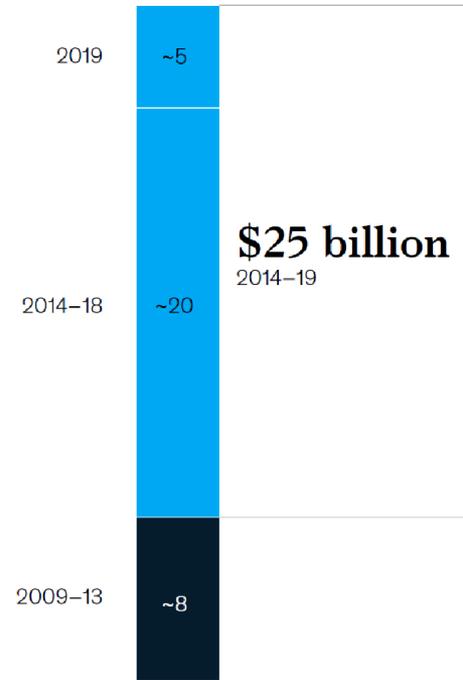
Venture-capital yearly volume, index (100 = 2009)



Source: McKinsey analysis



Construction tech investment by time period, \$ billion



Source: McKinsey analysis

SmartPM ClaimLedger Monitoring Project Schedule Analytics



Overview

7

Projects Delayed

1

Projects with Low Quality Schedules

7

Projects that need new schedules

0

Projects on track

7 Projects

Search projects

Add New Project

Extremium

SmartPM - Academic Bldg

Primary Scenario: **Rebaseline**
Dunwoody, GA 30346

SCHEDULE QUALITY

Data Date: Nov 30, 2015

Planned: 73% ▲

Actual: 51% ▲

A-

SCHEDULE DELAY

49 DAYS

Critical Path Delay (CPWD)

42 DAYS

Future Recovery (CPWR)

7 DAYS

End Date Variance

SCHEDULE FEASIBILITY

36%

Schedule Compression

Apr 22 2016

Scheduled Completion

Jun 23 2018

Forecast Completion

SmartPM - Apartments

Primary Scenario: **Originals**
Atlanta, GA 30326

SCHEDULE QUALITY

Data Date: Dec 19, 2018

Planned: 80% ▲

Actual: 40% ▲

B

SCHEDULE DELAY

247 DAYS

Critical Path Delay (CPWD)

164 DAYS

Future Recovery (CPWR)

83 DAYS

End Date Variance

SCHEDULE FEASIBILITY

17%

Schedule Compression

Oct 31 2019

Scheduled Completion

Sep 06 2020

Forecast Completion

SmartPM - Industrial Project 2

Primary Scenario: **Originals**
Bloomington, GA 31302

SCHEDULE QUALITY

Data Date: Jun 15, 2018

Planned: 100% ▲

Actual: 96% ▲

B

SCHEDULE DELAY

630 DAYS

Critical Path Delay (CPWD)

372 DAYS

Future Recovery (CPWR)

258 DAYS

End Date Variance

SCHEDULE FEASIBILITY

-3%

Schedule Compression

Aug 30 2018

Scheduled Completion

Sep 03 2019

Forecast Completion

North Main Street Plaza

Baseline Secondary Scenario

⌚ 28 days late

HEALTH

⬇

SCHEDULE DELAY

SPI: .346

Planned: 48% ▲

Actual: 52% ▲

39 DAYS

Critical Path Delay

28 DAYS

Future Recovery

SCHEDULE FEASIBILITY

3.8%

Schedule Quality

33%

Schedule Compression

74%

Schedule Achievability

Data Date: Apr 16, 2018

Baseline End Date: Sep 1, 2018

Current End Date: Sep 29, 2018

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

Planned VS Actual Percent Complete

The graph shows the percentage of project completion over time. The Y-axis represents the percentage complete (0% to 100%), and the X-axis represents dates from 08/31/16 to 04/10/20. A vertical blue line is drawn at approximately 11/26/18. The legend indicates: Planned (06/25/2018 Rebase) in red, Actual in green, Scheduled Completion in dark green, Predictive Completion in yellow, and Planned (Originals) in blue. The Actual and Scheduled Completion lines are very close to each other and follow a similar upward curve, reaching 100% completion by late 2019. The Planned (Originals) line is significantly higher, reaching 100% completion much earlier, around mid-2018. The Planned (06/25/2018 Rebase) line is also high, reaching 100% completion by early 2019.

Direct Cost vs Indirect Cost



DIRECT COSTS

Emergency response & medical
Sick pay
Fines

INDIRECT COSTS

Investigation
Replacement equipment
Recruitment and training
Overtime
Loss of production
Cancelled orders
Contractual penalties
Legal proceedings
Loss of market share
Reduced share price

Key Goals: Safety and Risk Metrics

Michael Scott

Who was involved in this incident?

First Name •
Dwight

Last Name •
Howell

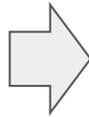
Email
dhowell@democ.com

Phone Number
(555) 555-5555

Job Title
Assistant Manager

External User ID
876492

When did this incident occur? •
06/02/2020 12:05 pm EDT



[Demo Company](#)
[Dashboard](#)
[Analytics](#)
[Reports](#)
[Safety](#)
[Inbox](#)
[Incidents](#)
[Tasks](#)
[Claims](#)
[Users](#)
[Settings](#)
[New incident](#)
[New safety report](#)

[1. Claims Dashboard](#)
[2. Activity Dashboard](#)
[3. Safety Dashboard](#)
[4. General Financial Dashboard](#)
[5. Claim Change Dashboard \(Private\)](#)
[6. COVID-19 Pandemic Monitoring](#)
[7. Weather](#)

General Claims Overview (New) - De...

AGGREGATION: Quarter | TIME RANGE: Last 5 years | BRANCH: Select value | POLICY TYPE: Select value | UPDATED: 10 hours ago

New Incidents This Month 3 ▼ -16	New Claims This Month 2 ▶ 0	Claims Closed This Month 0 ▶ 0	Avg. Lag Days This Month 0.0 ▼ -1.0	Total Payments \$203,158	Total Reserves \$765,147	Total Incurred \$968,305	Total Incurred of Open Claims \$675,718
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Top 7 Most Frequent Types of Injury

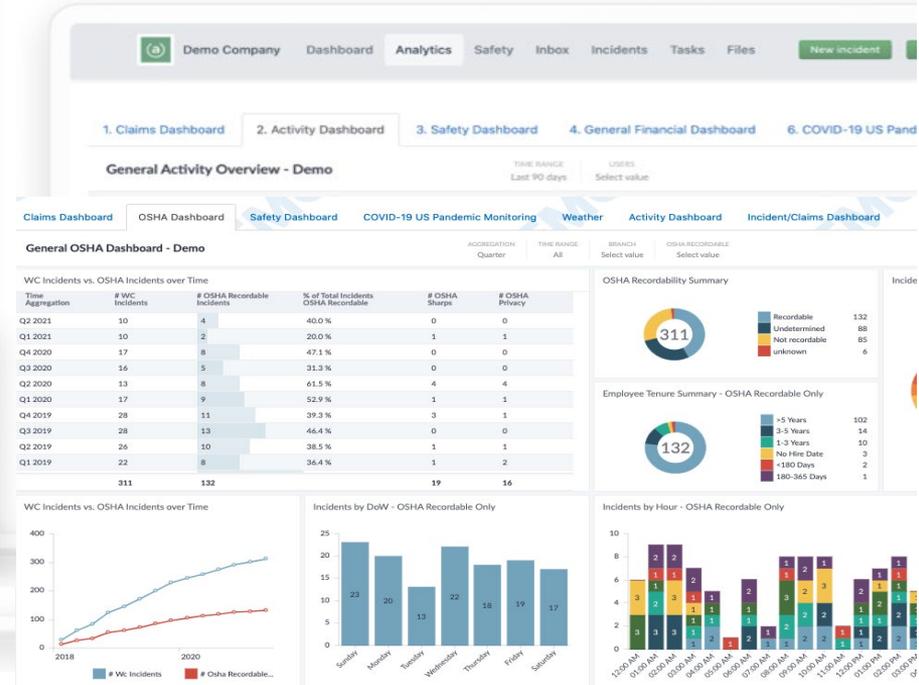
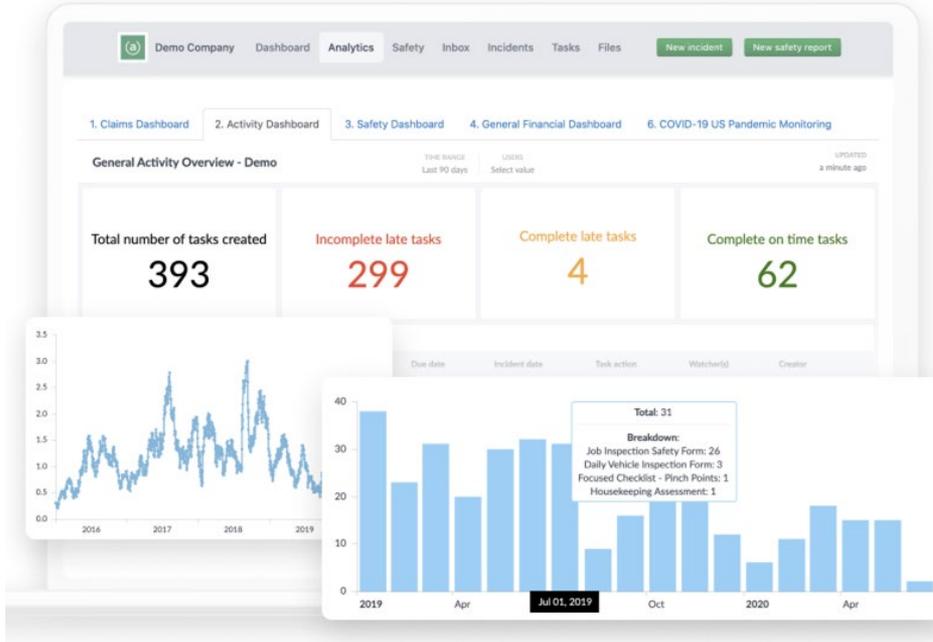
Top 7 Most Frequent Causes of Injury

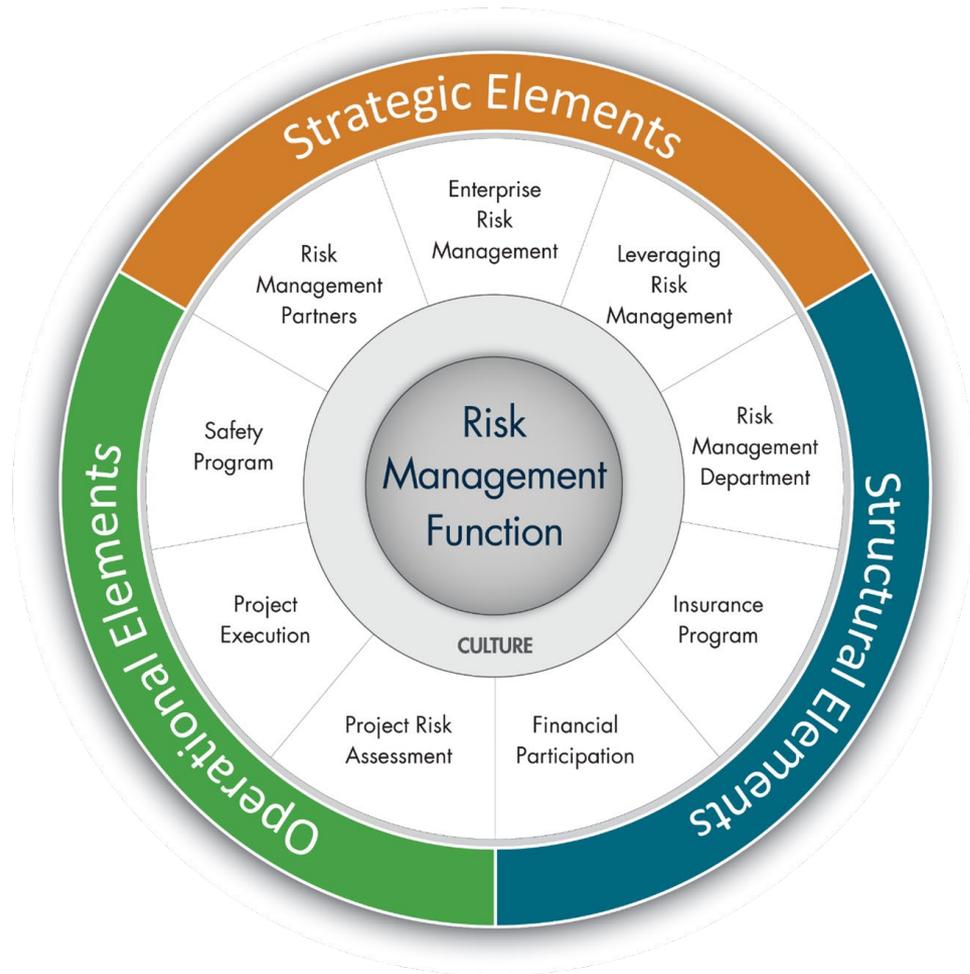
Claim Frequency and Total Incurred Tracker

	null	East	North	South	GR	MidWest	West	South Branch	Soutwest
2016-01-01	47								
2016-04-01	89	2	6	1		21	2		
2016-07-01	35	10	31	9	1	21	2		

	null	East	North	South	GR	MidWest	West	South Branch
2016-01-01								
2016-04-01	\$11,000							
2016-07-01	\$8,000	\$157,060	\$31,837	\$50,500	\$57,506			

Key Goals: Safety and Risk Metrics





@claimant

Thank You!