Using Technology to Empower Safety Leadership and Reduce Operational Risk

CRAC Annual Conference
Friday May 29th, 2015

Adrian Bartha

C eCompliance

About the Presenter

Adrian Bartha

- CEO of **eCompliance**
- Previously, one of 3 partners in building Firelight LP a $200 million Canadian renewable power development company (and client of the crane industry)
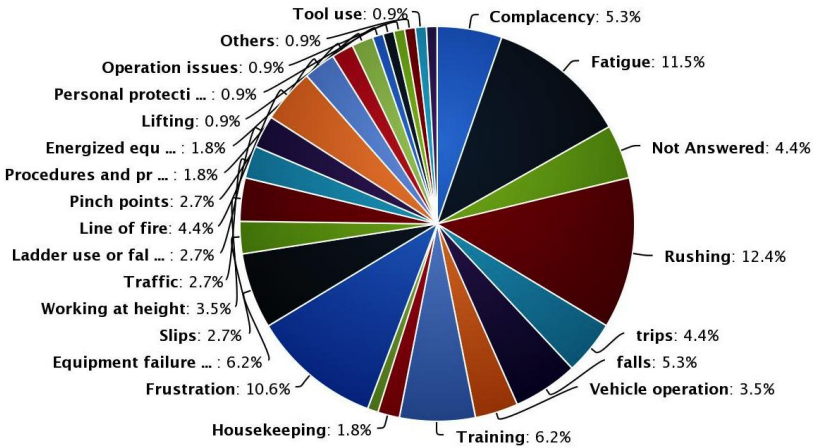- Passionate about helping the industry become safer and stronger

10,000 forms a year

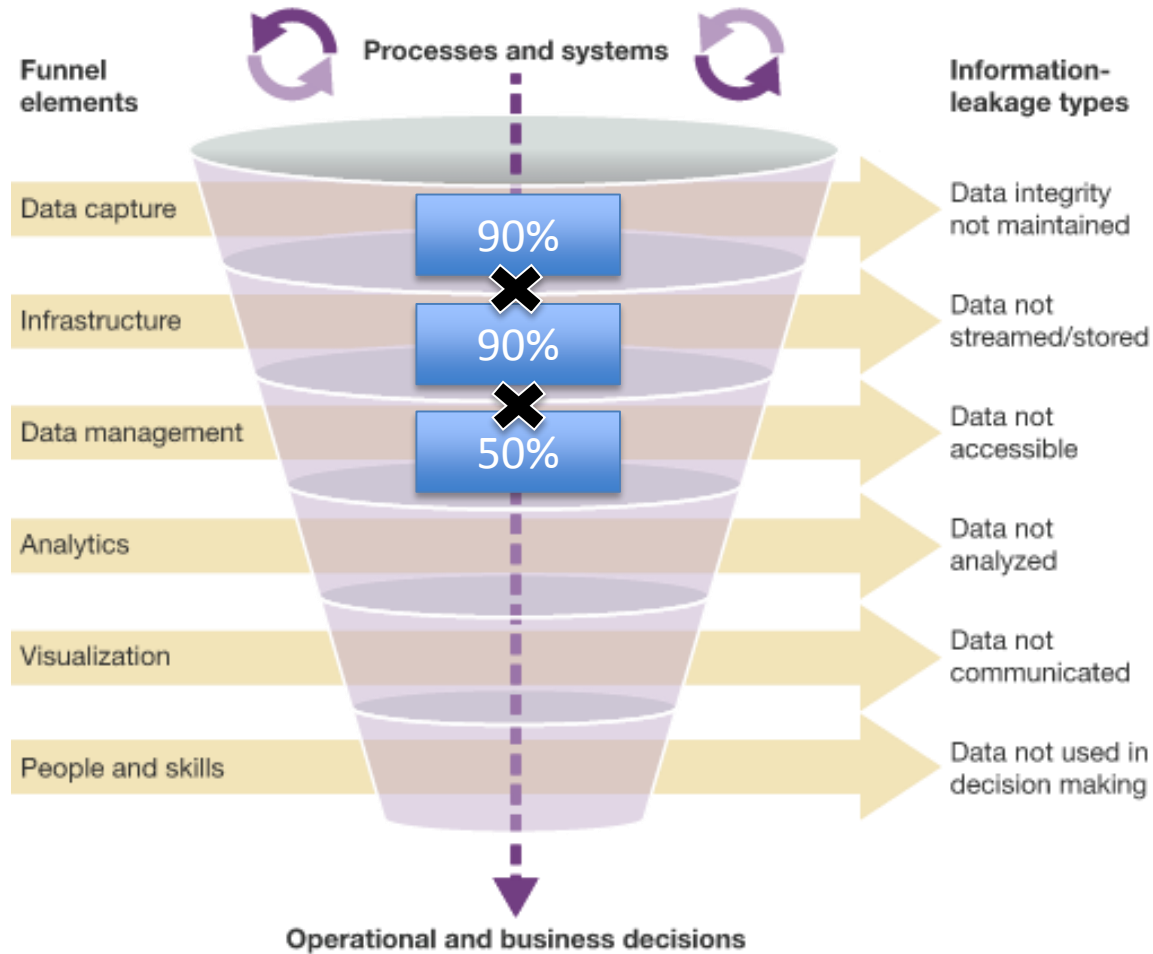# But the real cost is not paper… or even time …

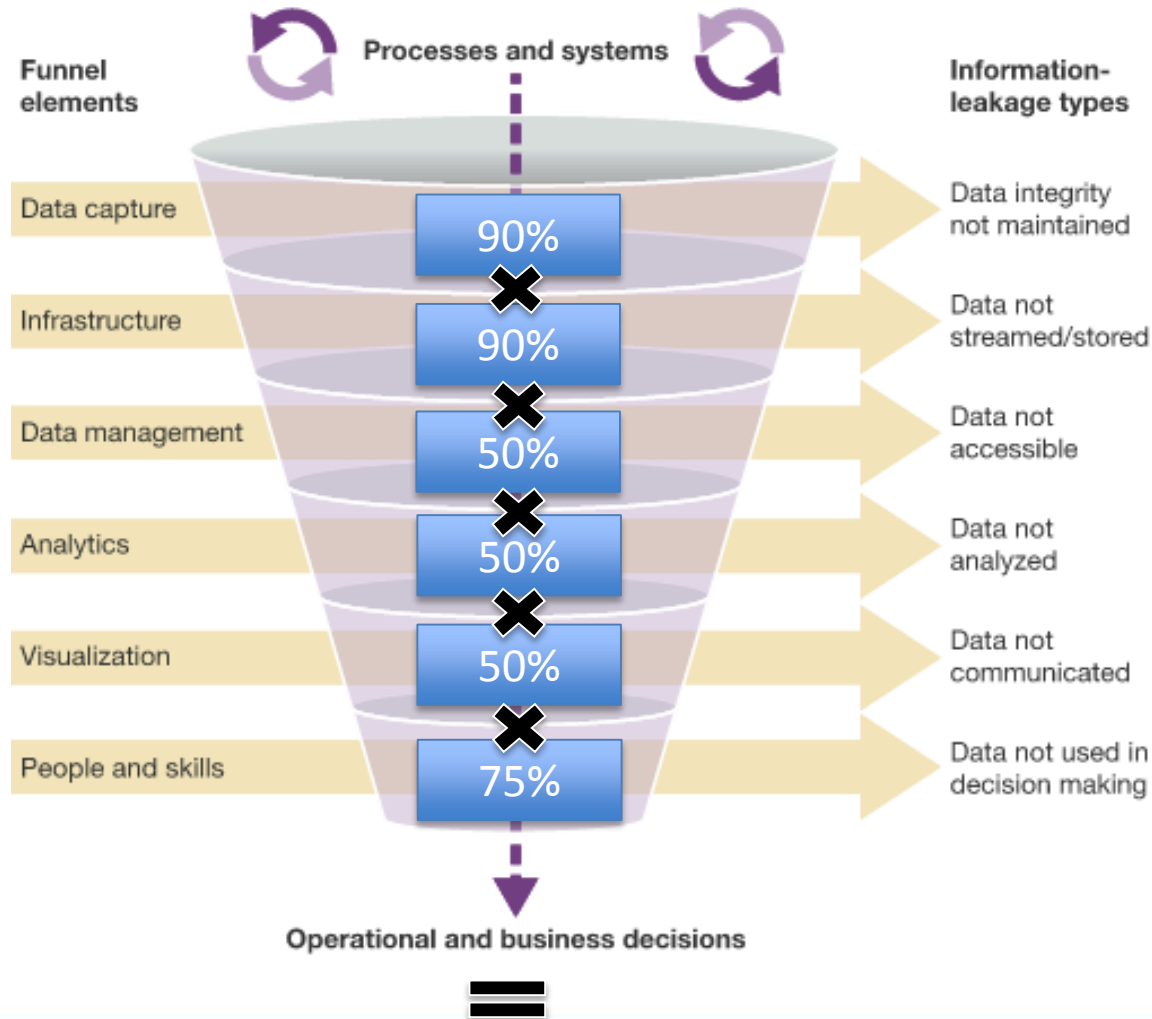
Vs.

- Tool use: 0.9%
- Others: 0.9%
- Operation issues: 0.9%
- Personal protecti …: 0.9%
- Lifting: 0.9%
- Energized equ …: 1.8%
- Procedures and pr …: 1.8%
- Pinch points: 2.7%
- Line of fire: 4.4%
- Ladder use or fal …: 2.7%
- Traffic: 2.7%
- Working at height: 3.5%
- Slips: 2.7%
- Equipment failure …: 6.2%
- Frustration: 10.6%
- Housekeeping: 1.8%
- Training: 6.2%
- Vehicle operation: 3.5%
- falls: 5.3%
- trips: 4.4%
- Rushing: 12.4%
- Not Answered: 4.4%
- Fatigue: 11.5%
- Complacency: 5.3%

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Another take on the Status Quo…

% of information utilization at each stage (example)

% of information utilization at each stage (example)

Funnel elements / Processes and systems / Information-leakage types

Funnel elements	%	Information-leakage types
Data capture	90%	Data integrity not maintained
Infrastructure	90%	Data not streamed/stored
Data management	50%	Data not accessible
Analytics	50%	Data not analyzed
Visualization	50%	Data not communicated
People and skills	75%	Data not used in decision making

Operational and business decisions

=

8% **Total efficiency**
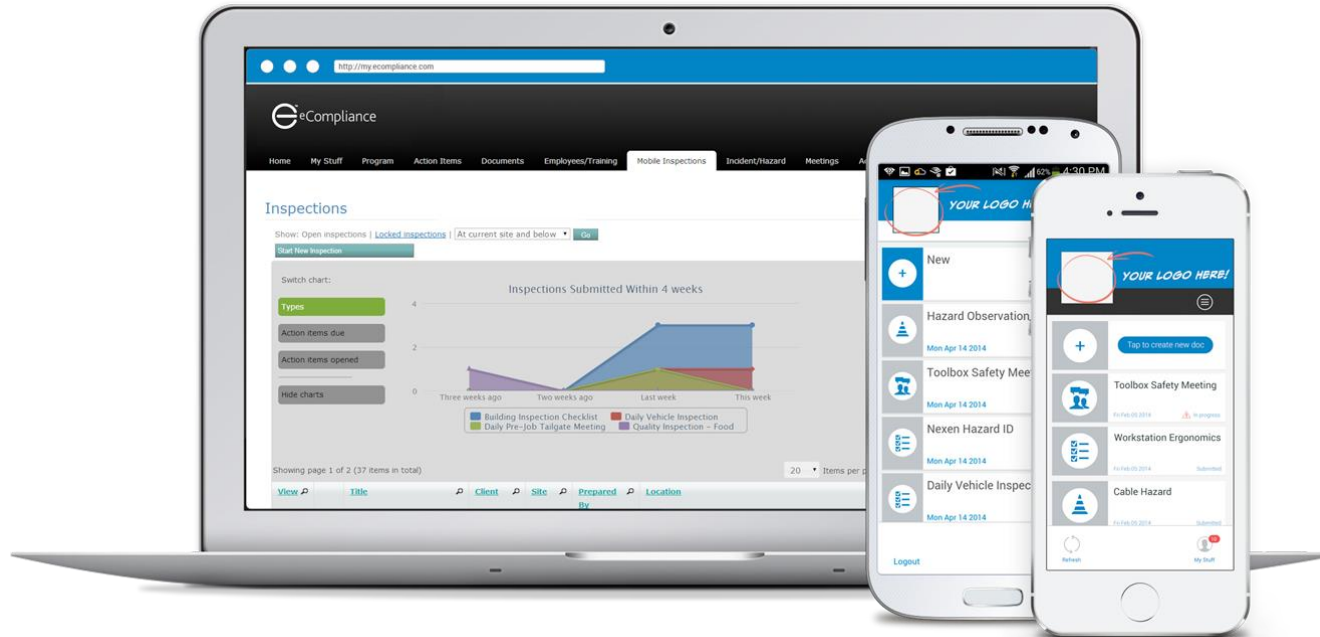
= unknown risk + missed opportunities

Let's Take a Quick Look

Show me the darn thing!

Homepage

My Stuff

MY STUFF

Documents to read
✓

Action items to do
377

Boss Please sign	Nov 13 2013
Please do this	Overdue by 560 days
Boss Please sign	Overdue by 560 days
fix this issue	Overdue by 555 days
Boss Please sign	Overdue by 555 days

Training required
19

Pure Technologies - LOTO (Custom)

Launch Course

Pure Technologies - SOP – Dual View Camera – Pressurized Pipeline (Custom)

Launch Course

Pure Technologies - Tripod SRL (Custom)
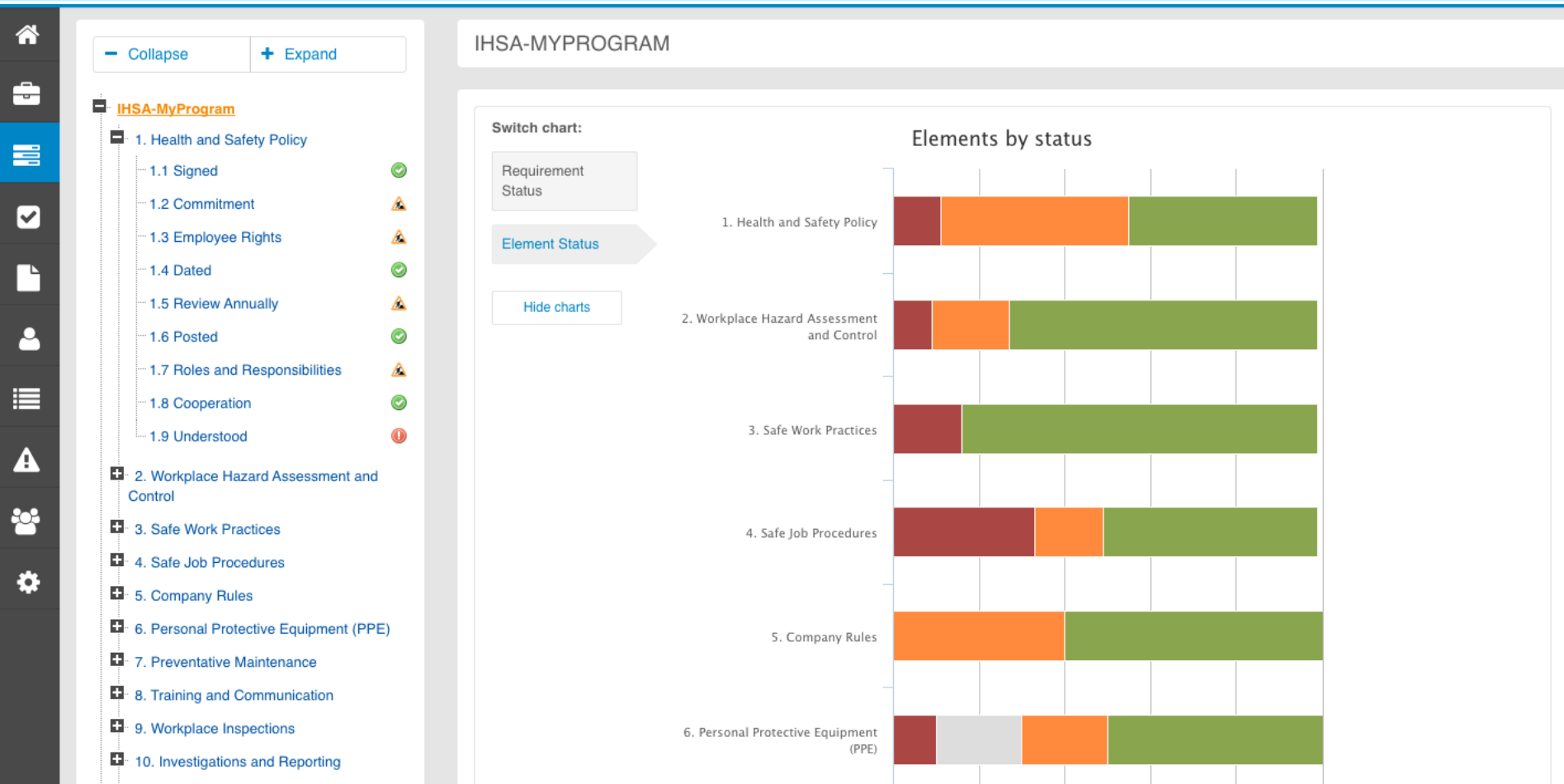
Launch Course

WHMIS (Online)

Launch Course

Mobile forms in progress
209

Inspections | **Incidents/Hazards** | **Meetings**

Showing Inspections

Building Inspection Checklist

Daily Vehicle Inspection

Site Security Assessment

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Safety or Quality Program / Provincial, International

Outstanding Corrective Actions

OPEN ACTION ITEMS AT THIS SITE AND BELOW (INCLUDES SUSPENDED)

+ Create Action Item

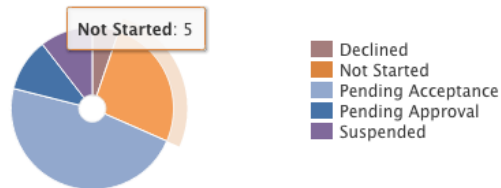Show all action items (including completed)

Switch chart:

| Status |
| Origin |
| Due |

Hide charts

Open Action Items by Status

Not Started: 5

- Declined
- Not Started
- Pending Acceptance
- Pending Approval
- Suspended

Showing all 19 items | 20 ▼ | Items per page

Prev 1 Next Export

ID Q	Action	Action Required Q	▼ Progress Q	Due Date Q	Created By Q	Assigned To Q	Origin	Site
90572	Edit	Create modern fire evacuation plan for each site	Suspended ○──○──○	Mar 31 2013	Pierre Spencier		Requirement	_ Crane Rental Association of Canada / Association Canadienne De Location De Grues
102019	Edit	Do something to make it compliant	Suspended ○──○──○	Apr 23 2014	Ivan Lo		Requirement	_ Crane Rental Association of Canada / Association Canadienne De Location De Grues
124901	Edit	Jobsite inpsection	Pending Approval ●──●──●	Overdue by 29 days	Ben Lowry	Ben Lowry	Site	_ Crane Rental Association of Canada / Association Canadienne De Location De Grues

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Easy to Track Action Items

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Records Training and Competency

Forward Looking Training Requirements
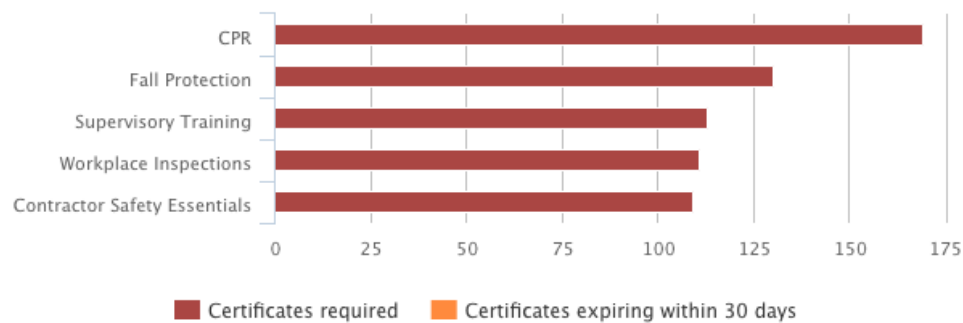
Inspection, Audits, Quality or Incident Reports

INSPECTIONS AT CURRENT SITE AND BELOW

⚙ Change Scope...

Start New Inspection

Show: Open inspections | Locked inspections

Switch chart:

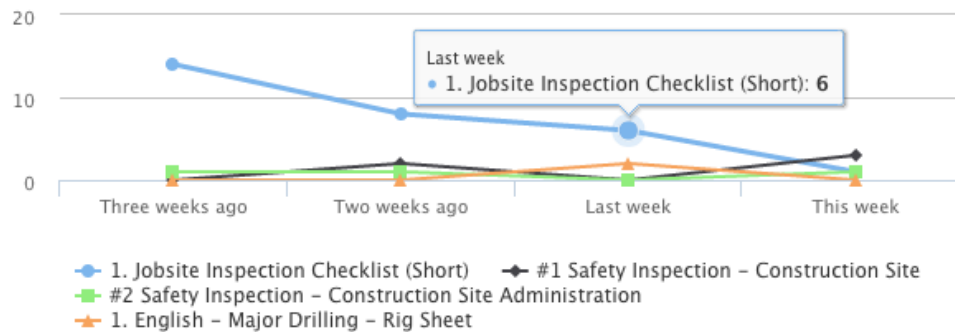Types

Action items due

Action items opened

Hide charts

Inspections Submitted Within 4 weeks

Last week
• 1. Jobsite Inspection Checklist (Short): 6

20

10

0

Three weeks ago   Two weeks ago   Last week   This week

🔵 1. Jobsite Inspection Checklist (Short)   ◆ #1 Safety Inspection – Construction Site
🟩 #2 Safety Inspection – Construction Site Administration
🔶 1. English – Major Drilling – Rig Sheet

Showing page 1 of 4 (76 items in total) [20 ▼] Items per page

Prev **1** 2 3 4 Next Export

Edit/View		Title 🔍	Status 🔍	Client 🔍	Site 🔍	Prepared By 🔍	Location 🔍	Date Performed 🔍	Asset # 🔍	Score 🔍	# of Action Items	▼ Last Updated 🔍
✏	Sign Off	#1 Safety Inspection - Construction Site	In Progress		_ Crane Rental Association of Canada / Association Canadienne De Location De Grues	Adrian Bartha		May 28 2015	N/A		0	May 28 2015 07:23 PM

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Analysis of Performance and Trends

If no "to date" is specified, questions from the latest template

	May ÷	2015						June 2015							July 2015						

Select a form status:

◉ Locked forms (Signed off)
○ Open forms (Forms may be incomplete and may chal
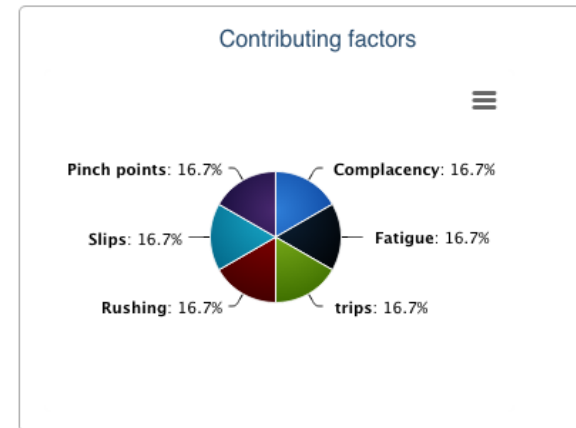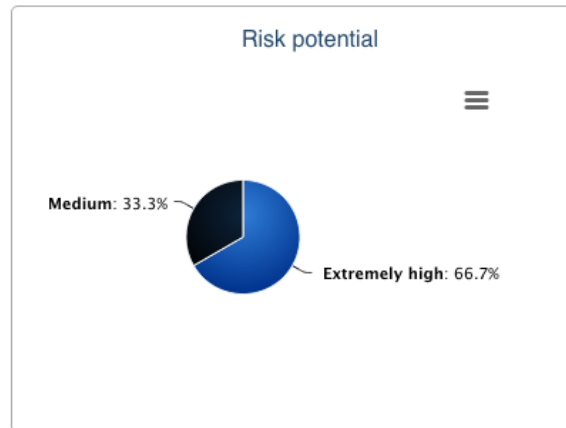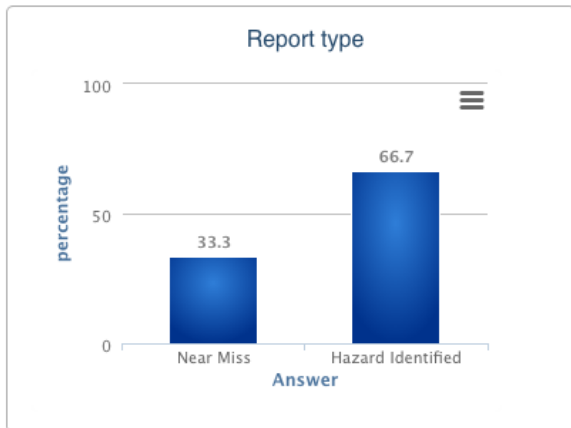○ All forms (Includes locked and open forms)

You have selected 3 questions for the report

[Generate Charts]

Based on the date range, 3 incident(s) were reported on below. (At _Acme Corp and all subsites below)

General

Report type
100

66.7

50

33.3

0
Near Miss   Hazard Identified
Answer

percentage

Risk potential

Medium: 33.3%

Extremely high: 66.7%

Contributing factors

Pinch points: 16.7%   Complacency: 16.7%

Slips: 16.7%   Fatigue: 16.7%

Rushing: 16.7%   trips: 16.7%

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Log in to your account

Email

Password

Login

Forgot your password?

Take a tour

_ Crane Rental Association of Canada / Association Canadie...

1.11.2

+
NEW

4. Fall Protection Checklist

Fri May 22 2015 3:22 pm

Submitted

#1 Safety Inspection - Construction Site

Fri May 22 2015 3:22 pm

Submitted

#1 Safety Inspection - Construction Site

At 1004 Middlegate Road Mississauga Peel Regional Municipality Ontario Canada L4Y 1M4
Fri May 22 2015 3:07 pm

Signed-off

2. Incident Report

At 1004 Middlegate Road Mississauga Peel Regional Municipality Ontario Canada L4Y 1M4
Fri May 22 2015 3:03 pm

Submitted

LOGOUT

REFRESH

Client

Aecon

Site

_ Crane Rental Association of Canada / Association Canadienne De Location De Grues ⌄

Location

744 Avenue Marin Saint-Henri Le Sud-Ouest Montréal Communauté-Urbaine-de-Montréal Québec ⟳
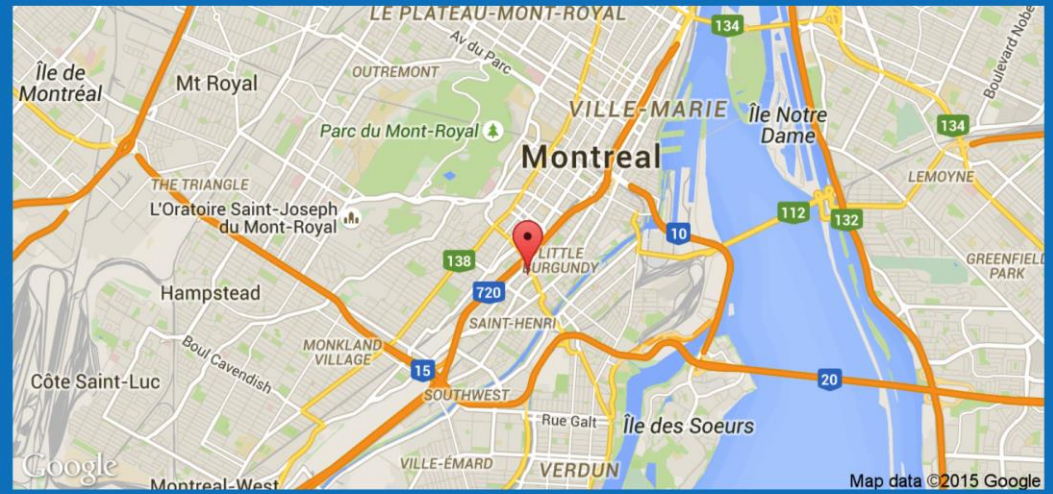
Personnel

Personnel

Date

May 29, 2015 📅

Asset number

Asset number

1 - Step One - General Info

1.1 Project Location

Notes

∧ OPTIONS   ✔ DONE

5.6 Notes / Picture

Notes

6 - Report Submission

6.1 Submitted by:

Type name and sign below

[signature]

6.2 Supervisor:

Type name and sign below

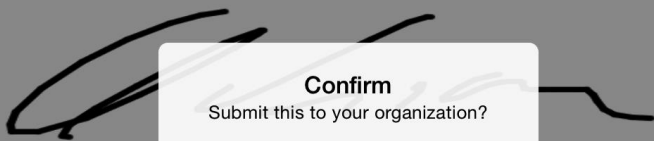_[signature: John]_

📷 ☰

6 - Report Submission

6.1 Submitted by:

> Type name and sign below

Confirm

Submit this to your organization?

Cancel

Save draft

Submit for sign-off

6.2 Supervisor:

> Type name and sign below

∧ OPTIONS   ✓ DONE

Let's Take a Quick Look

Show me the darn thing!

Building a Competitive Advantage – Conventional Approaches

Cost Leadership

Operational Effectiveness

Differentiation

Innovation

Building a Competitive Advantage – Conventional Approaches

- *Access to cheaper resources*
- *Supply chain strength*
- *Access to cheap capital*

- *Top tier talent*
- *Capital investments*

Cost Leadership

Walmart Save money. Live better.

Operational Effectiveness

amazon.com

Differentiation

COSTCO WHOLESALE

Innovation

- *Brand*
- *Distribution or Territory Rights*

- *Intellectual Property or Technology*
- *Proprietary practices*

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Continuous Improvement as a Competitive Advantage

- *Access to cheaper resources*
- *Supply chain strength*
- *Access to cheap capital*

- *Top tier talent*
- *Capital investments*

Cost Leadership

Operational Effectiveness

Continuous Improvement

Differentiation

Innovation
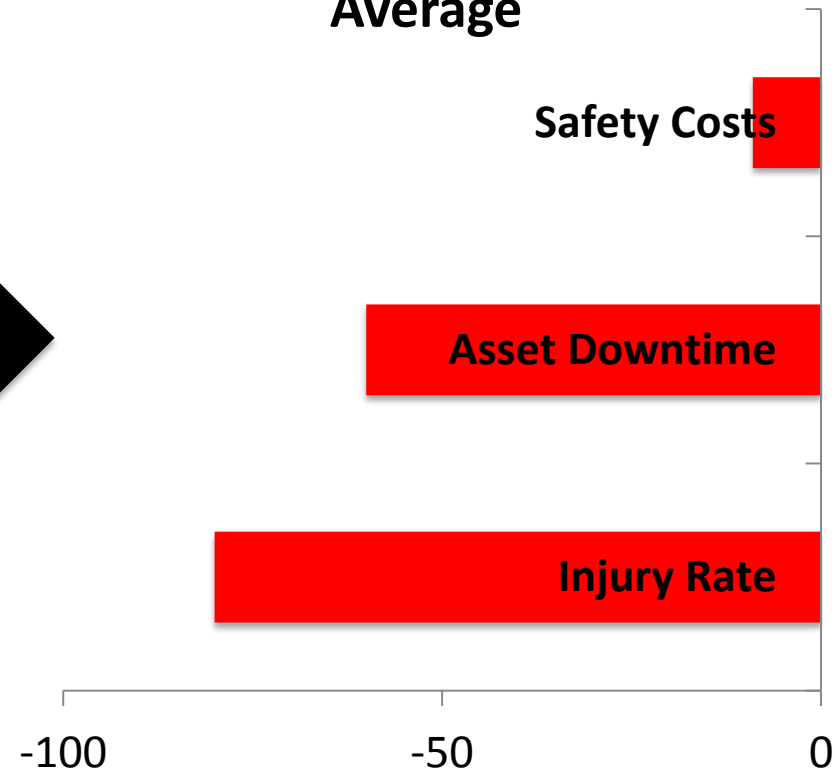
- *Brand*
- *Distribution or Territory Rights*

- *Intellectual Property or Technology*
- *Proprietary practices*

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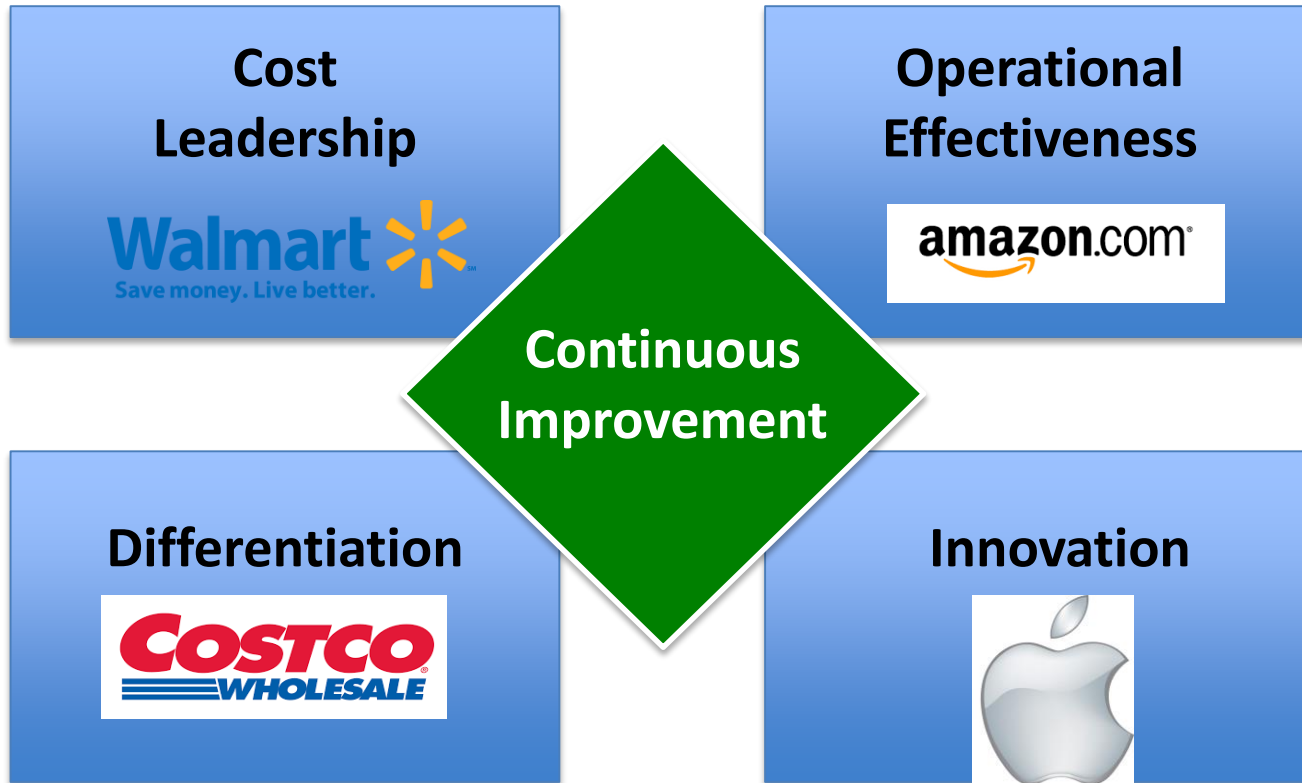
Continuous Improvement Supported by Software Results in Significant Differentiators vs. Industry Average

Top 20% of Safety Performers

- Auto SMS
- Use Mobile - Audits
- Use Mobile - Incidents

(x-axis: 0, 200, 400)
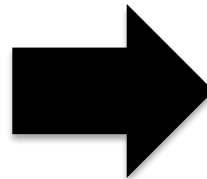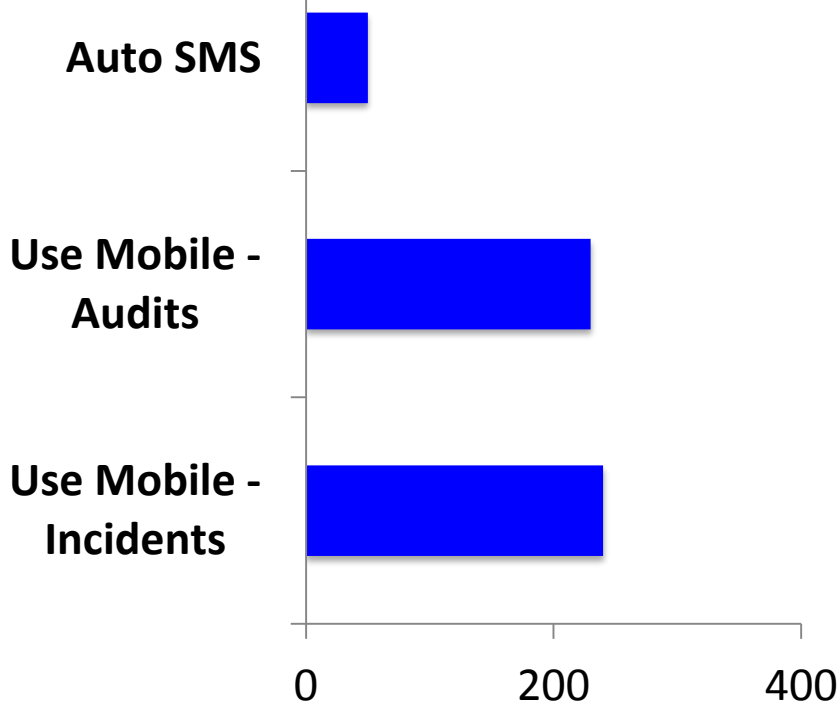
Top 20% Performers vs. Average

- Safety Costs
- Asset Downtime
- Injury Rate

(x-axis: -100, -50, 0)

Source: Aberdeen Group 2014

How exactly is Continuous Improvement better achieved with (Great) Cloud Software?

Management Visibility

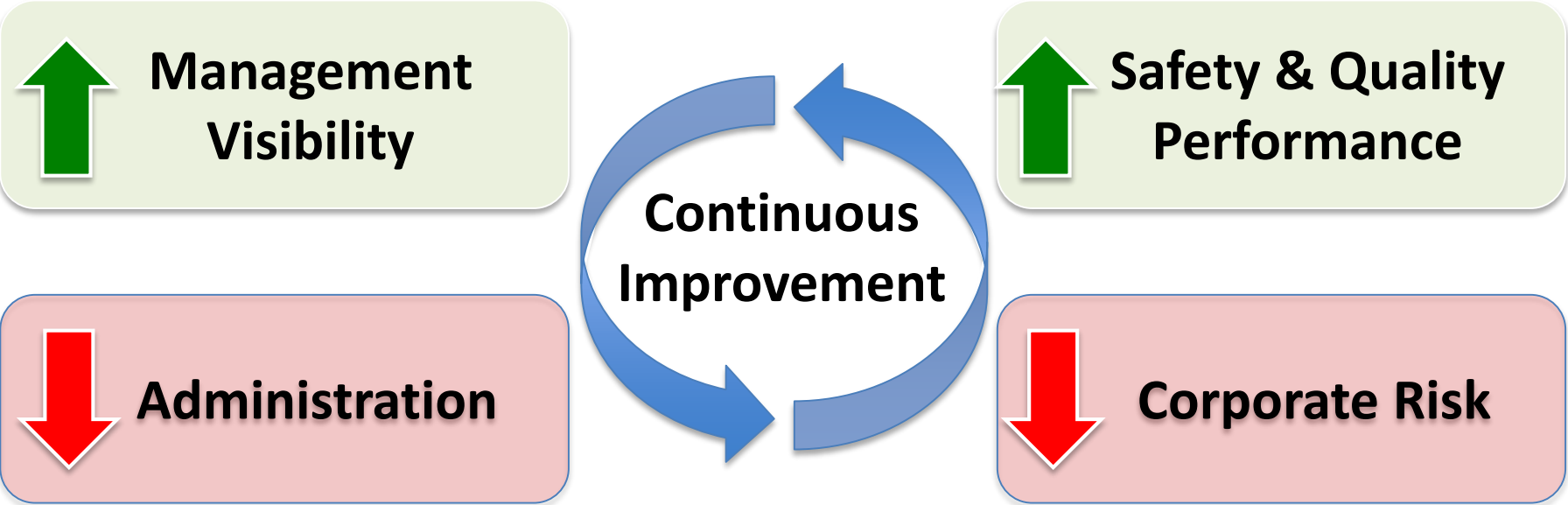**Administration**

Management Visibility

Administration

Continuous Improvement

How exactly is Continuous Improvement better achieved with (Great) Cloud Software?

Management Visibility

Safety & Quality Performance

Continuous Improvement

Administration

Corporate Risk
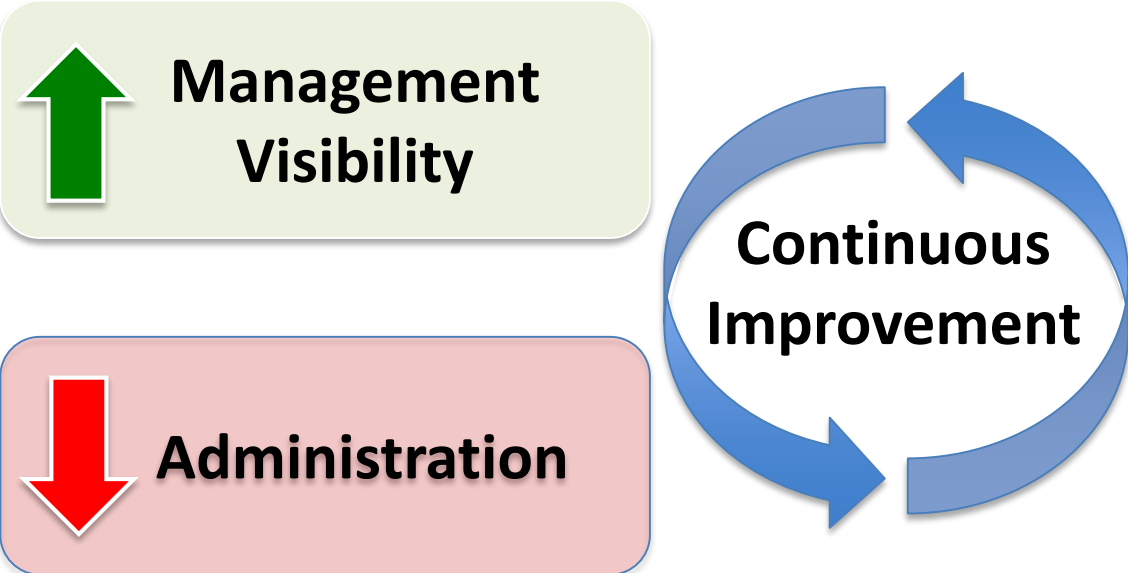
Many leaders still think they can decide between a more expensive or a less expensive approach ...

Safety efforts should be analyzed to find which are effective and which are not; but those that are successful and efficient should be adequately funded and supported.
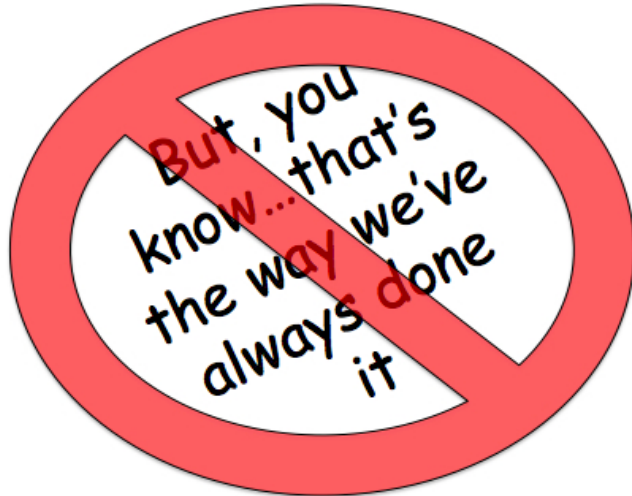
Smart leaders realize that ultimately the most expensive way to do anything is the way that does not work.

-Terry L. Mathis

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