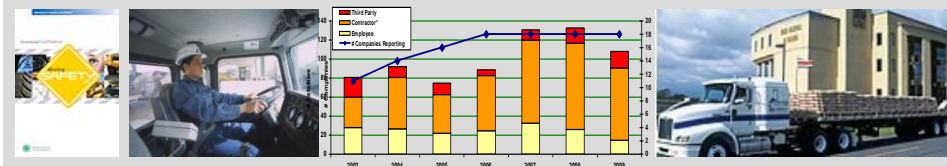


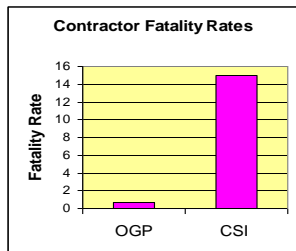
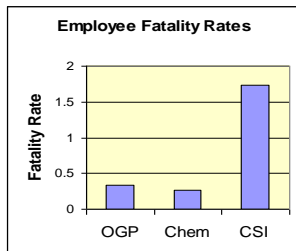
Safety in the cement industry: status and room for improvement



Cement Trade Association Forum,
 March 2010, Vancouver, Canada



Cement: a dangerous industry?

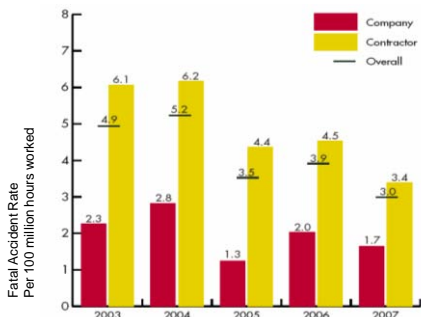


(CSI contractor rate is estimated)

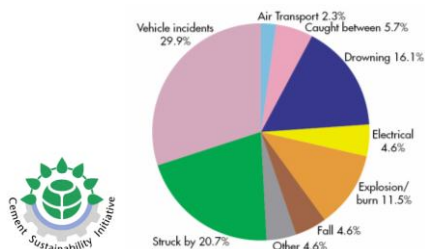
- Very poor performance compared to Chemicals and Oil & Gas Producers
- Hazard/risk level much lower in cement sector, but accident and fatality rate is much higher



Peer comparison: Oil & Gas Producers (OGP)



- CSI Employee Fatality Rate: ~5 times higher than OGP
- OGP contractors have a higher fatality risk but only twice that of employees; CSI contractors have ~10 times higher risk



- Similar OGP main fatality causes: driving and contractor work



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Fatality rates: industry review (2009)

“Class A”	“Class B”	“Class C”	“Class D”	“Class E”
Employee Fatality Rate of < or = 0.1	Employee Fatality Rate of 0.11 to 0.25	Employee Fatality Rate of 0.26 to 0.5	Employee Fatality Rate of 0.51 to 1.0	Employee Fatality Rate of 1.01 to 1.5
Top 20%	2nd 20%	3rd 20%	4th 20%	Bottom 20%
OGP				CSI



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CSI work to date

‘Guidelines for Measuring and Reporting’



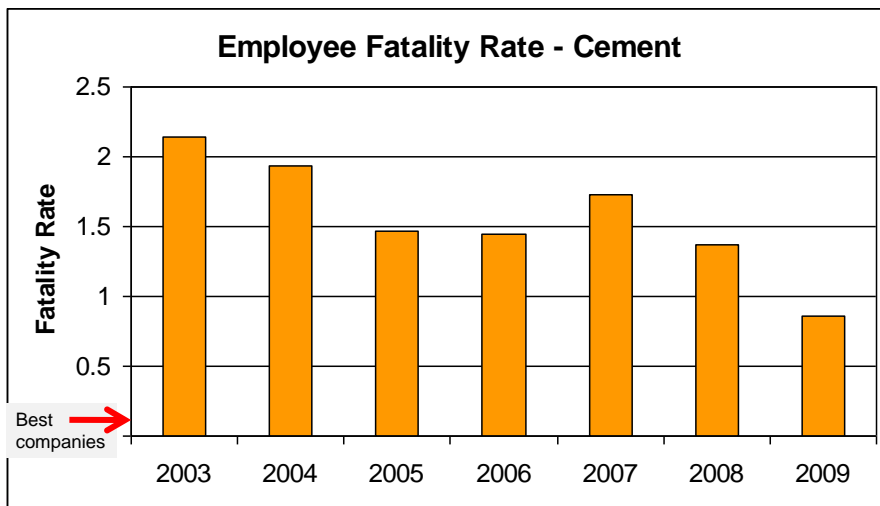
‘Examples of Good Practice’

Supporting progress in LTI reductions



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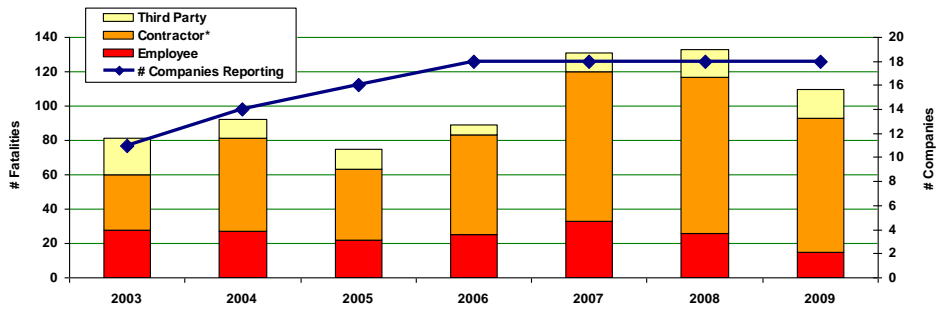
Recent progress in fatality reduction



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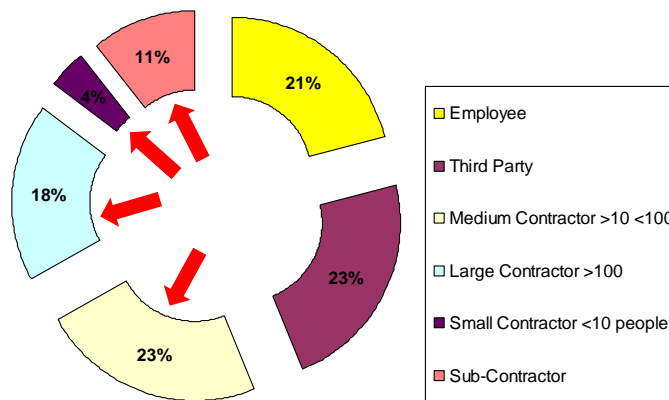
Fatality rates: cement-only

- 2009: 110 cement-only fatalities (15 employee, 78 contractor, 17 third party)
- Start of a positive downward trend?



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Fatality rates (2009): by category

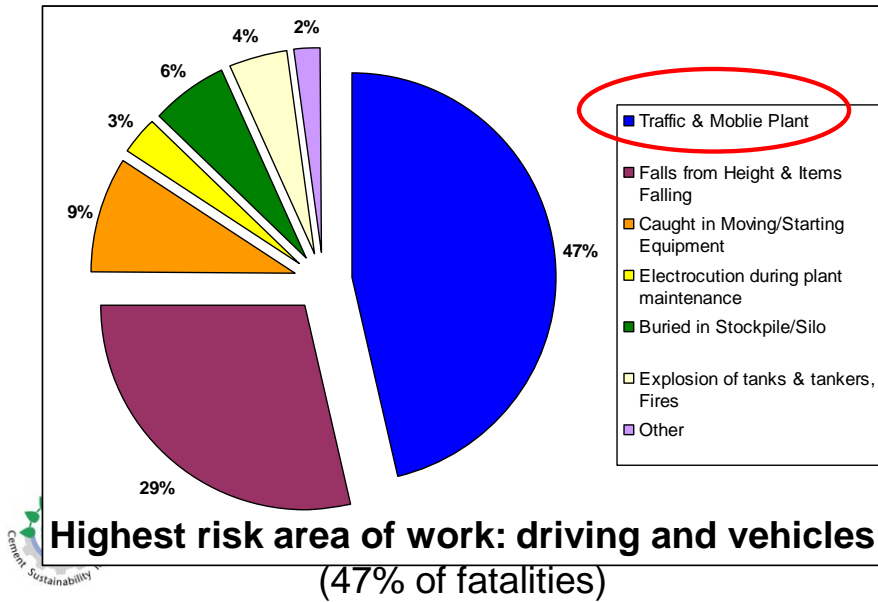


Highest risk category: contractors
 (56% of fatalities)



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Root cause analysis



CSI action

Driver and Contractor Safety Initiatives
endorsed by CEOs, October 2009

*To eliminate driver and contractor
related injuries and fatalities*



Driver and Contractor Safety

Driver Safety guidelines:

- 8 Safety Elements for Drivers
- 9 Safety Elements for Managers
- Guidelines on Implementation of Safety Elements
- Guidelines for Transport Contractor Management



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Driver and Contractor Safety

Contractor safety guidelines:

- Safety Considerations for Contractor Management (Prequalification, Contract Definition and Award, Pre-Commencement, Implementation, Handover and Acceptance, Post-Contract Review)
- 6 Safety Elements for Contractor Management:
- Guidelines on Implementing Safety Elements for Contractor Management



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Company implementation

- Gap analysis by each CSI member company on systems already in place
- Adoption of Good Practice documents within 5 years across all activities and regions
- Public updates on implementation progress



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Pilot projects

- Overseen by individual companies
- Review success in late 2010 and assess CSI-implementation potential
 - USA (contractor prequalification)
 - Poland (contractor employee passports)
 - India (driving safety, with International Road Safety Federation)



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Key Take-aways

- Cement safety performance as an industry is far from where it needs to be
- Without focused prevention initiatives we can expect our performance to worsen
- Industry support for the Driving and Contractor Safety Management documents will set us on the right path to zero fatalities



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Potential Trade Association collaboration

1. Distribute Driving and Contractor Guidelines (translation into 10 languages underway) as a co-branded publication from the Association and CSI
2. Raise issue within local Association leadership
3. Help your members raise visibility of this issue in their facilities



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