

Respirable Crystalline Silica

practical solutions

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Topics:

- Products and raw materials
- Health & Safety motivators, Culture & Processes
- Identification and prioritization of risks
- Hierarchy of control
- Investment on Technology
- Q&A



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JADO



PORCHER

- ✓ Privately Owned company since November 1, 2007
- ✓ 100% focus on bathroom solutions
- ✓ Operations and sales offices in more than 20 countries
- ✓ 8,000 employees + JV
- ✓ Governed by Board of Directors



Key raw materials:

Crystalline silica is a natural substance found in stone, rocks, sand and clay etc.

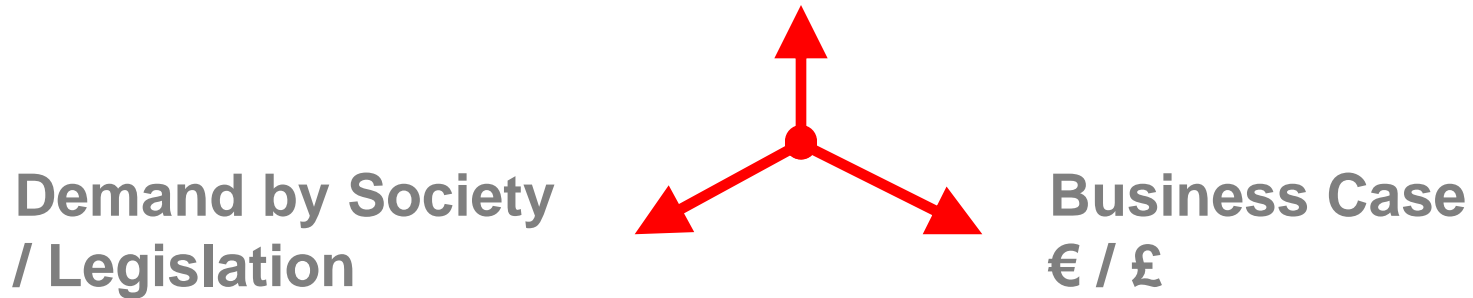
- Silica Quartz 25%
 - dry powder below 75 micron (20% respirable silica)
 - grind onsite with ball mill in slurry
- Feldspar 25% (10% respirable silica)
- Ball Clay 25% (<1% respirable silica)
- China Clay 25% (<1% respirable silica)



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Moral / Ethic



HS&E is a Core Value

The **Smart Sustainable** Operating Model



CULTURE

HS&E MANAGEMENT

PROCESS

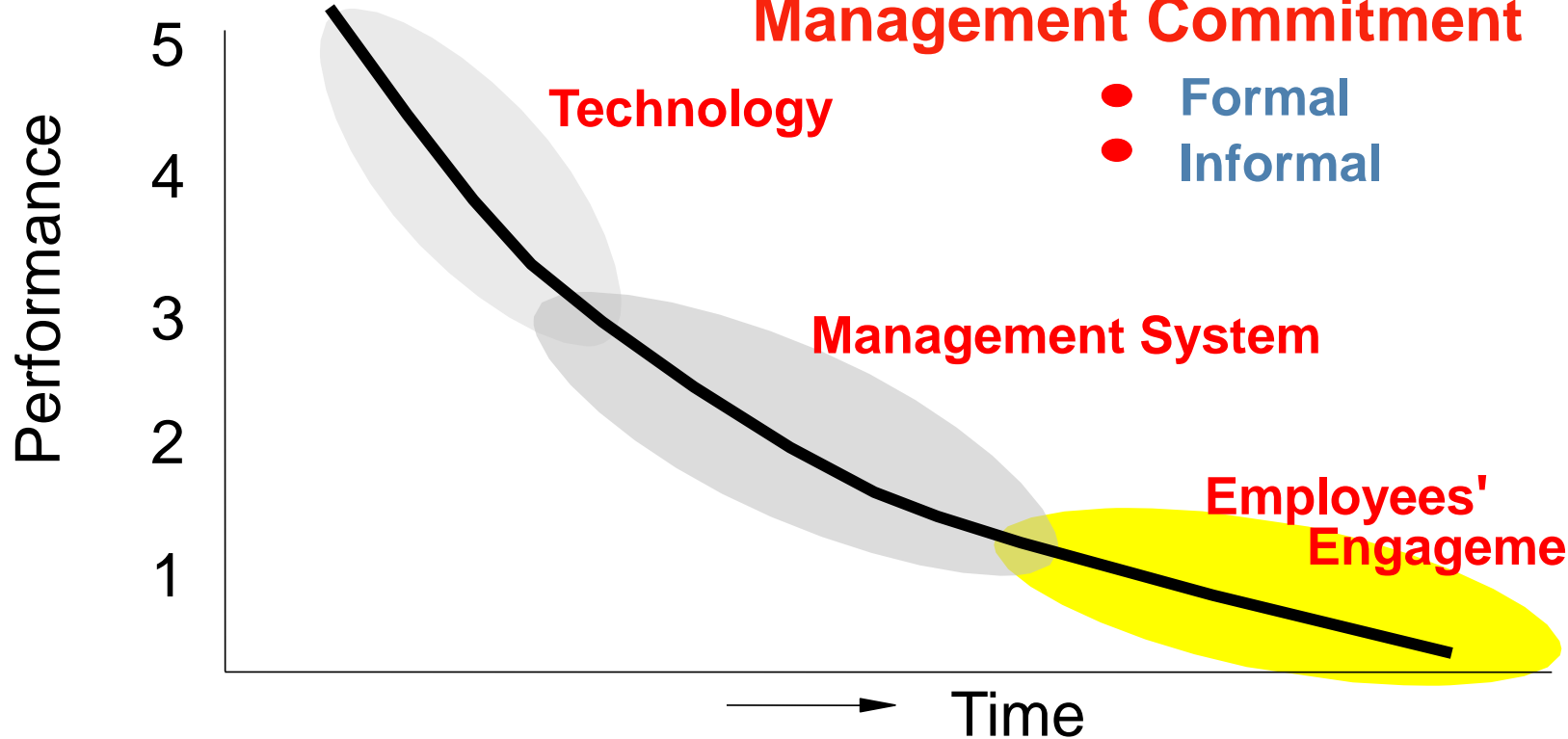
Management Commitment

- Formal
- Informal

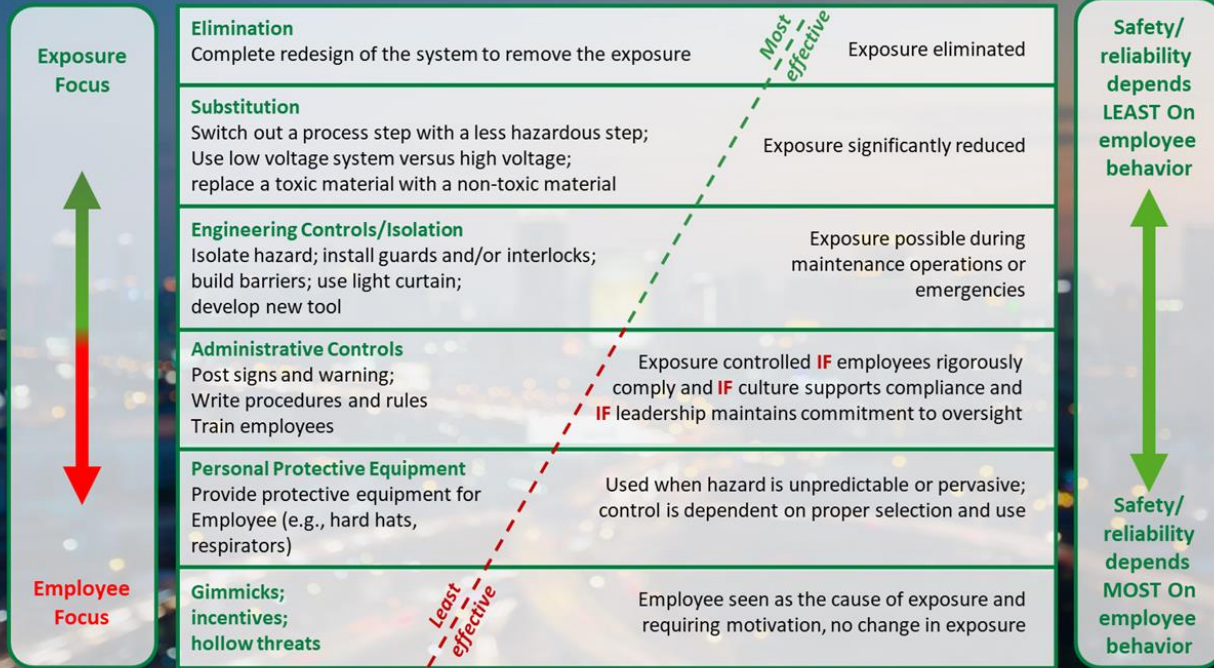
Technology

Management System

Employees' Engagement



The Hierarchy of Controls



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Engineering and Process Control:

- Traditional Bulk lorry delivery and handling of raw materials



Truck & Bobcat bulk handling

vs

Silos & pneumatic conveyor system
or Screw conveyor with dust
extraction (LEV)



Big bag handling with dust
extraction (LEV)



Engineering and Process Control:

- Traditional Plaster mould vs Resin Mould

Resin mould 40,000 times
vs Plaster mould 90 times





Traditional Plaster mould vs Resin mould:



Traditional plaster moulds



Medium pressure casting with resin moulds



Engineering and Process Control:

- Finishing & Inspection Booth design with LEV
- Green Finishing





Engineering and Process Control:

- Investing in Medium & High Pressure Casting Technology





Engineering and Process Control:

- Manual Glazing replaced by Robotic Glazing in booth with LEV





Administrative Control:

- House Keeping & Wet wash
- Upgrade Personal Protective Equipment (FFP2 & FFP3)
- Powered hood/helmet



Thank you
for your
attention!

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