ENABLING WORKS CONTRACT | SOUTH



Costain Skanska HS2 EW South Delivery JV

## **Healthier by Design**



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David Harris – Lead Design Team







Record
 Apply
 Pin-Point
 Inform
 Develop







# RAPID Record Apply Pin-Point Inform Develop

### Quantifying Risk Potential



#### Based on 5.5m operative hours worked.

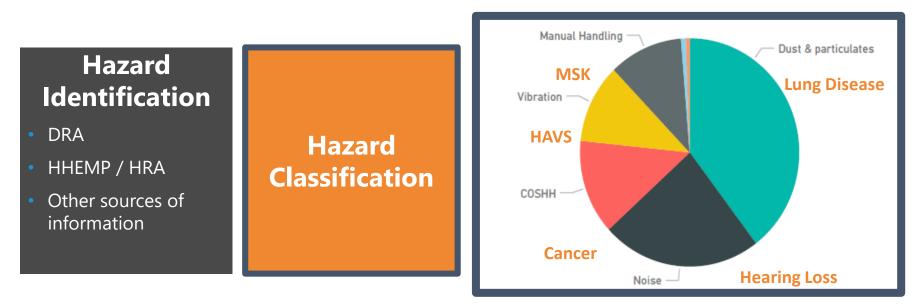








# **RAPID - Record**



### **30% Occupational Disease Risks**





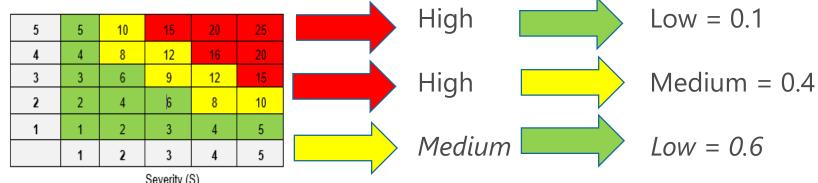


-ikelihood (L)





### **Apply Risk Factor to Quantify Exposure Reduction**



#### **Apply Risk Factor to Quantify Disease in Working Hours**

#### Lung Cancer 220 days = 1 year x 25 years = 5,500 days x 8 hours = 44,000 hours / 5.5m = **125 Cases**







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# **RAPID – Pin-Point**



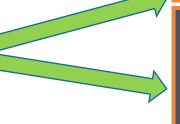
### Mitigation Optimisation



### Reduced HAVS risk

### **Design Outcome** =

77% less Vibration 73% less Weight





### Reduced MSK risk









Working on behalf of

SKANSKA

COSTAIN

HS2

# **RAPID - Inform**

### **Preventing new cases of disease**

80%	90%	90%	85%	80%
Dust	Noise	Vibration	сознн	Manual Handling
10% 0.1	15% 0.1	30% 0.1	20% 0.1	35% 0.1
40% 0.4	20% 0.4	40% 0.4	15% 0.4	10% 0.4
30% 0.6	55% 0.6	20% 0.6	50% 0.6	35% 0.6





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### **RAPID - Develop**

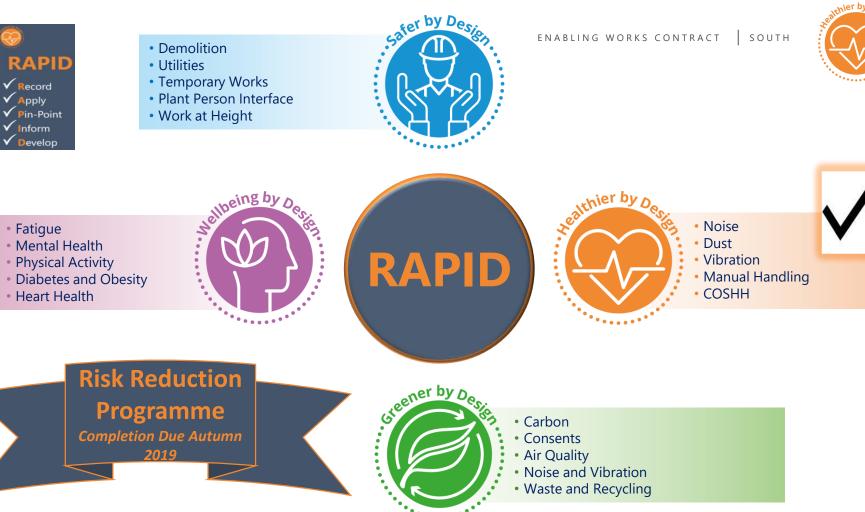
















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Apply Pin-Poin Inform Develop



### **RAPID - Conclusion**

**Record**, identify and categorise hazards EWC = 1. Dust 2. Noise 3. Vibration 4. COSHH 5. Manual Handling

