

#### Benchmarking and KPIs: 20 years of performance measurement

Don Ward, Chief Executive, Constructing Excellence

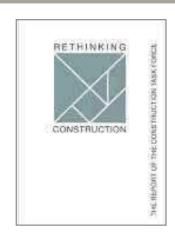




KPIs produced in response to Egan review and first published in 1999 sought to:

- provide a simple performance measure for companies and projects
- track and benchmark performance
- track long term progress at an industry level.

We now have 19 years of KPI data





# EX CELLENCE delive red with bre

### From 1999 - 2003



#### 2003 All Construction KPIs



- focus predominantly on economic issues



## Focus - on 10 critical issues



- **Project KPIs**
- Client satisfaction product
- Client satisfaction service
- Defects
- Predictability cost
- Predictability time

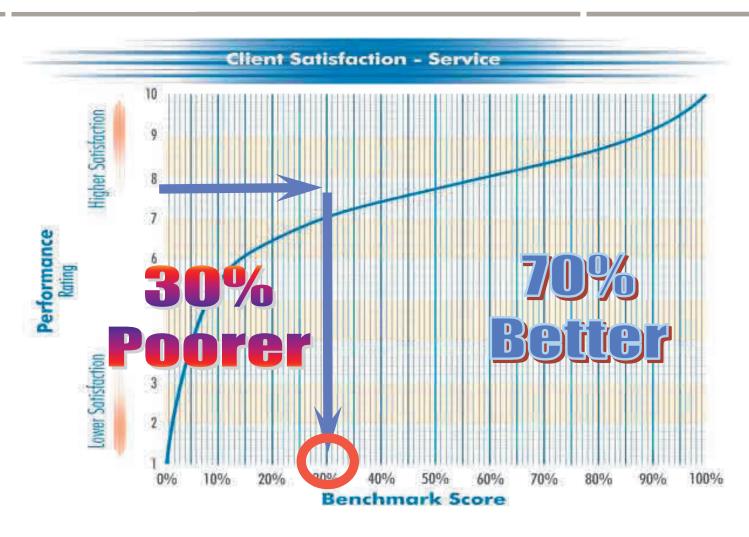
- Construction cost
- Construction time

## **Company KPIs**

- Safety
- Productivity
- Profitability

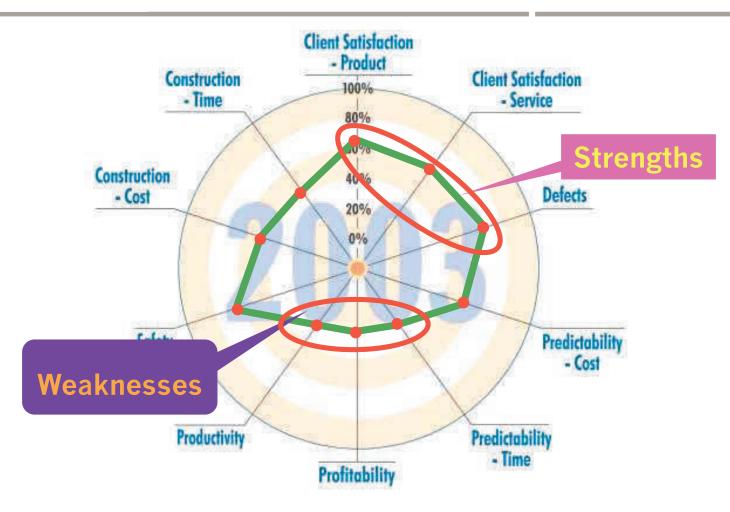
## Simple benchmarking





## **Balanced performance scorecard**





## **Demonstration project performance**





## **Monitoring Industry Progress**



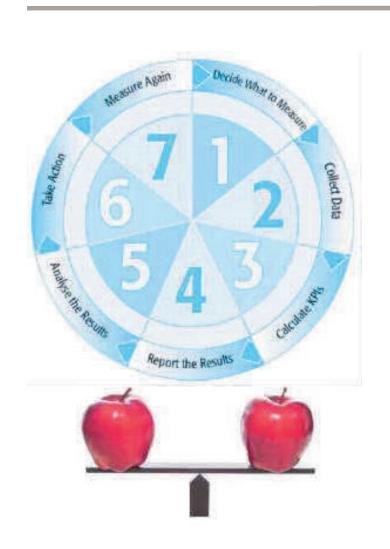




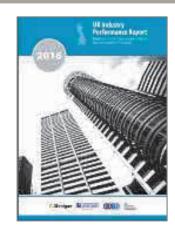
Scoring 8/10 or better **58% 63% 63% 65% 71%** 

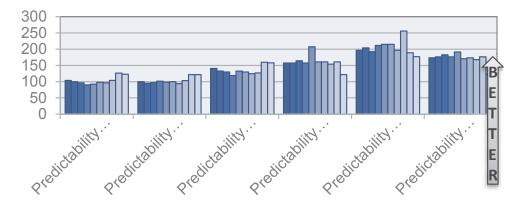
## The KPIs enabled performance measurement, benchmarking and annual reporting







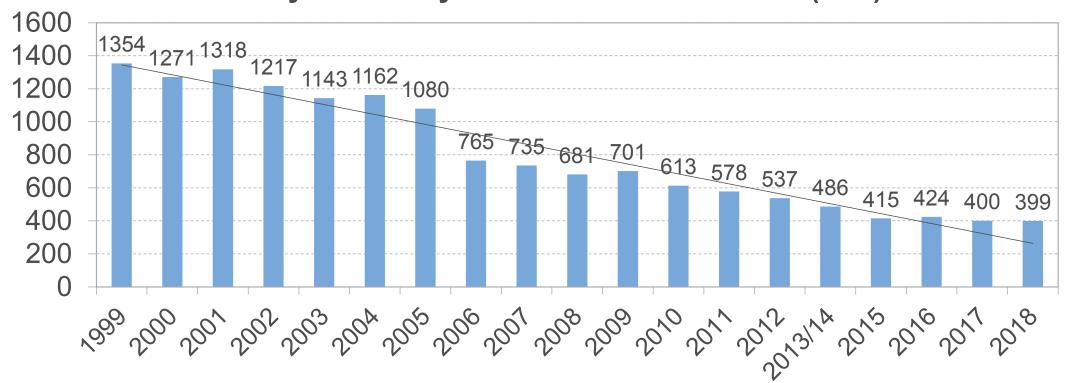




# Safety is 75% better than 2 decades ago - but has it plateaued?



## Safety - Industry Accident Incident Rate (AIR)

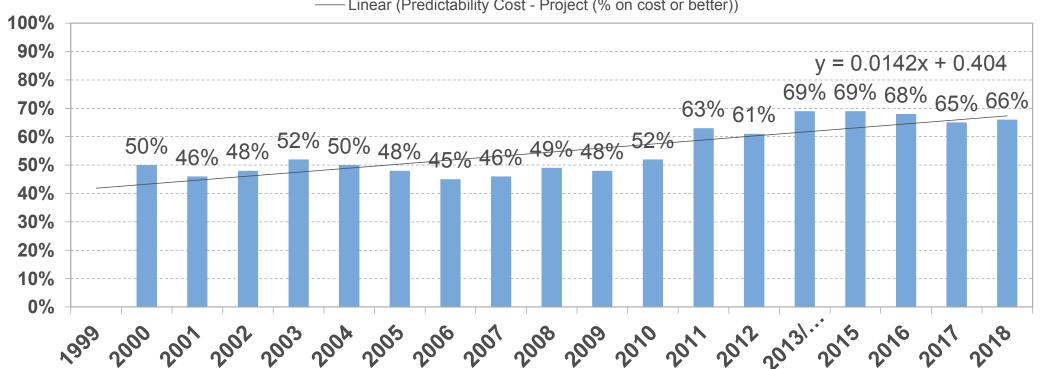


## Cost predictability has risen from 50% to 66% over 2 decades – but has it pleateau-ed?





Linear (Predictability Cost - Project (% on cost or better))

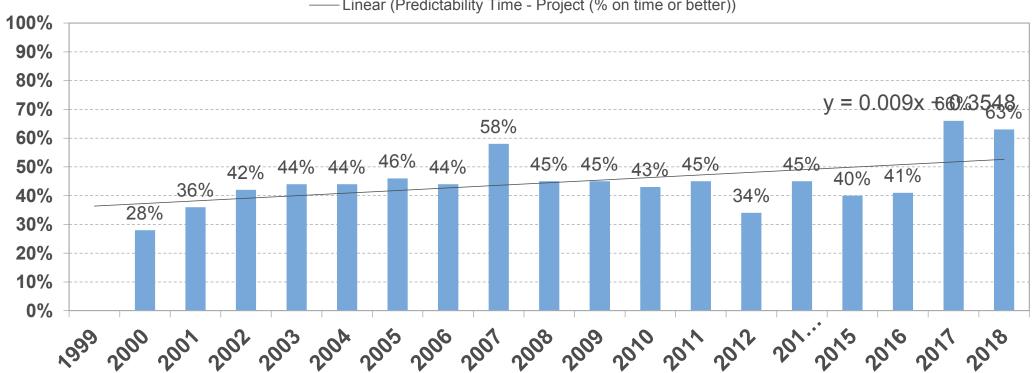


## Time predictability has improved by 50% in the last 2 years compared with the previous 15 years?





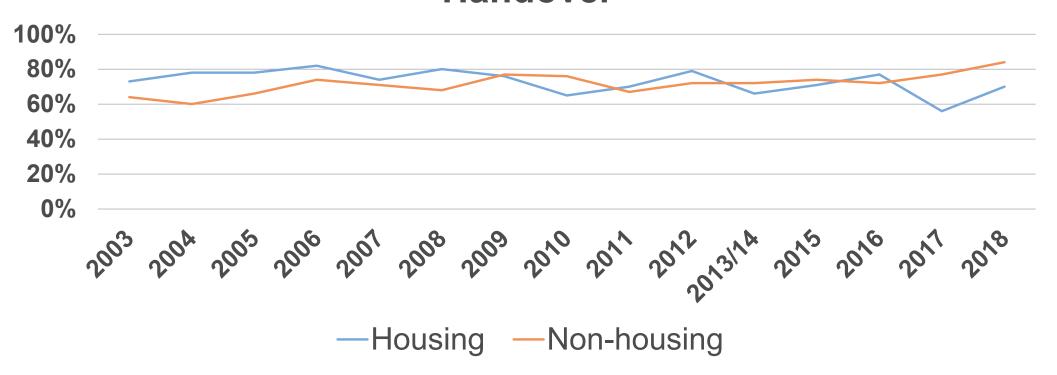
— Linear (Predictability Time - Project (% on time or better))



As non-housing got better, housing got progressively worse - until this year, can it close the gap?



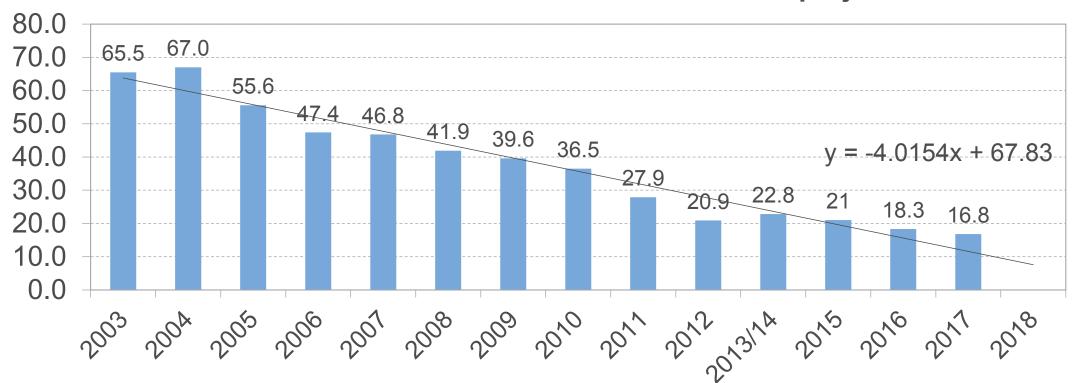
# Client Satisfaction - Defects - Impact at Handover



# Data form BRE SmartSite shows waste to landfill has reduced dramatically

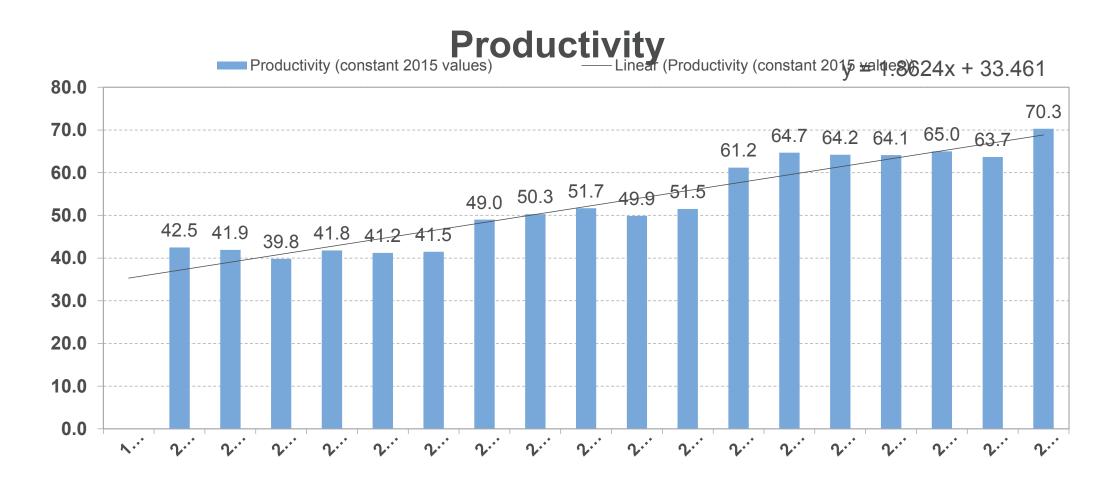


## Construction waste Median waste removed from site m3/£100K project...



# Our data shows productivity has improved over the past two decades...



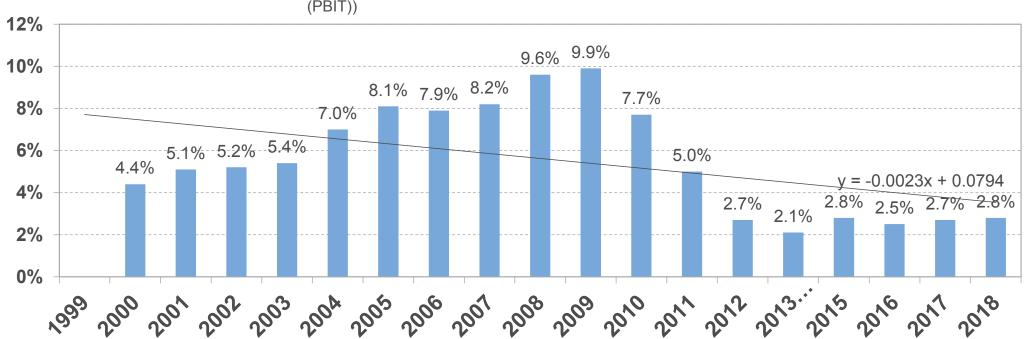


# Profitability remains poor, transformative business models are required





 Linear (Profitability - Industry median profit before interest and tax (PBIT))





## Our new SmartSite KPIs portal and plans for future development

Colm Quinn, Constructing Excellence



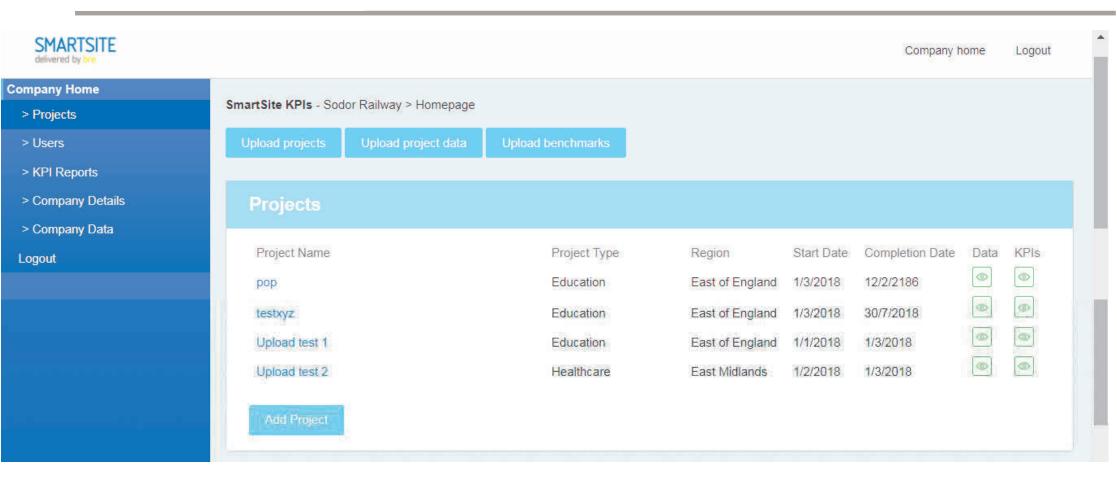


# New benchmarking portal – SmartSite KPIs

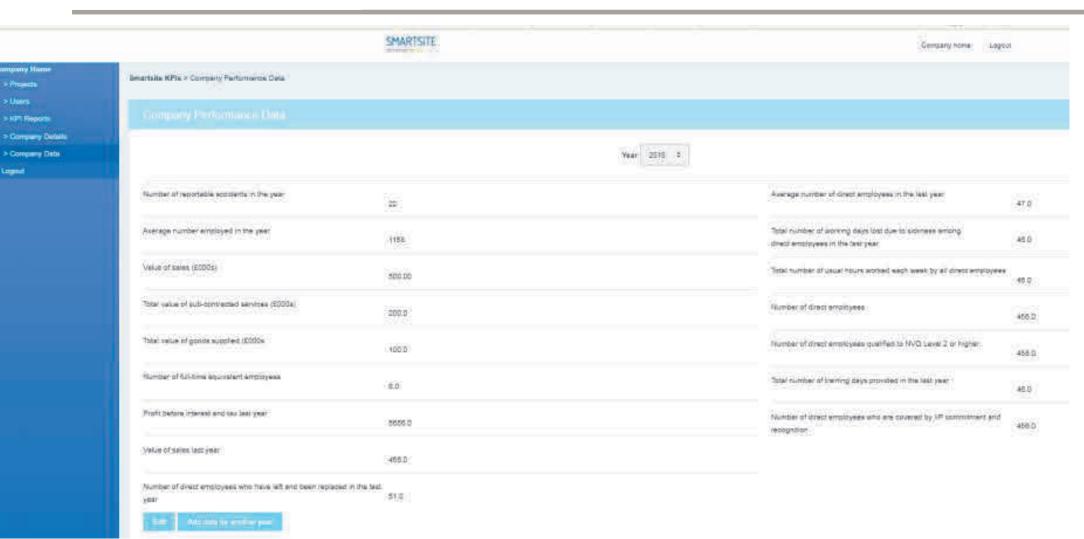




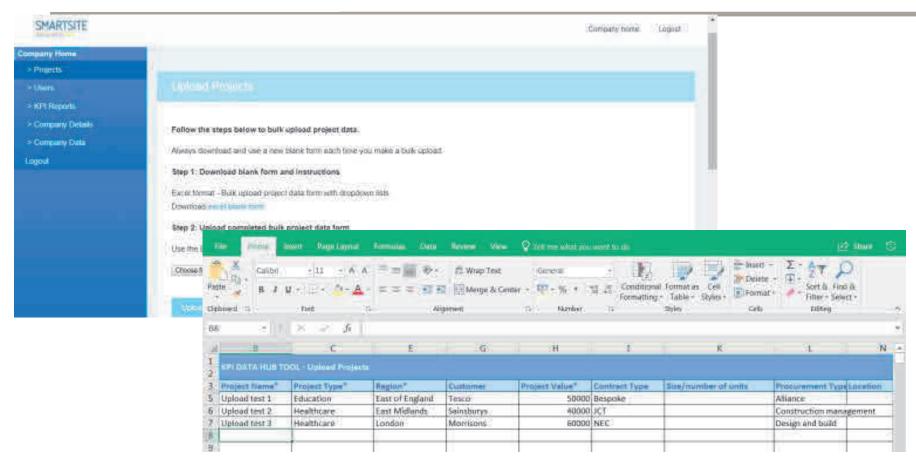




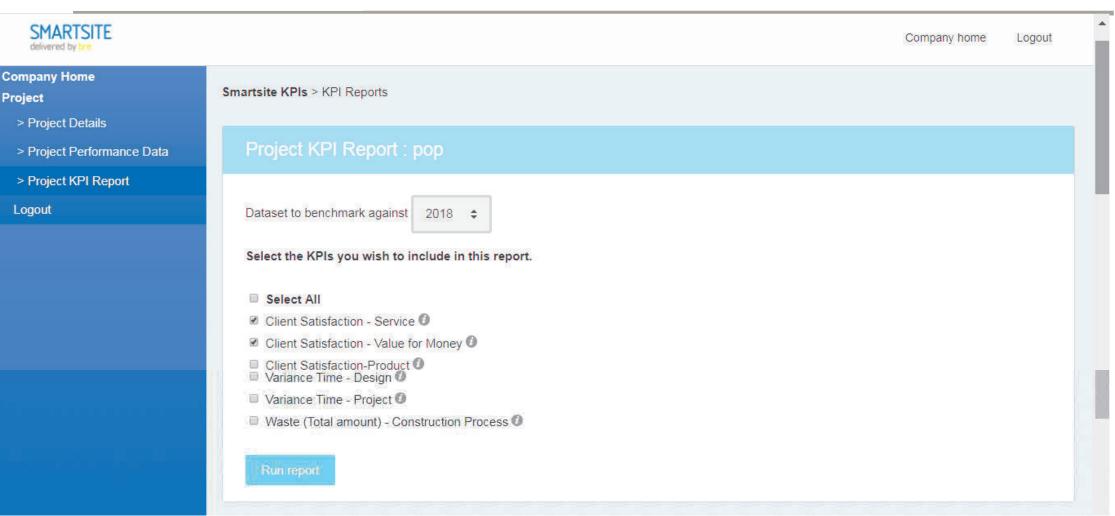




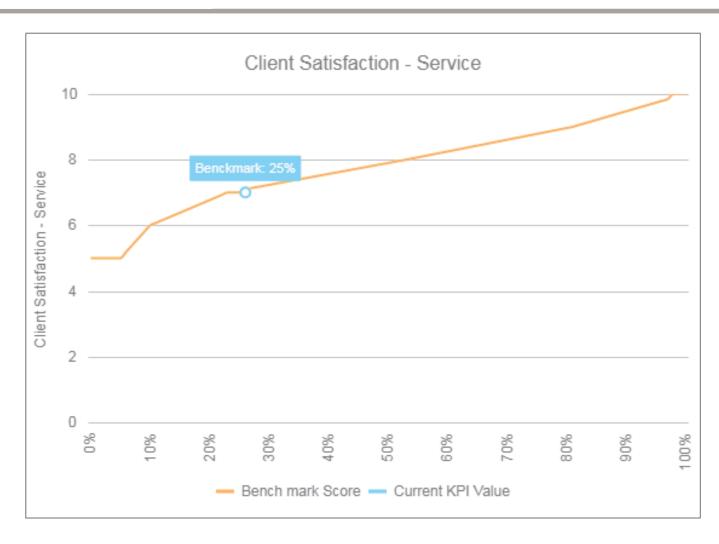












#### **Priorities for 2019**



- Please test and give us your feedback ask me to set up account
- Immediate What bugs/useability issues need sorting
- Immeditate is this data easy for you to provide?
- Short term What are the "must haves" in terms of functionaliy?
  E.g. new reports, updated fields etc
- Medium term Priorities for more significant development to the tool, and the KPIs themselves (to be answered in workshop)



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