

Share, Learn, InnovateTogether

CCG Annual Members Event 2011



Japanese Study Tour 2010

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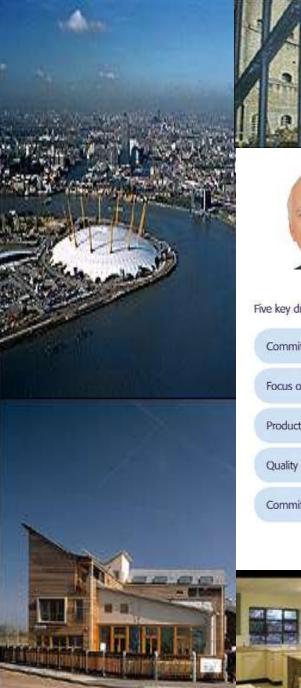
"How many of your projects are on target?...

.....time, cost, quality, safety, satisfaction?"

"If we are not being too modest....."

"100%"

UK Study Tour 2006







1998 Sir John Egan



2009 Andrew Wolstenhulme

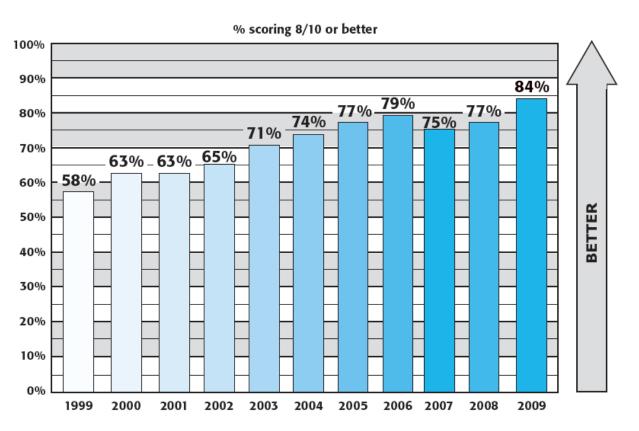






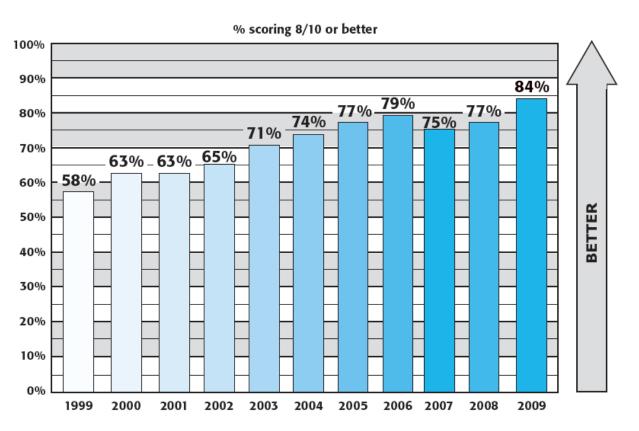


Client Satisfaction - Service



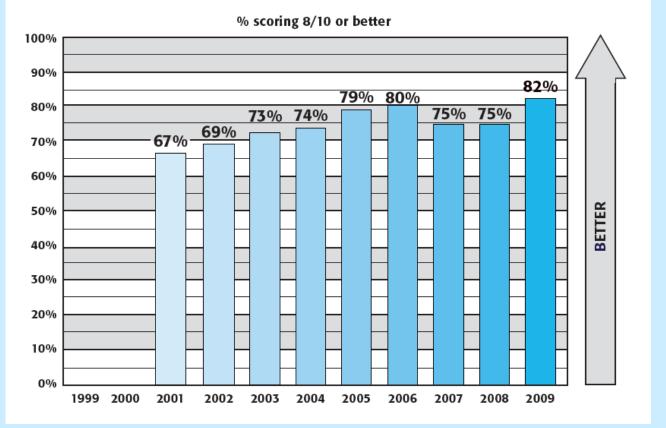


Client Satisfaction - Service



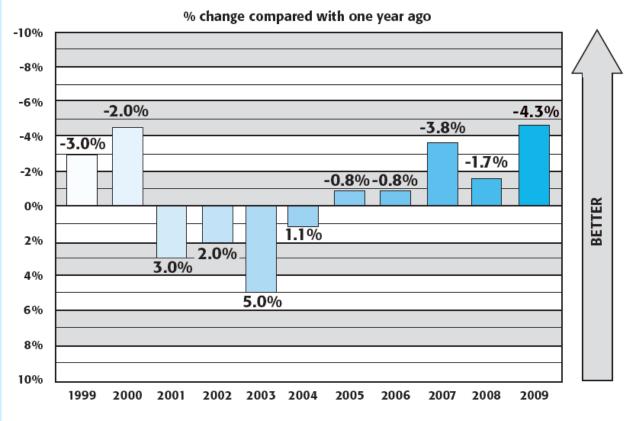


Client Satisfaction - Value for Money



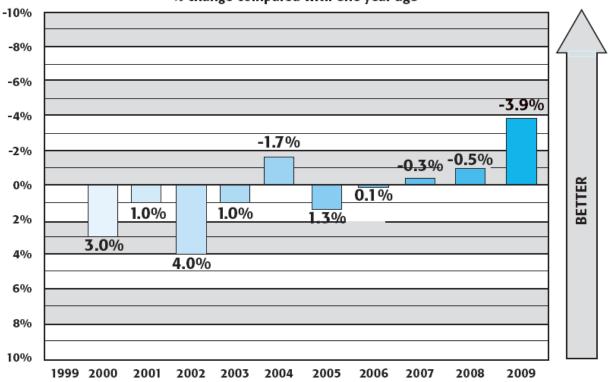


Construction Cost





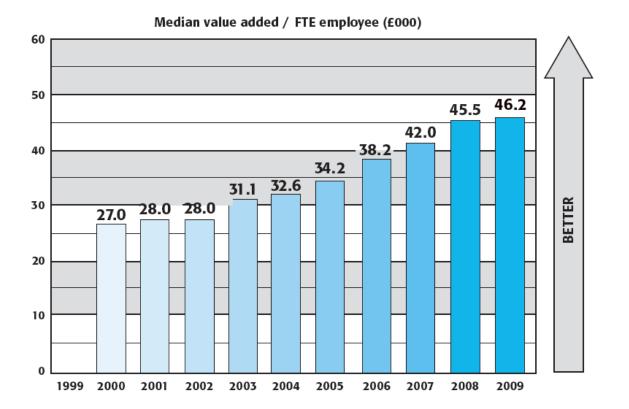
Construction Time



% change compared with one year ago



Productivity - (VAPH Current Values)

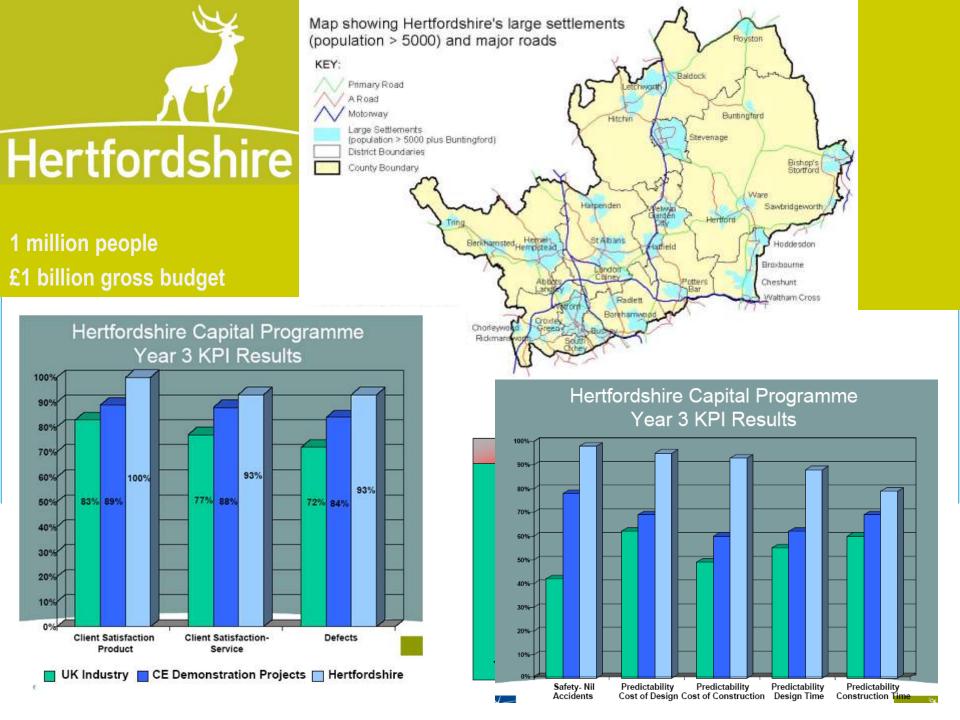


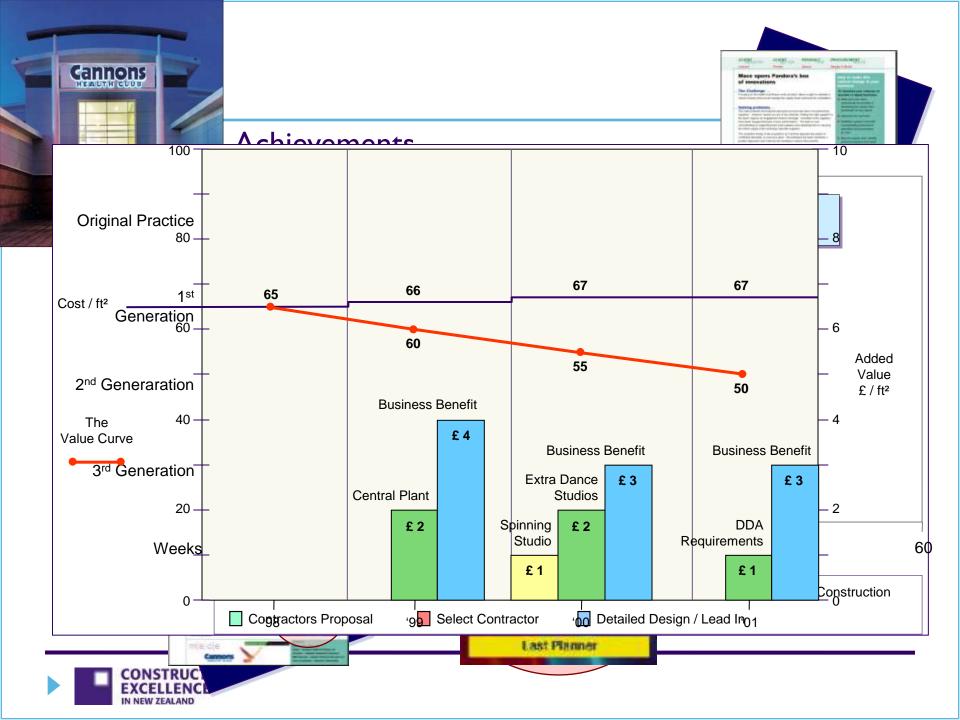
The measure for this KPI was changed in 2000, 1999 data therefore not reported. In order regularise the volatile mix of financial data by company size from year to year, in 2006 a standard method of weighting by number of employees was adopted in line with other international financial KPIs. This method was applied retrospectively to past years and, where applicable, their results were revised.

Benchmarking Clubs





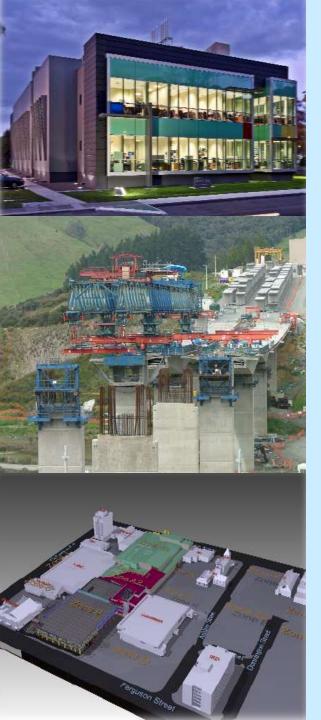






Flow Do New Zealand Projects Perform?

NZ circa 2004 Freeflow Alliance

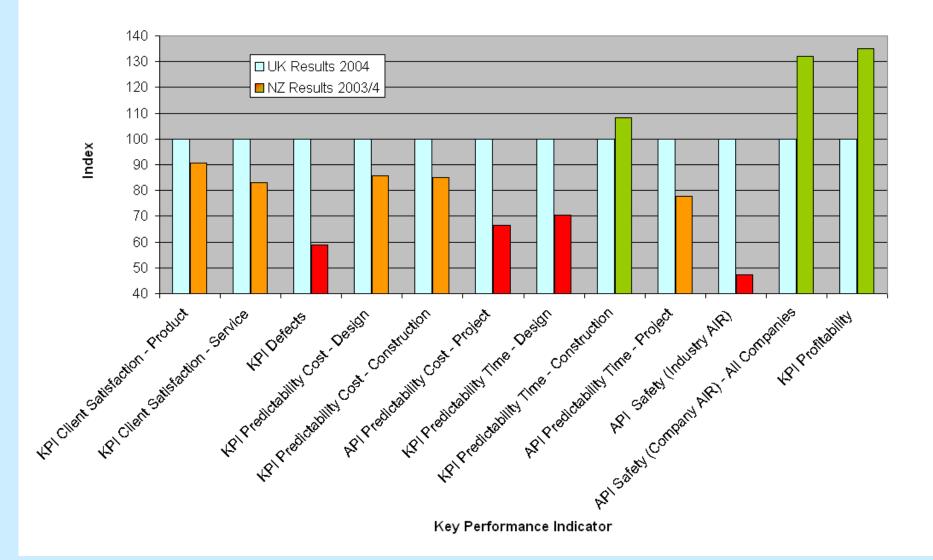


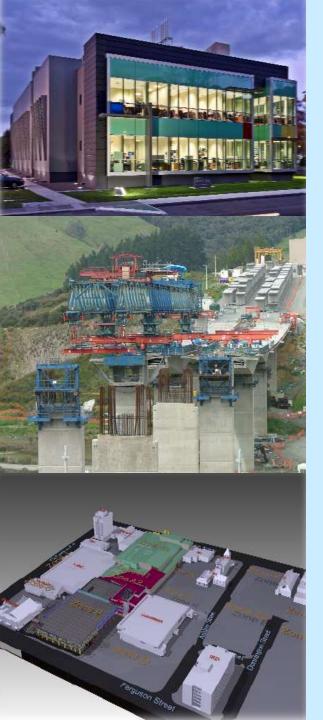
> 2005 - The National KPI Project

- Measure NZ performance
- National Client & Contractor Survey
- 2004 to 2006 projects
- Compare internationally UK
- \$400M Projects
- Modelled on UK KPIs
- Covers all Construction

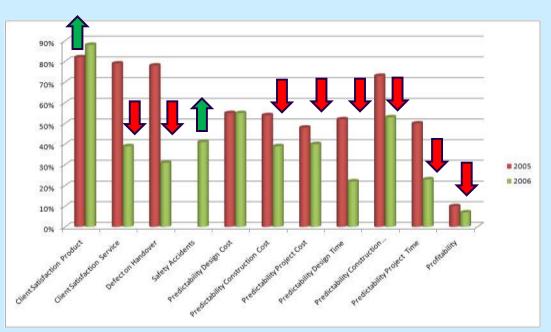


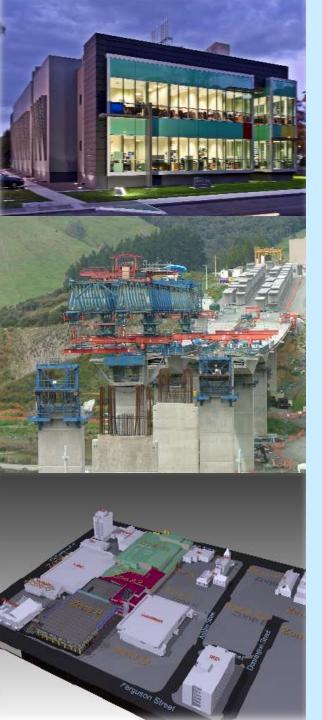
NZ KPIs & APIs - COMPARISON to UK (UK *Results* = 100)





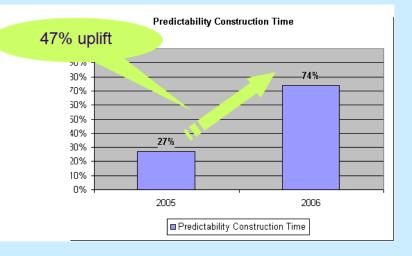
- ▶ 2005 The National KPI Project
 - ▶ 3 Years Data from 2004 to 2006
- Fell away in 2007...Why?
 - Boom
 - Annual Survey
 - Clients Only
 - Lack of Engagement
 - Ahead of its time?

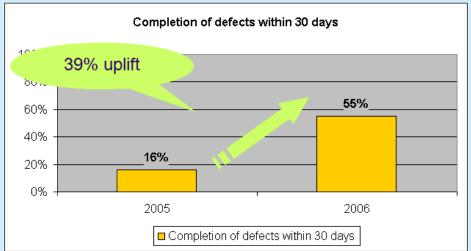




However...

- ► The Pioneers persevered...
- Naylor Love







However...

- The Pioneers persevered...
- Auckland Transport Road Maintenance

 Overall 5% improvement across all
 indicators in 1 year

5% Improvement across all Measures in 1 Year









► However...

- The Pioneers persevered...
- Arrow International
 - Dramatic uplift from year I measurement to year 2
 - ▶ Time to clear defects 75% uplift
- ARCG, now Auckland Supercity
 - 8 Regions benchmarking
- Central Districts Best Practice Club
 - formed 2011
- NZTA
 - Began the Benchmarking Journey 2010 measuring Block Projects
- **Downer,** Whangerai
- McMillan & Lockwood, Central North Island

Current NZ Construction Industry KPIs



TIME

Time Predictability T1-Design Duration

T2-Construction Duration

T2.1-Completion

T3- Project Duration

*T4-Penalties for road closures

T5-Volume of **Programme Delivered**



SAFETY

HSE1-Lost Time Incidents

HSE2-Auckland Cityredited H&S Score

ENVIRONMENT

HSE3-Auckland Cityredited **Environmental Score**

* HSE4-Noise management

*HSE5-Innovations/OFI's utilised

*HSE6- Waste Mgt Construction Process

HSE7-Environmental Incidents



COST

Cost Predictability C1-Design C2-Construction

C4- Programme Delivered

C5-Overhead Vs Output C6-Overhead Vs Output



QUALITY

Q1-Client Satisfaction **Quality of Product** Q2-Defects at Handover Q3-Defects Clearance



SATISFACTION

Client Satisfaction S1-Consultant S2-Contractor S3- Delivery Team

Delivery Team Satisfaction

S4- Client Team

S4.1-Contractor Sat. Consultant Service

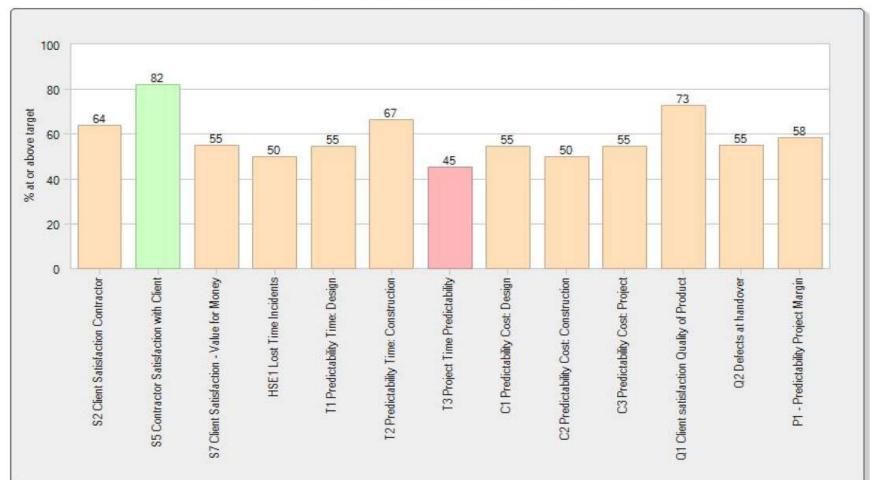
S4.2 Client (TDG) Sat. Client (Ass Man)

S4.3 Consultant Sat. Contractor

User Satisfaction *S5-Public Satisfaction

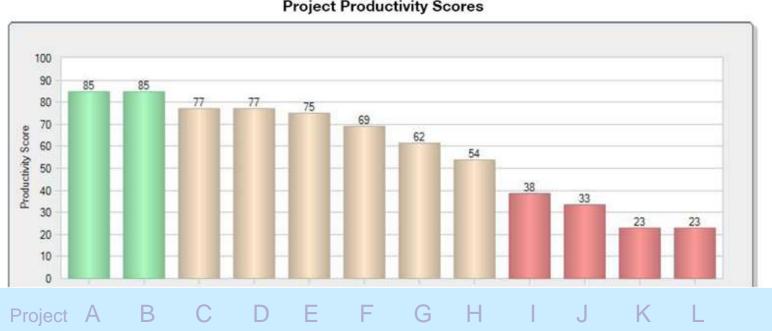
C3-Project

Immediately view those areas of performance that need attention



% of Projects at or above target

- Highlight the highest and lowest performing projects
- Create discussion and learning on best practice



Project Productivity Scores

Benchmark Nationally & Internationally

% of Projects at or above target vs UK Benchmark data 100 80 63 % Rating 60 45 40 20 0 HSE1 Lost Time Incidents S7 Client Satisfaction - Value for Money **11 Predictability Time Design** 2 Predictability Time: Construction 13Project Time Predictability 22 Predictability Cost: Construction **C3 Predictability Cost Project** Q1 Client satisfaction Quality of Product Cli Predictability Cost Design S5Contractor Satisfaction with Client 02 Defects at handover S2 Client Satisfaction Contractor P1 - Predictability Project Margi Company UK Benchmark Data /2009 UK Demo Projects Data/2009

"See what's possible overseas"

Benchmark Nationally & Internationally

100 82 80 % Rating 60 55 55 55 50 50 40 39 40 31 22 20 0 HSE1 Lost Time Incidents Q1 Client satisfaction Quality of Product S5Contractor Satisfaction with Clent 12 Predictability Time: Construction 32 Predictability Cost Construction C3 Predictability Cost Project S2 Client Satisfaction Contractor 57 Clerit Sabslaction - Value for Money **11 Predictability Time. Design** 13Project Time Predictability CI Predictability Cost Design 02 Defects at handover P1 - Predictability Project Margin Company NZ Benchmark Data/2006

% Projects at or above target vs NZ Benchmark data 2006

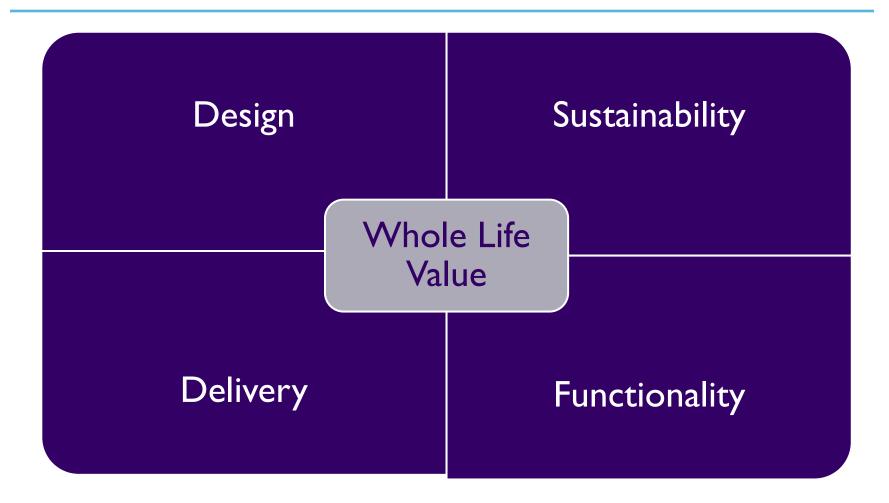
"Ensure Project Performance is above the NZ norm"

The NZ Construction Industry KPIs Achieving the Targets

KPI	Measure	Year 0		Year 1 ACTUAL	Year 2*	Year 3	Year 4	Year 5
Client Satisfaction Produc	t% scoring 8/10 or better	50%	65%	80%	73%	79%	85%	90%
Client Satisfaction Service	% scoring 8/10 or better	57%	62%	80%	65%	76%	80%	85%
Defects on handover	% scoring 8/10 or better	36%	50%	80%	58%	74%	86%	100%
Safety Accidents	Mean Accident Incidence rate per 100k employed	No Data	900	0	863	650	495	300
Predictability Constructio Cost	n% on target or better	39%	46%	100%	50%	67%	75%	80%
Predictability Constructio Time	n% on target or better	36%	52%	50%	61%	76%	80%	85%
Predictability Design Cost	% on target or better	17%	47%	100%	63%	73%	81%	85%
Predictability Design Time	e % on target or better	41%	44%	100%	46%	60%	81%	85%
Construction Cost	Change compared with one year ago	No data	N/A	N/A	ТВА	0%	-2%	-5%
Construction Time	Change compared with or year ago	No data	N/A	N/A	ТВА	0%	-8%	-15%

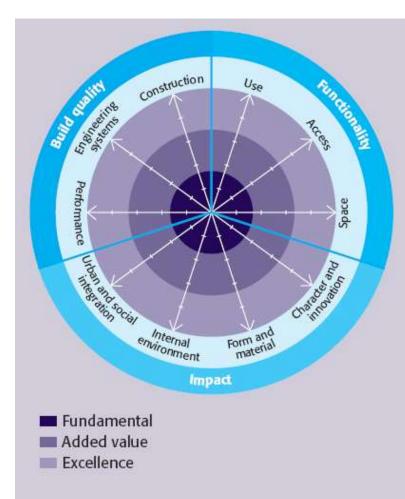


Total Value Measurement





The Design Quality Indicator

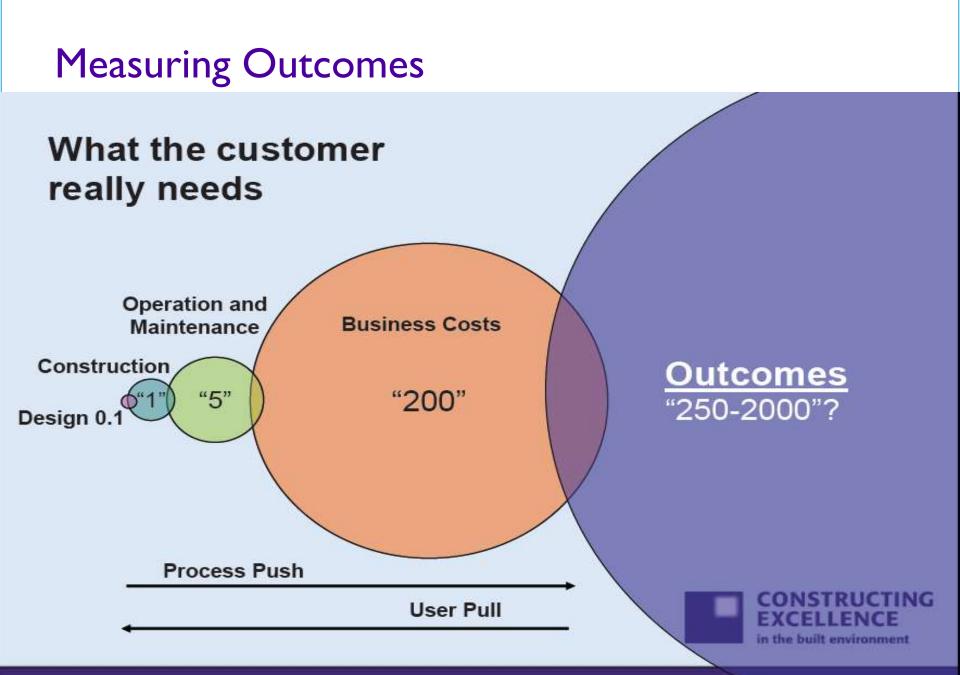


1. Functionality is concerned with the way in which the building is designed to be useful and is split into use, access and space.

2. Build quality relates to the performance of a building fabric and is split into to performance, engineering and construction.

3. Impact refers to the building's ability to create a sense of place, and to have a positive effect of the local community and environment. It is split into character and innovation, form and materials, internal environment and urban and social integration.



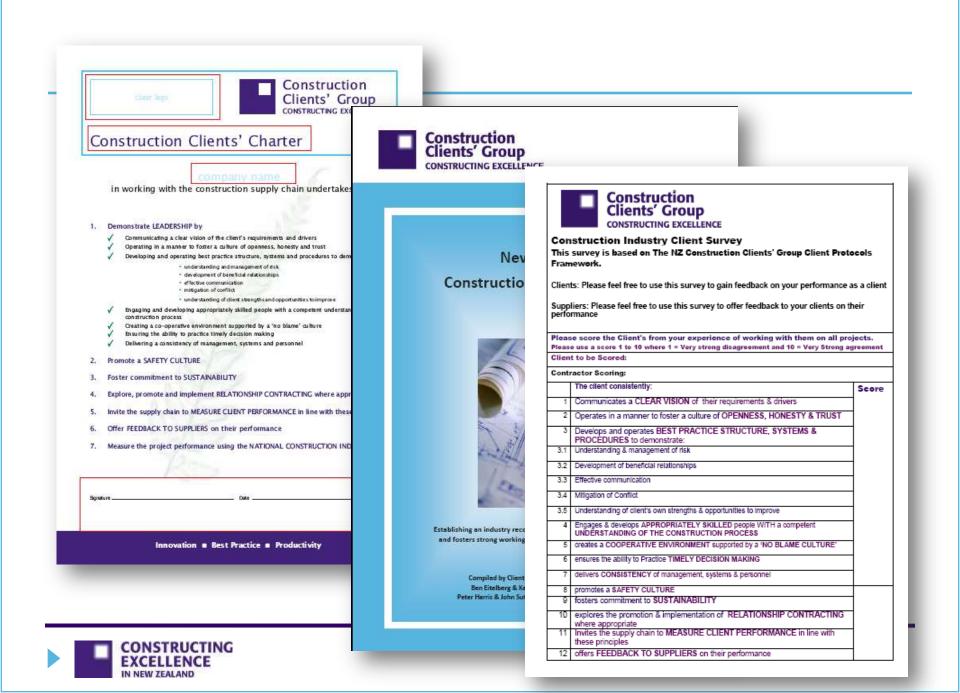




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Our Offer

- You invest your time...
 - Distribute to your suppliers to return to us
- We invest our time
 - Distribute an ANONYMOUS report to industry on Client Performance
- Together we use the results to plan improvements



Sample Output

