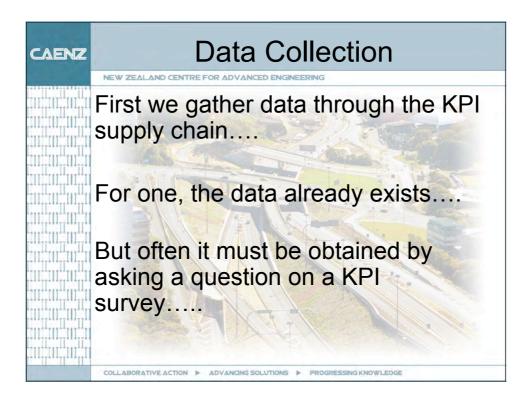


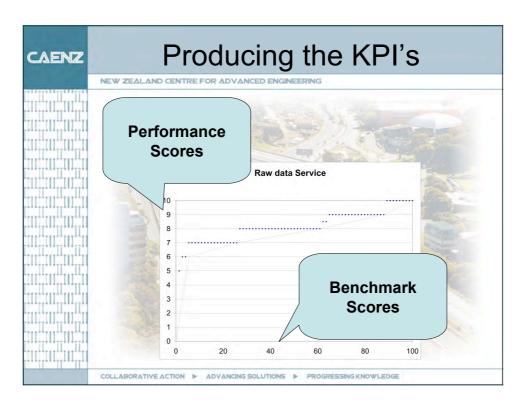


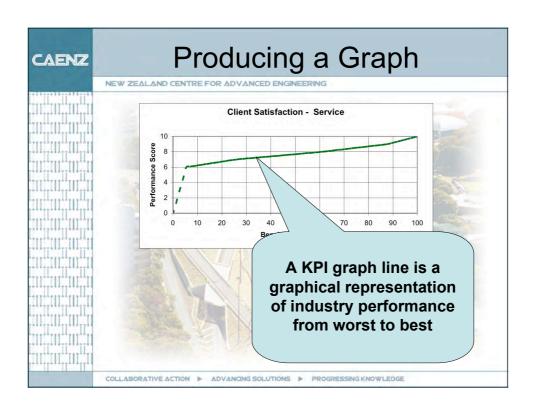
UK Constructing Excellence NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING Stand out points Government commitment Industry buy in Created a measurement culture - KPI's Applied here Government support unlikely Industry has lack of cohesion No measurement culture COLLABORATIVE ACTION ▶ ADVANCING SOLUTIONS ▶ PROGRESSING KNOWLEDGE

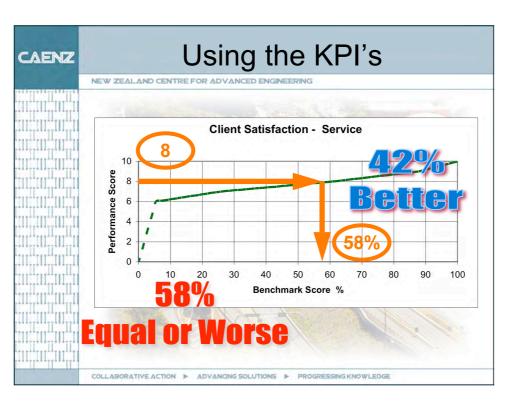
CAENZ	Creating NZ's KPI's						
	Opportunity to work with	UK					
	Constructing Excellence						
	 A willing Funder who saw the 						
	possibilities	FUNDED BY THE BUILDING RESEARCH LEVY					
	Steering group	BUILDING RESEARCH					
	 Training NZ based analy 	vsts					
	COLLABORATIVE ACTION ▶ ADVANCING SOLUTIONS ▶ PROGRESS	SING KNOW LEDGE					

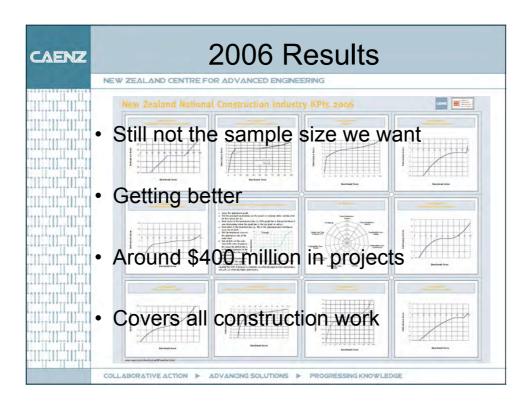
CAENZ	NZ'S KPI'S NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING
	Selected by steering group
	Based on the UK economic KPI's
	Key Performance Indicators are a measure of critical construction project success factors

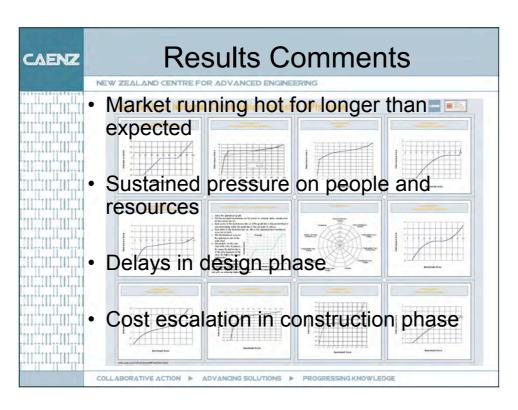








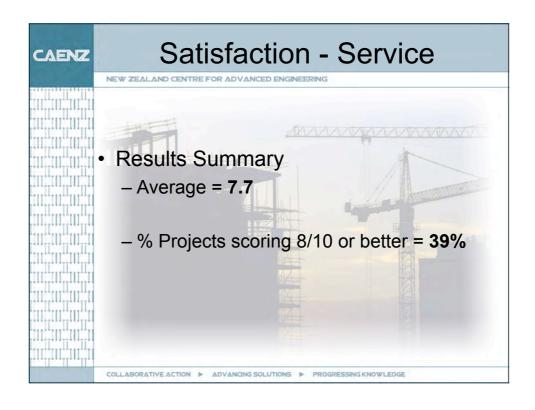




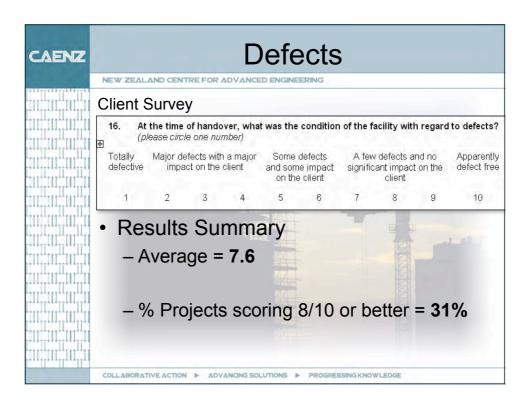


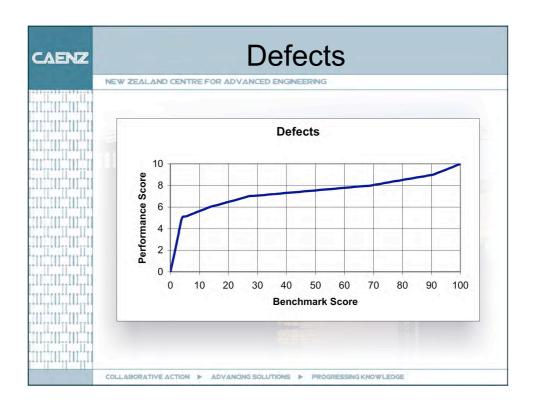


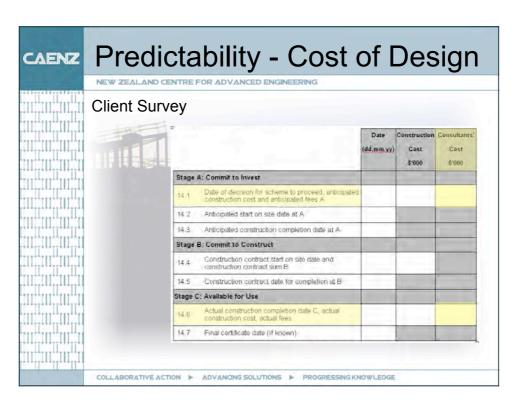
	NEW Z	EALAN	D CEN	ITRE FOR A	ADVANC	ED ENGINE	ERING				
	Clier	nt Su	ırve	ey							
	17.	with	you):	on/from: (please c	ircle one nu	mber)		w well they a		
	a) the overall project (i.e. the cons Totally Mostly dissatisfied dissatisfied				struction consultancy team and Neither satisfied nor dissatisfied			i the main co Mostly satisfied	r togetner) Totally satisfied		
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111,7111,711	b)	the c	onstru	ction consu	ultancy te	eam?					
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I IIIIIIIII	c)	the m	ain co	ontractor?							
	Total dissa	ly itisfied		Mostly dissatisfi	ed	Neither : nor diss			Mostly satisfied		Totally satisfied
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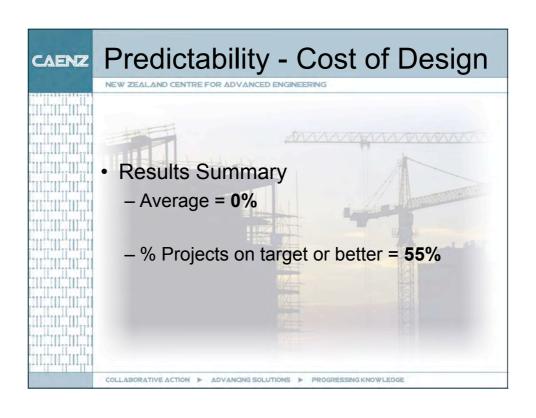


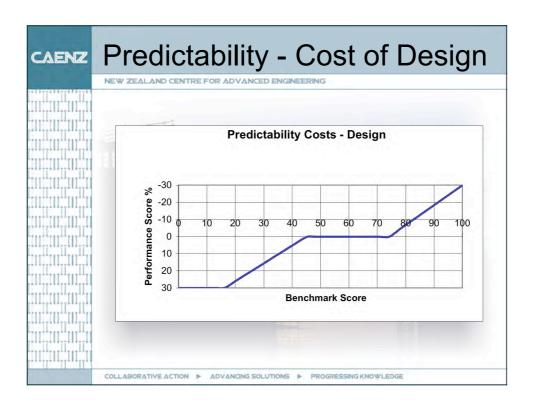


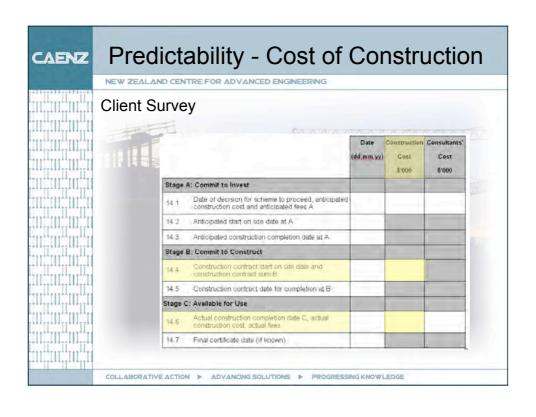


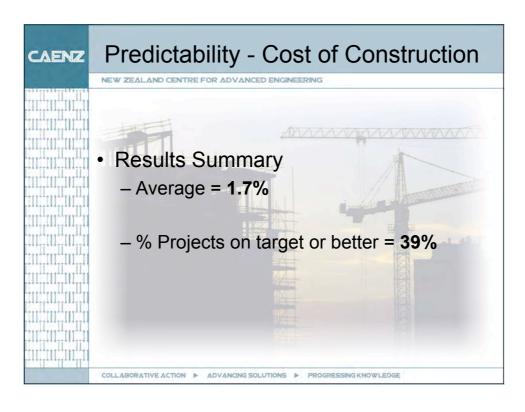


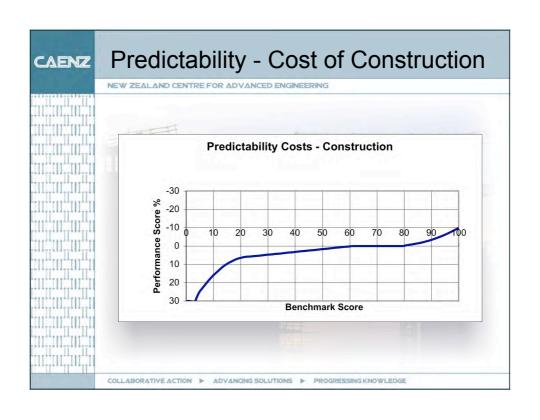


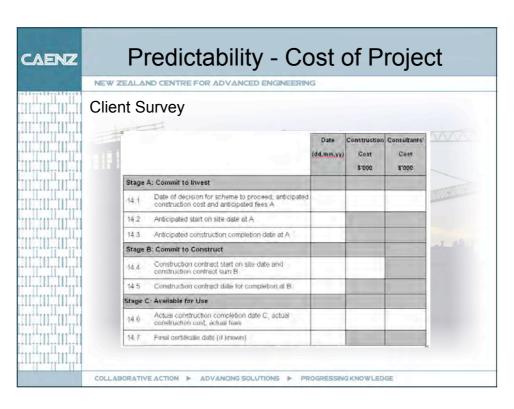


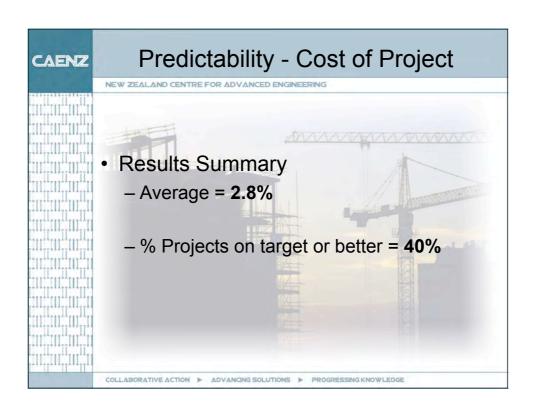


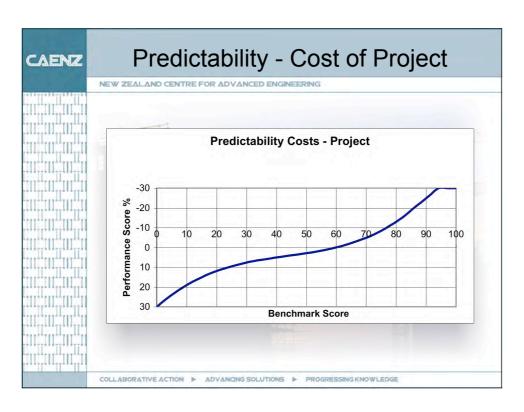


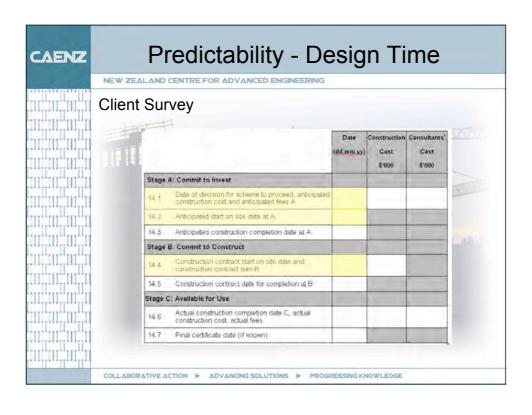


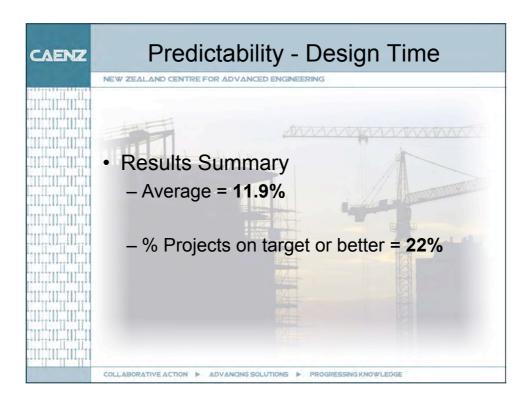


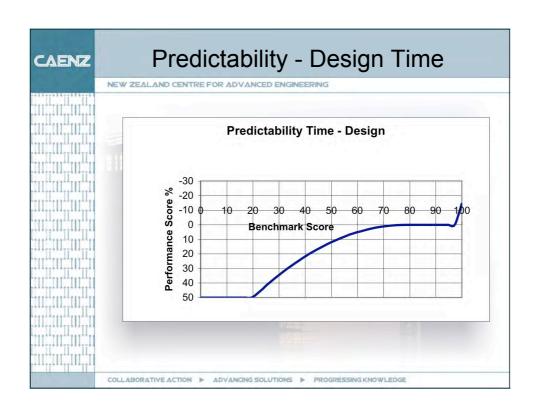


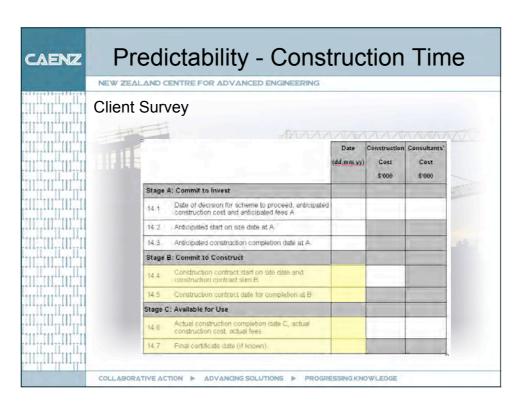


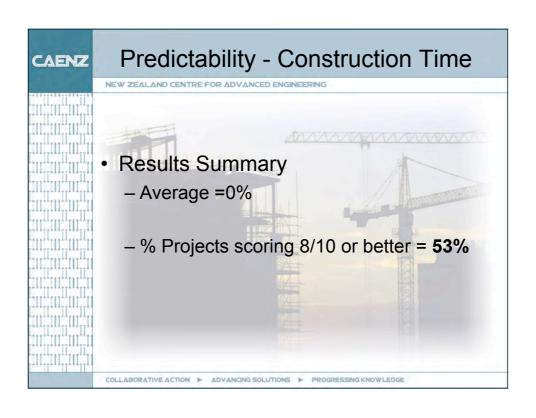


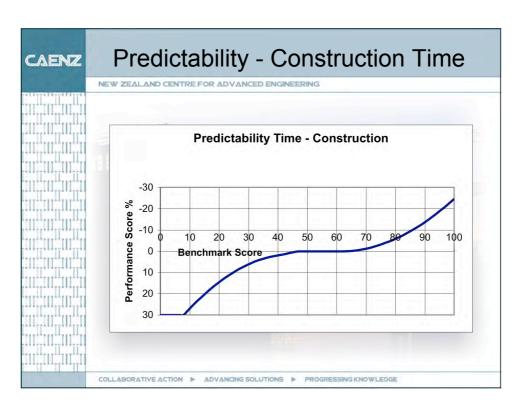


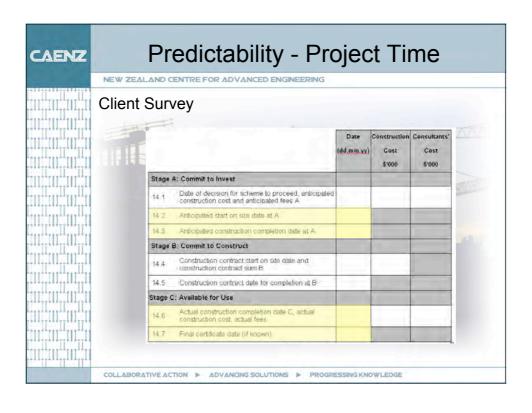


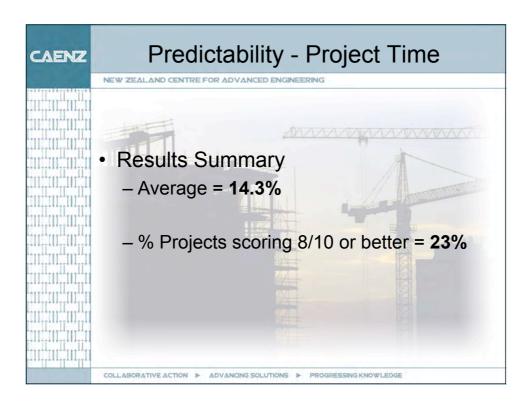


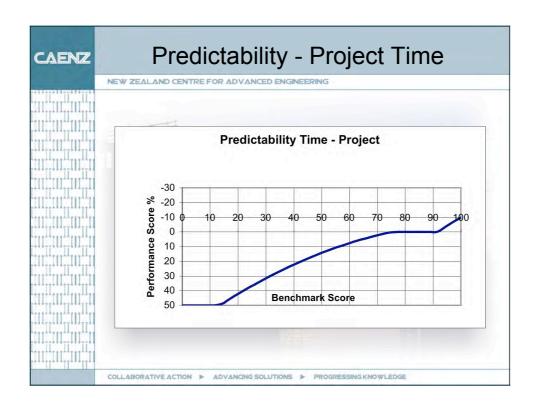


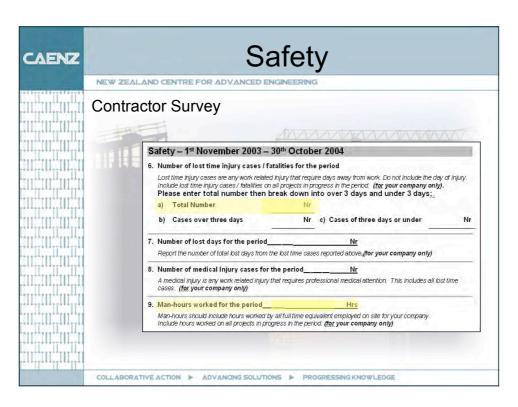


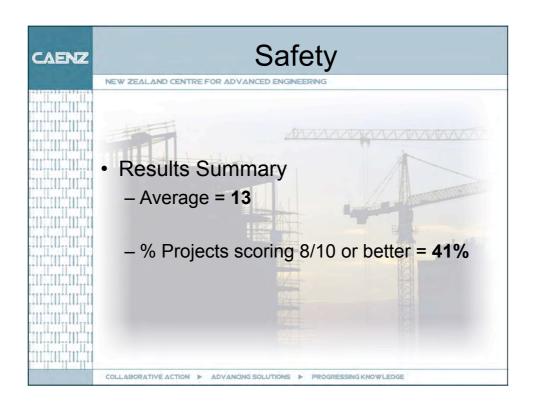


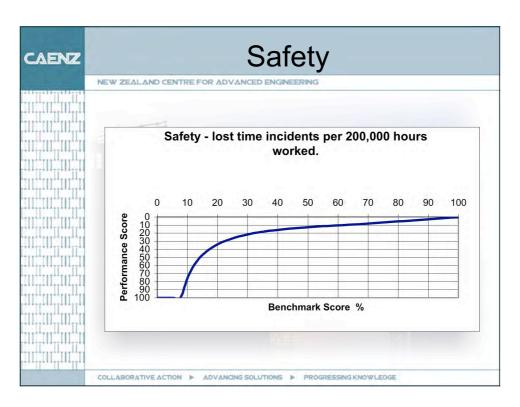






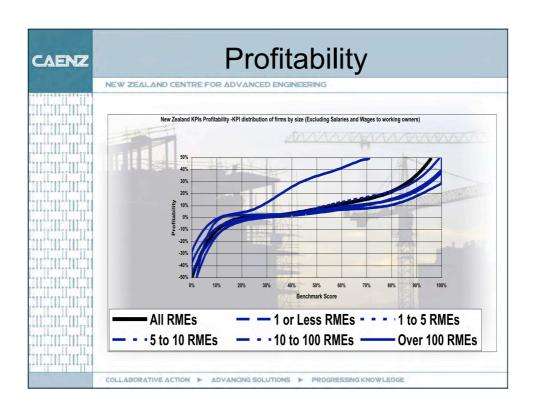






CAENZ	Profitability
	Anonymous information supplied by NZ Department of Statistics
	From Annual Enterprise Survey
	Company profit before tax and interest as a percentage of sales split into bands by size • ne 1 FTE • over 1 & ne 5 FTEs • over 5 & ne 10 FTEs • over 10 & ne 100 FTEs • Over 100 FTEs • Over 100 FTEs

CAENZ	Profitability NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING							
	ne 1 FTE	Median Profit %	35%					
	over 1 & ne 5 FTEs	Median Profit %	8%					
	over 5 & ne 10 FTEs	Median Profit %	4%					
	over 10 & ne 100 FTEs	Median Profit %	6%					
	Over 100 FTEs	Median Profit %	5%					
	COLLABORATIVE ACTION > ADVANCING SOLUTION	ONS ▶ PROGRESSING KNOWLEDGE						





AENZ	Trends contd.
	NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING
•	Construction costs 39% from 54%
	Defects 31% from 78%
	Product Satisfaction 88% from 82%
	Service Satisfaction 39% from 79%



CAENZ	Future Approaches			
	NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING			
	Year round data collection			
	 Create a web based data entry and analysis environment 			
	Look to refine the KPI's - safety			
	Add KPI's in areas of importance			
11-1-11-11-11-11-11	COLLABORATIVE ACTION ▶ ADVANCING SOLUTIONS ▶ PROGRESSING KNOWLEDGE			

VENZ	UK
	NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING
	Web based delivery system
	Multiple KPI sets
	- Economic
	 Respect for People
	Environment
	- Consultant
	 Mechanical and Electrical Services
	- Construction Products
	Good support systems

AENZ	Australia		
	Australian Procurement and Construction Council (APCC)		
	 Ministers agreed to develop a national set of KPI's and performance metrics 		
	 To be presented for endorsement in September 2007 		

Why in Australia
Lags other industries in productivity
No basis to identify industry improvement
If performance Is not improving, value for money and industry sustainability reduces

CAENZ	Areas of interest			
	Safety			
	Productivity and competitiveness			
	Economic security and rewards			
	Skills and training			
	Environmental sustainability / Eco-efficiency			
	COLLABORATIVE ACTION ► ADVANCING SOLUTIONS ► PROGRESSING KNOWLEDGE			

CAENZ	Setting Targets						
	NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING						
	Better than all industries national average						
	- Safety						
	Productivity						
	Economic						
	Increase in services export						
	Fewer complaints and disputes						
	Adequate pre-tender notice						
	Increase in apprenticeship completion/skills						
	Skill need forecasting						
	Energy efficient buildings						
	COLLABORATIVE ACTION ▶ ADVANCING SOLUTIONS ▶ PROGRESSING KNOWLEDGE						

CAENZ	NZ - how we use them
	Limited adoption, numbers increasing
	Used by clients and contractors
	 Limited awareness and lost opportunities
	 No all-of government attention

CAENZ	The End
	NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING
	Thank you and remember to send in the survey results as you finish projects
	COLLABORATIVE ACTION ► ADVANCING SOLUTIONS ► PROGRESSING KNOWLEDGE