

# **Constructing Excellence Members' Forum on Innovation**

10<sup>th</sup> June 2015

#CEInnovation



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# Delivering the 2025 vision of excellence



**Murray Rowden**  
Chairman

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# Construction 2025, BIS, 2013



**People**

**Smart**

**Sustainable**

**Growth**

**Leadership**

**Lower costs**

**33%**

reduction in the initial cost of construction and the whole life cost of built assets

**Faster delivery**

**50%**

reduction in the overall time, from inception to completion, for newbuild and refurbished assets

**Lower emissions**

**50%**

reduction in greenhouse gas emissions in the built environment

**Improvement in exports**

**50%**

reduction in the trade gap between total exports and total imports for construction products and materials

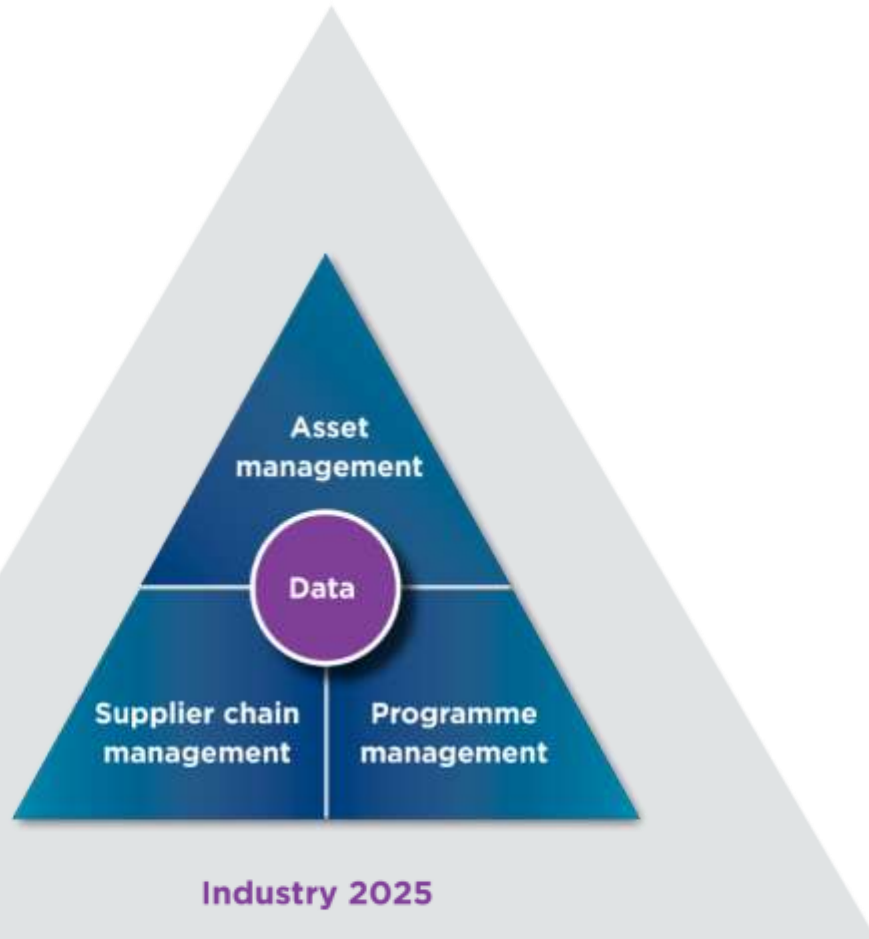


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# Constructing Excellence has set out a vision for the industry



## Collaborative platform:

- coordinated, not fragmented
- integrated, not siloed
- investing, innovative
- enhanced capability
- rewarded for the value created

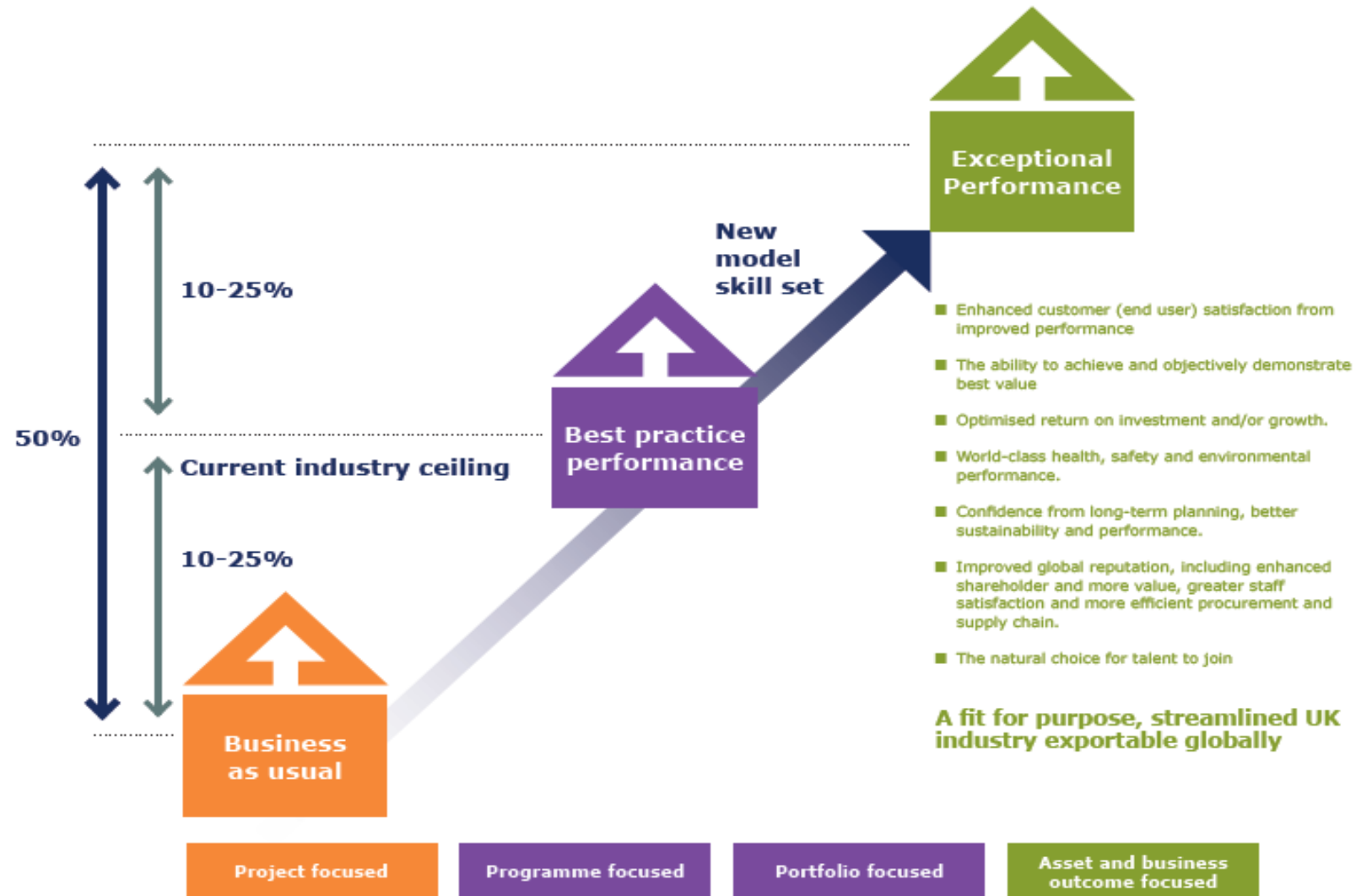


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# We are setting an exceptional performance agenda



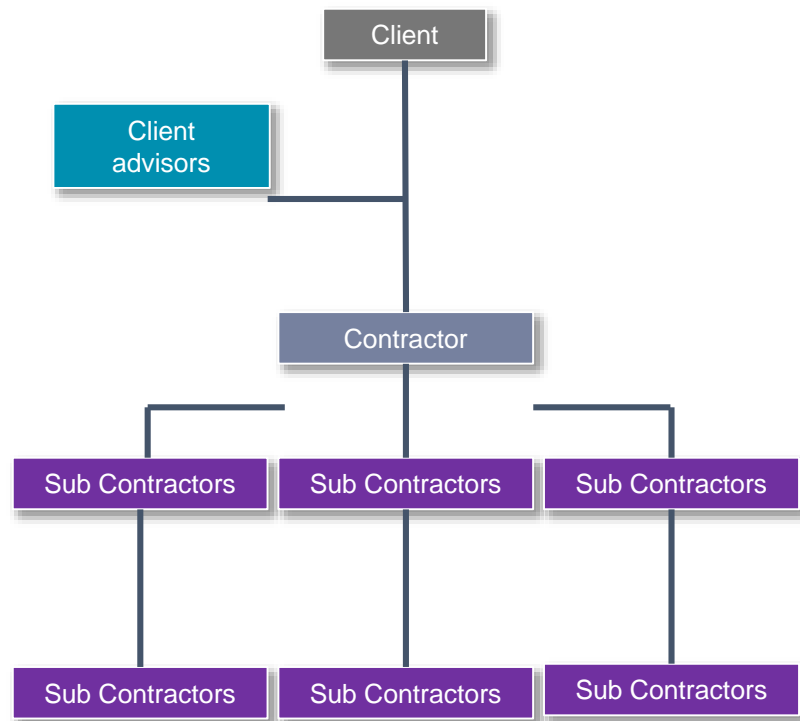
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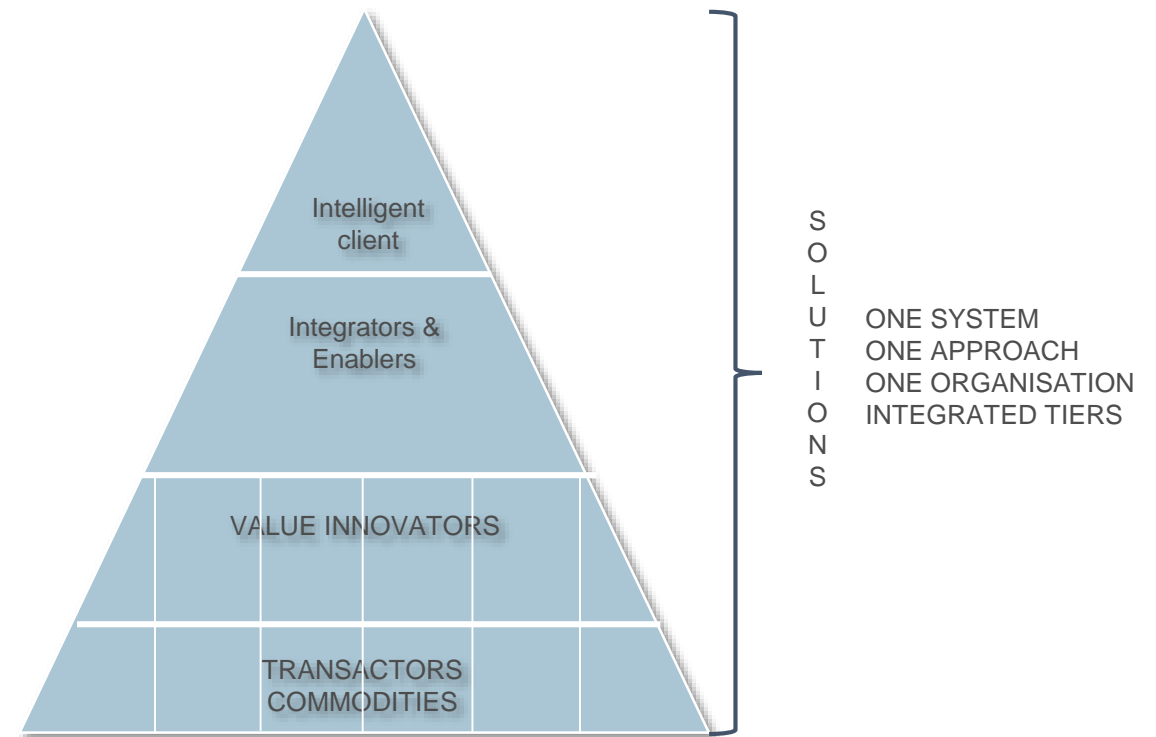
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# 2025 – a two stream industry

## 1. Transacted and fragmented



## 2. Collaboration & Integration



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# Constructing Excellence



The single organisation driving change  
in construction

The platform for industry improvement  
to deliver better value  
for clients, industry and users  
through collaborative working

**“BETTER TOGETHER”**



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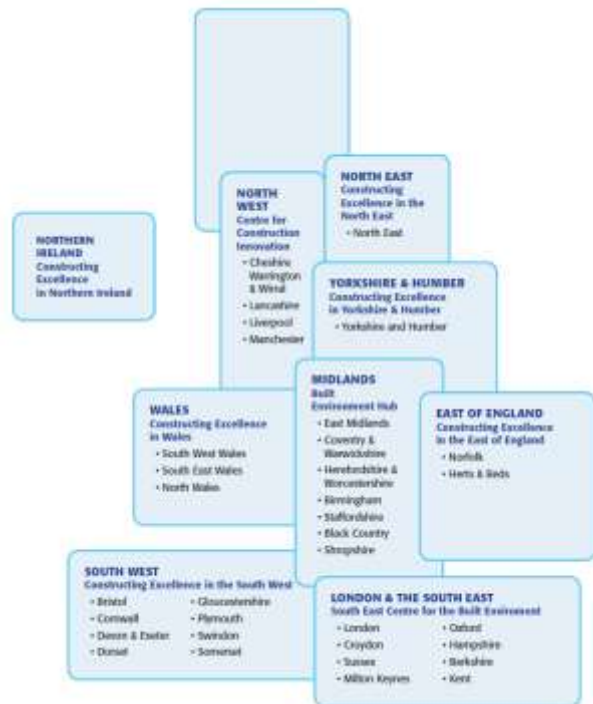
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# The CE movement

80 national members, 9 regional Centres  
35 local best practice Clubs, 650 G4C members,  
7 partners in the CE International Alliance



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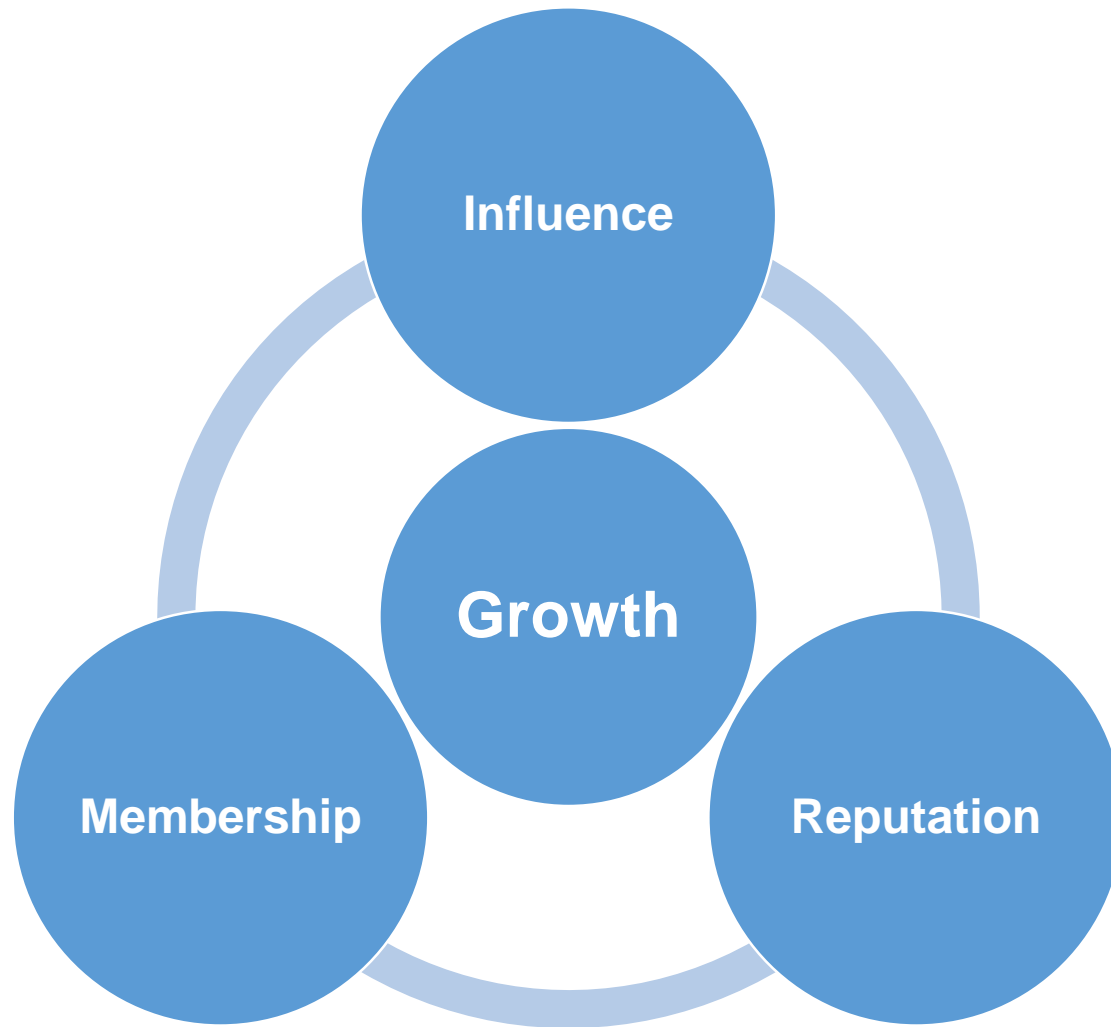
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# To deliver, all in the CE Movement need growth in



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# Influencing government and other stakeholders



Cabinet Office



Chartered  
Building  
Company



Department  
for Business  
Innovation & Skills



Health and Safety  
Executive



HM Treasury

GRAPHISOFT®



Department  
of Energy &  
Climate Change



HM Government



UK Trade  
& Investment



Institute for  
Collaborative  
Working



UK GREEN  
BUILDING  
COUNCIL



Nuclear  
Decommissioning  
Authority



Construction  
Clients' Group  
CONSTRUCTING EXCELLENCE



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# Influencing the mega projects of today to improve the industry of tomorrow - and setting the bar ever higher for the next one



T5  
Heathrow



London  
2012



Crossrail



Nuclear  
power



HS2



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# UK construction improvement can be charted by a number of key reports

Latham.....Egan.....Olympics....'Crisis'.....'2025'...



1994.....1998.....2006.....2010.....2013...



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# Egan inspired the Construction Industry Key Performance Indicators



Safety

Predictability

- Cost
- Time

Defects

Construction Cost

Construction Time

Profitability

Productivity

Client satisfaction

- Product
- Service

Environmental impact

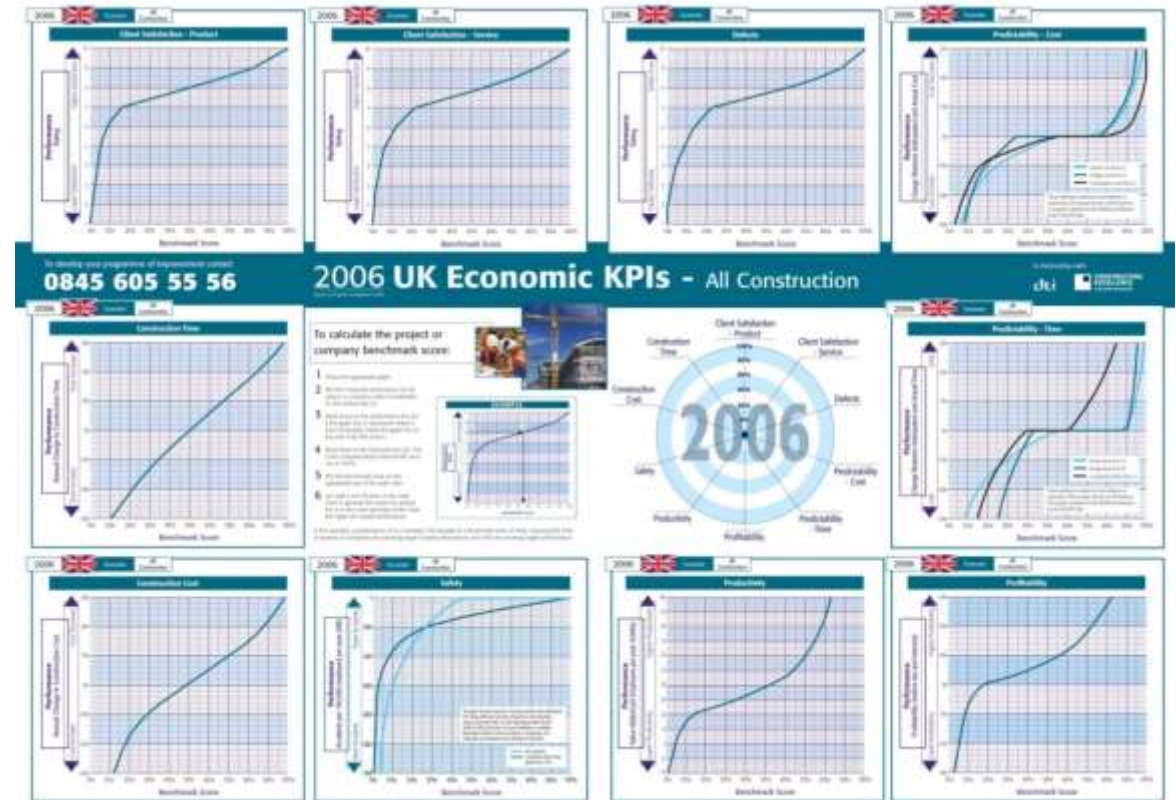
Product

Process

Employee satisfaction

Staff turnover

Qualifications & skills



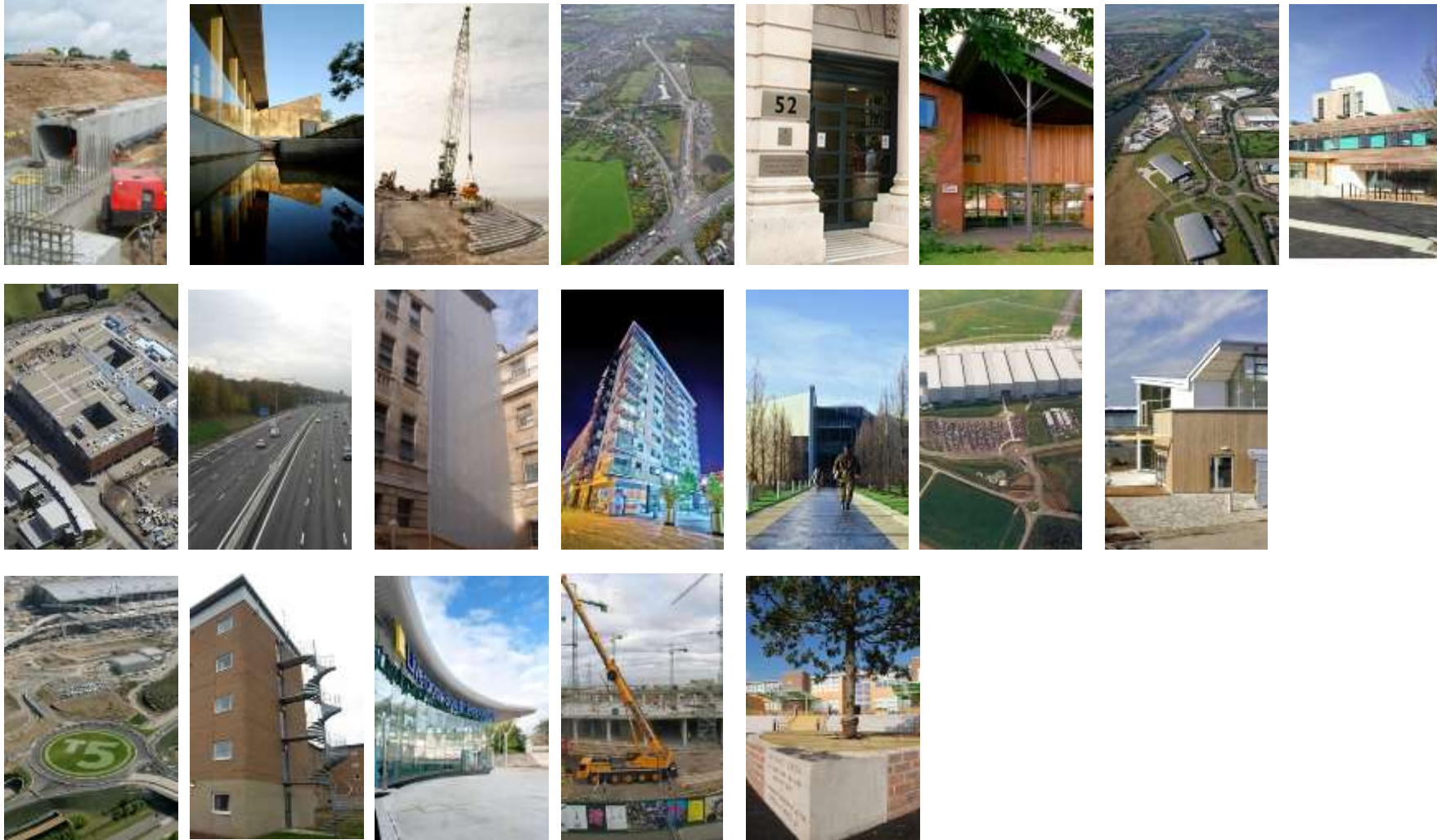
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## Over 500 Demonstrations Projects covering all sectors, regions and sizes

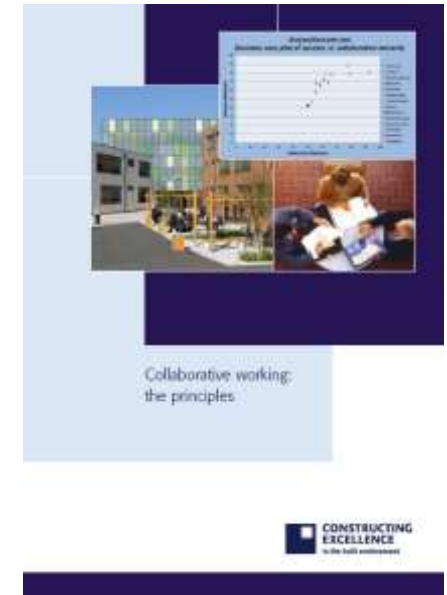
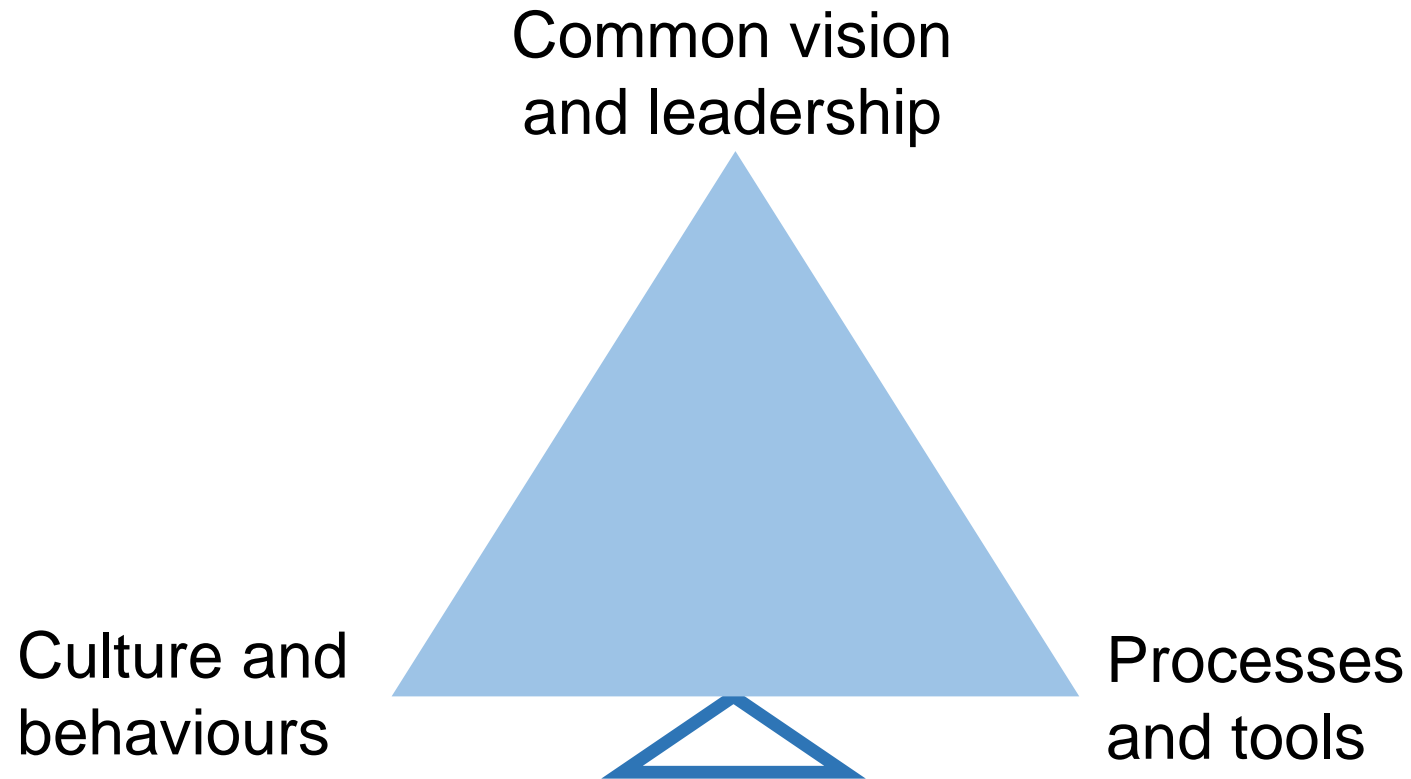


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# Three overriding principles of collaborative working



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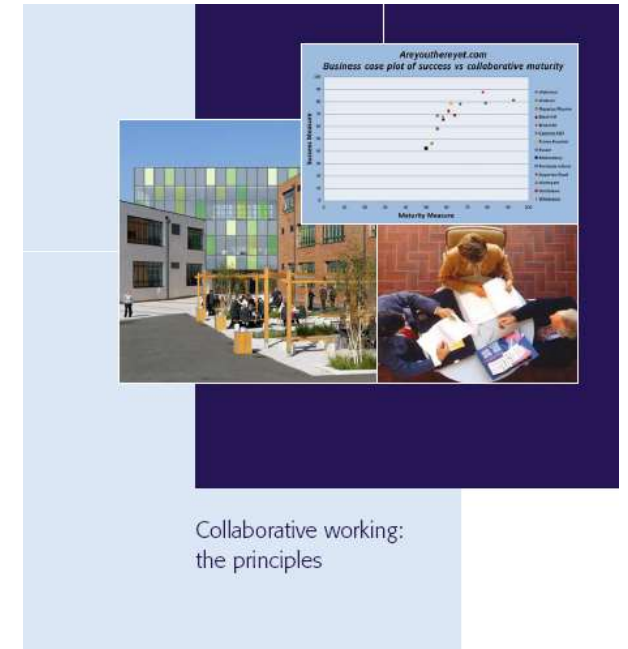
# There are 6 critical success factors for collaborative working

## Early involvement

Selection by value

Common processes and tools    => **BIM**  
Measurement of performance    } **continuous**  
Long-term relationships        } **improvement**

## Aligned commercial arrangements



Above all, customers want value and we need to understand how clients and users measure it (£, happy residents, CO2, time, social value etc)



$$\text{Value} = \frac{\text{Benefit}}{\text{Cost}}$$

***More  
For less***

**WHOLE  
LIFE**

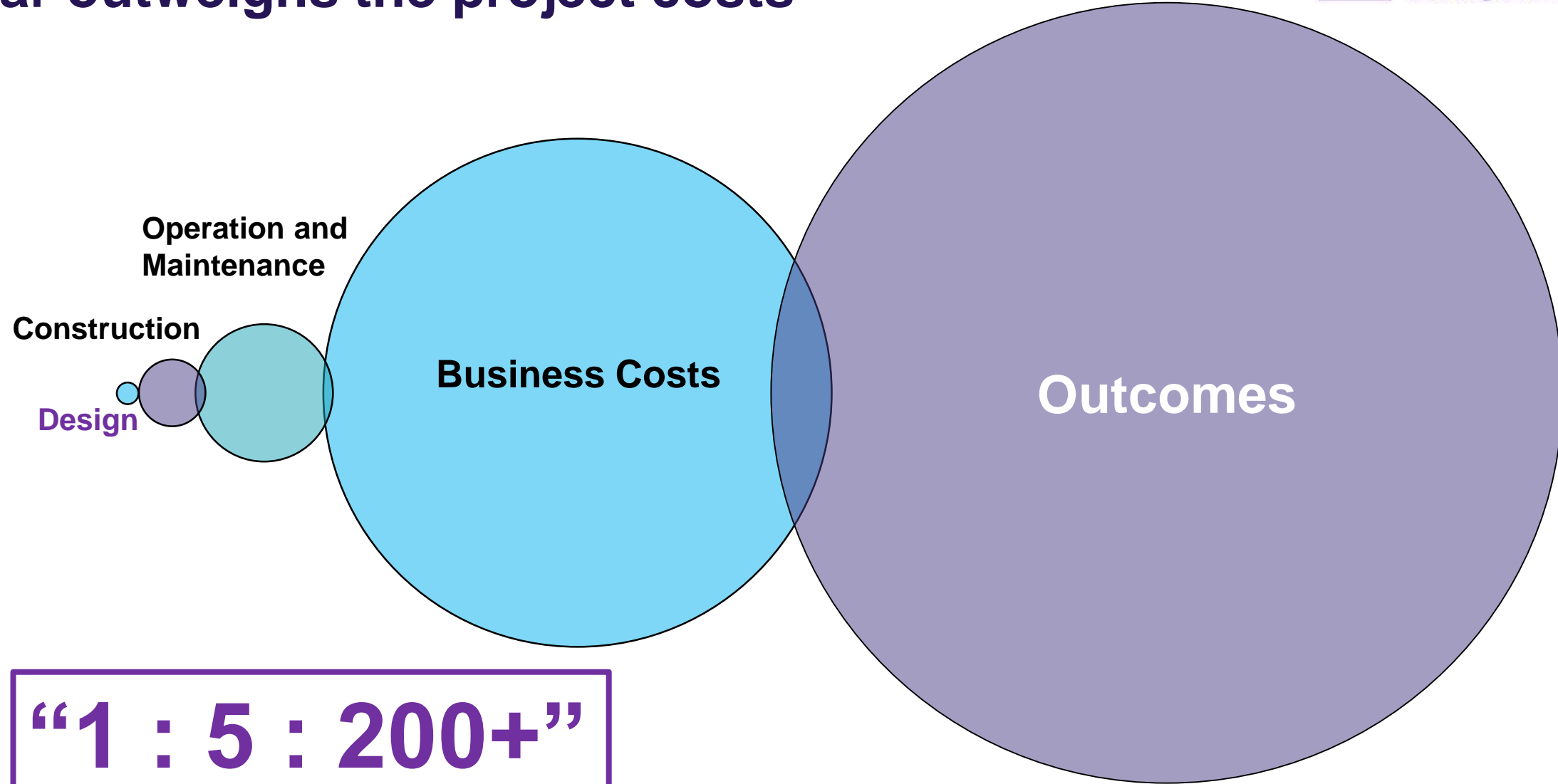


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# The value of client outcomes far outweighs the project costs



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# Achieving Vision 2025

- ⇒ **Respect for people**
  - ⇒ **Collaborative working**
    - ⇒ **BIM**
    - ⇒ **Lean, Industrialisation**
    - ⇒ **Value in use**
    - ⇒ **Sustainability**



# National members

## Clients at the heart



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# National members

## Clients

BAE Systems  
BBC  
Birmingham City Council  
Crossrail  
East Riding of Yorks Council  
EDF Energy (NNB)  
Environment Agency  
Heathrow Airport  
Highways Agency  
Igloo Regeneration  
Imperial College  
Lambeth Living  
London Underground  
Magnox  
Nationwide Building Society  
Northumbrian Water  
NuGen  
ProCure 21  
Quintain  
Rochdale Boroughwide

Royal Mail Group  
Sandwell MBC  
SCAPE  
Scottish Water  
Westfield Group  
Worthing Homes  
Yorkshire Water

## Contractors

Balfour Beatty  
Bowmer & Kirkland  
Cara  
Dawnus  
Higgins  
Interserve  
ITC Concepts  
Keltbray  
Kier  
Mace  
McGee  
Morrison Galliford Try  
Skanska  
Willmott Dixon

## Consultants

Advance  
Aecom/Davis Langdon  
Capita Symonds  
CH2M Hill  
Coaction Management  
CWC  
DBD  
FaulknerBrowns  
Invennt  
LCMB  
Room4 Consulting  
Synaps  
ThurLOW Associates  
Trowers & Hamlin  
Turner & Townsend  
Waterman  
Wragge



## Manufacturers & Suppliers

4Projects  
Astins  
Coubari  
Graphisoft  
Knauf Drywall  
Management Process Systems  
Polypipe Terrain  
Structural Timber Association  
Tekla  
Waterloo Air Products

## Associates

BRE  
British Property Federation  
Chartered Institute of Building  
Glenigan  
Institute of Collaborative Working  
UK Green Building Council  
University of Reading

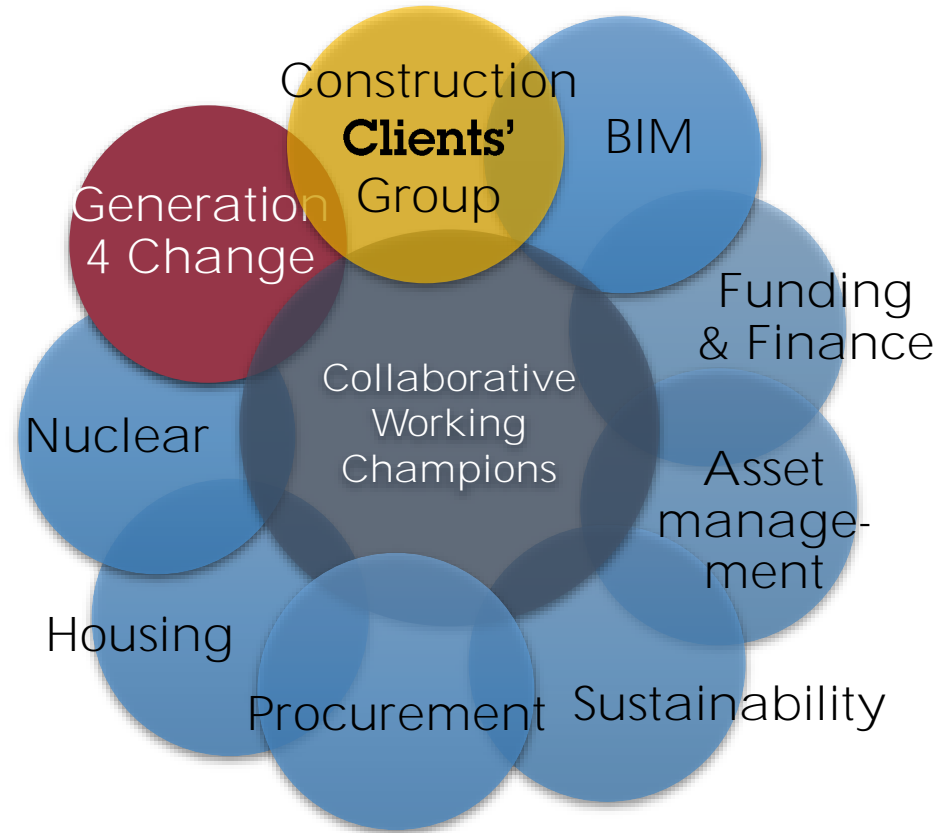


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# National theme groups



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# Suggested 'calendar' of themes

Dates 2015-16	Theme
April – June	People
July – Sept	Smart
Oct – Dec	Sustainable
Jan – March	Growth
April - June	Leadership



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# Adding value by delivering *Construction 2025*



<b>Leadership</b>	CE Vision 2025 <b>Construction Clients' Group (CCG)</b> Regional & National Awards series	Infrastructure Development (MBS) <b>Nuclear TG</b>	<b>Lower costs</b> <b>33%</b> <small>reduction in the initial cost of construction and the whole life cost of built assets</small>
<b>People</b>	<b>G4C</b> Leaders 4 The Future (G4C) CELL qualifications and training	<b>CCG Health &amp; Safety TG</b> CEHE universities network	<b>Lower emissions</b> <b>50%</b> <small>reduction in greenhouse gas emissions in the built environment</small>
<b>Smart</b>	<b>Collaborative Working Champions TG</b> <b>BIM TG</b> <b>BIM<sup>4</sup>Housing TG</b> G4C big/open data project with BRE	<b>Procurement TG</b> Procurement trials for Cabinet Office CEHE <b>CCG Defects TG</b>	<b>Faster delivery</b> <b>50%</b> <small>reduction in the overall time, from inception to completion, for newbuild and refurbished assets</small>
<b>Sustainable</b>	<b>Sustainability TG</b> <b>Funding &amp; Finance TG</b>	<b>Asset management TG</b> <b>Social value TG</b>	<b>Improvement in exports</b> <b>50%</b> <small>reduction in the trade gap between total exports and total imports for construction products and materials</small>
<b>Growth</b>	SMEs, especially via CE Regional Network and local Best Practice Clubs	CE International	

TG = national Theme Group



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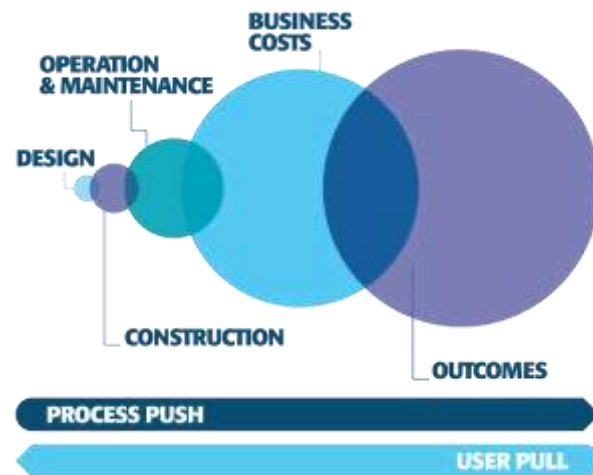
# “Better together”

Better ideas and inspiration

Better evidence and intelligence

Better conversations and connections

Better influence and leadership



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Tue 26/05/2015 11:29

survey-noreply@smo.surveymonkey.com on behalf of  
michelle.brennan@projectfiveconsulting.co.uk via surveymonkey.com <member@surveymonkey.com>

**Barriers to Performance in the Construction Industry**

To Don Ward

Dear Sir,

Thank you for agreeing to take part in the Barriers to Performance survey being conducted by Project Five Consulting on behalf Constructing Excellence. Please find the link to the survey here:  
[https://www.surveymonkey.com/s.aspx?sm=hK\\_2fMI\\_2faM3fIZOO8KiySbpQ\\_3d\\_3d](https://www.surveymonkey.com/s.aspx?sm=hK_2fMI_2faM3fIZOO8KiySbpQ_3d_3d)

This link is uniquely tied to this survey and your email address. Please do not forward this message.

Thank you for your participation. If you have queries regarding the survey please do not hesitate to contact me.

Please note: If you do not wish to receive further emails from us, please click the link below, and you will be automatically removed from our mailing list.  
[https://www.surveymonkey.com/optout.aspx?sm=hK\\_2fMI\\_2faM3fIZOO8KiySbpQ\\_3d\\_3d](https://www.surveymonkey.com/optout.aspx?sm=hK_2fMI_2faM3fIZOO8KiySbpQ_3d_3d)



## Barriers to Performance in the Construction Industry - Delphi Survey

### Purpose of the Survey

As the UK economy continues to strengthen, so too does the expectation for construction output. There are extensive opportunities for the UK construction and engineering sectors as a result of significant investment in new and existing infrastructure through to 2025 and beyond. Government efforts have also helped to boost private finance helping the UK enter the top 10 most attractive markets for infrastructure investment. The Government's Construction Pipeline has been developed to provide greater certainty to the supply chain to improve skills and recruitment planning, smooth out peaks and troughs and to encourage innovation. As a global market player, we need to ensure that we stay ahead of the game. Yet despite a number of successful projects in the last few years leading to growing confidence in the UK construction industry, overall productivity and performance are perceived to be low leading to costs in the UK being greater than our EU counterparts.

Innovation is seen as the route to greater efficiency and therefore greater productivity, something the UK construction industry at present is perceived to be lacking. This survey seeks to identify what the industry perceives these barriers to be and provide an indication of the ways in which the sector believes these issues can be addressed.

Your participation in the survey is greatly appreciated and is completely anonymous. The findings from the survey will be used to produce a report on behalf of Constructing Excellence to be distributed among CE members and circulated to wider industry.

Next

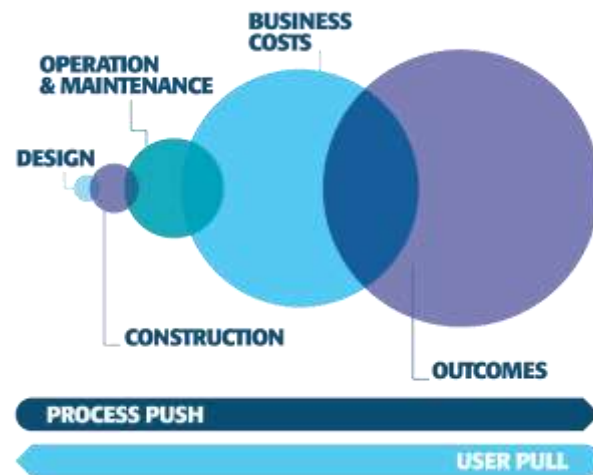
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