

Cutting Carbon Costs: Our Big Energy Battle

Closing the Skills Gap

Russell Smith

8th November 2011, LSE



Introduction

- What skills gap?
- When does it become critical?
- Barriers to idealised delivery (hence ‘skills’)



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Making your house an eco house

By William Mach
Last Updated: 12:01am BST 18/06/2007

Have your say Read comments

Much of Britain's new housing stock is being made more environmentally friendly but what about older properties?

Can similar high standards and specifications be applied when renovating existing and older houses and flats?

The trouble is not many people have the know how or the inclination to take such projects on.

But turning a 19th Century end of terrace £200,000 house into an ecohome of the future was a labour of love for Russell Smith.



Russell Smith outside his Victorian eco-house in Sutton, Surrey; Making your house an eco house



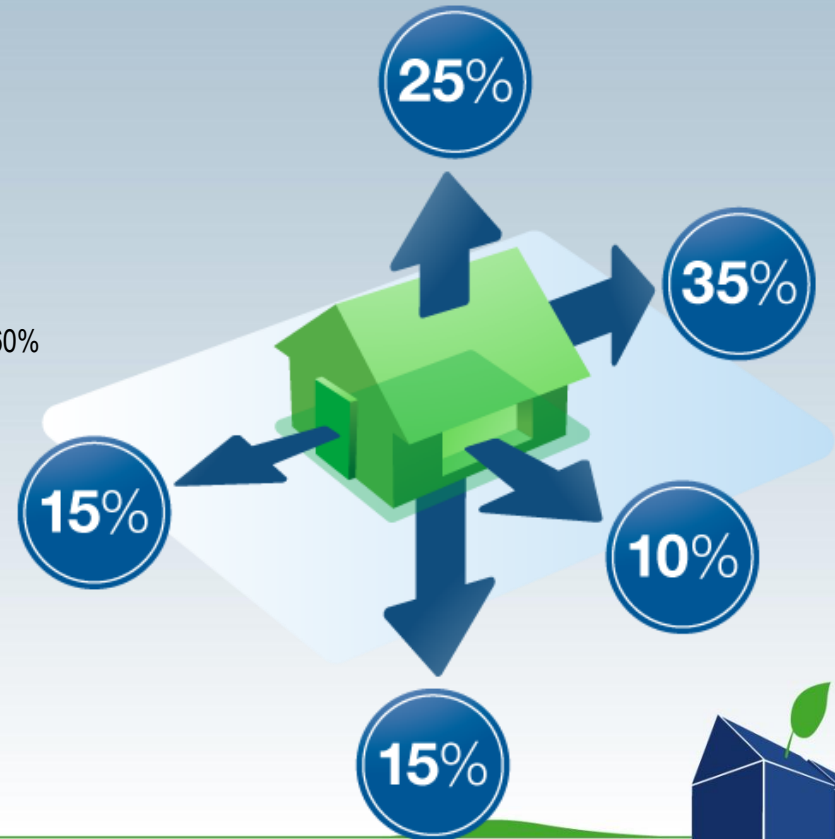
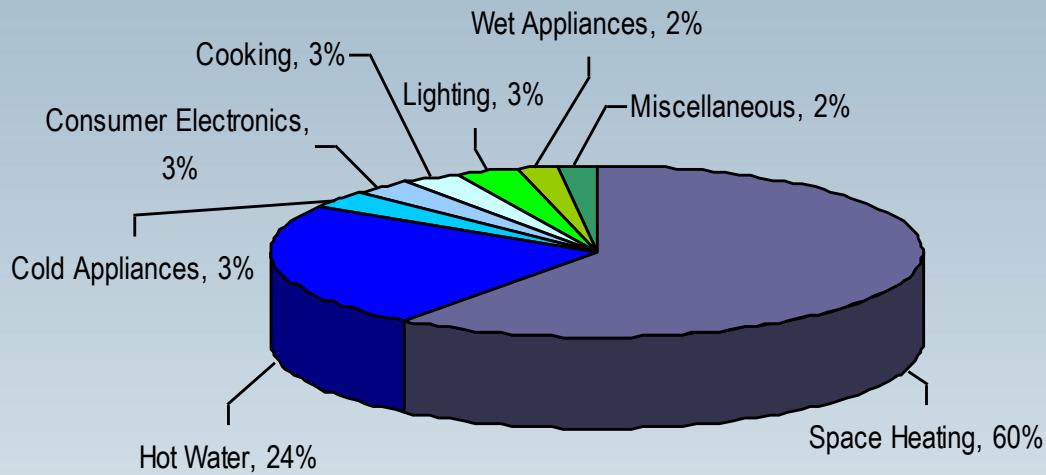
Winners of Building Magazine's 2007 Award for Sustainable Refurbishment



- Deeply assessed over 600 private homes
- Stock assessed 150,000 private homes
- Stock assessed 125,000 RSL homes across the UK
- Led on independent assessments of homes in PAYS pilot
- Led EST training trial on Solid Wall Insulation for Installers
- In team for 'Camden Retrofit' and Hyde's 'Court Farm Rd'
- Involved with 18 TSB RFF houses
- Lead on DECC 'Low Carbon Communities' loan scheme in Hampshire
- Trained over 350 individuals and 80 SMEs
- Affinity Sutton – 153 house monitoring programme
- In DECC Green Deal Task Groups
- Trustee of Sustainable Energy Academy

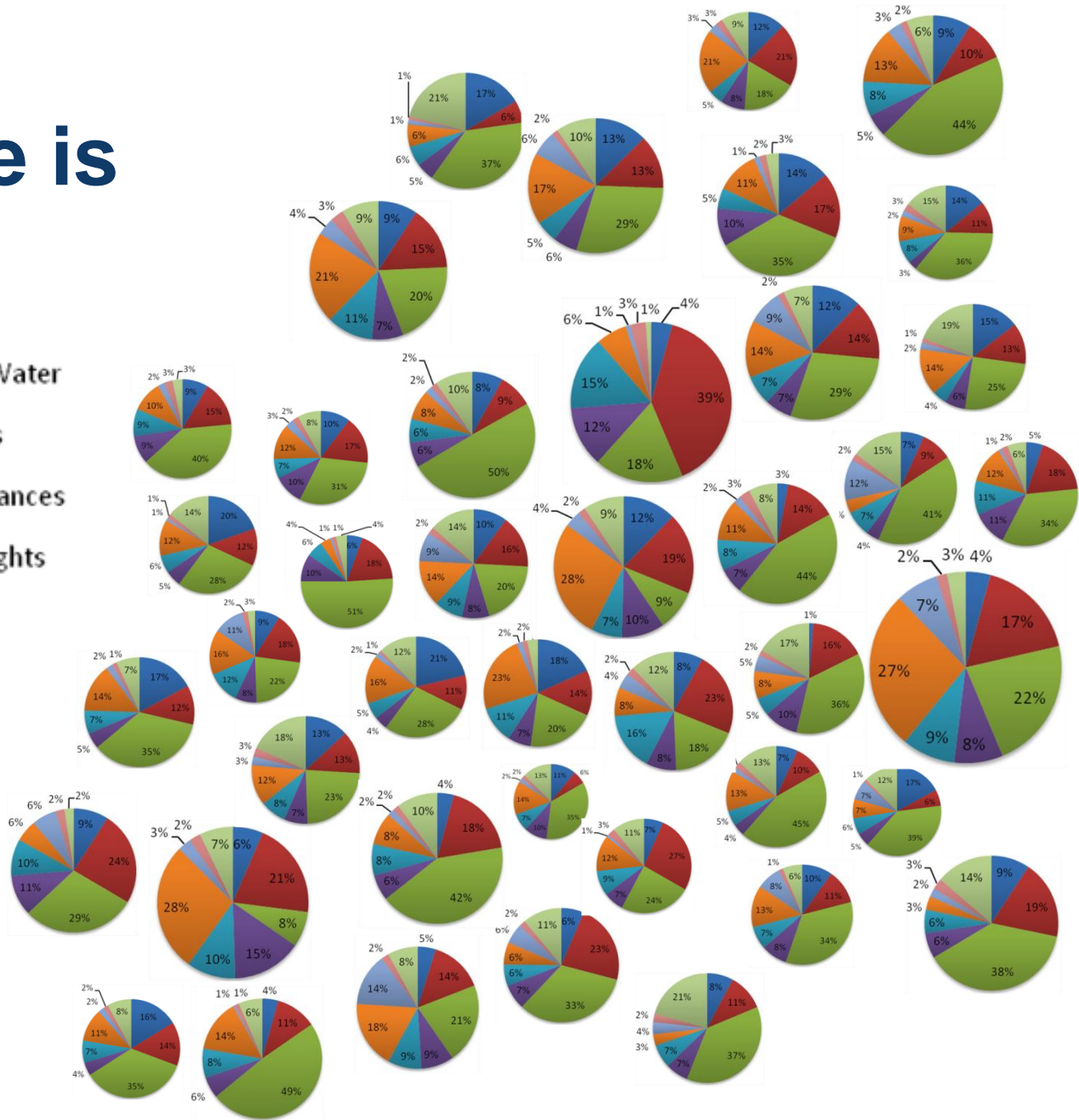


The Size of the Problem



Every home is Unique

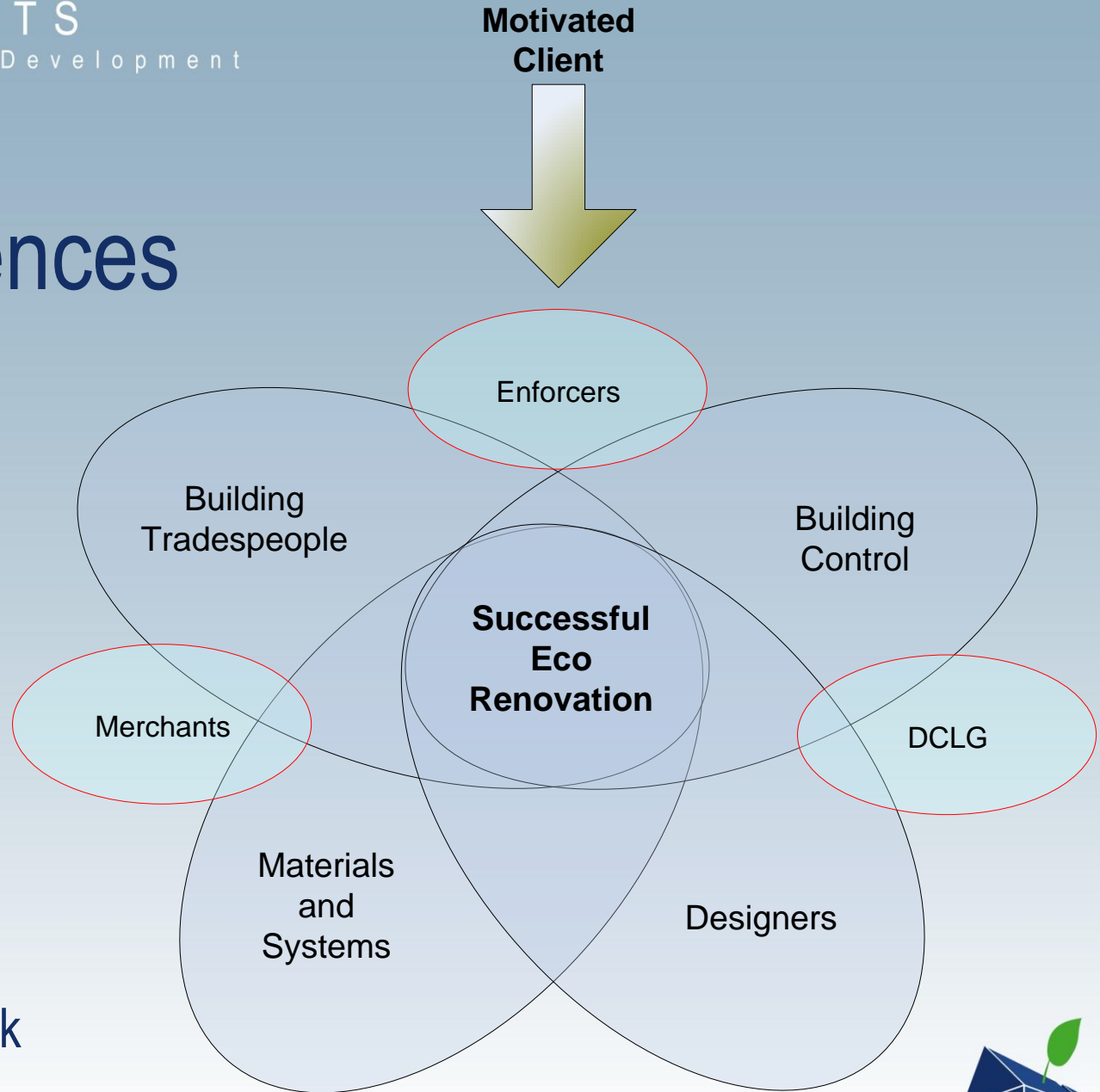
- Windows/Doors
- Heating inefficiency
- Roof
- Floor
- Lights
- Hot Water
- Walls
- Appliances
- Draughts



Who Influences Change?

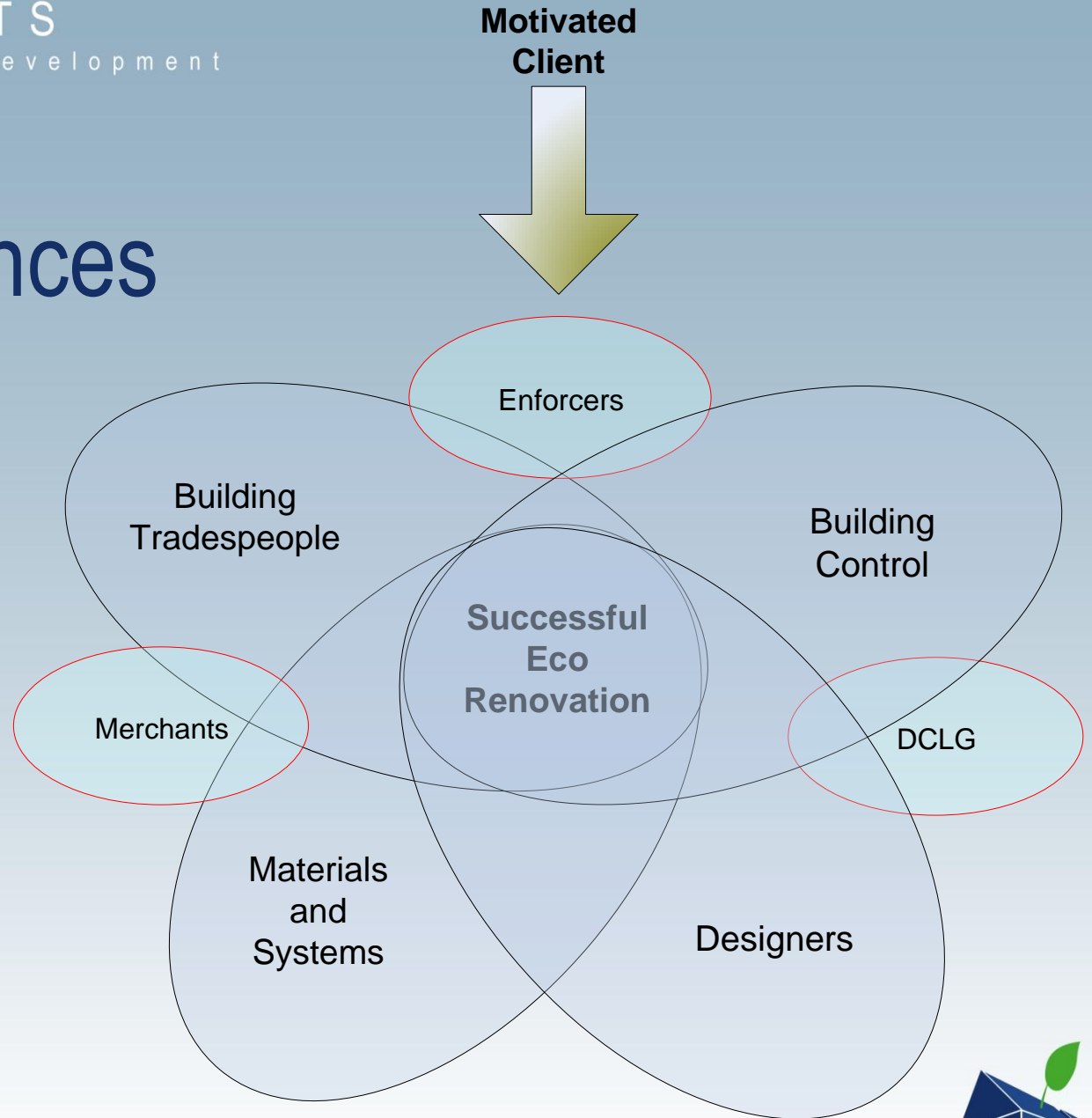
Major Interventions

- Development
- Extensions
- Insurance Work



Who Influences Change?

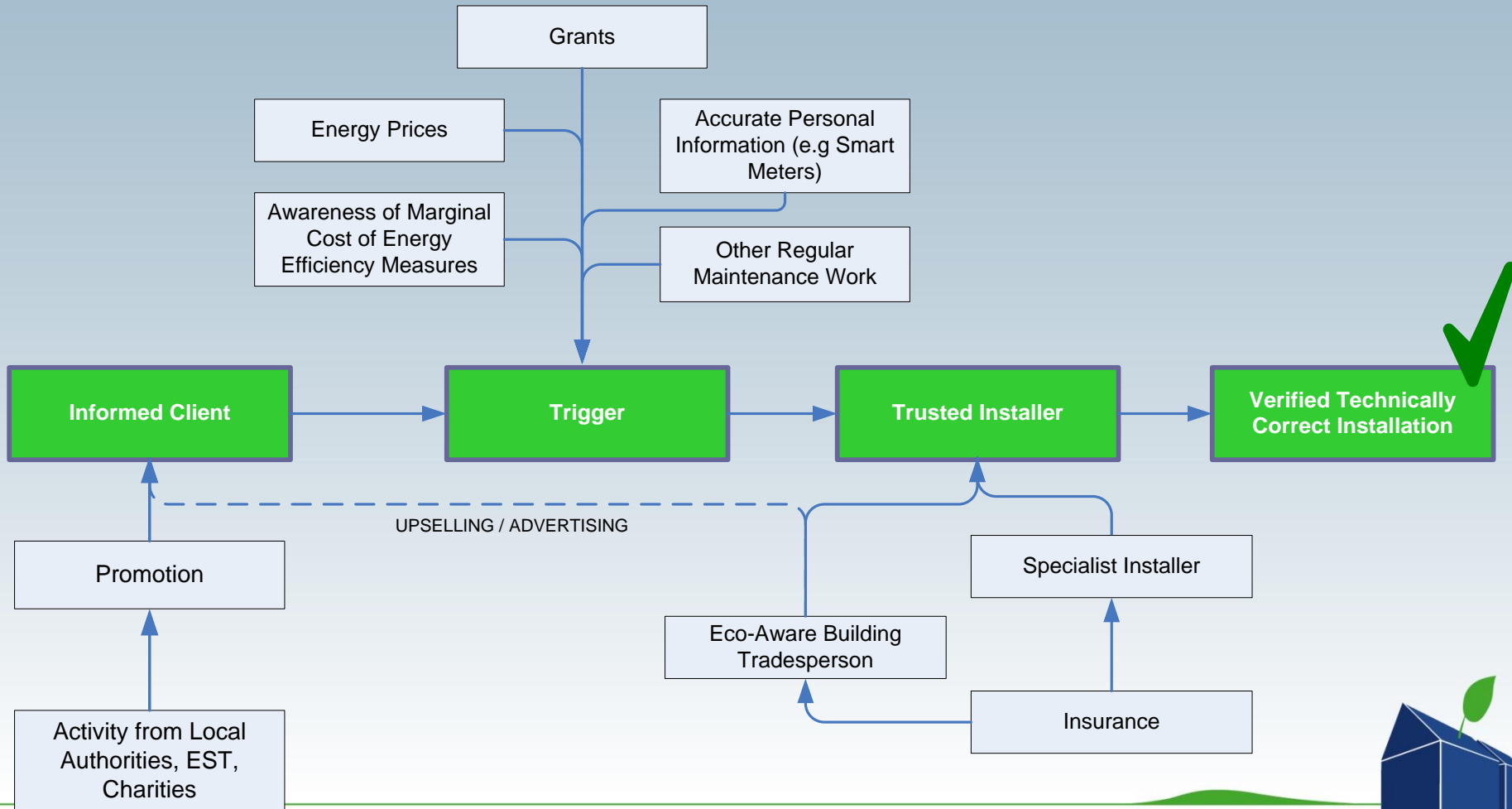
- Minor Interventions
 - Faults, Repairs
 - Redecoration
 - Obsolescence
 - Fashion



Motivating Concurrent Working



Supply Chain 2020 ?

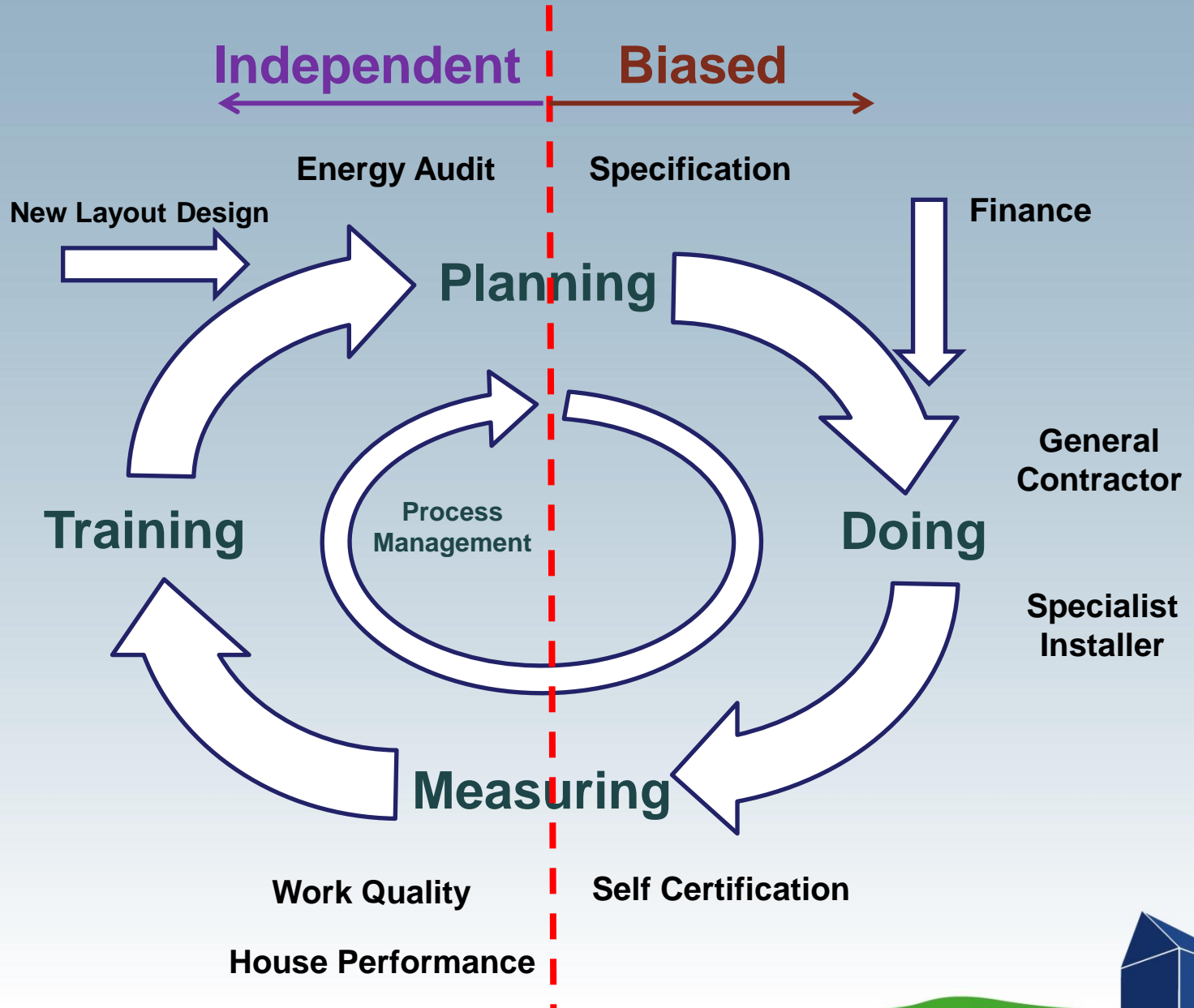


Getting to 2020

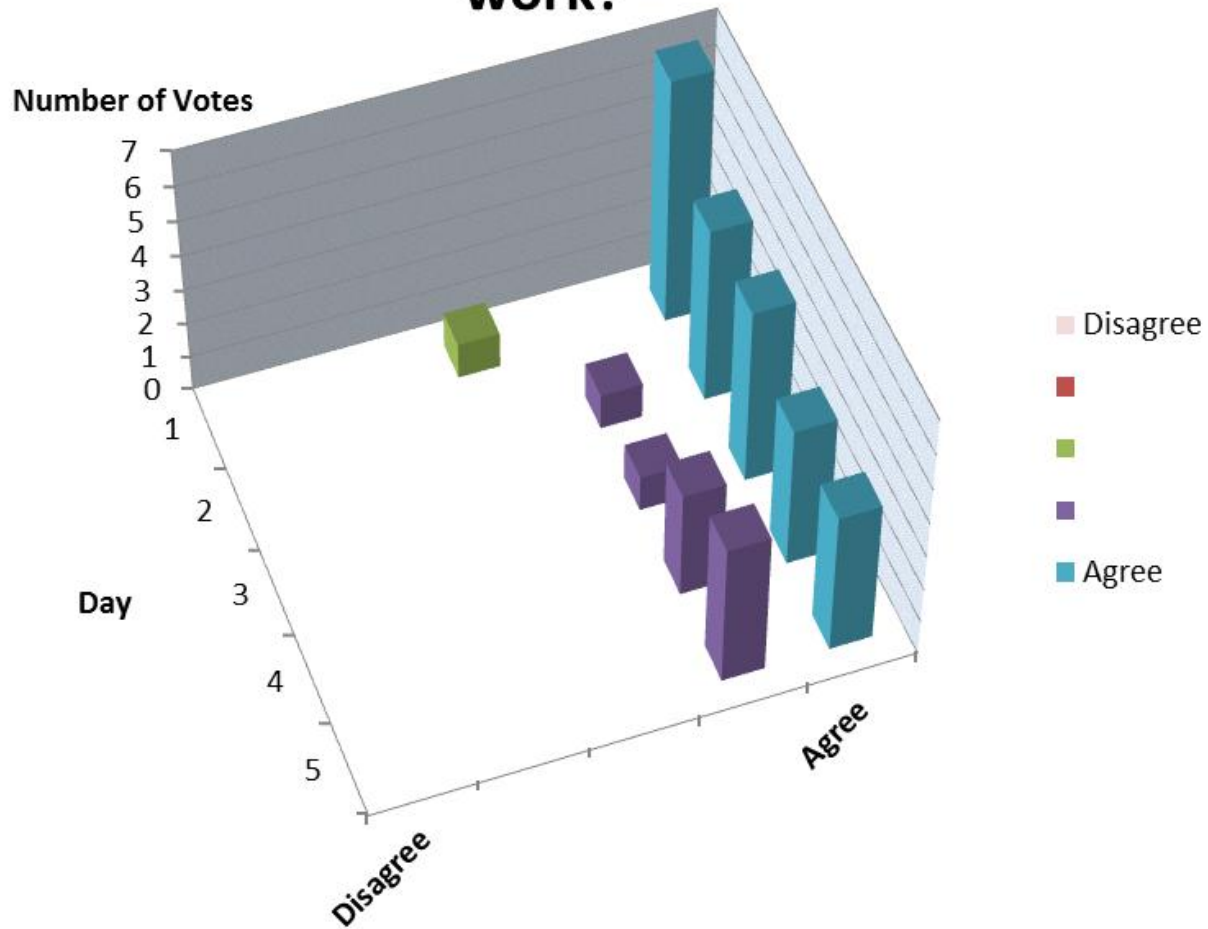


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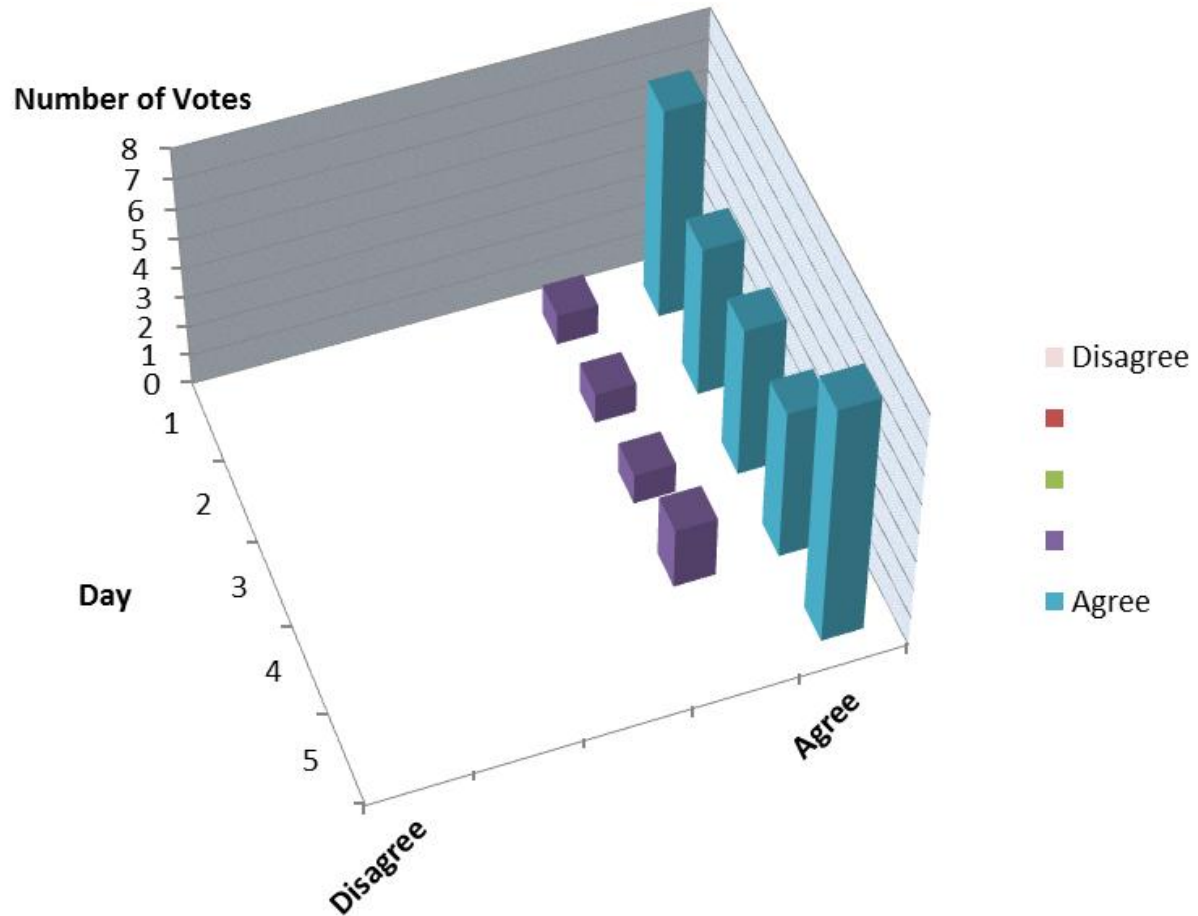
Delivering Sustainable Development



This session will add value to your everyday work?



This content is necessary to ensure the industry makes the changes necessary for the new market



When Do Skills Become Critical?

- Two parameters
 - Demand pull
 - Sufficient capacity
- Green Deal, October 2012
- Aim for all lofts and cavities filled by end 2016
- F/G Rated properties - 2018
- The issue is now – we are responsible for demand



Barriers to Training (Industry) Evolution

- The education system (!)
- Training - Sector Skills Council
- Market protection
- Inability to collaborate across sectors
- Certainty of market – what now after FiT?
- We need a core central message – ‘Branding’ – of retrofit
- The Green Deal blinkers
- Standards – Dazed and Confused
- We are not 100% on training content



Summary

- No skills gap 'per se' – gap in practical leadership
- Skills? Knowledge and confidence!
- We need integrated UK strategies
- This is not the Green Deal agenda – the is a Retrofit/Energy/Stability agenda

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Demo House Open Day
This Sunday - 13th November



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