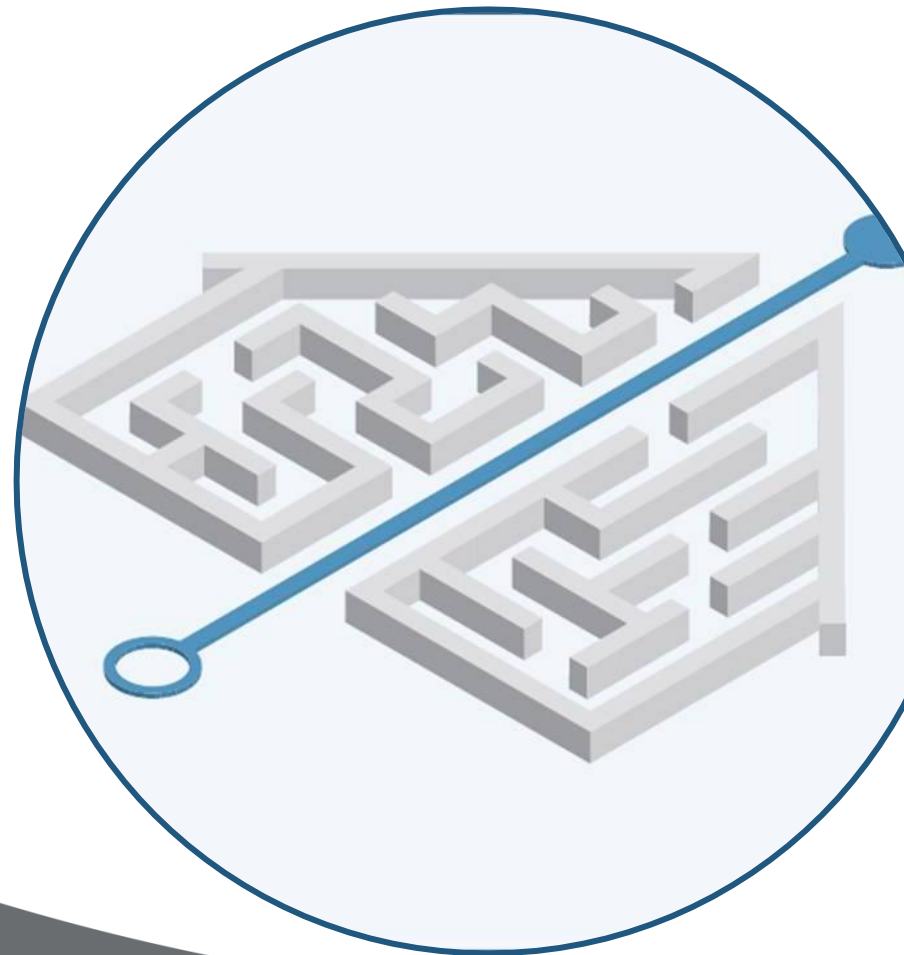


ZERO CARBON HOMES POLICY CONTEXT

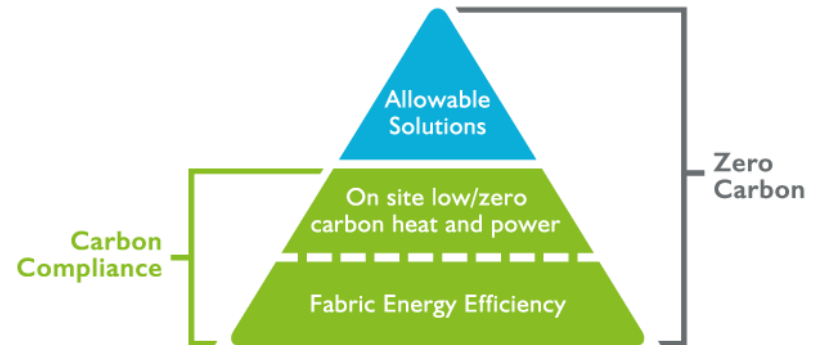
Ross Holleron, Projects Director
24th June 2015



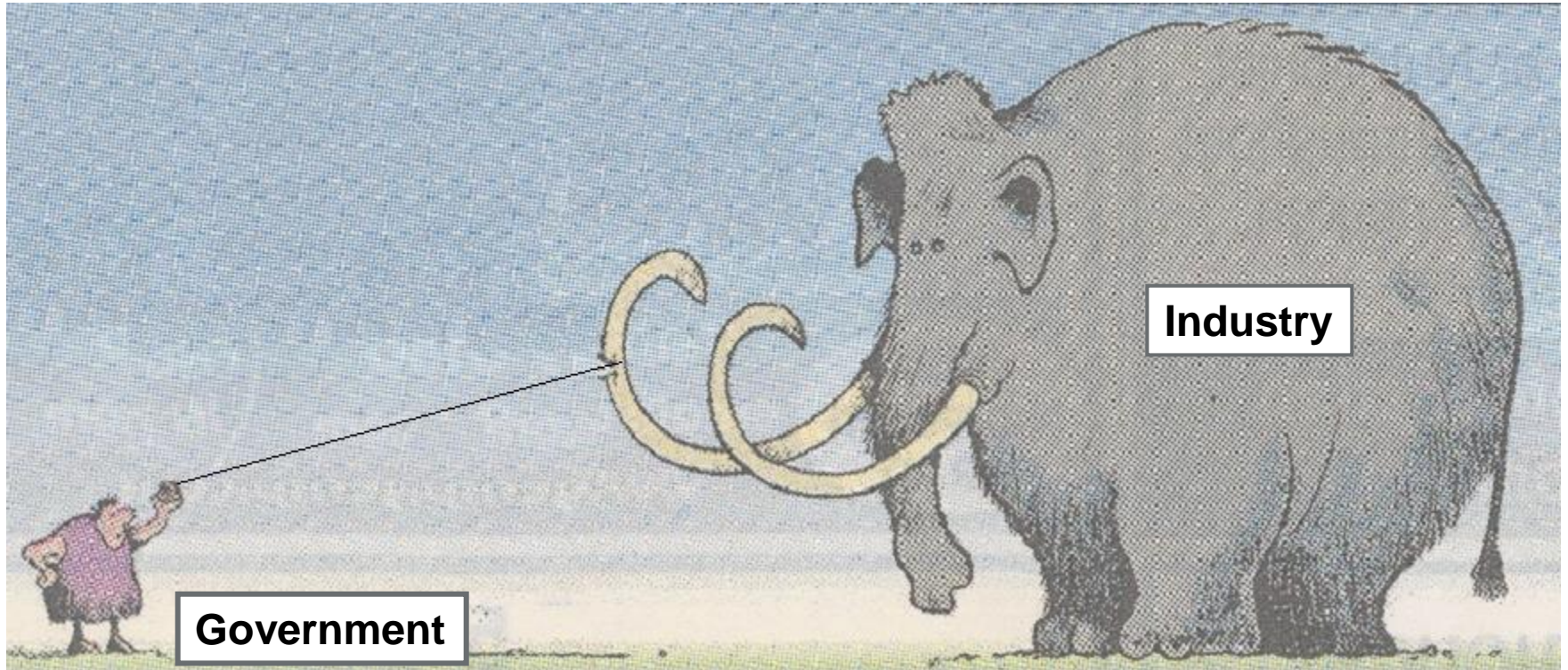
Role of the Zero Carbon Hub

Facilitate mainstream delivery of low & zero carbon homes

- Work with industry & government
- Understand risks and challenges
- Disseminate information

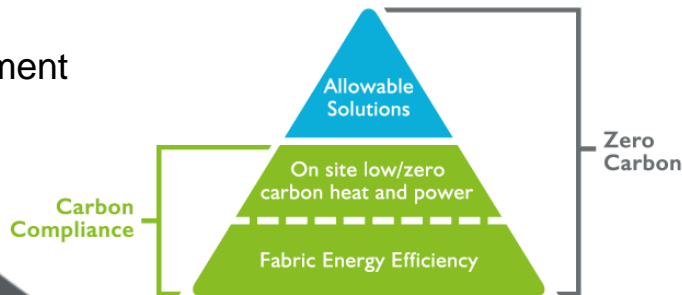
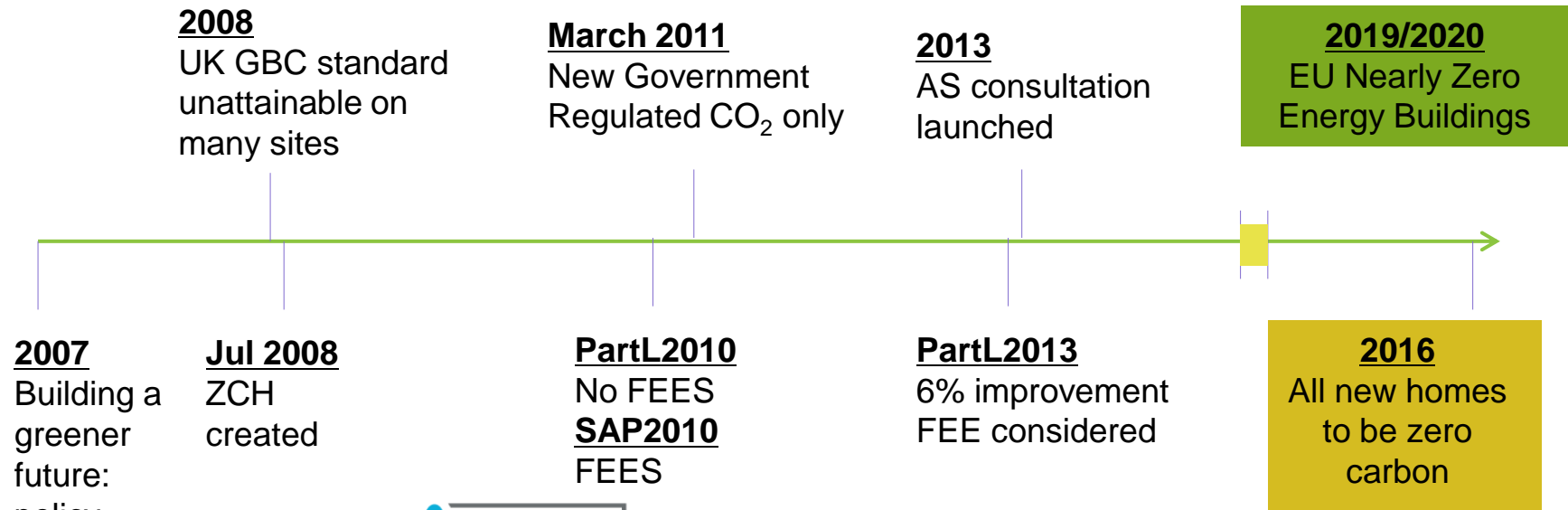


Where are you?



2016

THE JOURNEY SO FAR.....

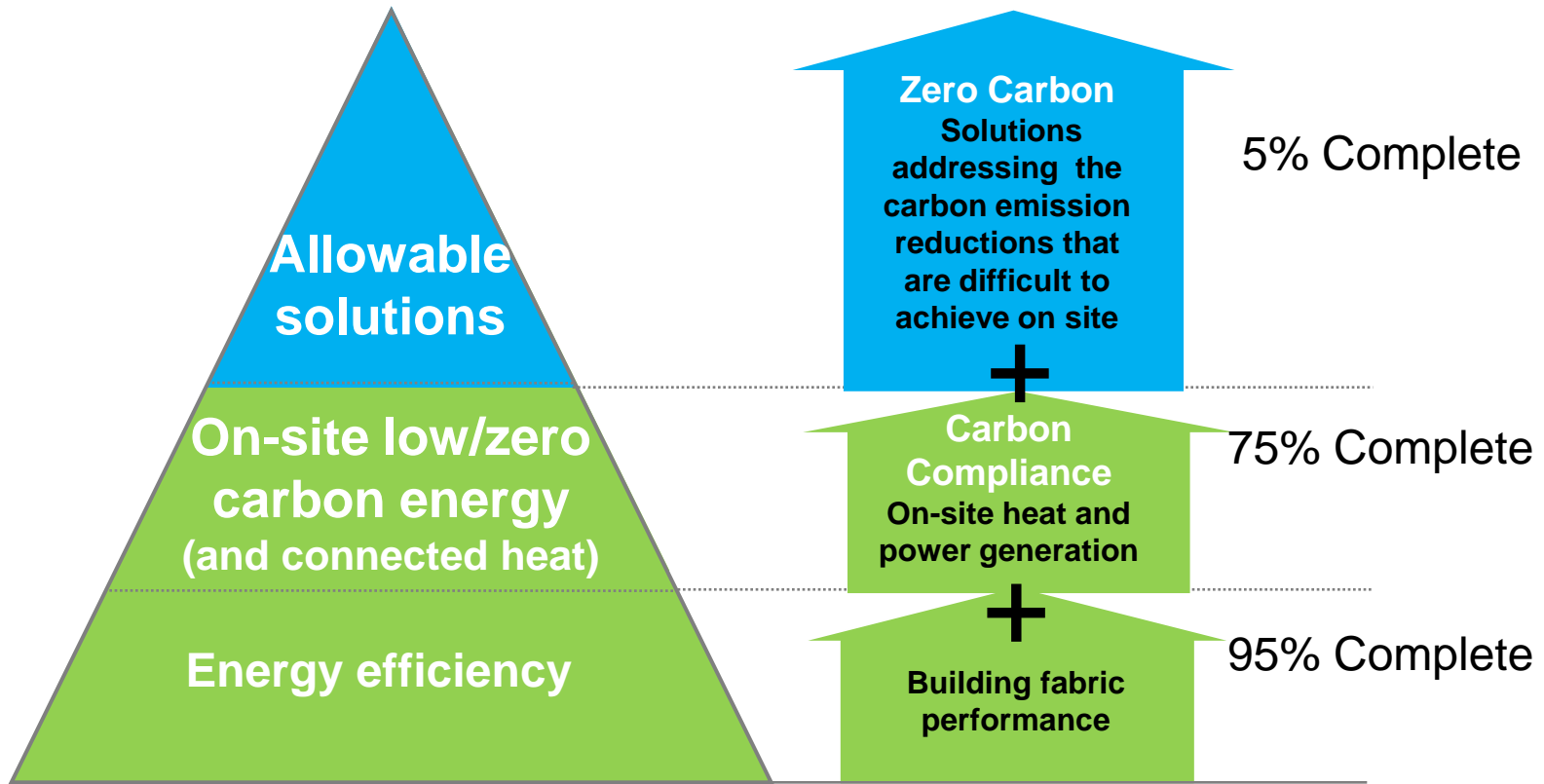


Government Policy

Zero Carbon 2016



MEETING ZERO CARBON TARGETS

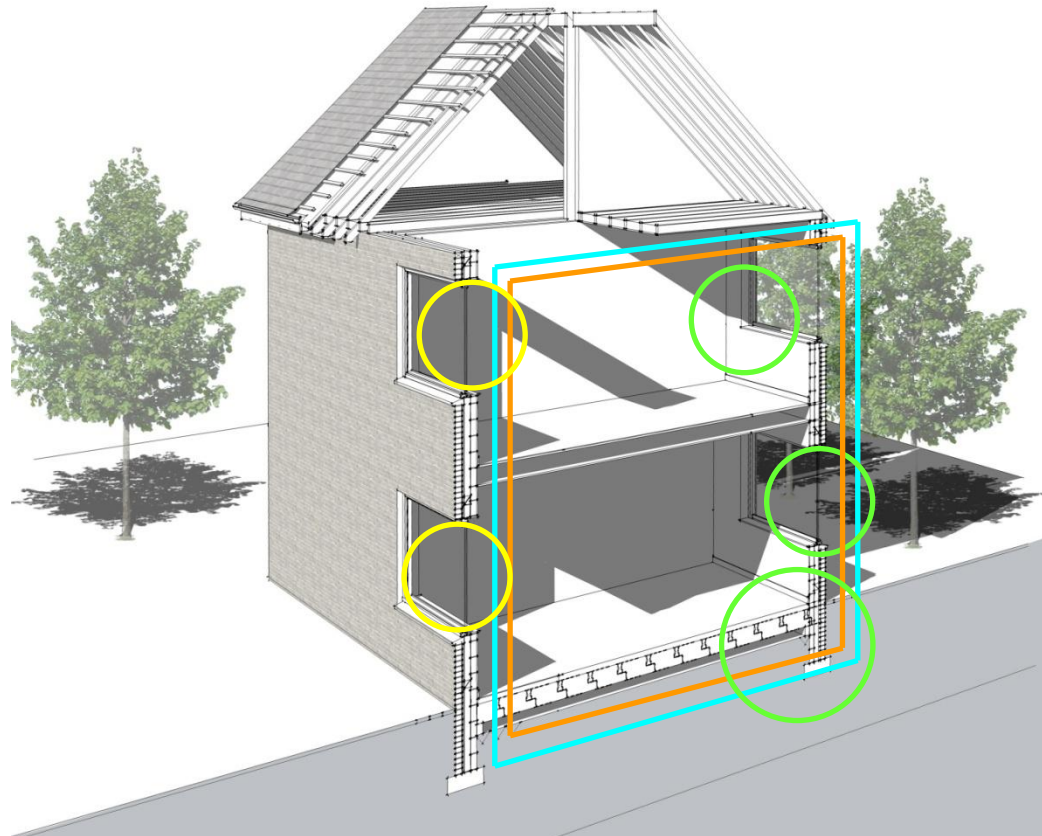


The Zero Carbon Hierarchy



THE FABRIC ENERGY EFFICIENCY STANDARD

-  Building Fabric:
U-values
Thermal mass
-  Thermal Bridging
-  Air-permeability
-  Orientation, solar gains,
Glazing proportion

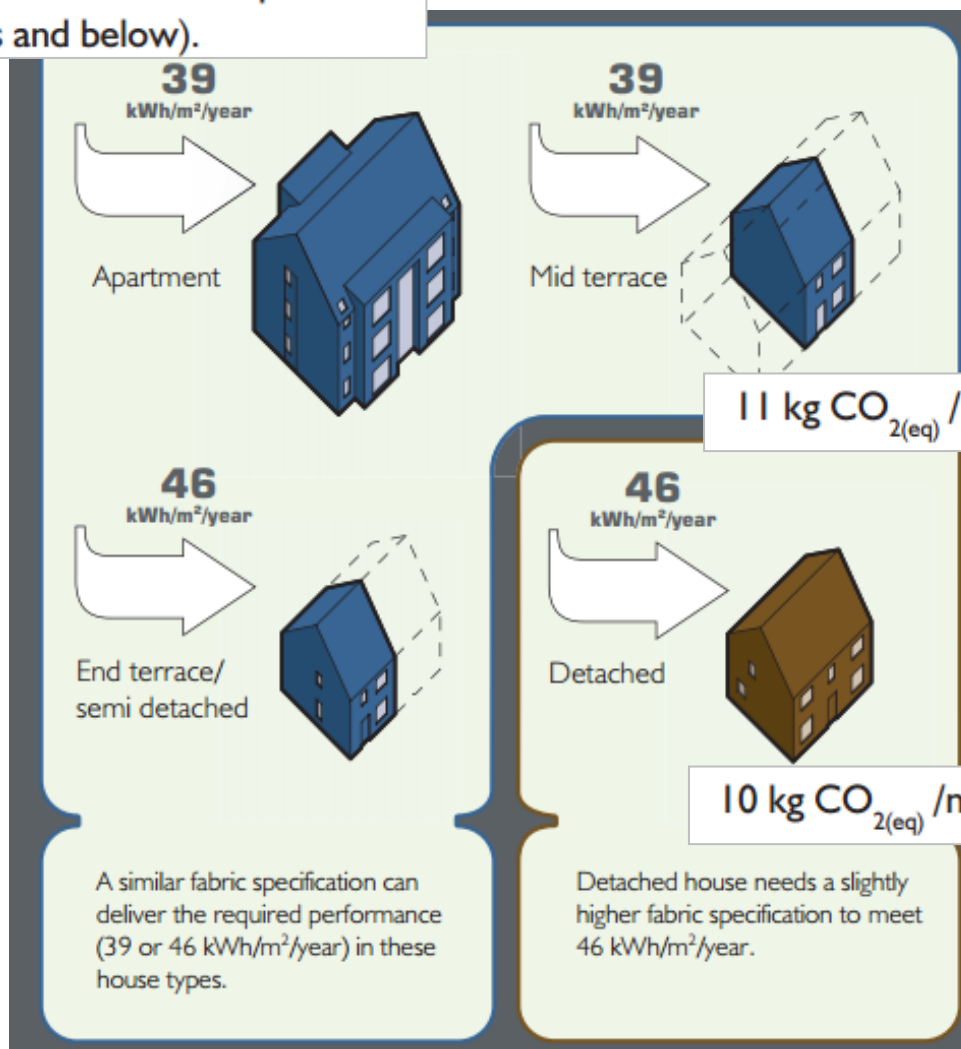


Fabric Energy Efficiency Standard (kWh/m²/yr)

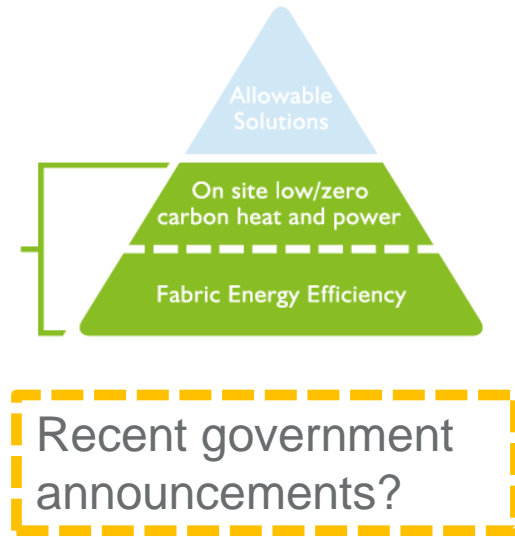
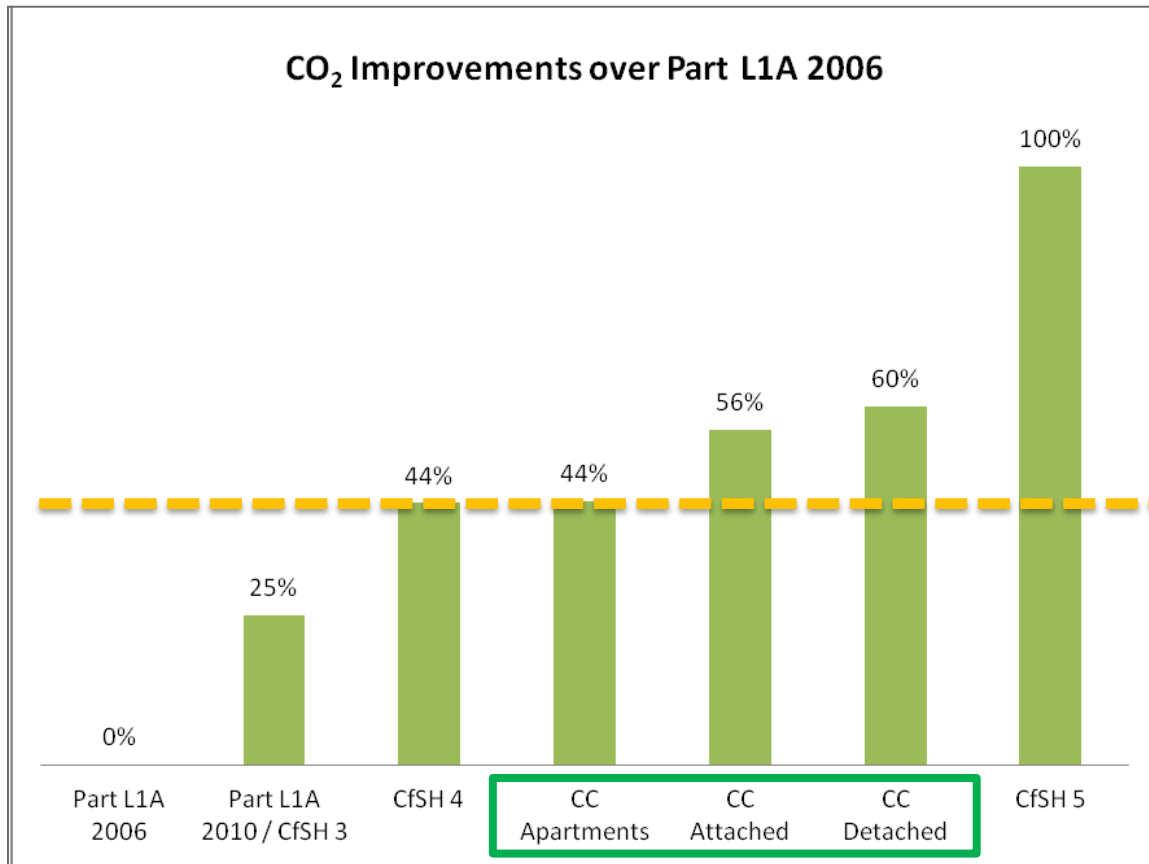


- Current practice (CP)
 - CP + No heat loss through party wall
 - ◆ Spec A
 - ◆ Spec B
 - ◆ Spec C-
 - ◆ Spec C (EST APEE)
 - ▲ Spec D (PassivHaus Equivalent)
 - Task Group's Recommended Level
- Increasing fabric performance

14 kg CO_{2(eq)} /m²/year for low rise apartment blocks (four storeys and below).



ZCH recommendations



Ultimately subject to full Part L 2016 consultation



Allowable Solutions

100% On site

Beyond Carbon
Compliance



D.I.Y

Retrofit, heat networks

3rd Party
Contracting
Direct, LA, matching,
brokerage

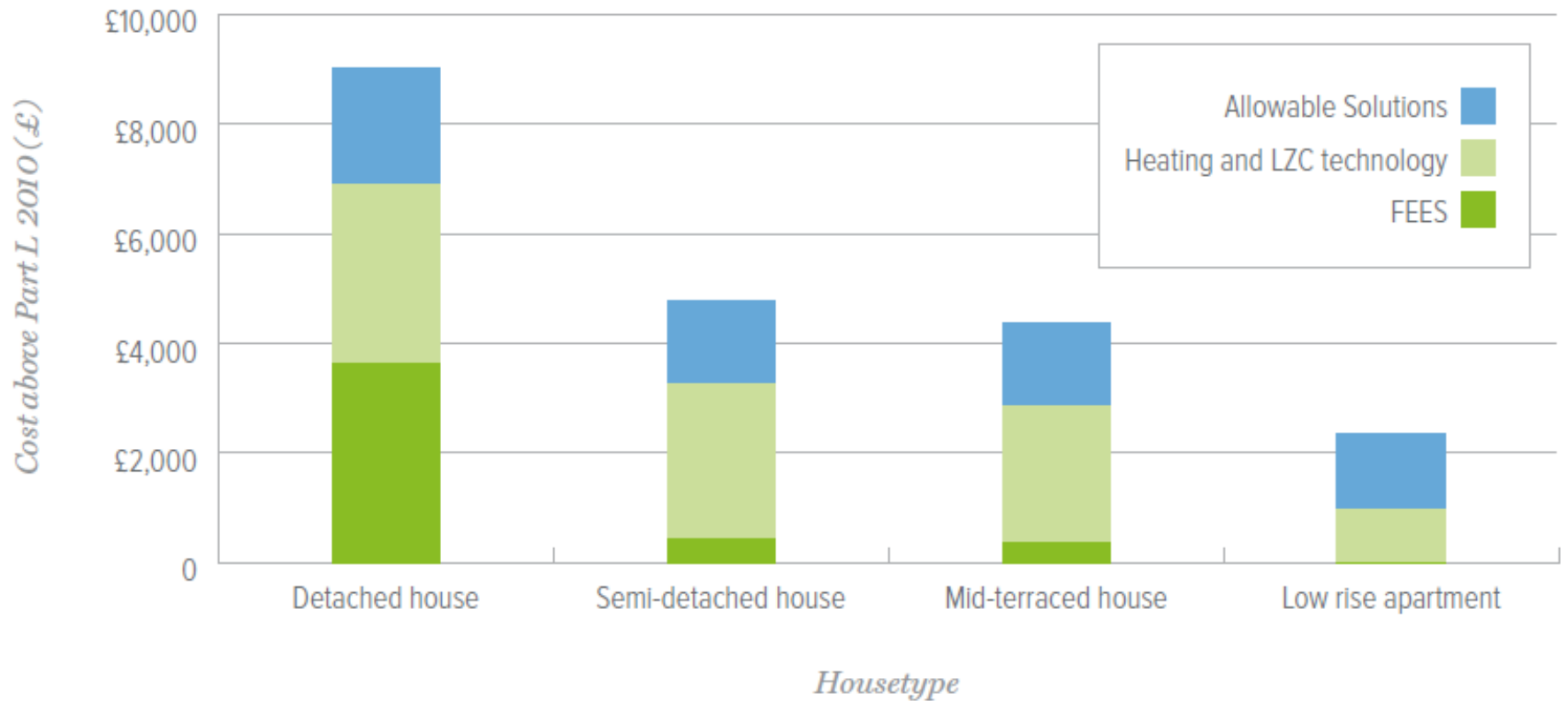
Invest in a Fund

Managing a portfolio of
projects

**Small site exemption announced
(10 units or less)**

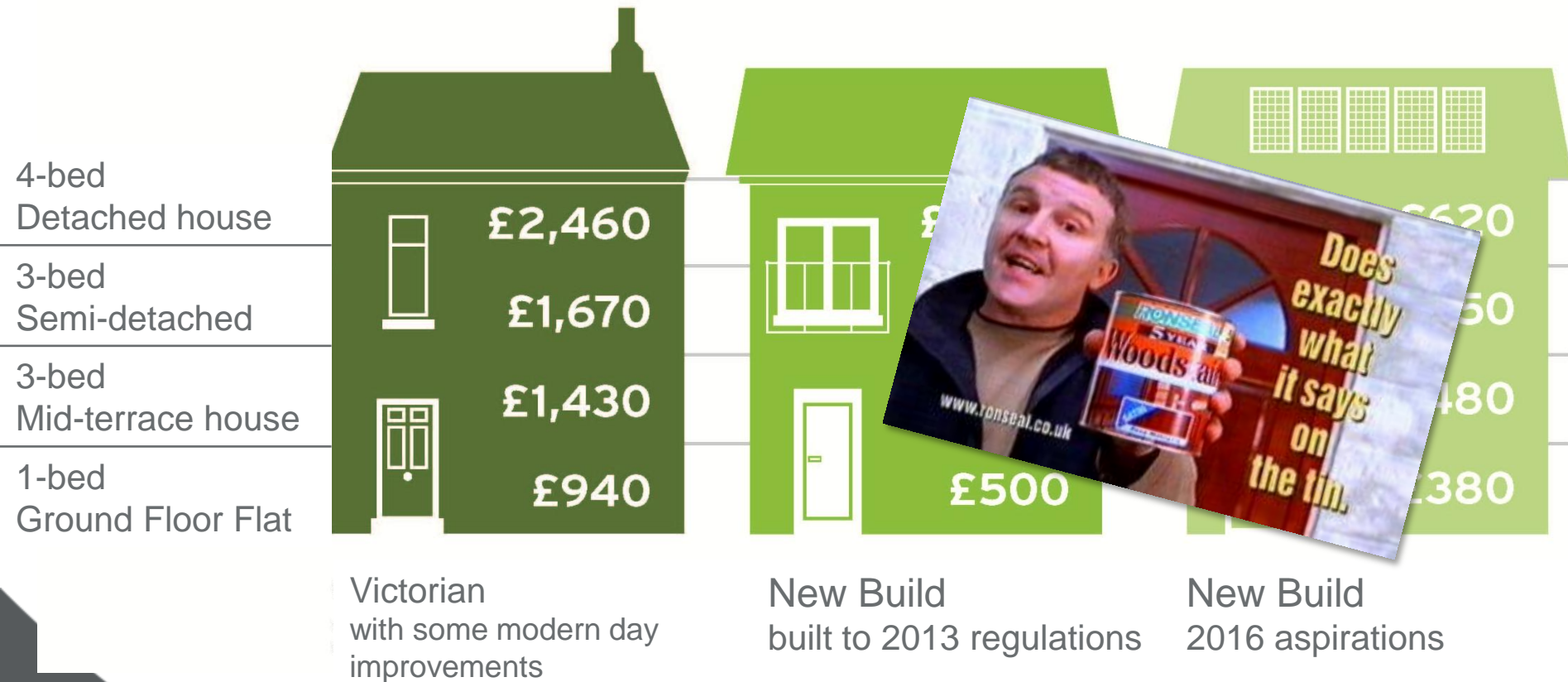


Cost to achieve Zero Carbon Standard

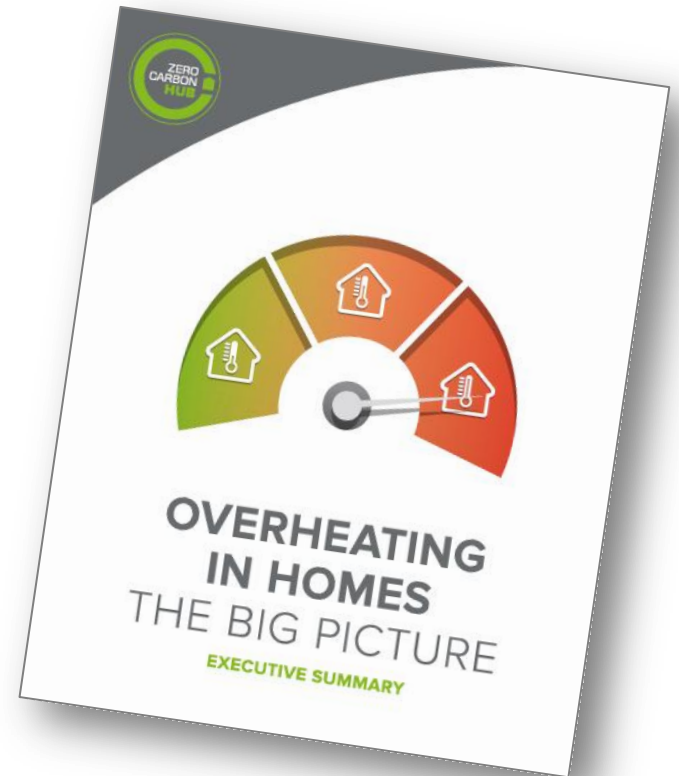


- Design Includes:**
- FEES standard
 - Efficient gas boiler
 - Photovoltaics
 - Allowable Solutions

Annual Household energy spend....



Unintended consequences?



Raising awareness and knowledge



LOW ENERGY KNOW HOW

Delegates will be presented with the most recent information on the Zero Carbon journey and definition, plus the latest on both the Performance Gap project and the cost of meeting the Zero Carbon standard.

The event will provide practical knowledge to meet regulations as Saint-Gobain will be presenting information on a number of product solutions designed to meet the Zero Carbon target.

Forthcoming Events

8th July	Cardiff, Wales
15th July	Llandudno, Wales
17th July	Eastleigh, South England
22nd Sept	Birmingham, Midlands
23rd Sept	Lake District, North West England
7th + 8th Oct	UK Construction Week, Birmingham
27th Oct	Liverpool, North West England
11th Nov	Greenbuild, Manchester




Innovate UK

Technology Strategy Board

The event promises to demystify the Performance Gap; and highlight the latest learning from local domestic and non-domestic Building Performance Evaluation projects.

In collaboration with Innovate UK, CITB and Constructing Excellence.

Event Dates and Locations

July	London
September	Scotland North East
October	Northern Ireland
November	North West South West Wales
December	Midlands
March	South West

Hear from our expert speakers on cutting edge research and knowledge.

For more information please visit our website: WWW.ZEROCARBONHUB.ORG



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Thank you

