

# Building Sustainability Excellence

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# Agenda

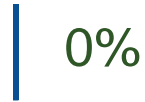
1. Introduction - *IH (2 minutes)*
2. What does sustainability mean to you? - *Ice breaker audience working in pairs (10 minutes)*
3. Defining sustainability for Home Builders? - *IH (5 minutes)*
4. What are home builders doing? *Case Study - Barratt Developments Plc (10 minutes)*
5. What will the industry be doing by 2030? - *Voting session on the following issues: (5 minutes)*
6. What is driving home builders to be more sustainable? - *Facilitated group exercise (15 minutes)*
7. Summary and next steps - *IH (2 minutes)*



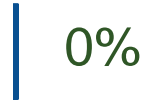
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# Who is your sustainability hero?

1 - Anita Roddick



2 - David Attenborough



3 - Michelle Obama



4 - Donald Trump



Ethics



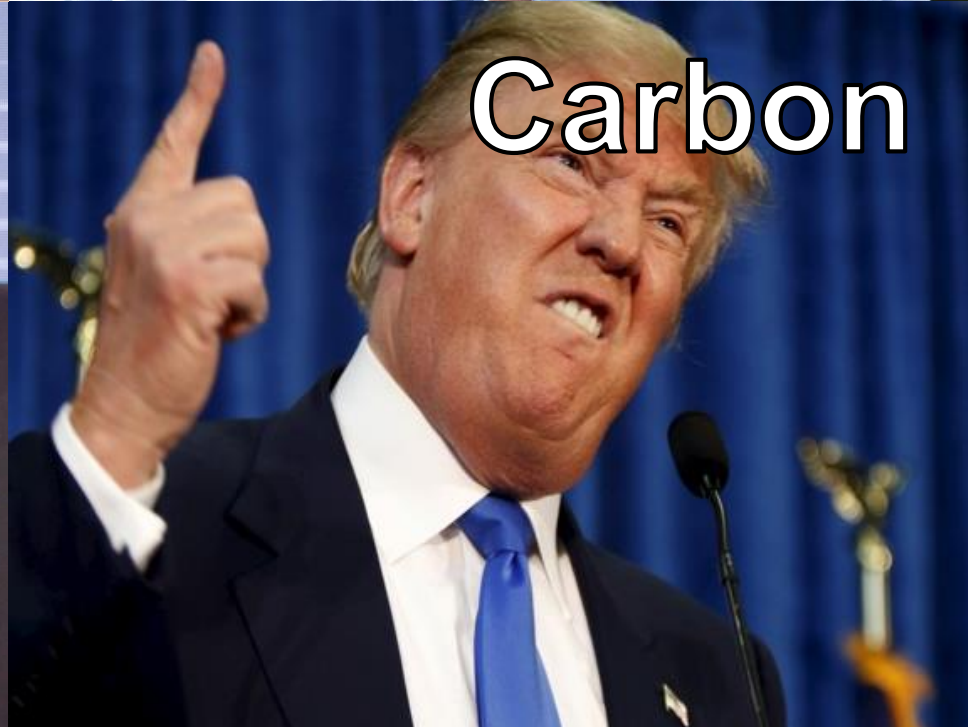
Waste



Social



Carbon



# What does sustainability mean to you?

## Exercise 1



# Sustainability?

Arrange yourselves into pairs and you have 30 seconds to explain:

- What sustainability means to your business?

Group Discussion

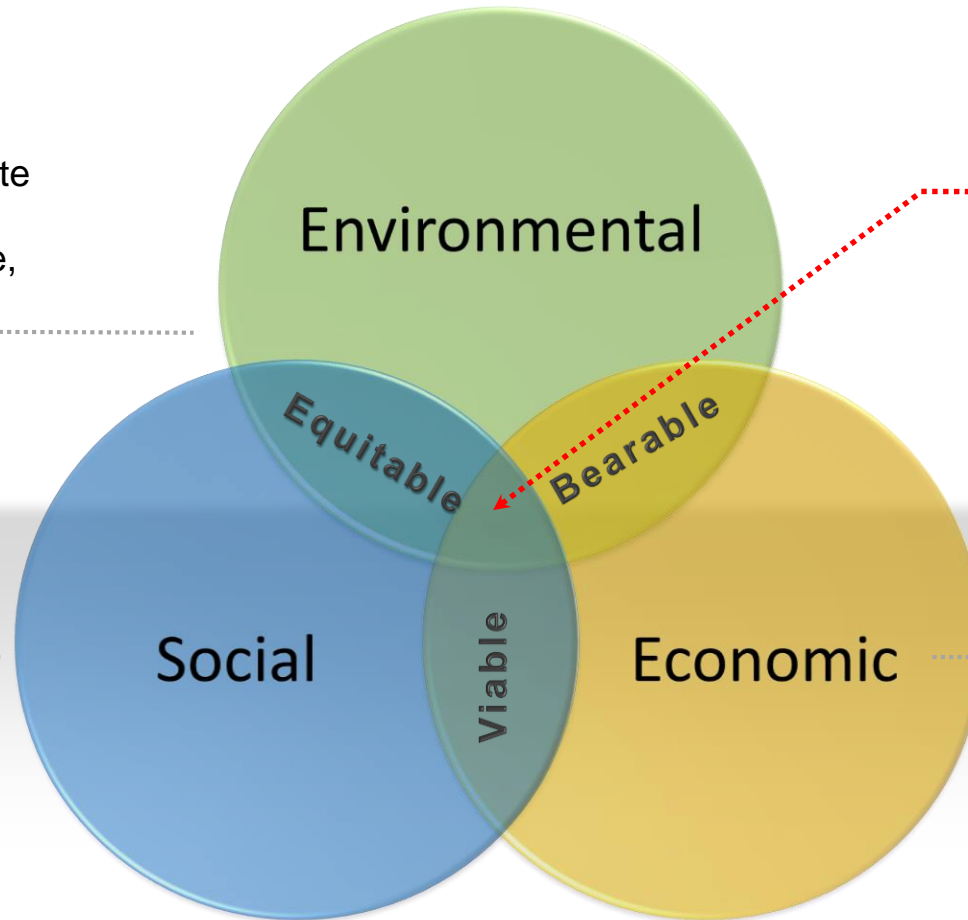




# A definition of sustainability

- **Issues such as;** Climate change, water, use of finite resources, waste, biodiversity

## Environmental



## Sustainable

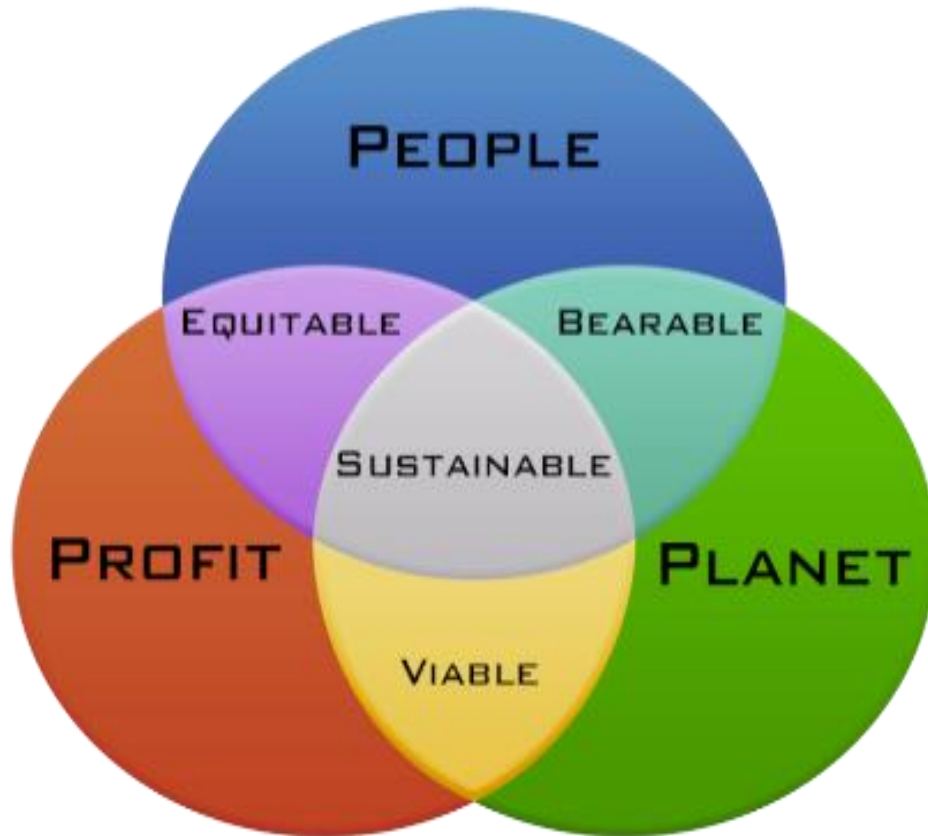
## Social

- **Issues such as;** business ethics, labour standards, equal opportunities, social inclusion

## Economic

- **Issues such as;** profitable business, local economy, fair payment

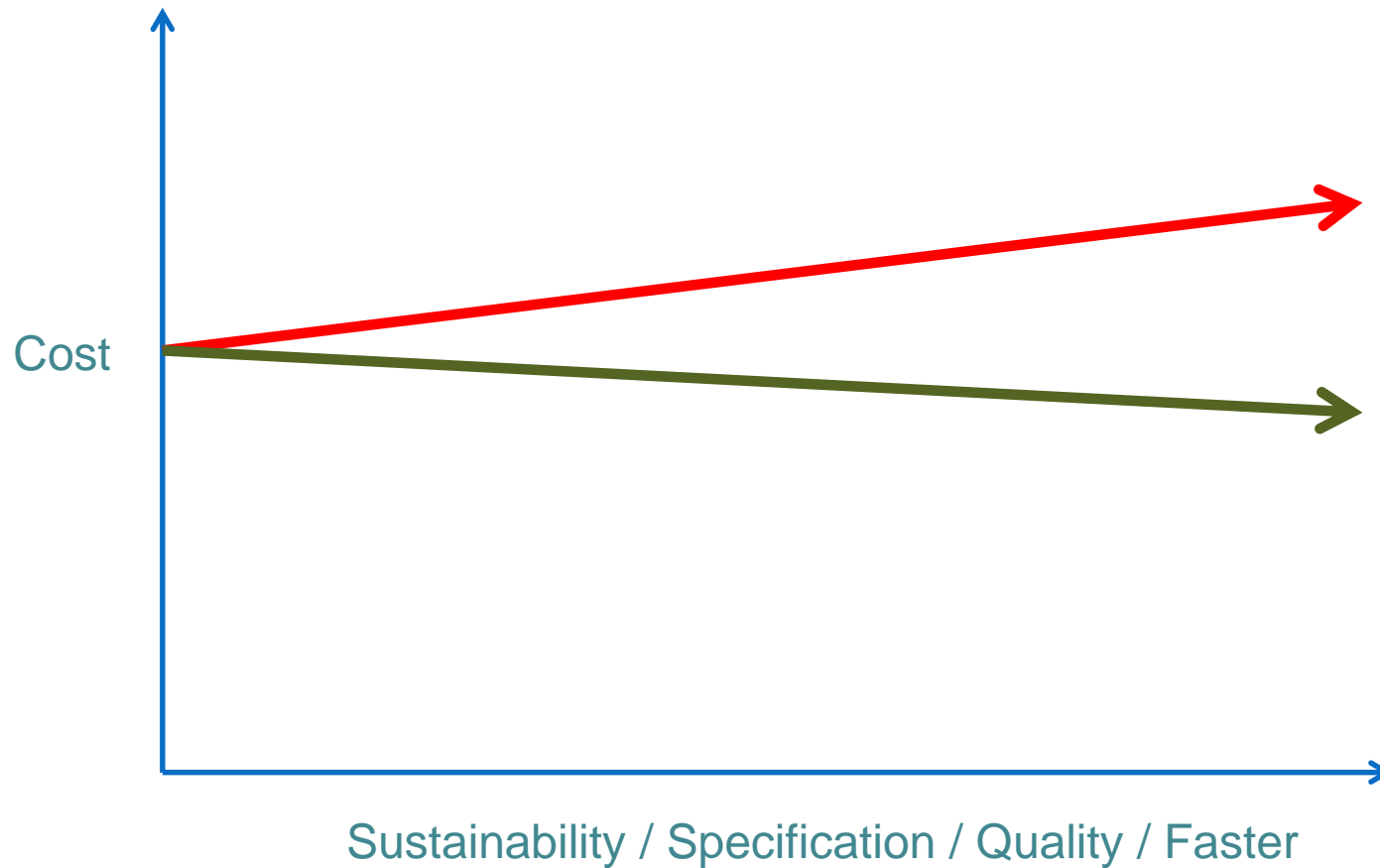
# Sustainability?



“Development that meets the needs of the present without compromising the ability of future generations to meet their own needs”

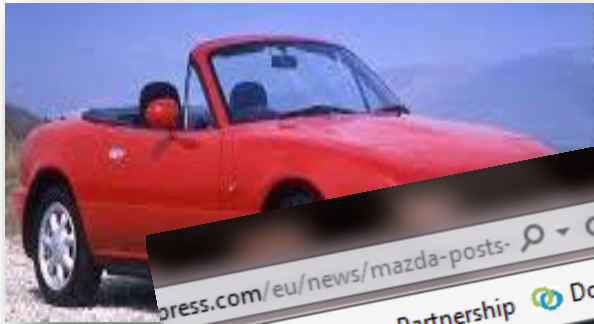
Brundtland Definition

# New thinking required

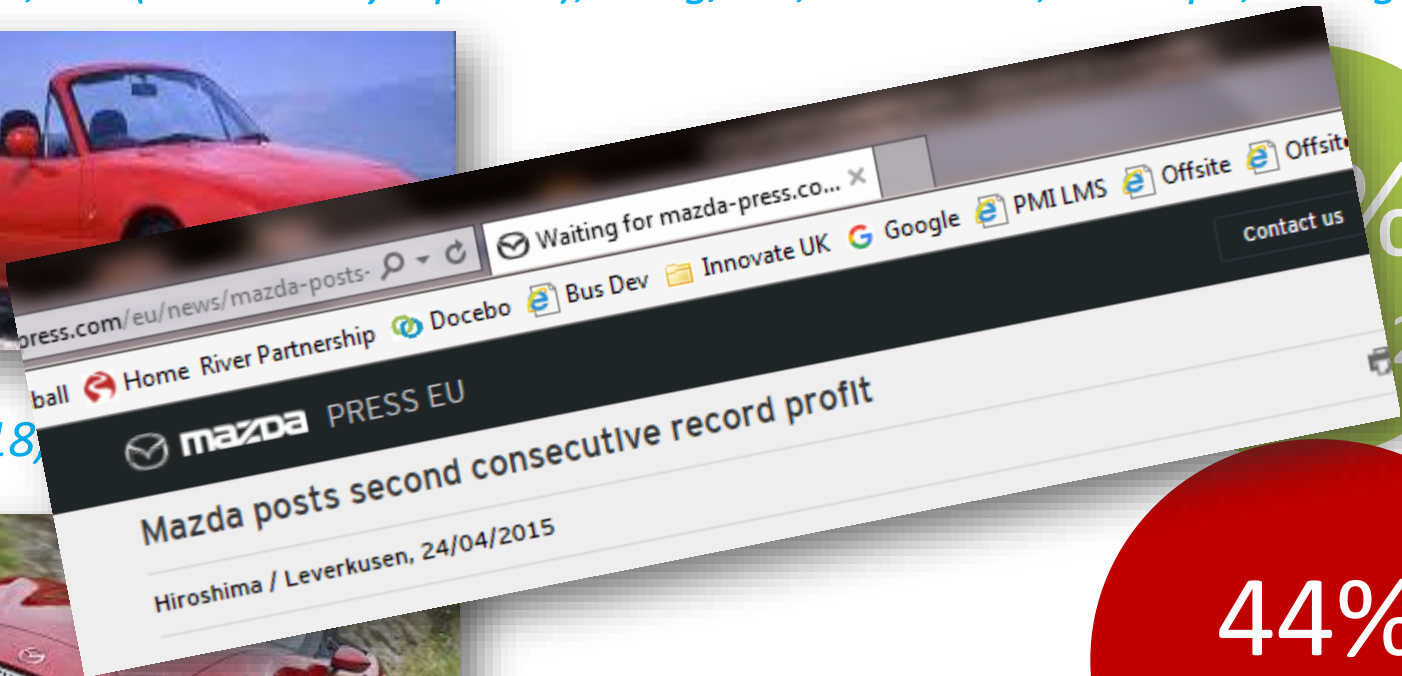


# Can this be done?

**1990** £14,925 (£33k today's prices), 216g/km, 0-62 = 8.1, 123mph, 940kg



**2015** £18,999



**44%**  
Less cost

# Defining sustainability for housebuilders?

# The School is a common approach to . . .

1. Assessing supply chain sustainability competence
2. Developing suppliers' sustainability knowledge



**11,000+ companies**

**32,000+ individual learners**

# Partners leading our work in Homes...

*Arnold Laver*



**LOVELL**



**Taylor Wimpey**



Spot 12.2 °C



15



7

45% of CO<sub>2</sub> emissions from buildings



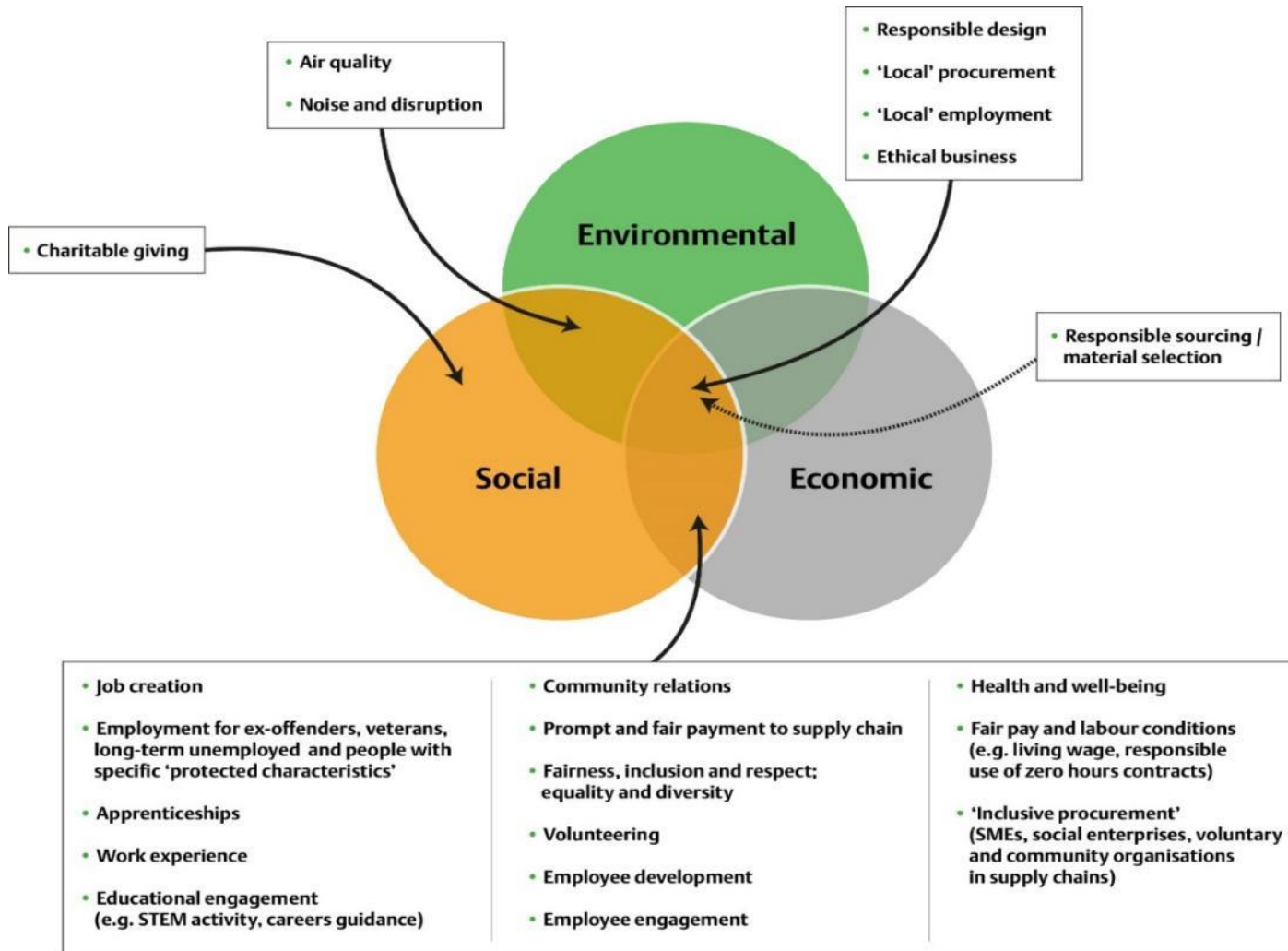


6 tonnes of material for every person in the UK

A large pile of construction waste is shown, including several cardboard boxes, some with 'electronics' printed on them, stacks of yellow foam insulation, wooden planks, and bags of material. One bag is labeled 'Hardw' and another '1-Finish'. The waste is piled high on a wooden pallet or similar structure. A person wearing a high-visibility vest is partially visible on the right side of the frame.

Still lots of waste . . .

# Social Value



# Home builders sustainability targets

	Waste	Water	Energy & Carbon	Materials	Biodiversity	Environmental Management	Sustainable Procurement	Local Business & Community	Employment, Skills & Ethics
Barratt Developments	✓		✓	✓	✓		✓	✓	✓
Berkeley Group	✓	✓	✓	✓	✓	✓	✓	✓	✓
Kier	✓	✓	✓	✓	✓	✓	✓	✓	✓
Linden Homes	✓	✓	✓	✓			✓	✓	✓
Lovell	✓		✓			✓	✓	✓	✓
Redrow	✓	✓	✓	✓				✓	✓
Taylor Wimpey	✓	✓	✓	✓		✓	✓	✓	✓
Wates	✓		✓			✓	✓	✓	✓
Willmott Dixon	✓	✓	✓	✓	✓	✓	✓	✓	✓

Case study:



**BARRATT**  
DEVELOPMENTS PLC



**BARRATT**  
DEVELOPMENTS PLC

# What are homebuilders doing on sustainability?



**John Bowden**  
Corporate Sustainability Co-ordinator



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## Barratt PLC sustainability issues

1. Keeping people safe

2. Operating efficiency

3. Attracting, inspiring and retaining people


4. Sustainable places to live

5. Sustainable and responsible sourcing

6. Investing in innovation and development

Stakeholder views  
on what matters  
most

Sustainability  
Framework  
(target setting and  
actions)



# 1. Keeping people safe



TAKE THE  
**5**  
STEPS TO SAFETY

Keep People Safe **5**

Plan the Task **4**

Evaluate the Risk **3**

Take Time to Review **2**

Stand Back **1**

Employee assistance



BALANCING WORK AND FAMILY LIFE



HEALTH AND WELLBEING



CHILD CARE AND ELDER CARE



BUDGETING AND FINANCIAL ISSUES



## 2. Operating efficiency



Going  
forwards

Set a science-based target

Continue trialling onsite  
renewable energy

### 3. Attracting, inspiring and retaining people

#### Armed forces transitional programme



Home  
Building  
Skills  
Partnership

**Home  
Building Skills  
Partnership**



**BARRATT**  
DEVELOPMENTS PLC

## 4. Sustainable places to live

Montague park





BARRATT  
DEVELOPMENTS PLC

## 5. Sustainable and responsible sourcing



SUPPLY CHAIN SUSTAINABILITY

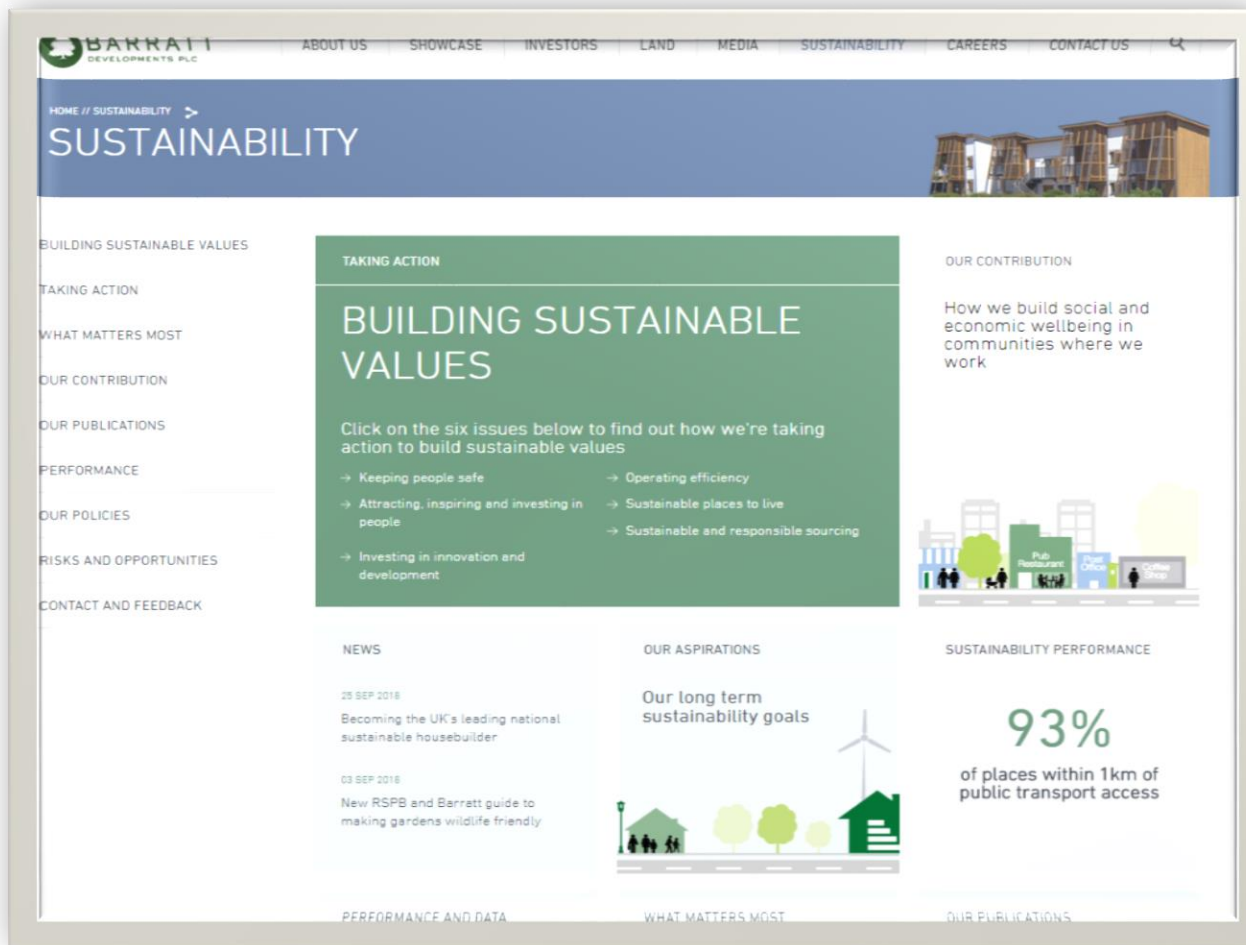
**SCHOOL**

## 6. Investing in innovation and development

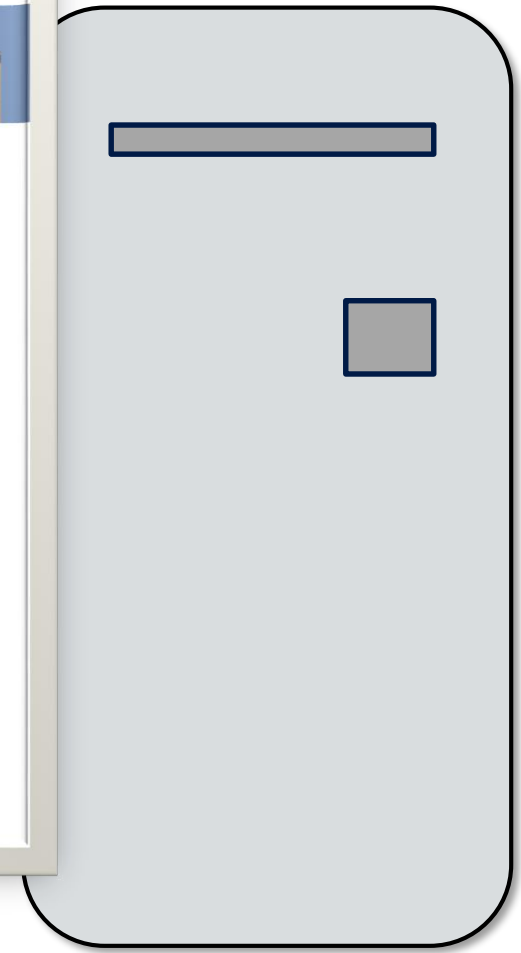


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[www.barrattdevelopments.co.uk/sustainability](http://www.barrattdevelopments.co.uk/sustainability)



The screenshot shows the Barratt Sustainability website. At the top is a navigation menu with links: ABOUT US, SHOWCASE, INVESTORS, LAND, MEDIA, SUSTAINABILITY, CAREERS, CONTACT US. Below the menu is a blue header with the Barratt logo and the word "SUSTAINABILITY" in large white letters. A left-hand navigation menu lists: BUILDING SUSTAINABLE VALUES, TAKING ACTION, WHAT MATTERS MOST, OUR CONTRIBUTION, OUR PUBLICATIONS, PERFORMANCE, OUR POLICIES, RISKS AND OPPORTUNITIES, CONTACT AND FEEDBACK. The main content area features a central green box titled "TAKING ACTION" with the sub-header "BUILDING SUSTAINABLE VALUES". Below this, it says "Click on the six issues below to find out how we're taking action to build sustainable values" and lists six issues: Keeping people safe, Attracting, inspiring and investing in people, Investing in innovation and development, Operating efficiency, Sustainable places to live, and Sustainable and responsible sourcing. To the right is a section titled "OUR CONTRIBUTION" with the text "How we build social and economic wellbeing in communities where we work" and an illustration of a community with a pub, restaurant, office, and college. Below this are three columns: "NEWS" with two articles from 2018, "OUR ASPIRATIONS" with the text "Our long term sustainability goals" and an illustration of a house and wind turbine, and "SUSTAINABILITY PERFORMANCE" with a large "93%" and the text "of places within 1km of public transport access". At the bottom, there are three tabs: "PERFORMANCE AND DATA", "WHAT MATTERS MOST", and "OUR PUBLICATIONS".



**What will the industry be doing by 2030?**

# Number of work related cases of ill health in the UK construction sector

1 - 1,000

2 - 50,000

3 - 75,000

4 - 100,000

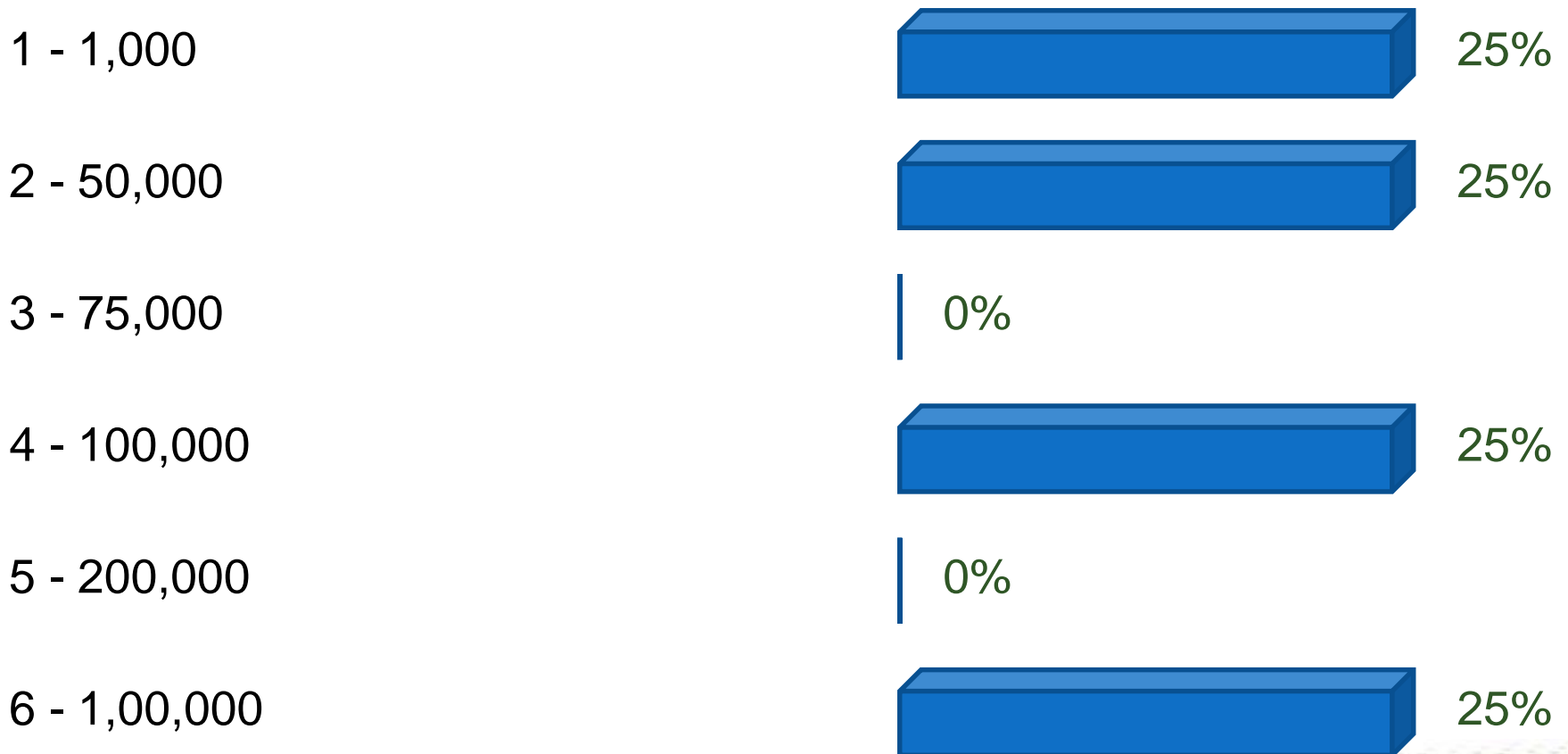
5 - 200,000

6 - 1,00,000

Source: <http://www.hse.gov.uk/statistics/industry/construction.pdf>



## Number of work related cases of ill health in the UK construction sector



Source: <http://www.hse.gov.uk/statistics/industry/construction.pdf>

# % of UK waste generated by construction, excavation and demolition?

1 - 10%

2 - 20%

3 - 30%

4 - 50%

5 - 60%

6 - 70%

Source: DEFRA UK Statistics on Waste -

<https://www.thenbs.com/knowledge/construction-waste-and-materials-efficiency>

# % of UK waste generated by construction, excavation and demolition?



Source: DEFRA UK Statistics on Waste - <https://www.thenbs.com/knowledge/construction-waste-and-materials-efficiency>

# How many extra workers does the construction industry need over the next five years?

- 1 -200,000
- 2 -100,000
- 3 No more needed
- 4 100,000
- 5 150,000
- 6 200,000

Source: CITB

<https://www.independent.co.uk/news/business/news/construction-jobs-150000-added-five-years-citb-carillion-brexit-a8191746.html>

# How many extra workers does the construction industry need over the next five years?



Source: CITB

<https://www.independent.co.uk/news/business/news/construction-jobs-150000-added-five-years-citb-carillion-brexit-a8191746.html>

# UK productivity increased 41% over the last 25 years. How much in construction?

1 - Less than 5%

2 - 10%

3 - 25%

4 - 40%

5 - 50%

6 - 60%

Source: ONS Labour Productivity, Q4 2015. April 2016  
<http://www.cast-consultancy.com/wp-content/uploads/2016/10/Farmer-Review-1.pdf>

# UK productivity increased 41% over the last 25 years. How much in construction?

1 - Less than 5%



17%

2 - 10%



17%

3 - 25%



17%

4 - 40%



17%

5 - 50%



17%

6 - 60%



17%

Source: ONS Labour Productivity, Q4 2015. April 2016  
<http://www.cast-consultancy.com/wp-content/uploads/2016/10/Farmer-Review-1.pdf>



# Cost to buy an average new starter home in 2030?

1 - £100,000

2 - £200,000

3 - £300,000

4 - £400,000

5 - £500,000

Source: The Halifax Building Society



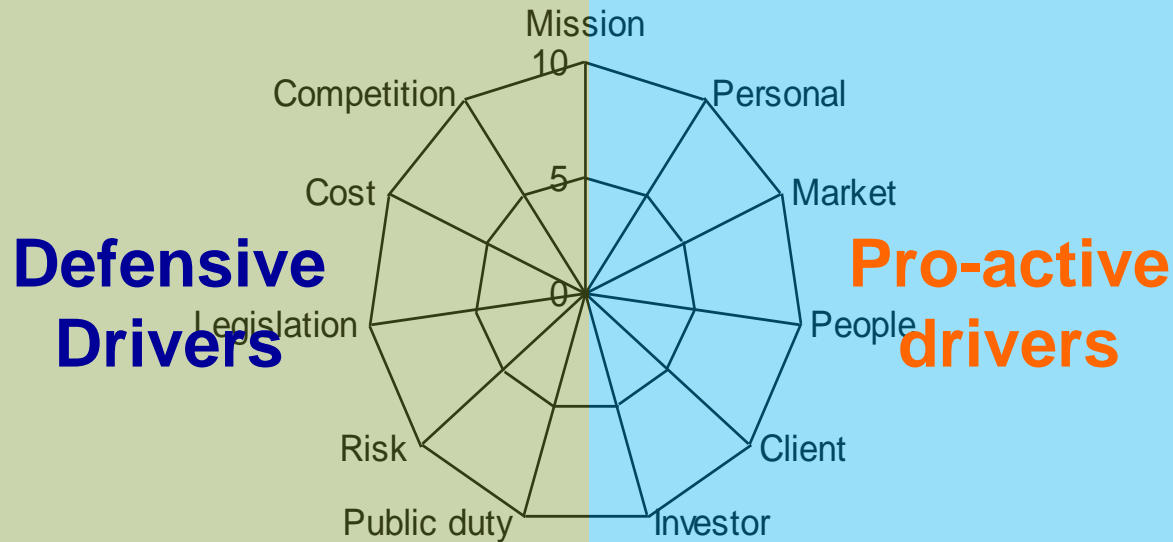
# Cost to buy an average new starter home in 2030?



Source: The Halifax Building Society

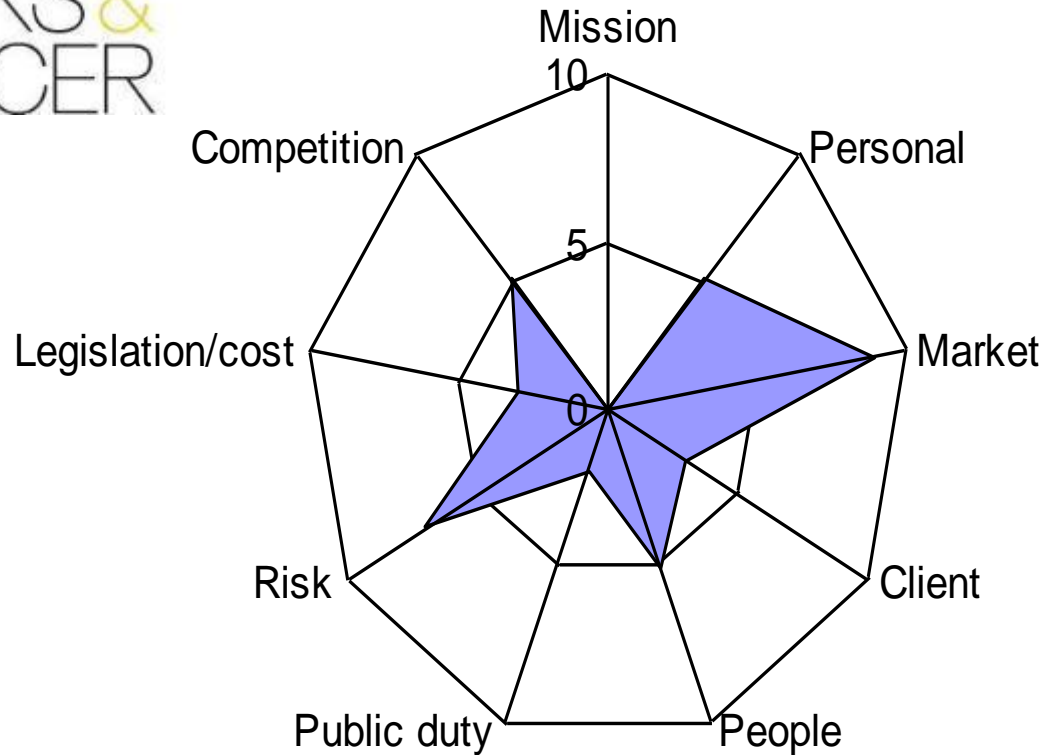
# What is driving home builders to be more sustainable?

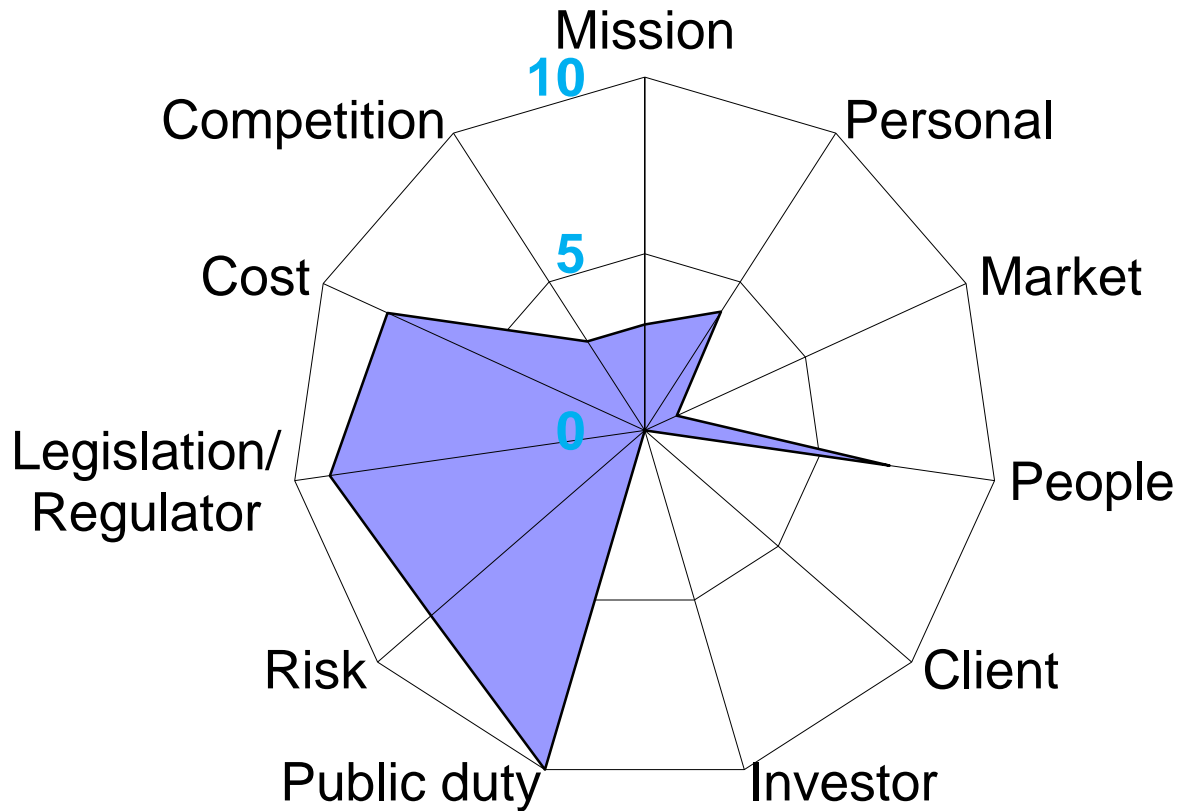
# Sustainability – why?



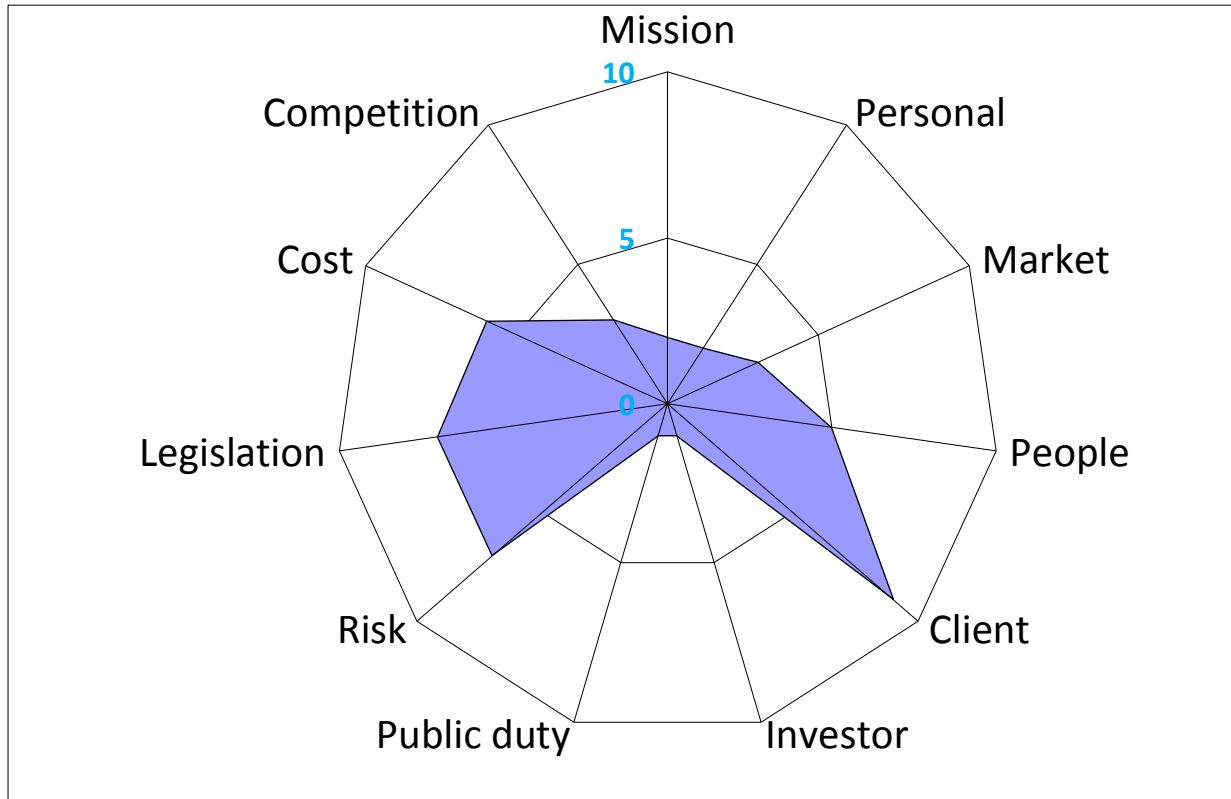
# There is no single reason . . .

MARKS &  
SPENCER





# What does house building look like?



**15 minutes**

Let's have a go...



# Summary and Close

When all is said and done

Much more is usually said than done!



# IMPACT ON SUSTAINABILITY

37%



reduced carbon emissions

48% agree the School helped achieve this

40%



reduced waste

56% agree the School helped achieve this

63%



increased modern slavery understanding

82% agree the School helped achieve this

37%



increased understanding of fairness, inclusion & respect

85% agree the School helped achieve this



45%

increased community engagement

66%

agree the School helped achieve this

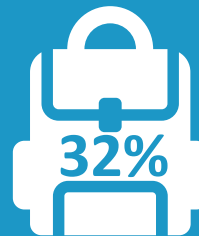


49%

increased understanding of responsible sourcing

81%

agree the School helped achieve this



32%

increased apprentice numbers

44%

agree the School helped achieve this

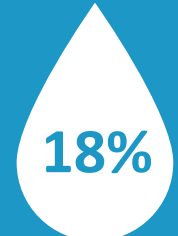


15%

improved air quality

54%

agree the School helped achieve this



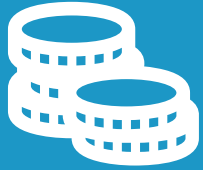
18%

reduced water consumption

50%

agree the School helped achieve this

# SCHOOL IMPACT ON BUSINESS PERFORMANCE



**45%**  
REDUCED  
COSTS



**43%**  
WIN NEW  
BUSINESS



**58%**  
MORE  
COLLABORATIVE



**73%**  
BETTER  
UNDERSTANDING OF  
SUSTAINABILITY



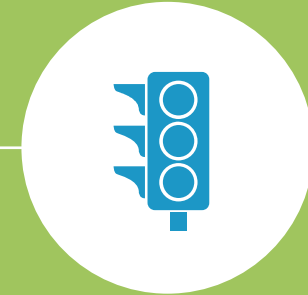
**25%**  
RETAINED  
TALENT



**56%**  
BETTER  
RELATIONSHIPS  
WITH SUPPLIERS



**52%**  
IMPROVED QUALITY  
OF BIDS



**53%**  
REDUCED  
REPUTATIONAL RISKS

# Thank you

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SUPPLY CHAIN SUSTAINABILITY  
**SCHOOL**



## Please stay in touch

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