



21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Welcome to the 2017 EAUC Annual Conference

Don't forget to follow and tweet us @TheEAUC  
Join in the conversation using #EAUCConf17





21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR

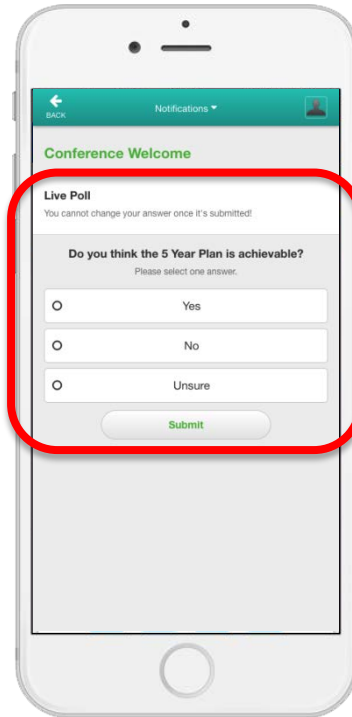
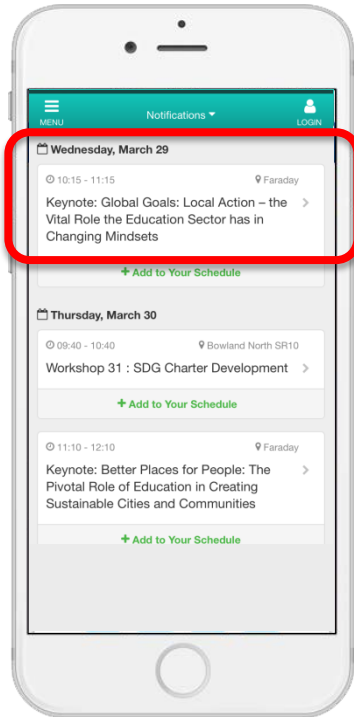
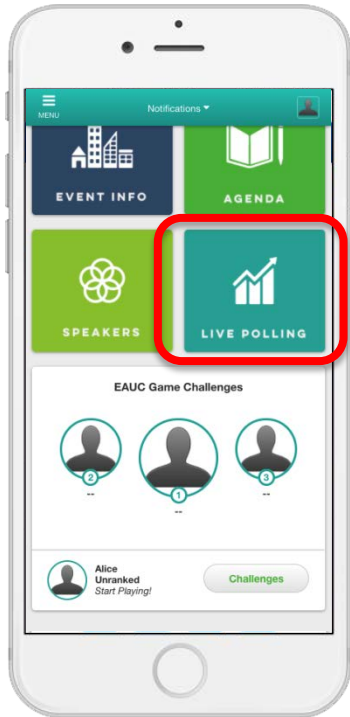


The Conference App is  
sponsored by CrowdComms.  
To access the App visit:



[www.eaucconferenceapp.org.uk](http://www.eaucconferenceapp.org.uk)

# Live Polling



- Select Live Polling from home screen
- Select the relevant session
- Select your answer
- Click “Submit”



---

## Question A

# How would you rate your own awareness of the Sustainable Development Goals?

- None
- Low
- Medium
- High

Vote Now



[www.eaucconferenceapp.org.uk](http://www.eaucconferenceapp.org.uk)



---

## Question B

**Are you, or anyone else in your institution, already working with the SDGs?**

- No
- Yes, using them informally
- Yes, using them formally

Vote Now



[www.eaucconferenceapp.org.uk](http://www.eaucconferenceapp.org.uk)



21st ANNUAL CONFERENCE  
 28-30 MARCH 2017  
 GLOBAL GOALS:  
**LOCAL ACTION**



HEADLINE SPONSOR



# Thank You to Our Sponsors

Headline Sponsor



## CarbonCredententials

Support Sponsors

Water Sponsor





21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Welcome

**Professor Andrew Atherton, Deputy Vice Chancellor of  
Lancaster University**

**@TheEAUC  
#EAUCConf17**





21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Welcome

**Paul Lewis, Chief Operating Officer, Carbon Credentials**

**@TheEAUC  
#EAUCConf17**





21st ANNUAL CONFERENCE  
28-30 MARCH 2017

 GLOBAL GOALS:  
**LOCAL ACTION**



HEADLINE SPONSOR



# Welcome from Carbon Credentials

Paul Lewis, Chief Operating Officer

Headline Sponsor



# SUSTAINABLE DEVELOPMENT GOALS



# From SDGs to Transposition of Paris Agreement



NYC: Sept 15



Paris: Dec 15

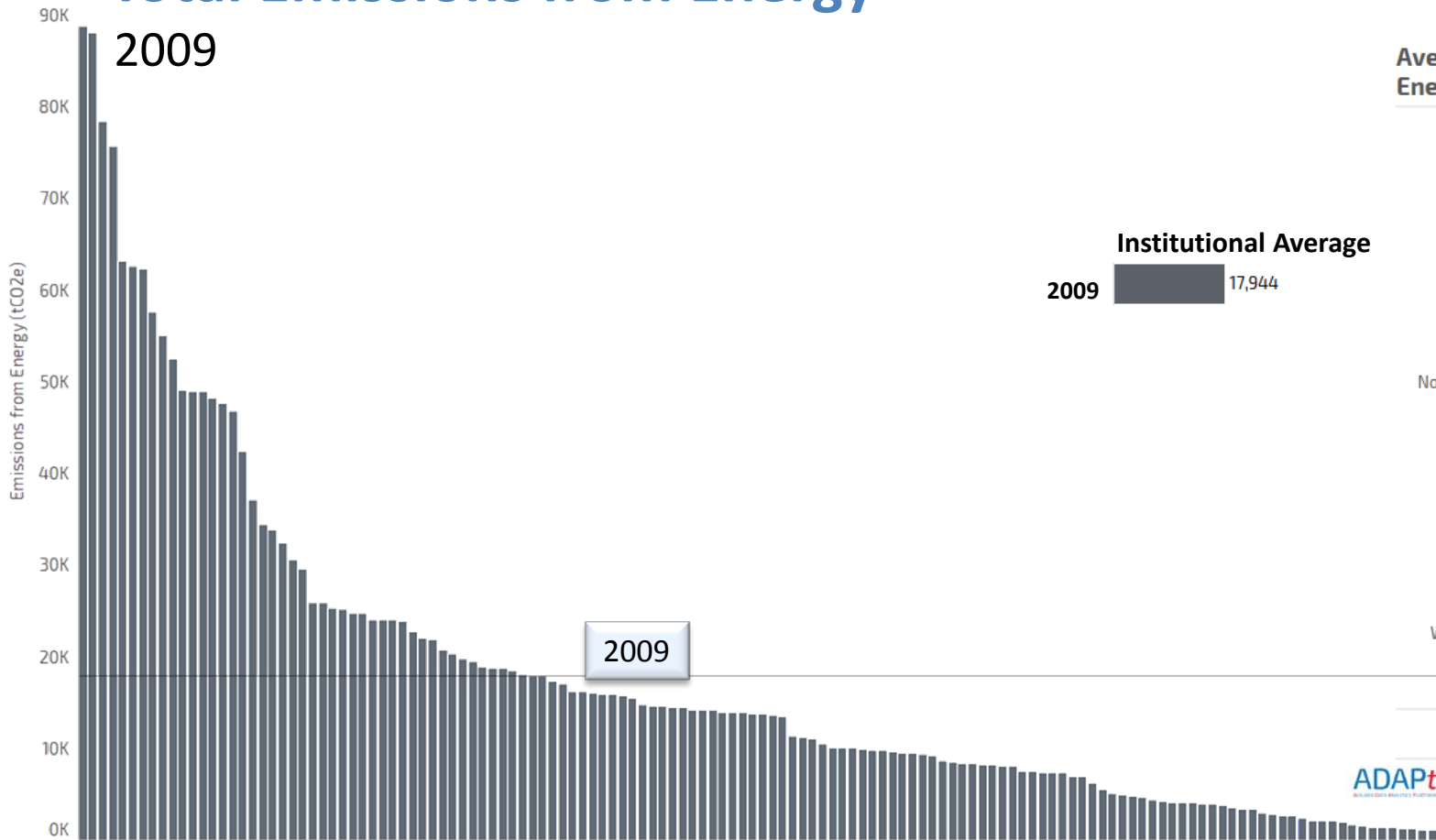


Marrakech: Dec 16

Paris Agreement: keep warming below **2°C** and pursue efforts to limit to **1.5°C**

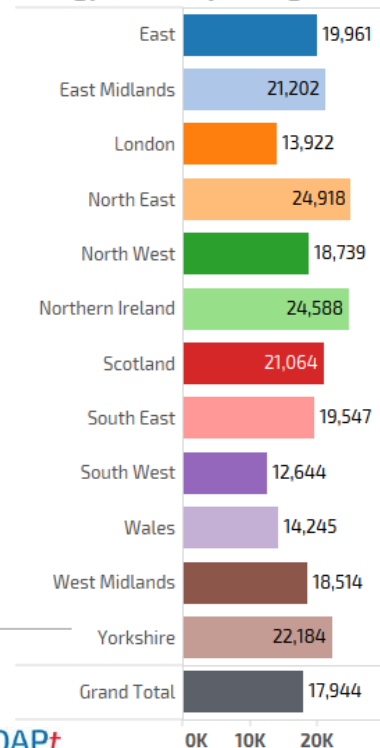
# Total Emissions from Energy

## 2009



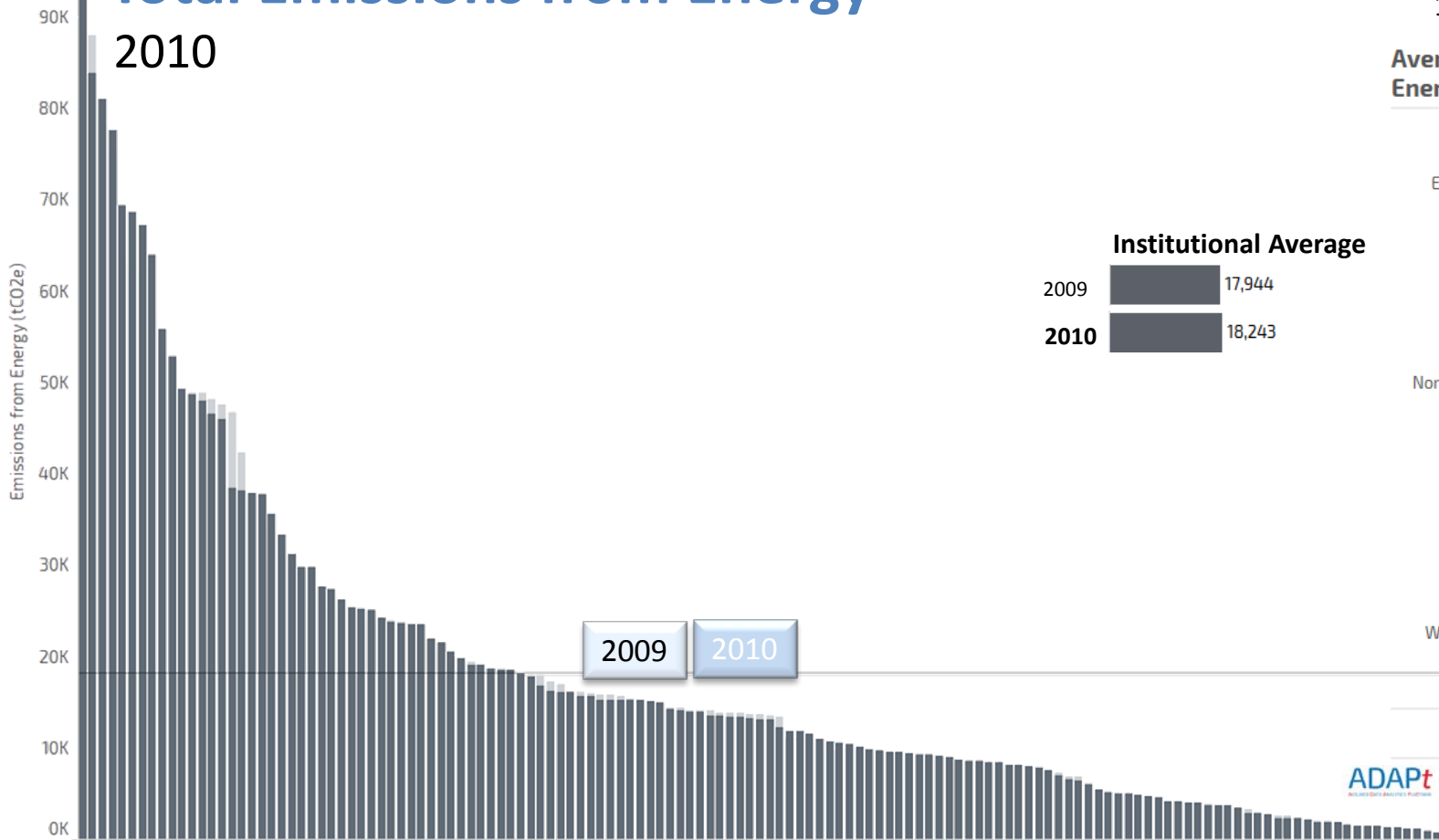
HESA data for  
137 institutions

### Average Emissions from Energy (tCO<sub>2</sub>e) per Region



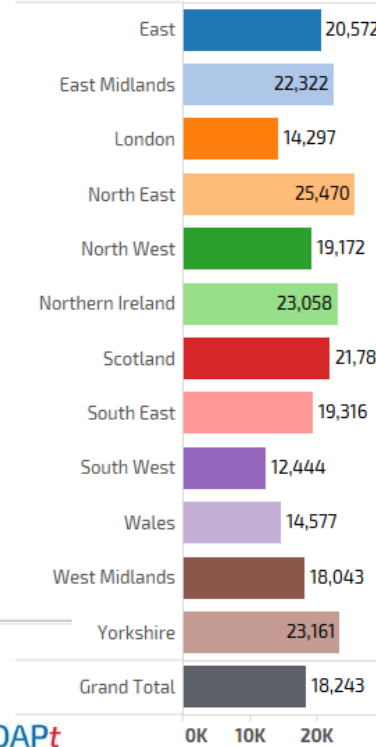


# Total Emissions from Energy 2010

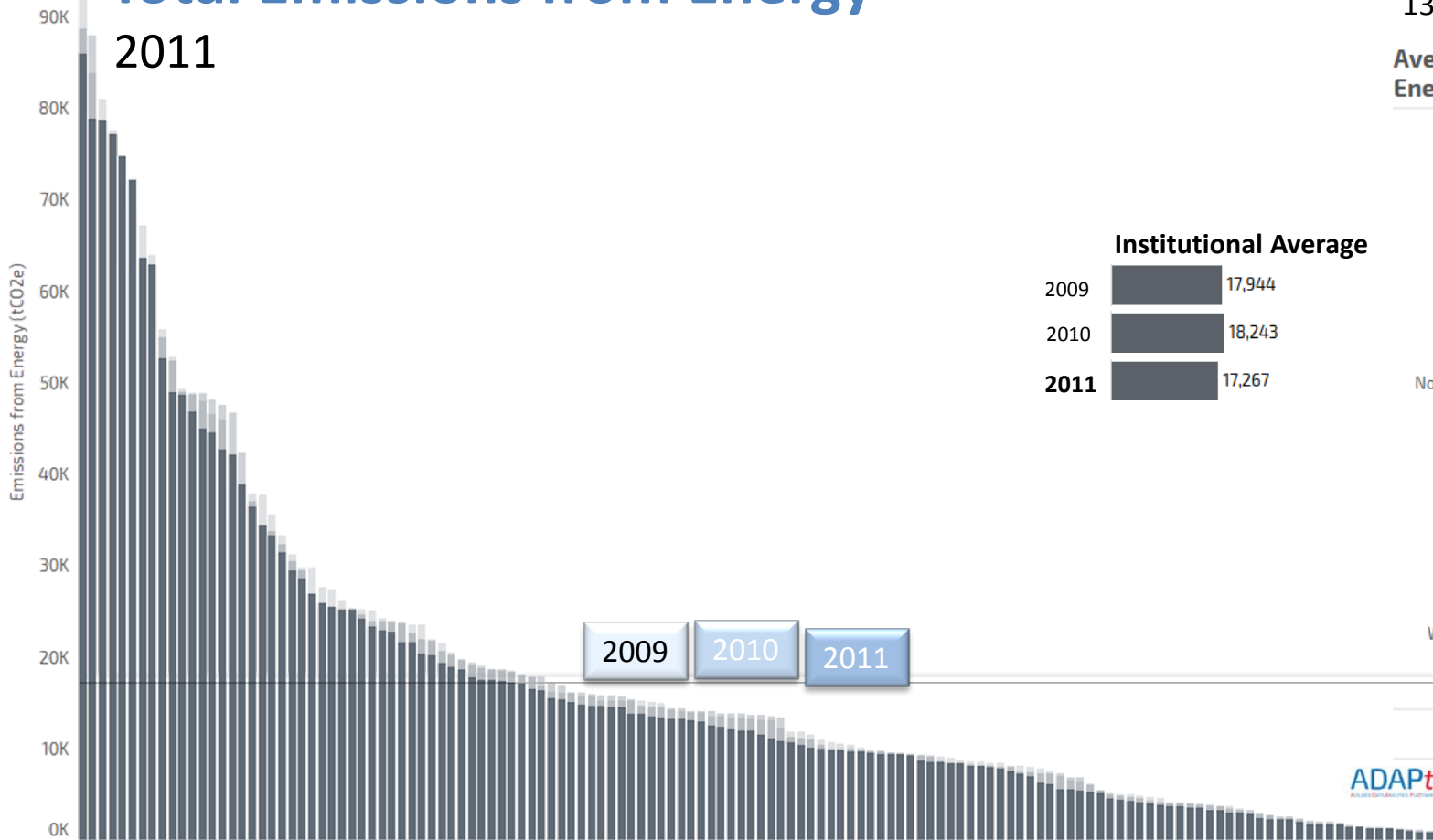


HESA data for  
137 institutions

## Average Emissions from Energy (tCO2e) per Region



# Total Emissions from Energy 2011

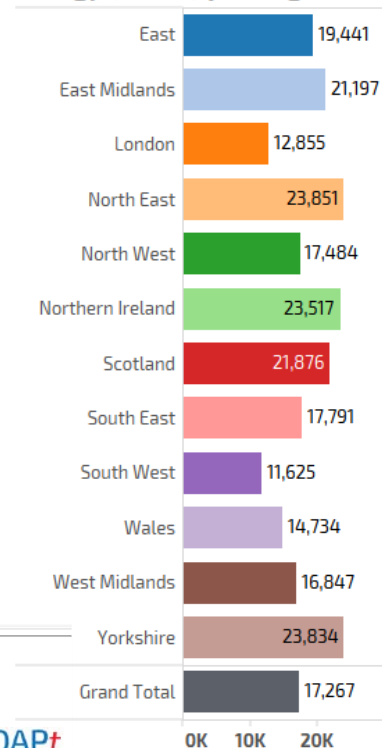


**Institutional Average**

2009	17,944
2010	18,243
<b>2011</b>	<b>17,267</b>

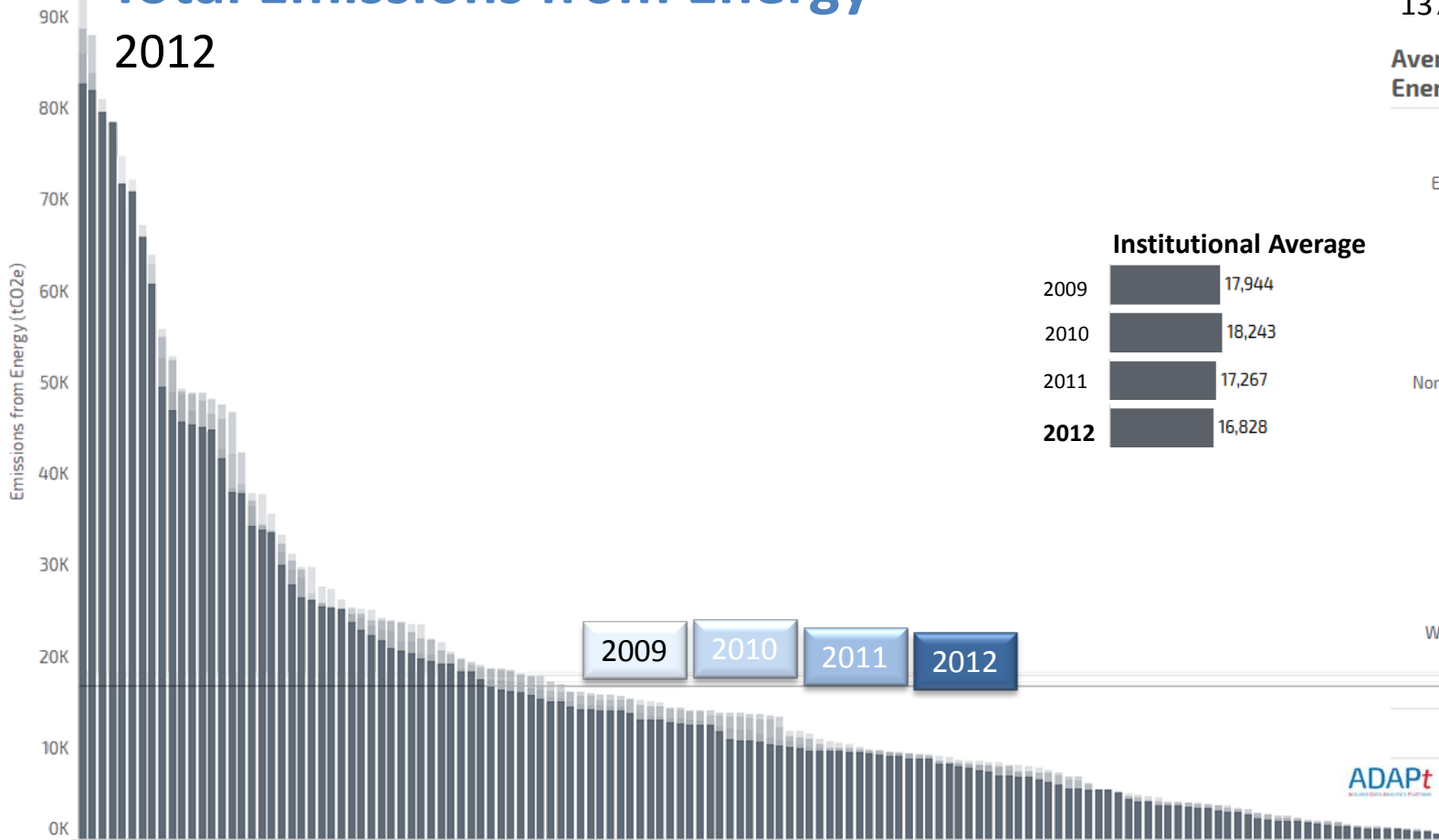
HESA data for  
137 institutions

## Average Emissions from Energy (tCO<sub>2</sub>e) per Region



# Total Emissions from Energy

## 2012



### Institutional Average

2009	17,944
2010	18,243
2011	17,267
<b>2012</b>	<b>16,828</b>

HESA data for 137 institutions

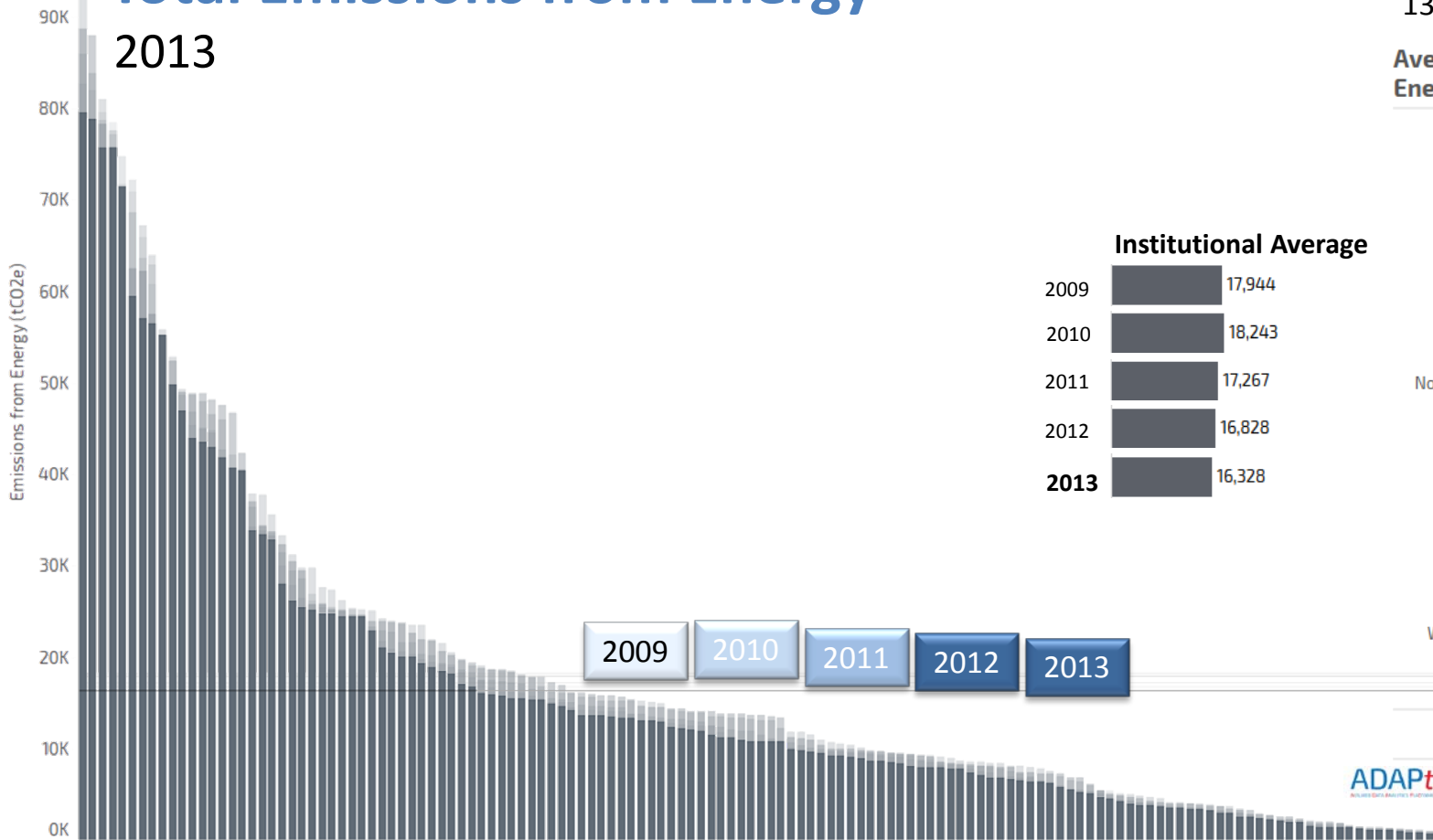
### Average Emissions from Energy (tCO<sub>2</sub>e) per Region

East	19,393
East Midlands	21,124
London	12,583
North East	24,220
North West	16,823
Northern Ireland	22,260
Scotland	21,923
South East	16,563
South West	11,294
Wales	14,760
West Midlands	15,914
Yorkshire	22,985
<b>Grand Total</b>	<b>16,828</b>



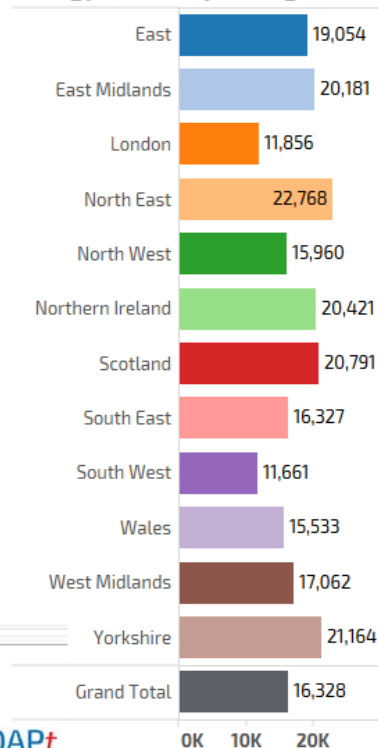
0K 10K 20K

# Total Emissions from Energy 2013



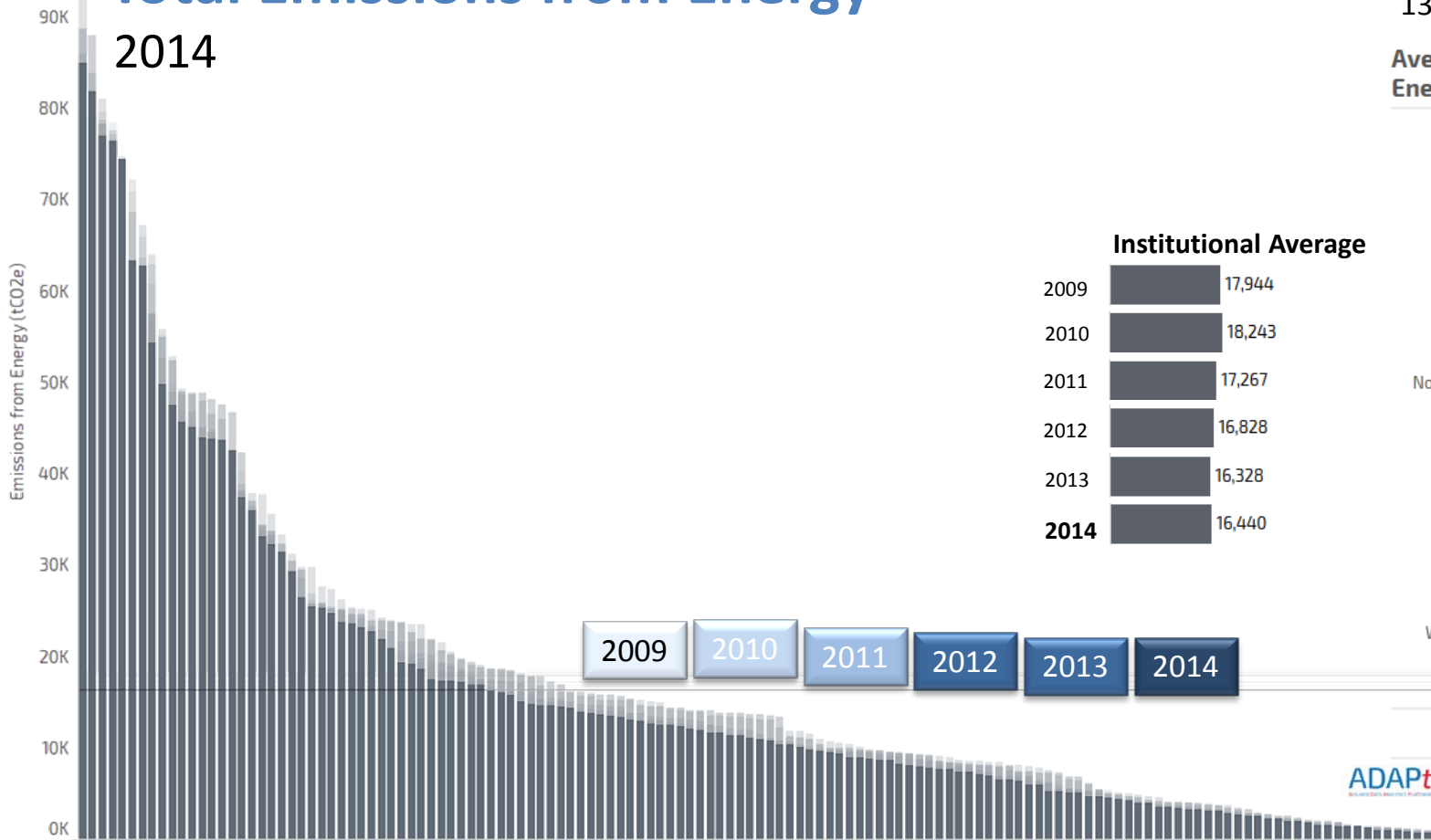
HESA data for  
137 institutions

## Average Emissions from Energy (tCO<sub>2</sub>e) per Region



# Total Emissions from Energy

## 2014



### Institutional Average

2009	17,944
2010	18,243
2011	17,267
2012	16,828
2013	16,328
<b>2014</b>	<b>16,440</b>



HESA data for 137 institutions

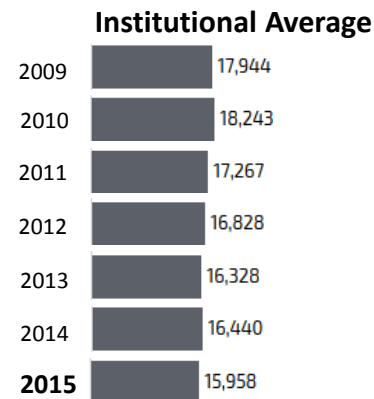
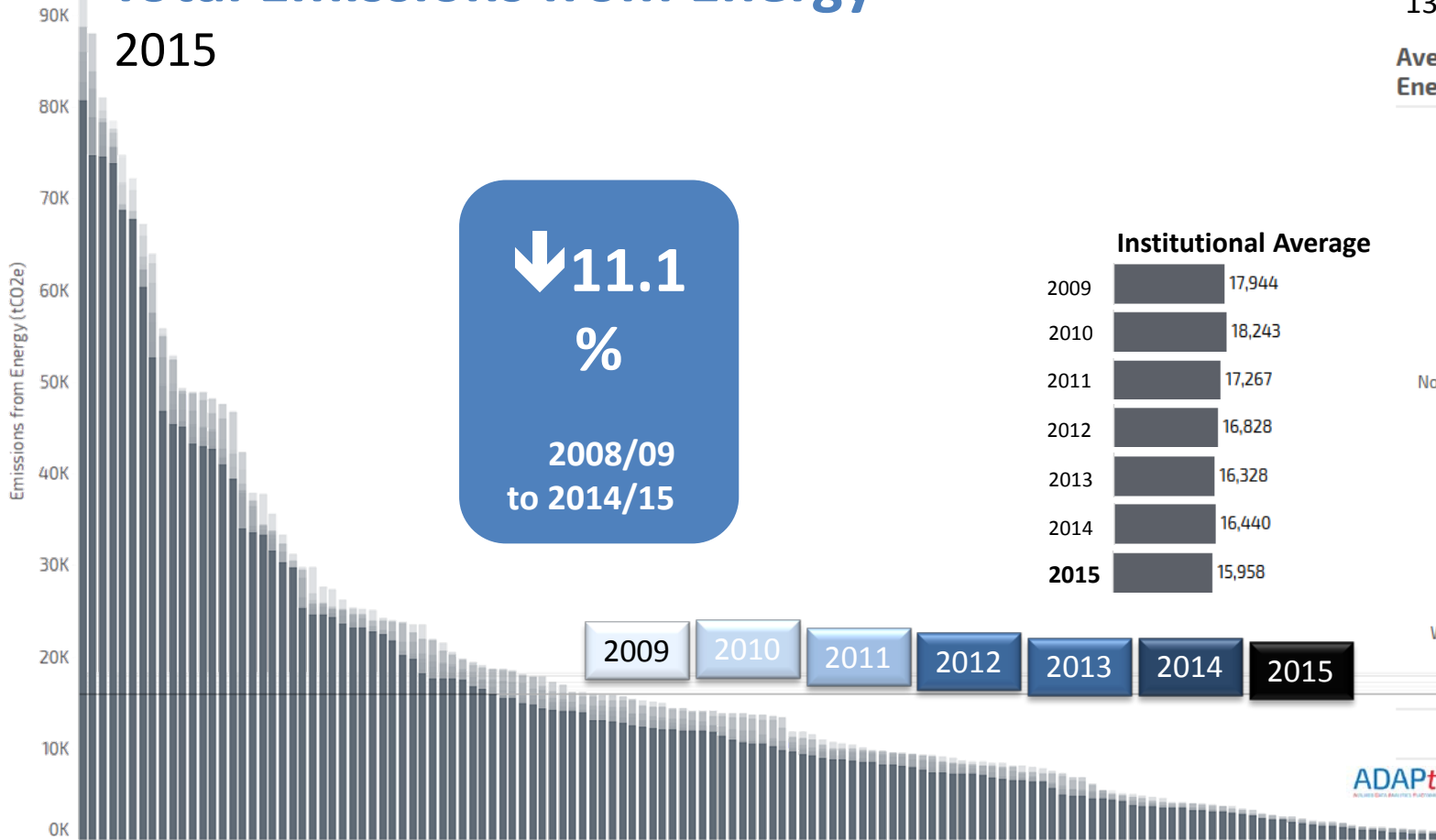
### Average Emissions from Energy (tCO<sub>2</sub>e) per Region

East	19,962
East Midlands	20,454
London	11,994
North East	22,662
North West	15,886
Northern Ireland	20,532
Scotland	21,943
South East	16,537
South West	12,093
Wales	15,191
West Midlands	15,682
Yorkshire	20,732
<b>Grand Total</b>	<b>16,440</b>



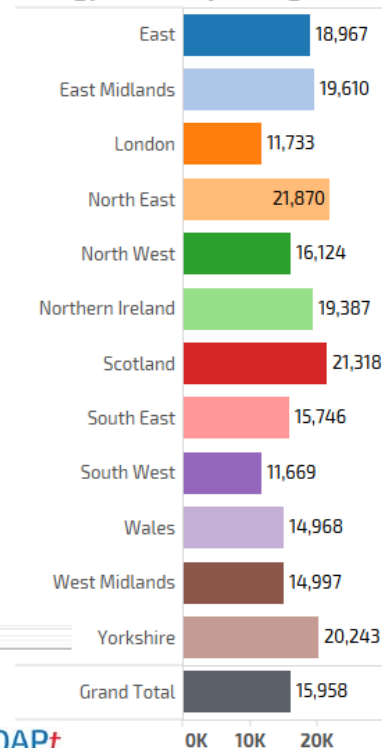
0K 10K 20K

# Total Emissions from Energy 2015



HESA data for  
137 institutions

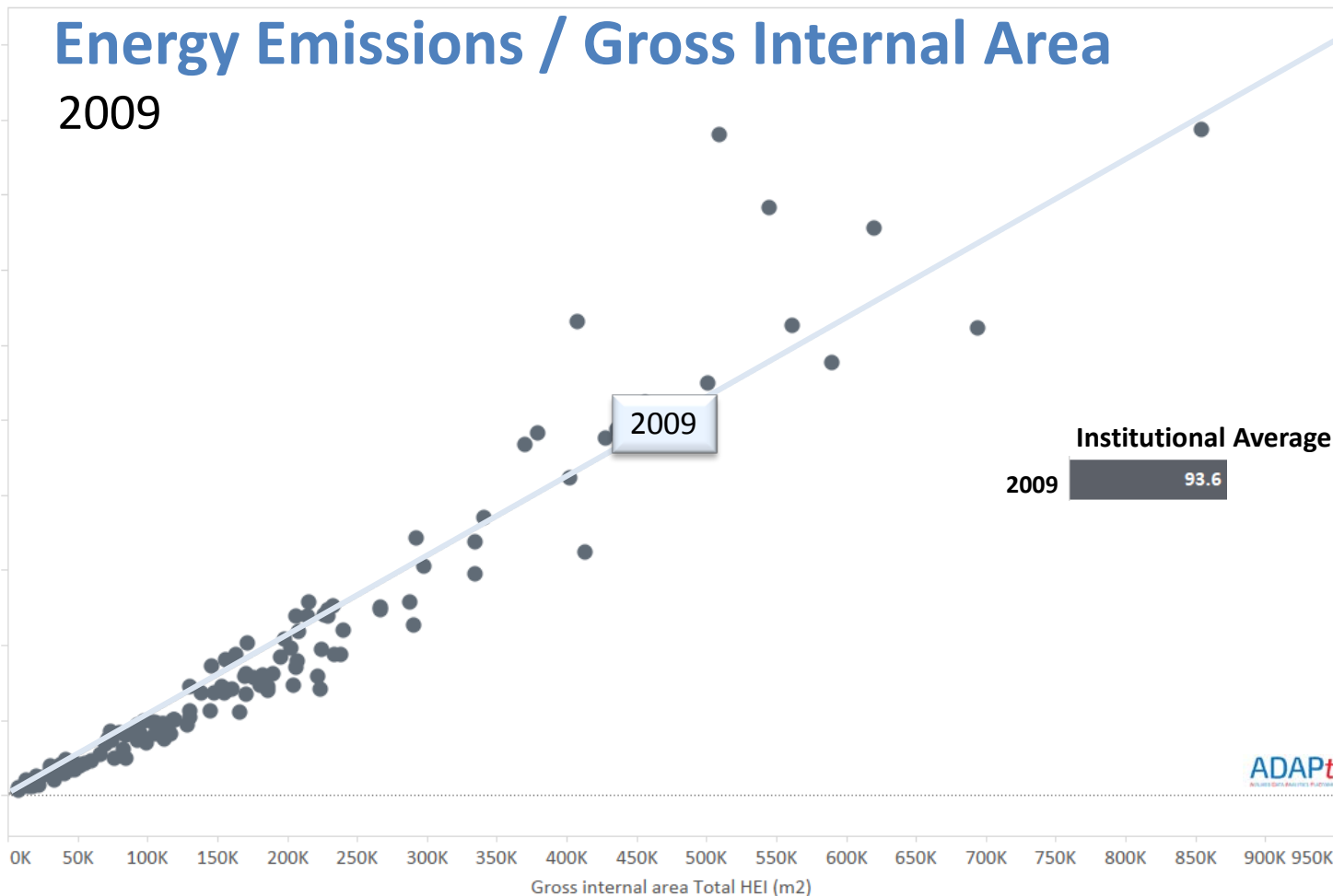
### Average Emissions from Energy (tCO<sub>2</sub>e) per Region



# Energy Emissions / Gross Internal Area

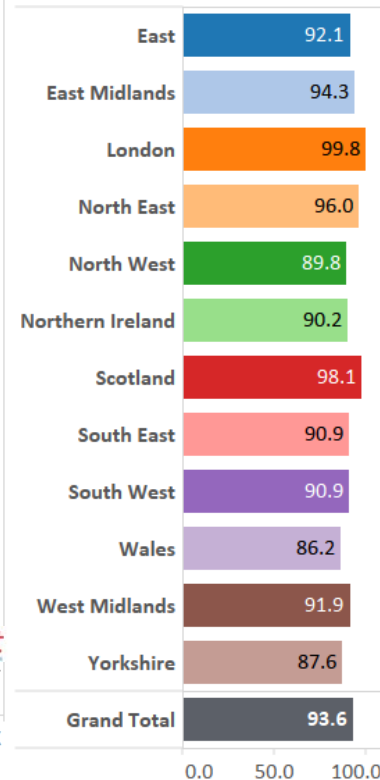
## 2009

Emissions from Energy (tCO<sub>2</sub>e)



HESA data for  
137 institutions

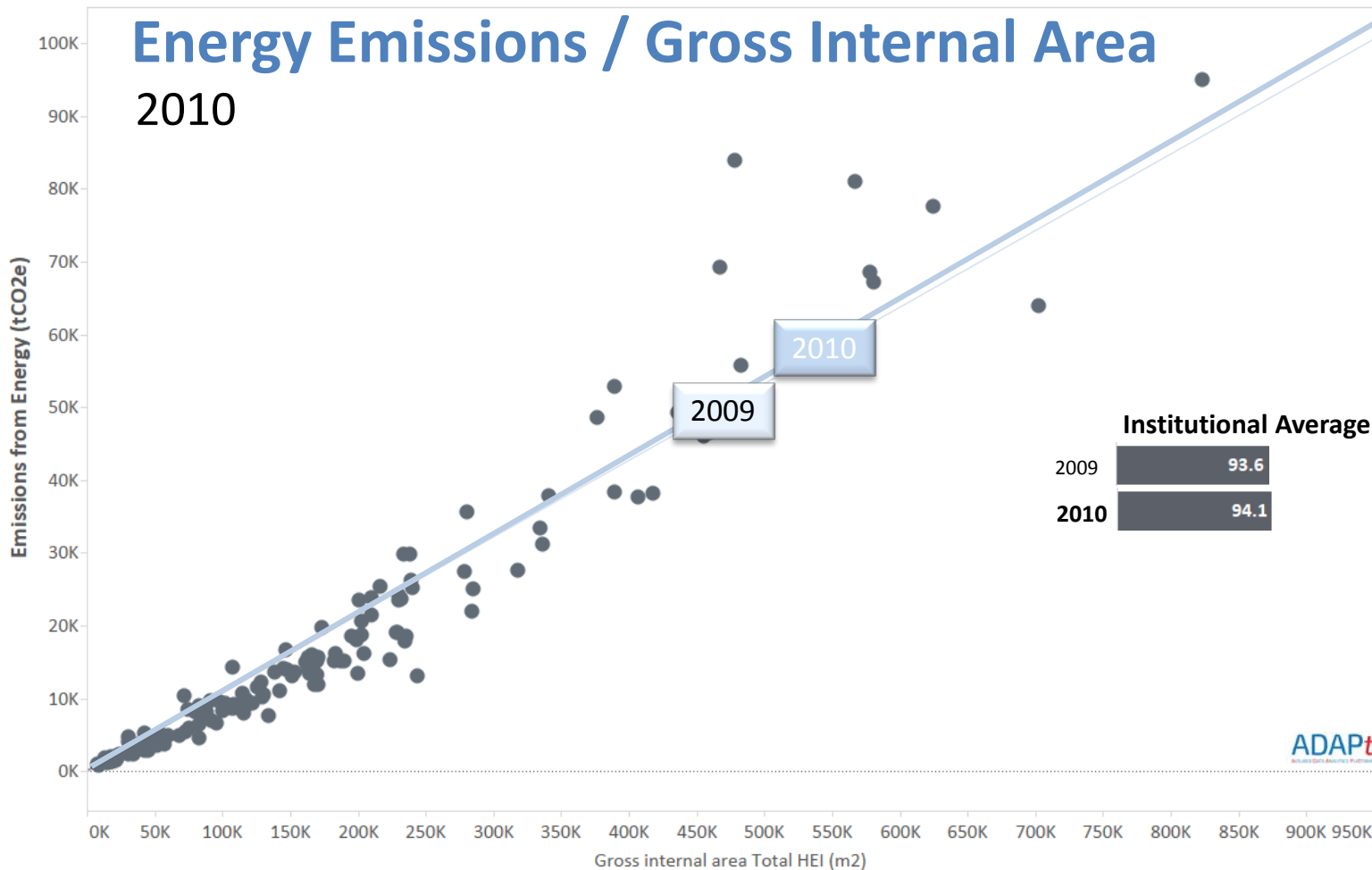
Avg. Emissions from Energy /  
m<sup>2</sup> (kgCO<sub>2</sub>e) by Region



ADAP<sup>t</sup>  
ADAPTING BUILDINGS FOR THE FUTURE

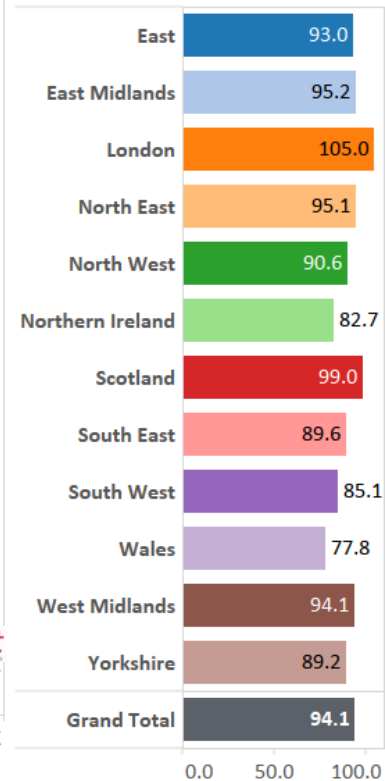
# Energy Emissions / Gross Internal Area

## 2010



HESA data for 137 institutions

**Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region**

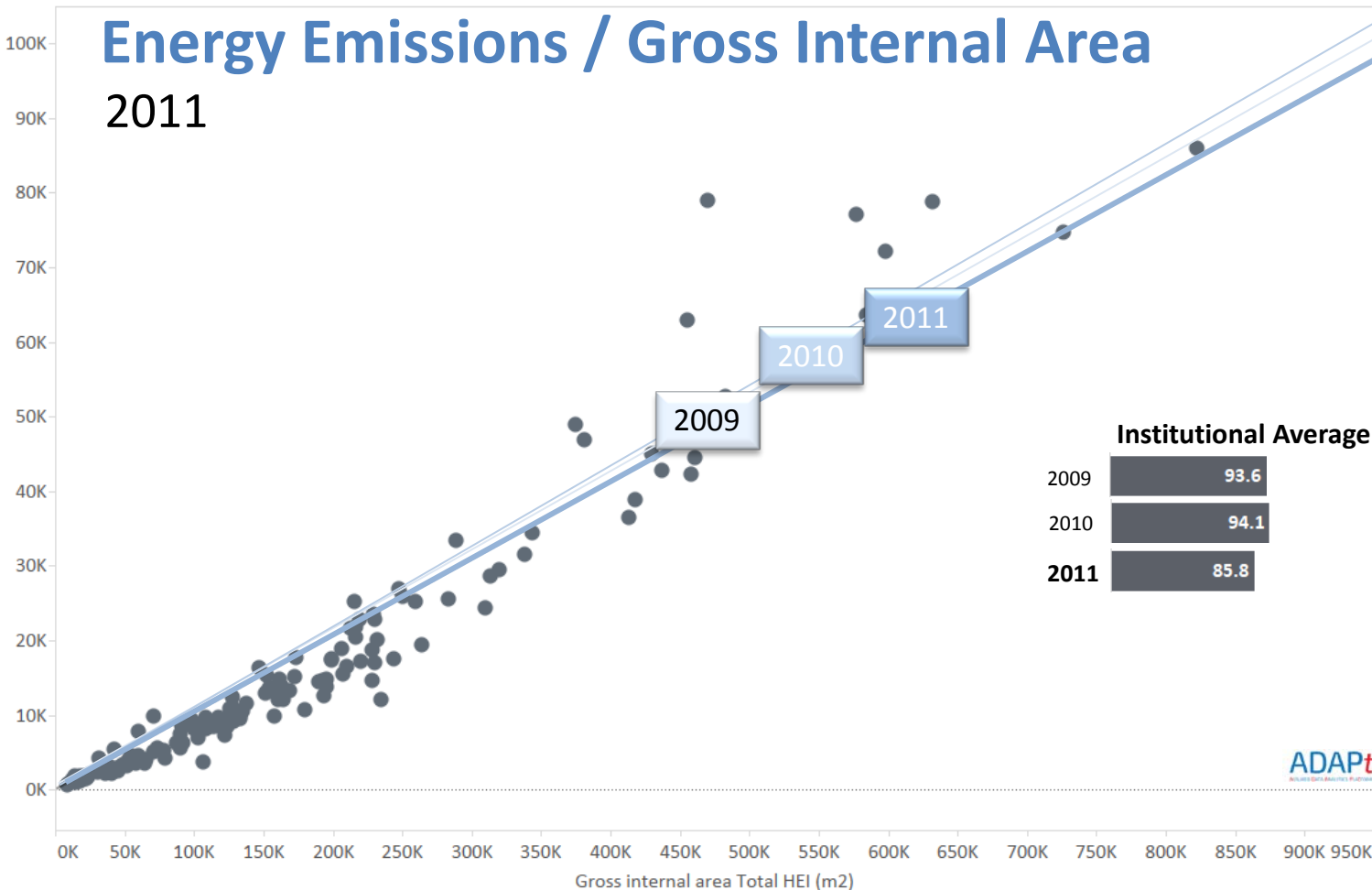




# Energy Emissions / Gross Internal Area

## 2011

Emissions from Energy (tCO<sub>2</sub>e)

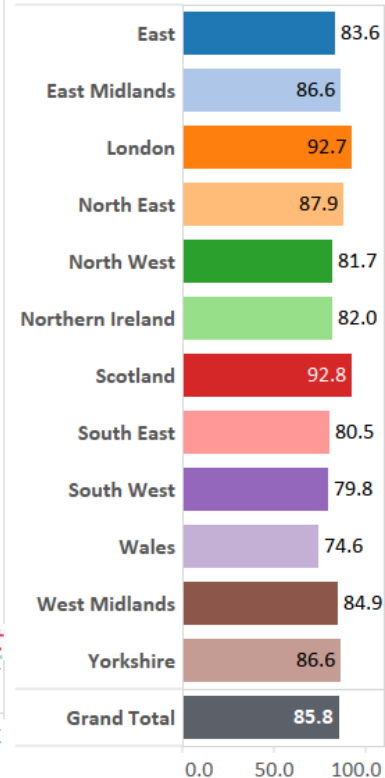


### Institutional Average

2009	93.6
2010	94.1
2011	85.8

HESA data for 137 institutions

### Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region

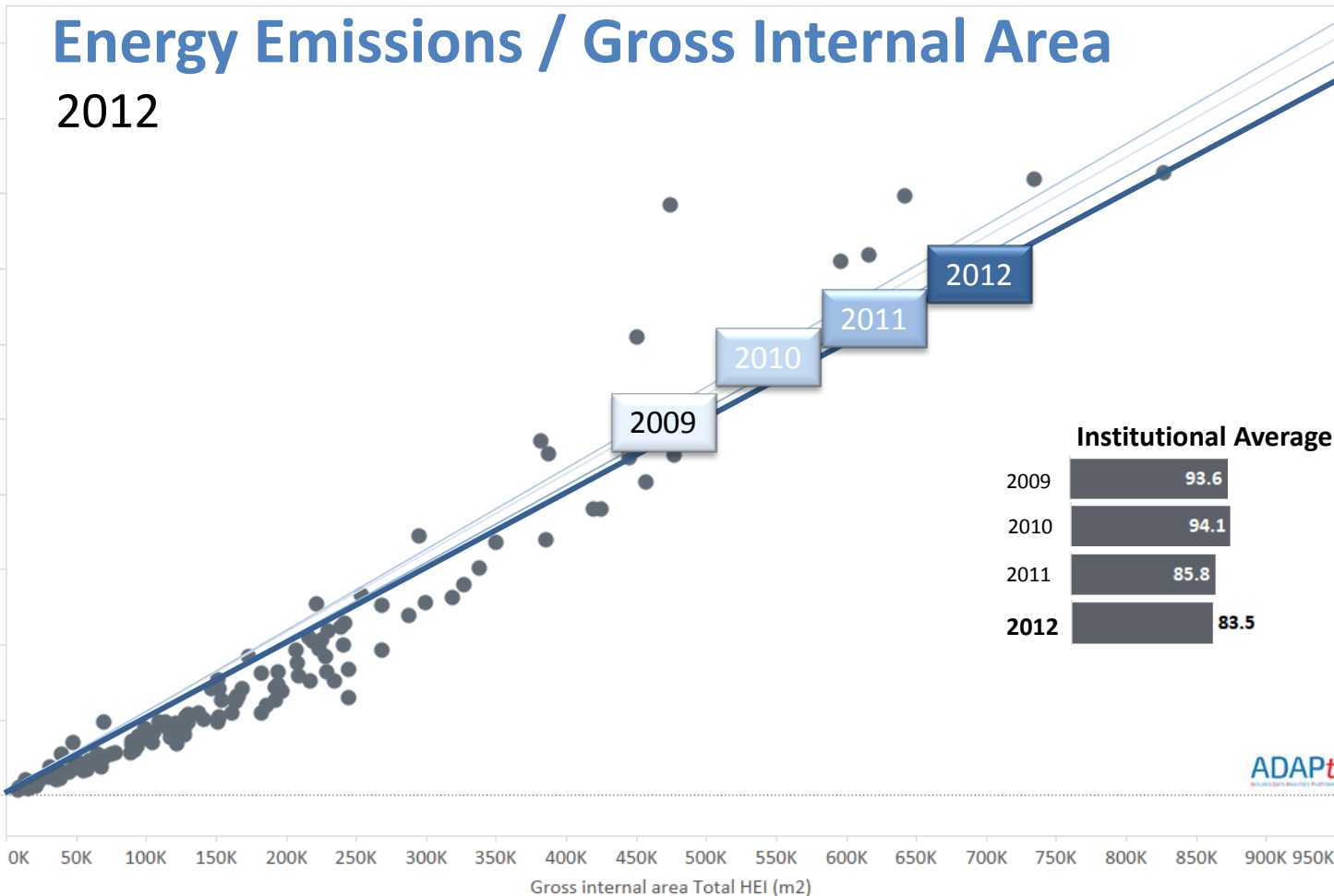


ADAPt  
ADAPTIVE DESIGN PARTNERSHIP

# Energy Emissions / Gross Internal Area

## 2012

Emissions from Energy (tCO<sub>2</sub>e)

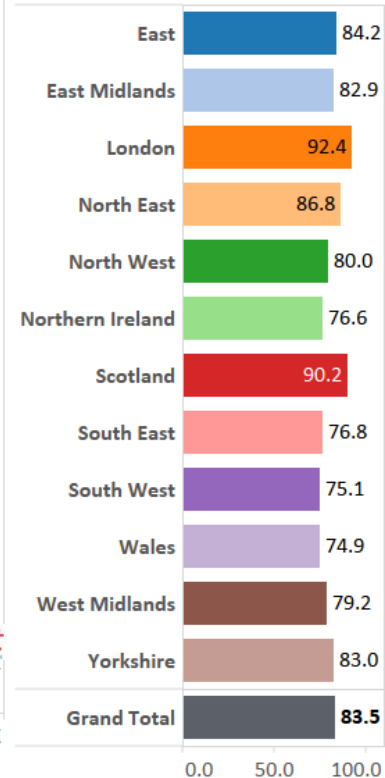


HESA data for 137 institutions

Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region

**Institutional Average**

2009	93.6
2010	94.1
2011	85.8
2012	83.5

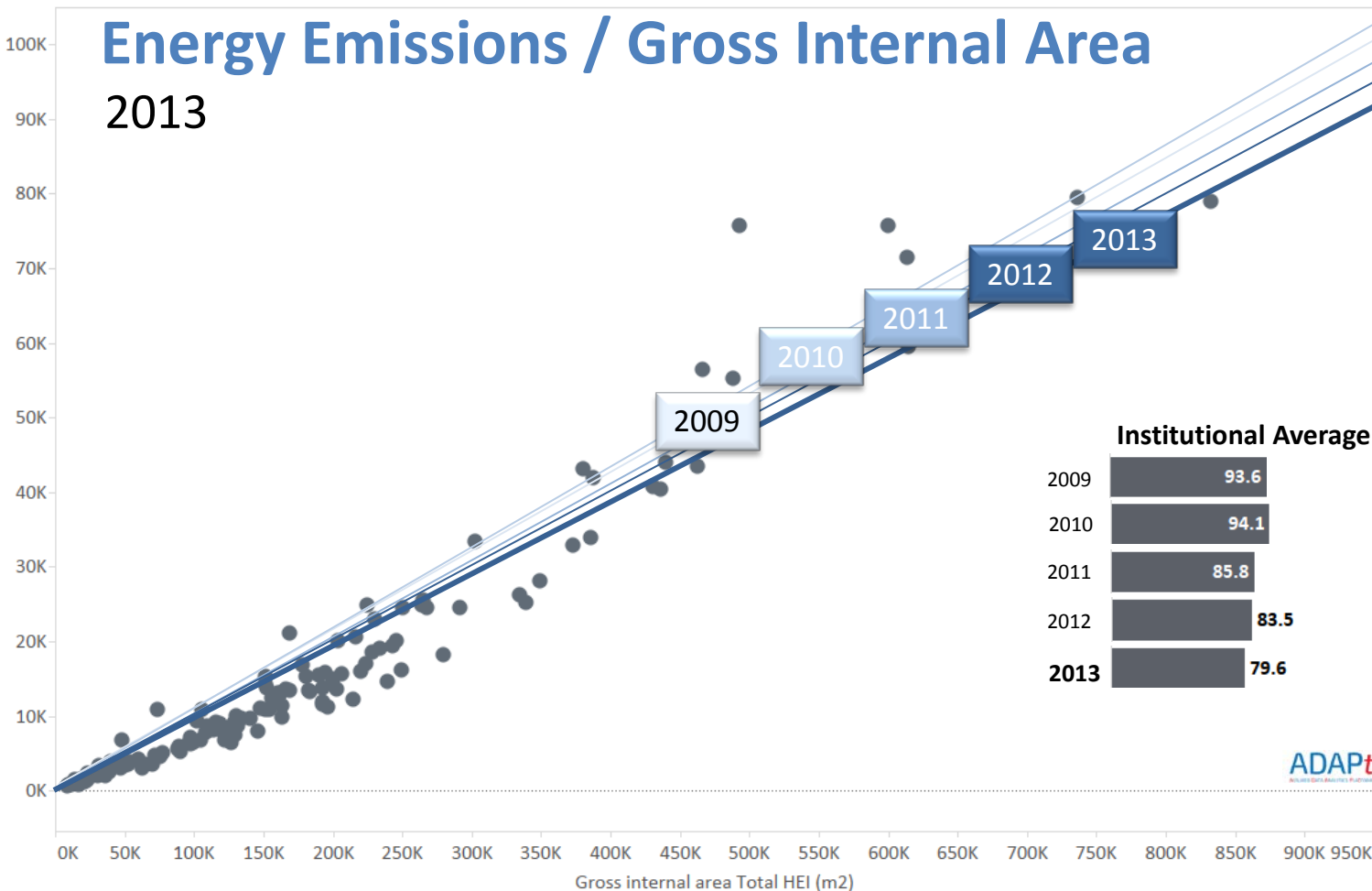


# Energy Emissions / Gross Internal Area

## 2013

HESA data for 137 institutions

Emissions from Energy (tCO<sub>2</sub>e)

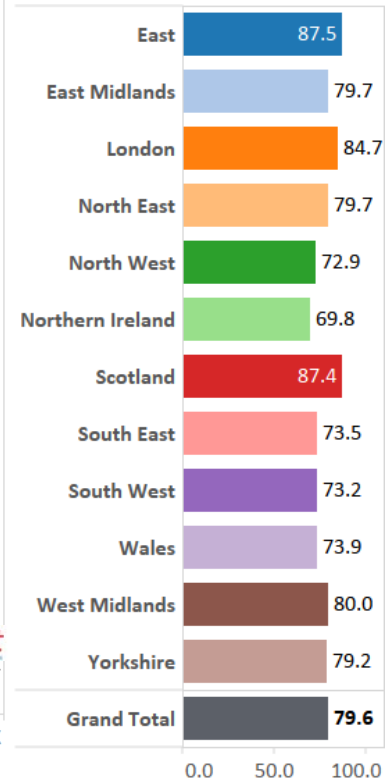


### Institutional Average

2009	93.6
2010	94.1
2011	85.8
2012	83.5
<b>2013</b>	<b>79.6</b>

ADAP<sup>t</sup>  
ADAPTIVE DESIGN AND PLANNING

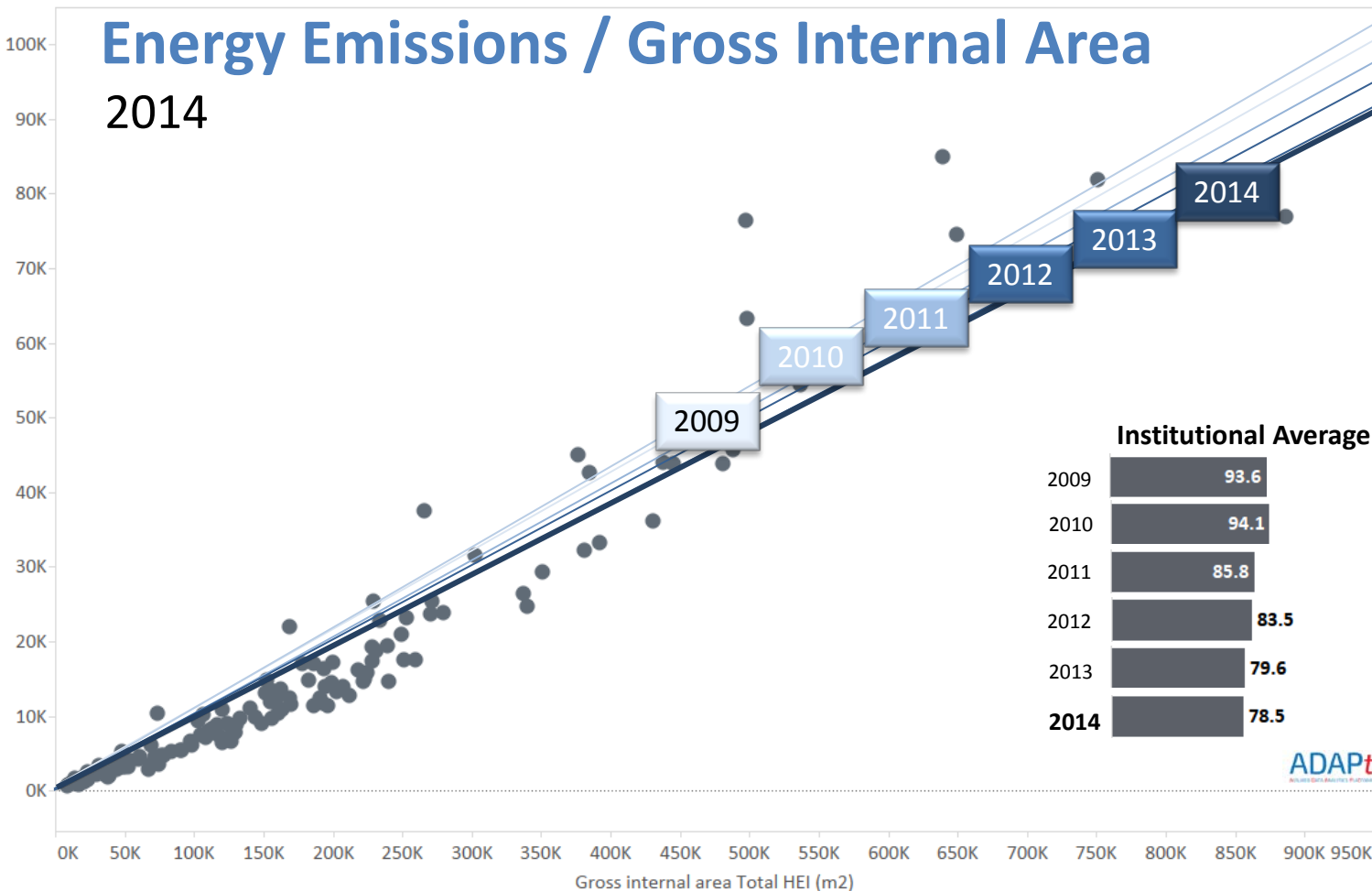
### Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region



# Energy Emissions / Gross Internal Area

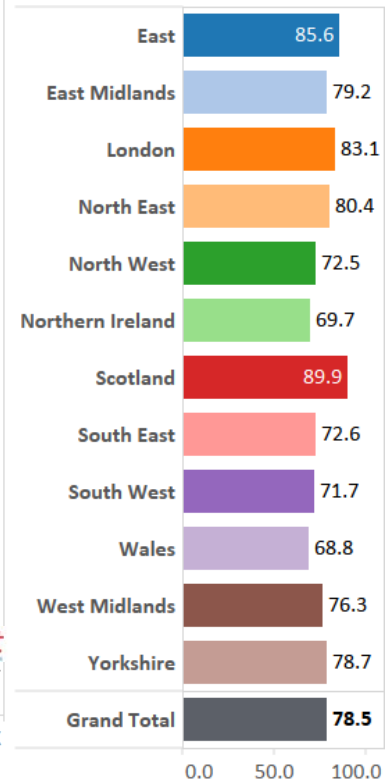
## 2014

Emissions from Energy (tCO<sub>2</sub>e)



HESA data for 137 institutions

Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region



ADAP<sup>t</sup>  
ADAPTIVE DESIGN

# Energy Emissions / Gross Internal Area

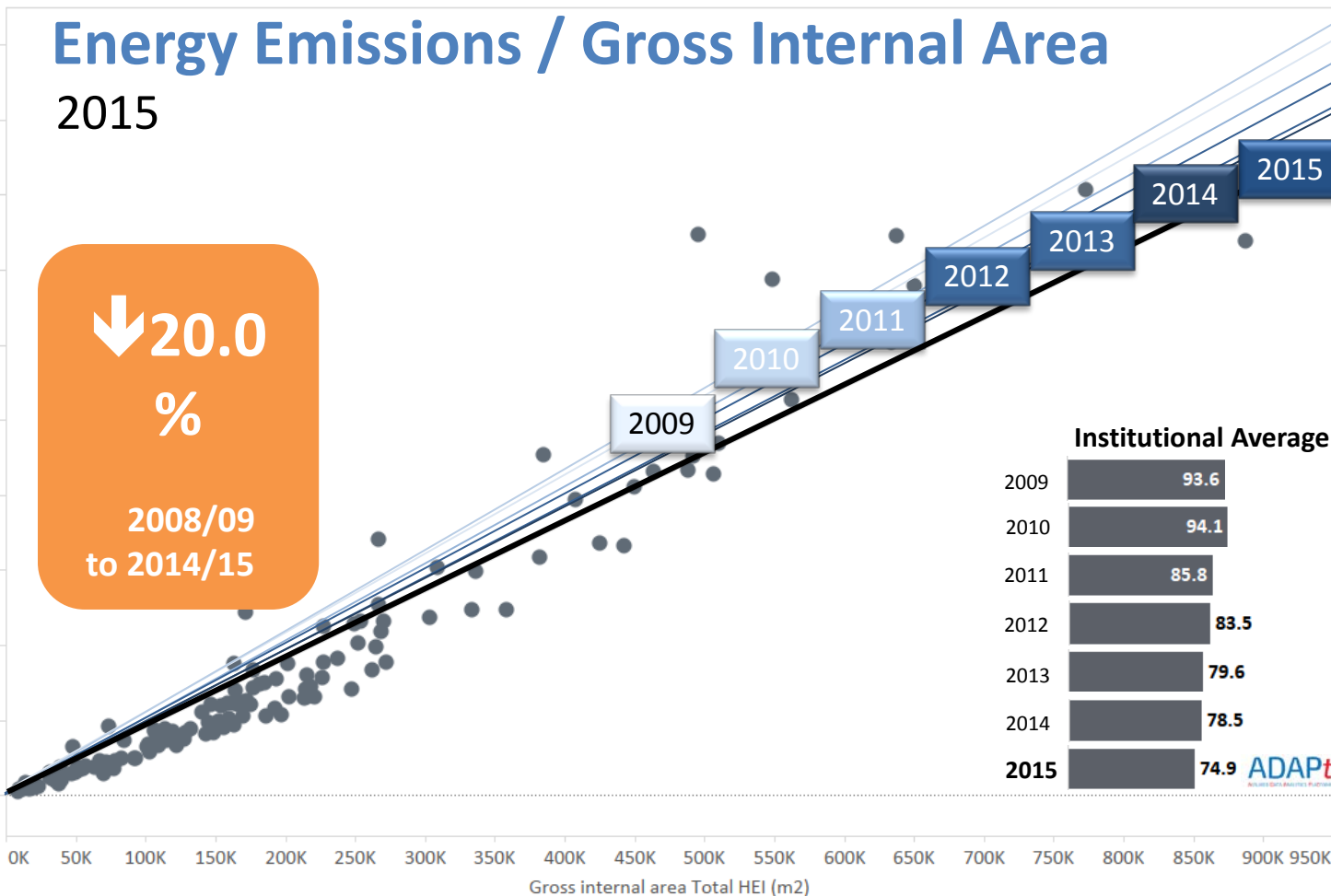
## 2015

HESA data for 137 institutions

Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region

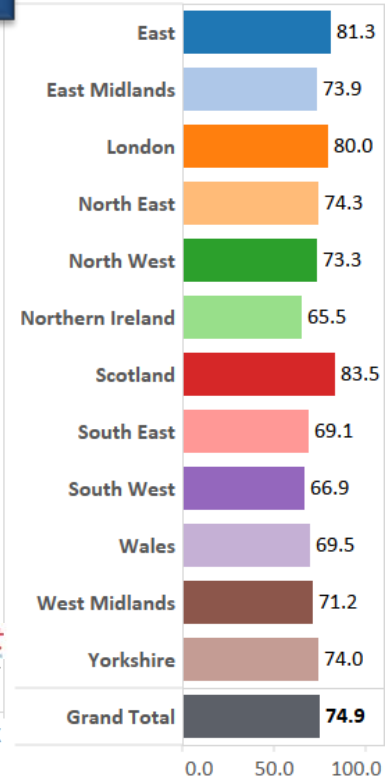
Energy from Energy (tCO<sub>2</sub>e)

↓ 20.0 %  
2008/09 to 2014/15



**Institutional Average**

2009	93.6
2010	94.1
2011	85.8
2012	83.5
2013	79.6
2014	78.5
2015	74.9



ADAPt

# Energy Emissions / Gross Internal Area

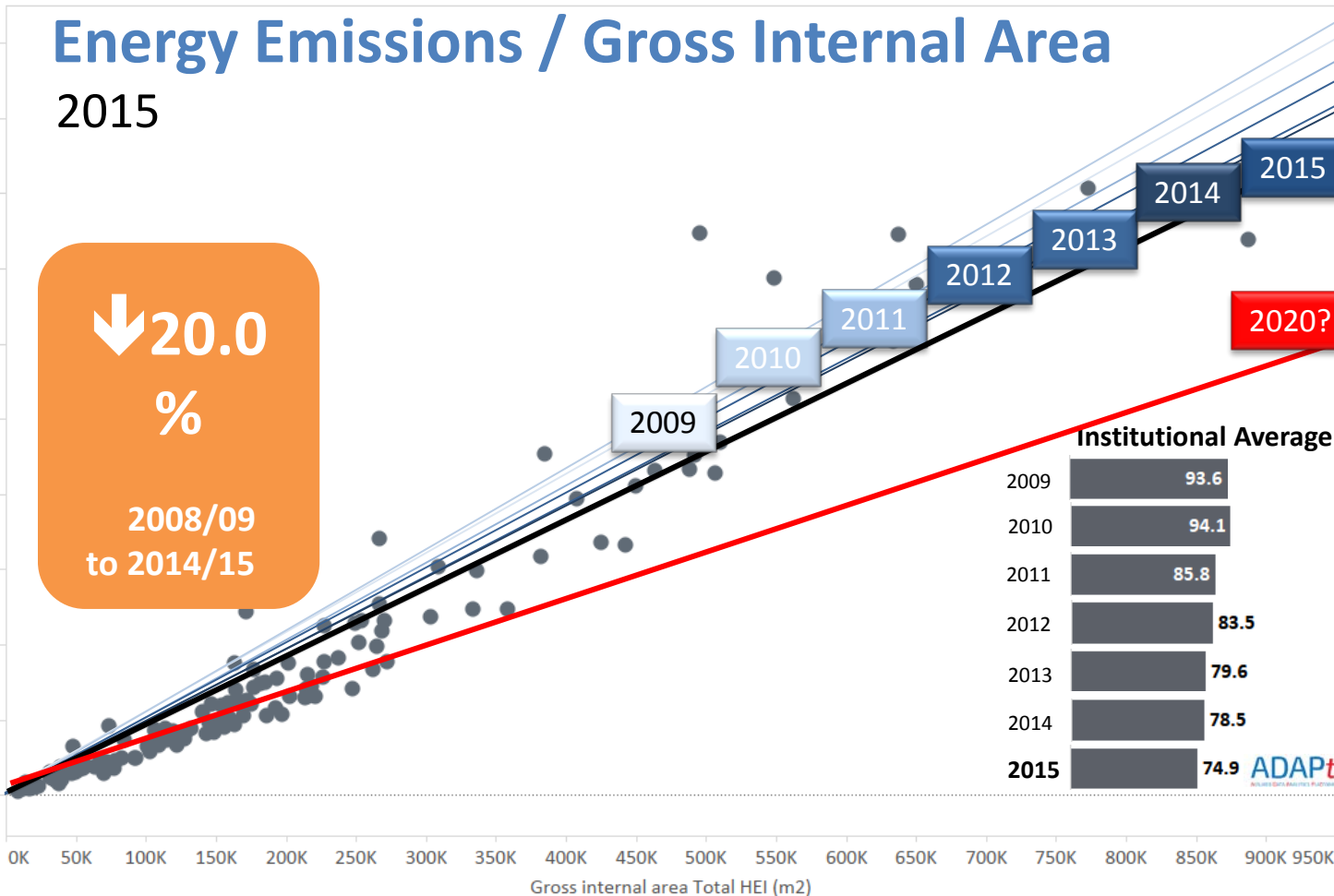
## 2015

HESA data for 137 institutions

Avg. Emissions from Energy / m<sup>2</sup> (kgCO<sub>2</sub>e) by Region

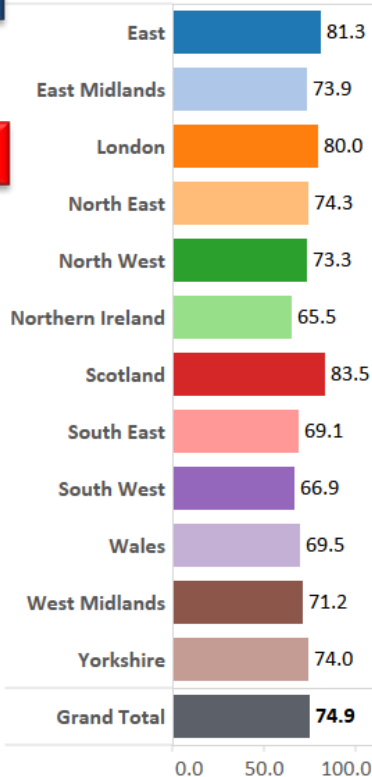
Energy from Energy (tCO<sub>2</sub>e)

↓ 20.0 %  
2008/09 to 2014/15



**Institutional Average**

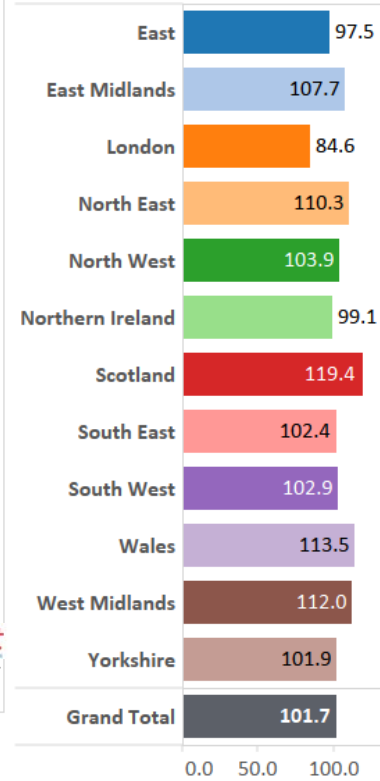
2009	93.6
2010	94.1
2011	85.8
2012	83.5
2013	79.6
2014	78.5
2015	74.9



ADAPt

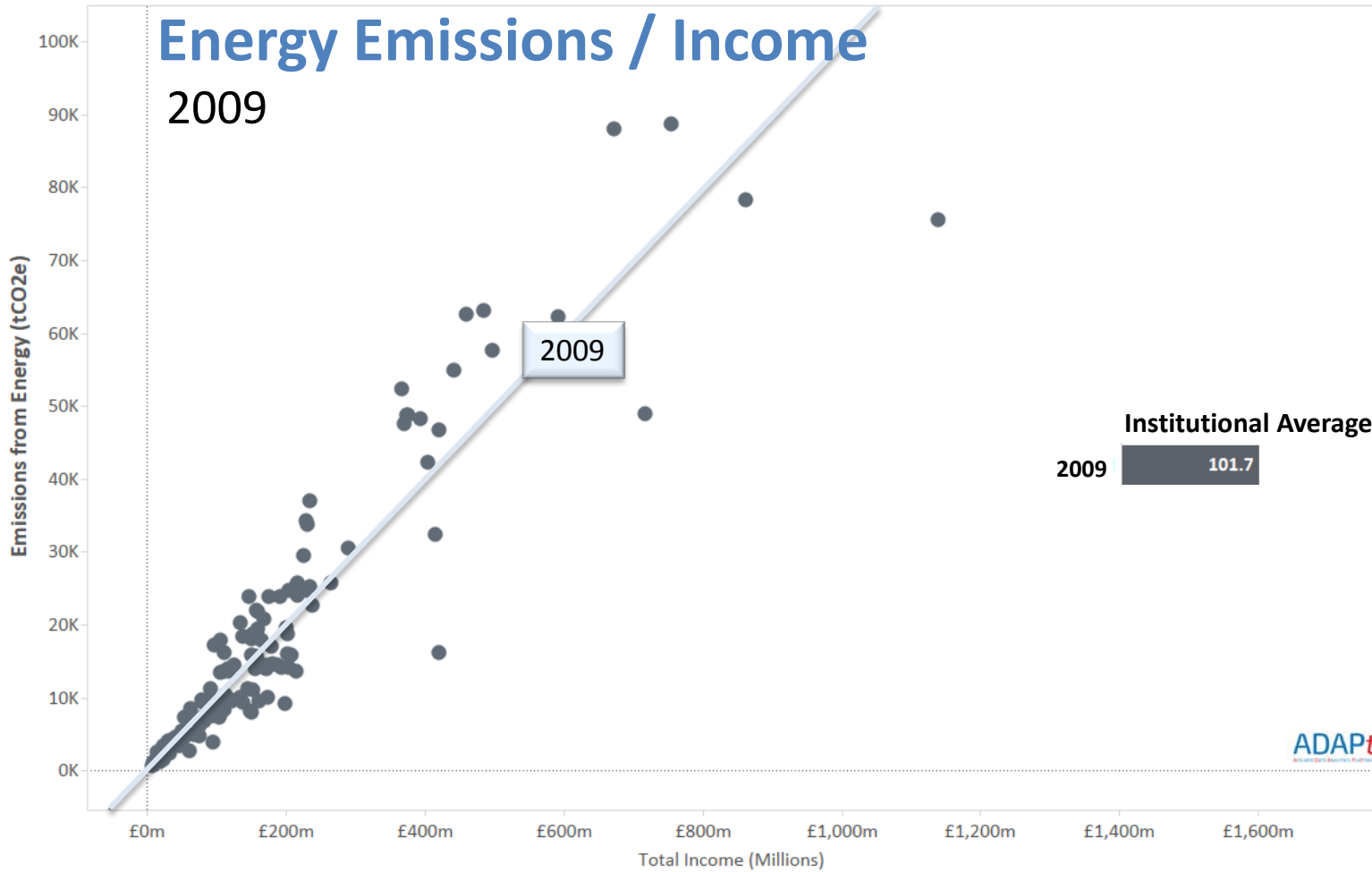
HESA data for  
137 institutions

Avg. Emissions from Energy /  
£1m (tCO<sub>2</sub>e) by Region



# Energy Emissions / Income

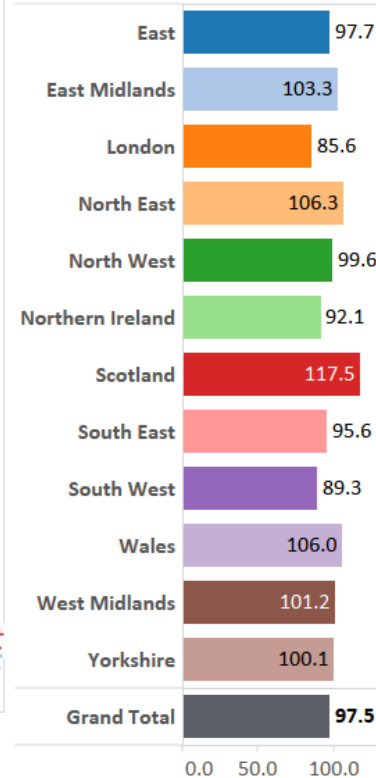
## 2009



ADAP<sup>t</sup>  
ANALYSIS AND ACTION PLAN

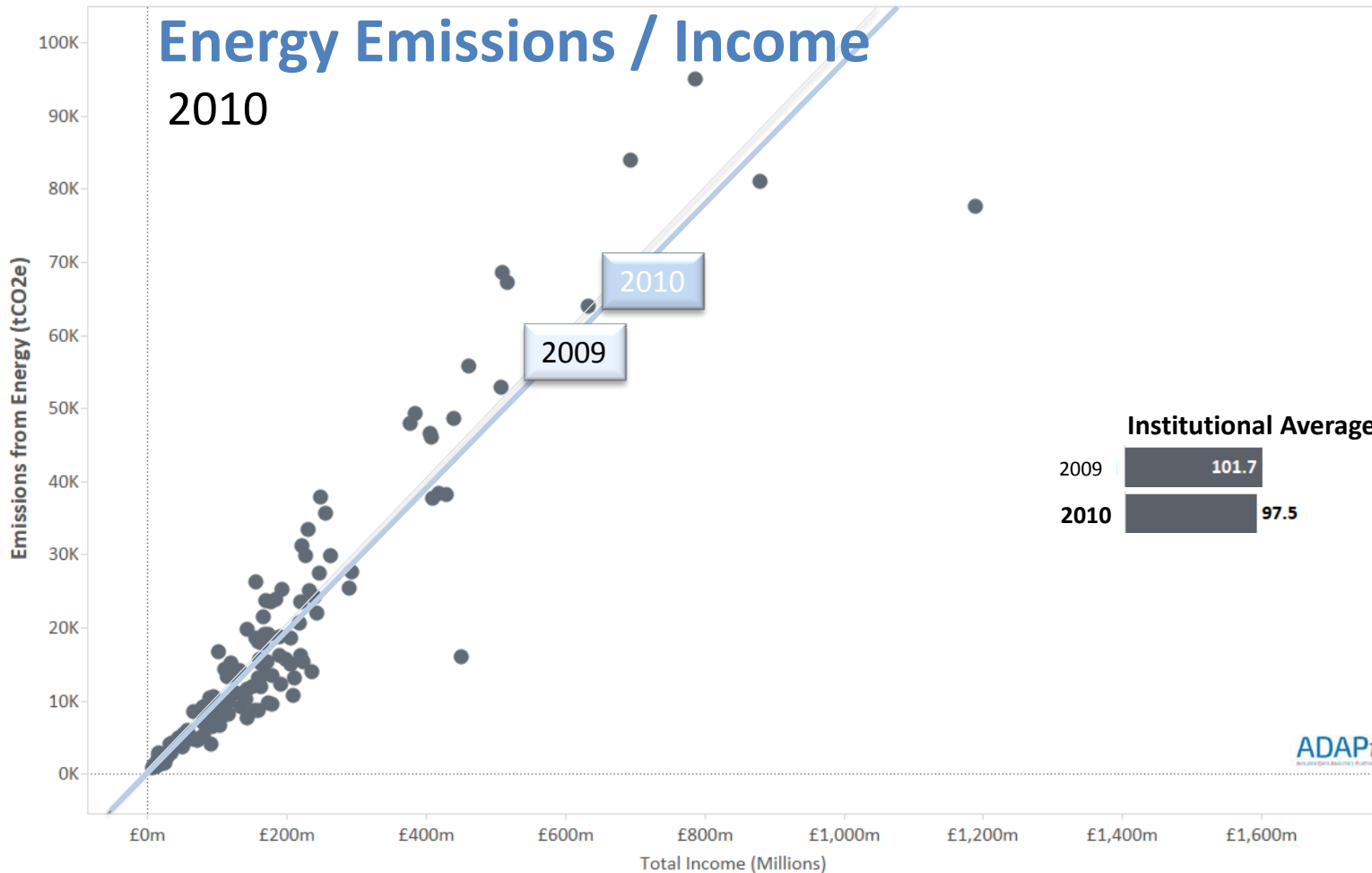
HESA data for  
137 institutions

Avg. Emissions from Energy /  
£1m (tCO<sub>2</sub>e) by Region



# Energy Emissions / Income

## 2010

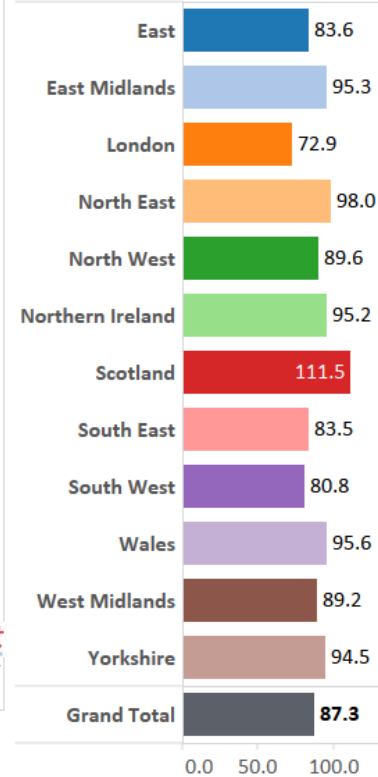


ADAP<sup>t</sup>  
ADAPTING TO CLIMATE CHANGE



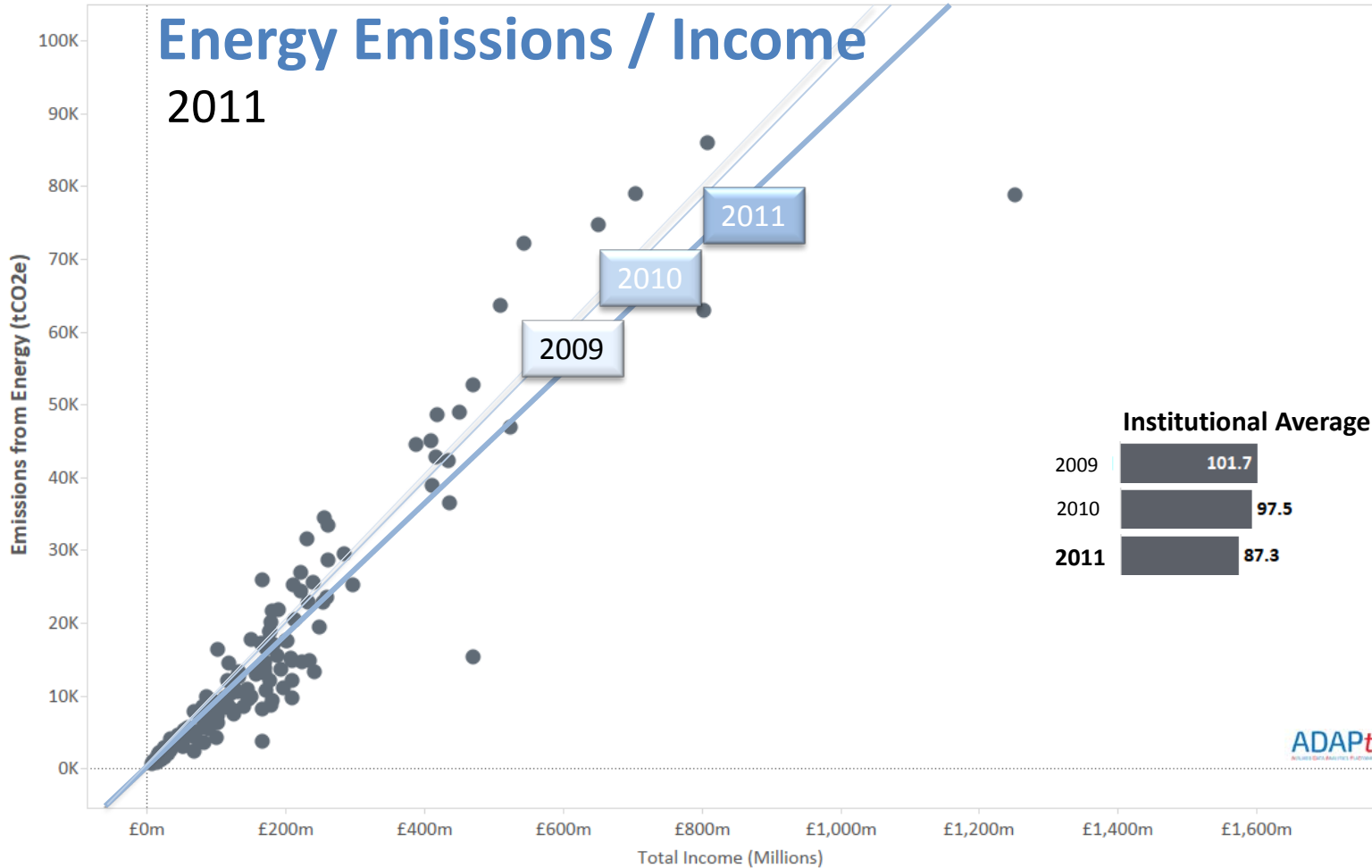
HESA data for  
137 institutions

Avg. Emissions from Energy /  
£1m (tCO<sub>2</sub>e) by Region



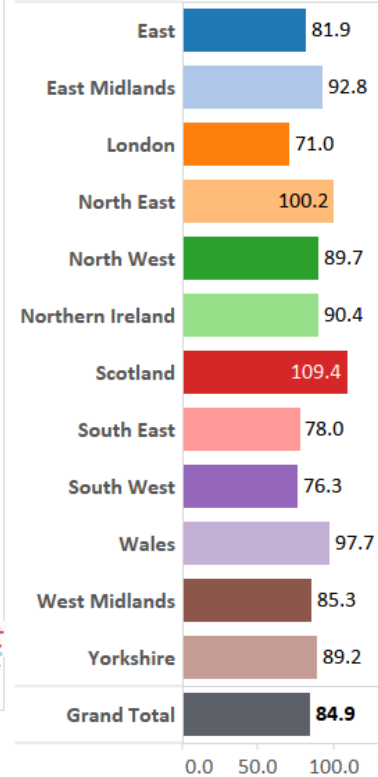
# Energy Emissions / Income

## 2011



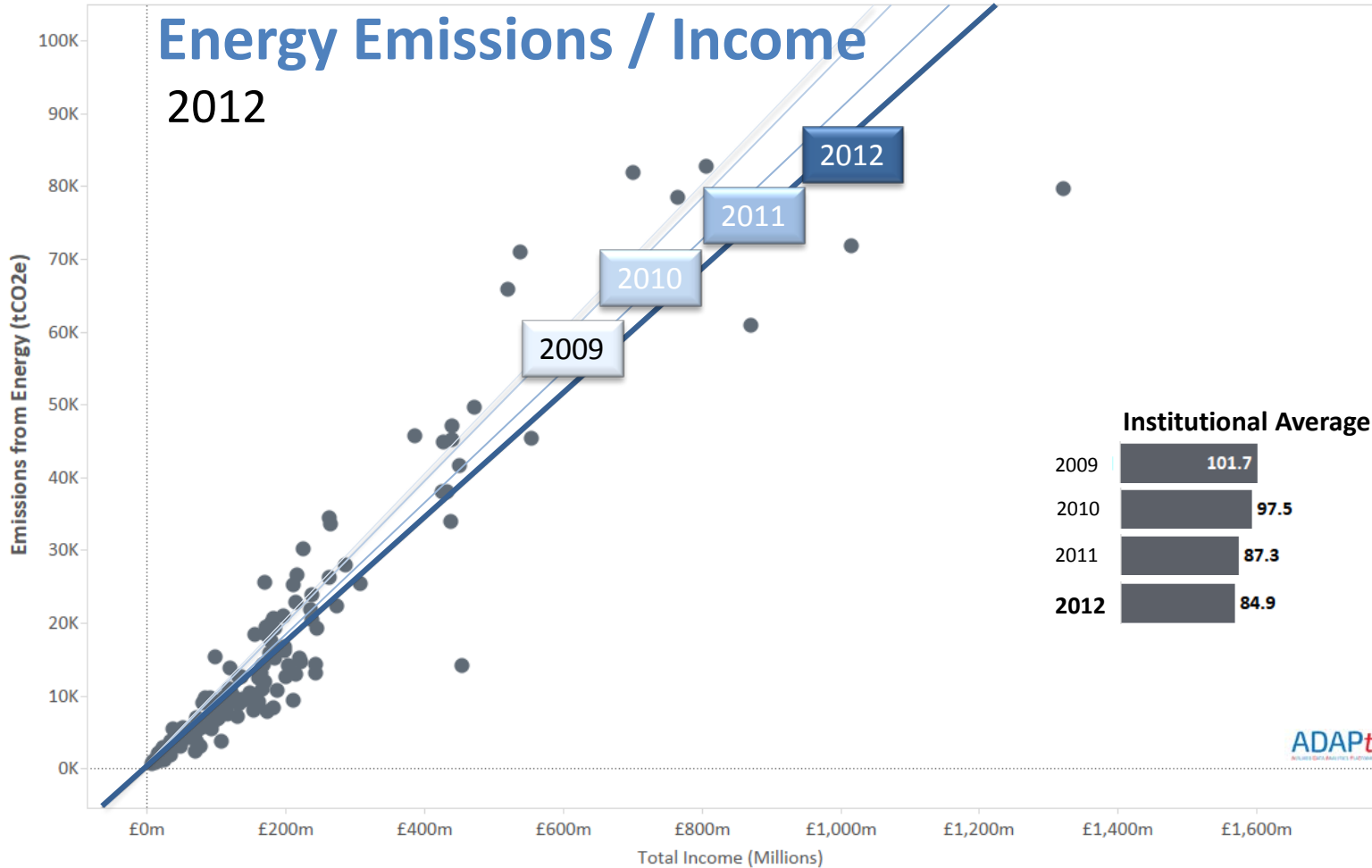
HESA data for  
137 institutions

Avg. Emissions from Energy /  
£1m (tCO<sub>2</sub>e) by Region



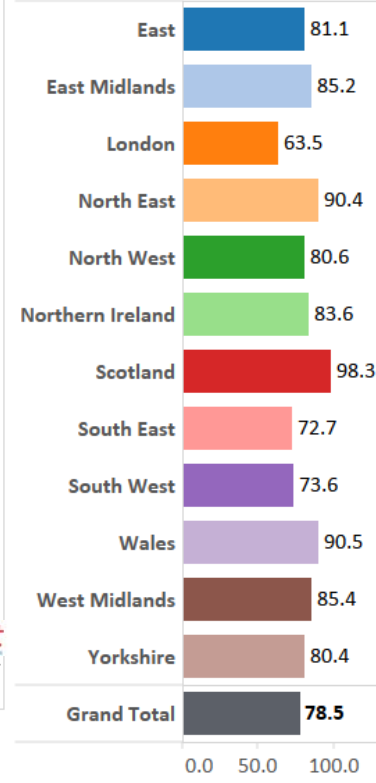
# Energy Emissions / Income

## 2012



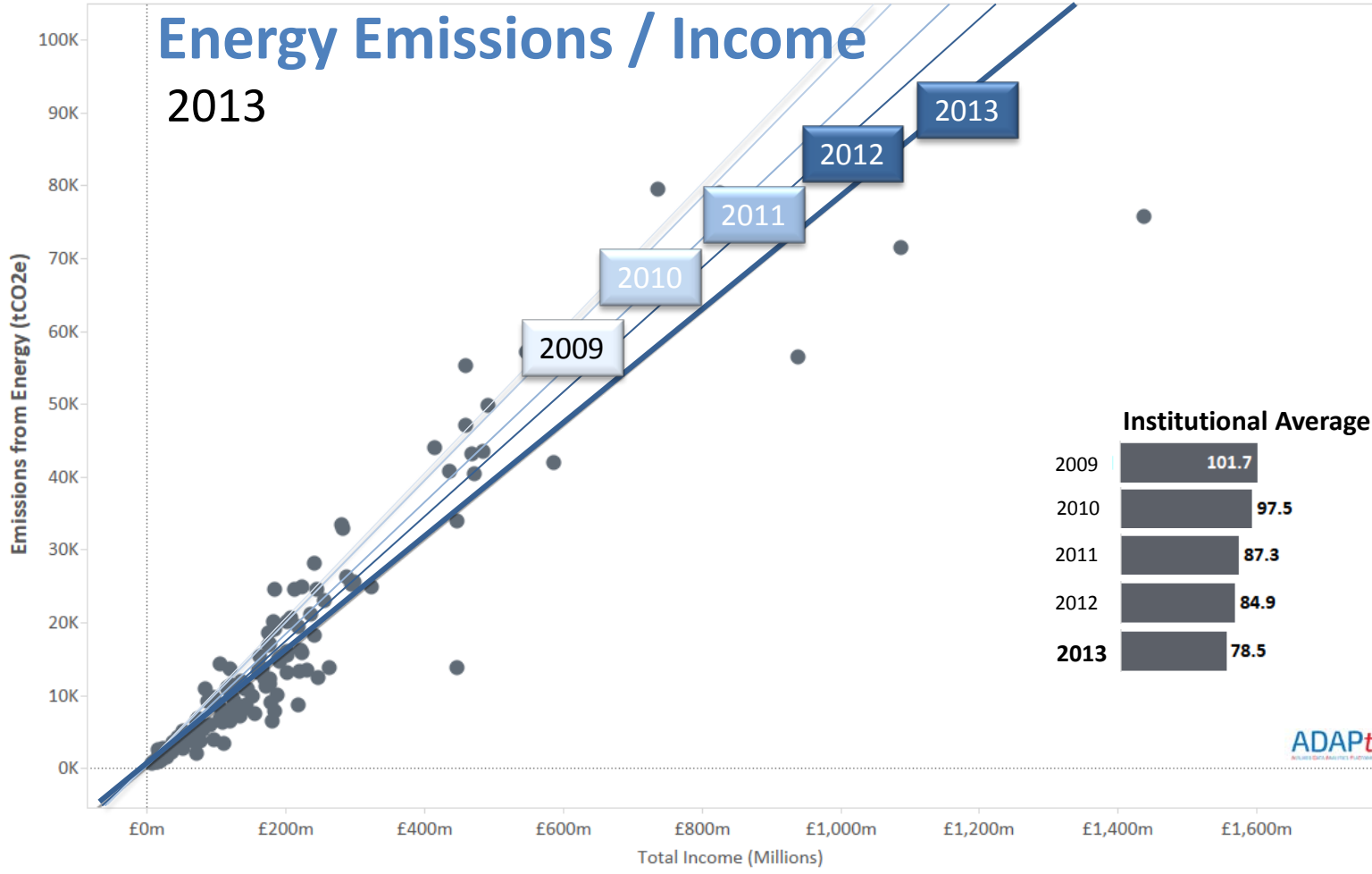
HESA data for 137 institutions

Avg. Emissions from Energy / £1m (tCO<sub>2</sub>e) by Region



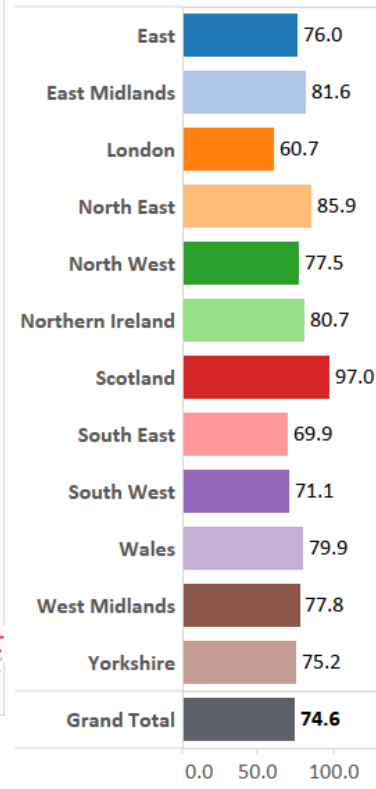
# Energy Emissions / Income

## 2013



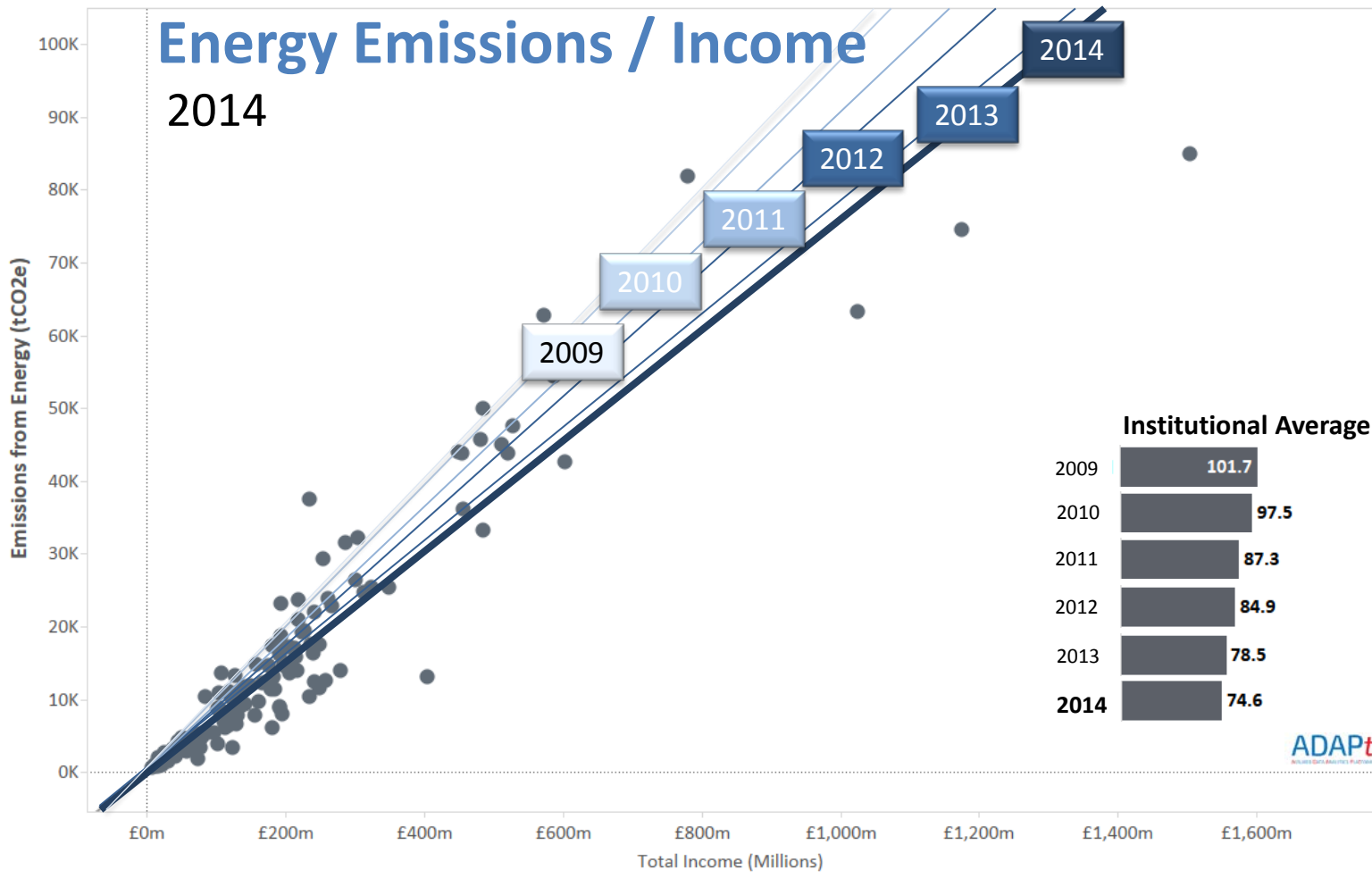
HESA data for 137 institutions

Avg. Emissions from Energy / £1m (tCO<sub>2</sub>e) by Region



# Energy Emissions / Income

## 2014

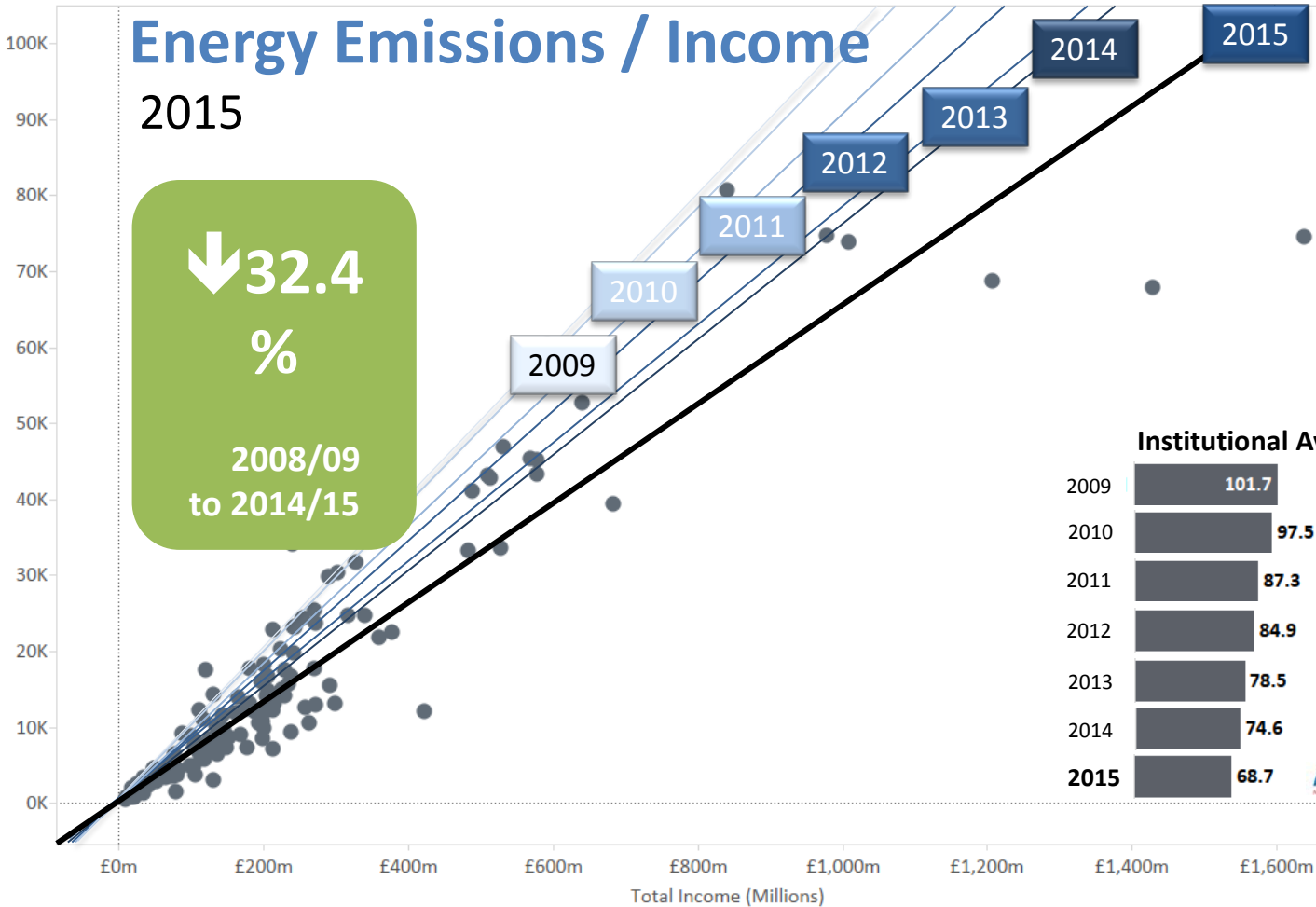


# Energy Emissions / Income

2015

↓ 32.4 %  
2008/09 to 2014/15

Emissions from Energy (tCO<sub>2</sub>e)



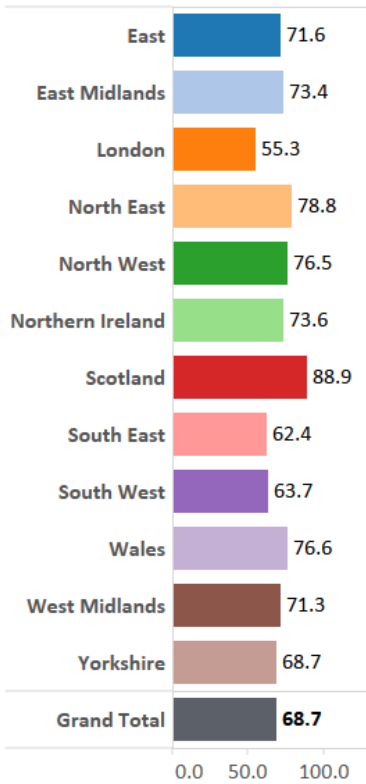
**Institutional Average**

2009	101.7
2010	97.5
2011	87.3
2012	84.9
2013	78.5
2014	74.6
2015	68.7



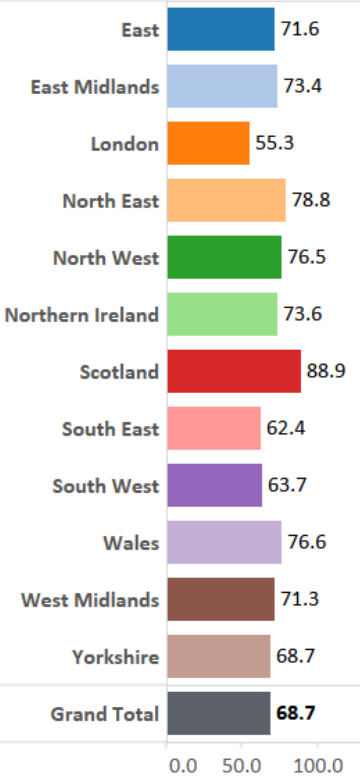
HESA data for 137 institutions

Avg. Emissions from Energy / £1m (tCO<sub>2</sub>e) by Region



HESA data for 137 institutions

Avg. Emissions from Energy / £1m (tCO<sub>2</sub>e) by Region



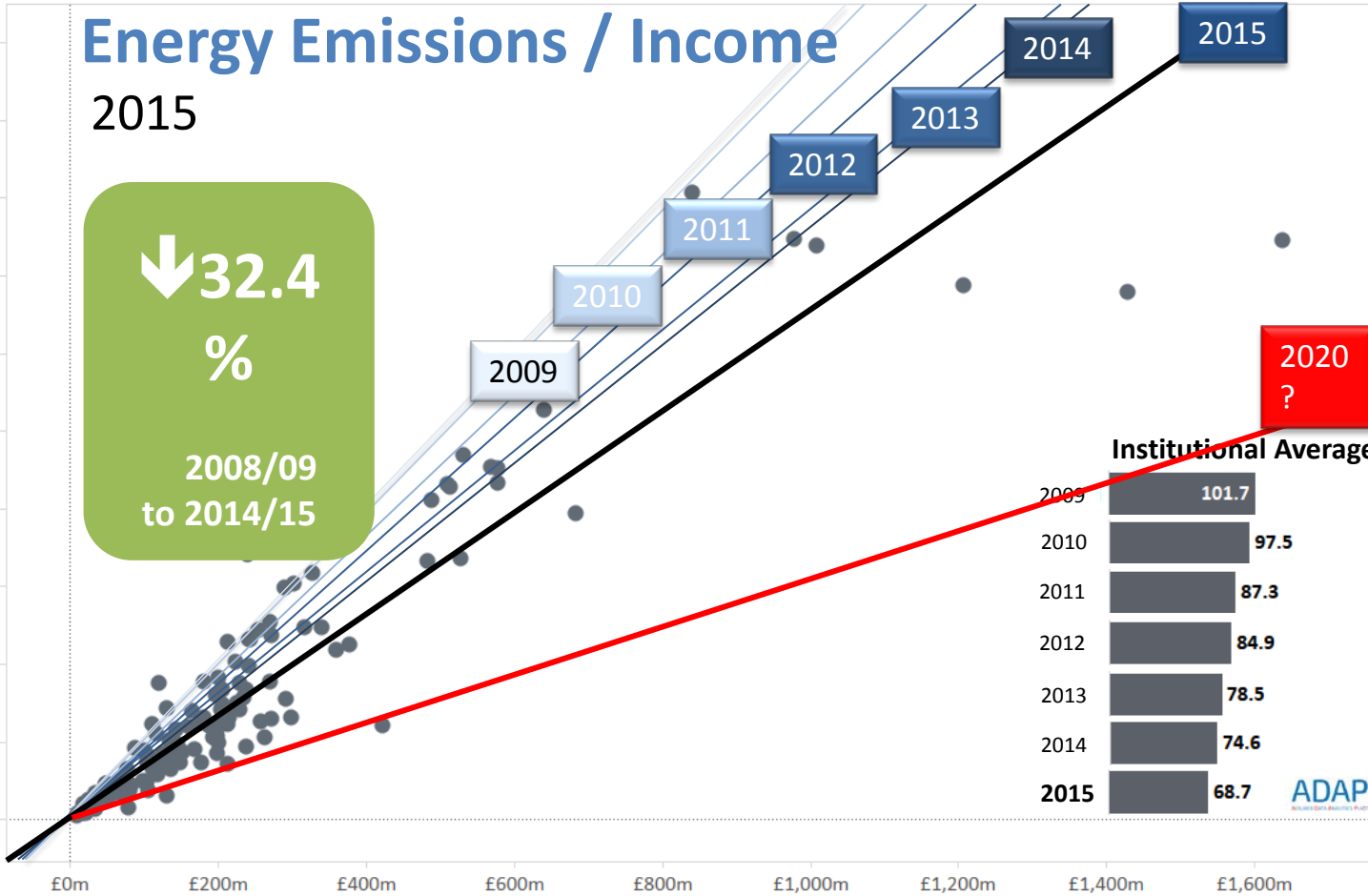
# Energy Emissions / Income

2015

↓ 32.4 %  
2008/09 to 2014/15

Emissions from Energy (tCO<sub>2</sub>e)

Total Income (Millions)



**Institutional Average**

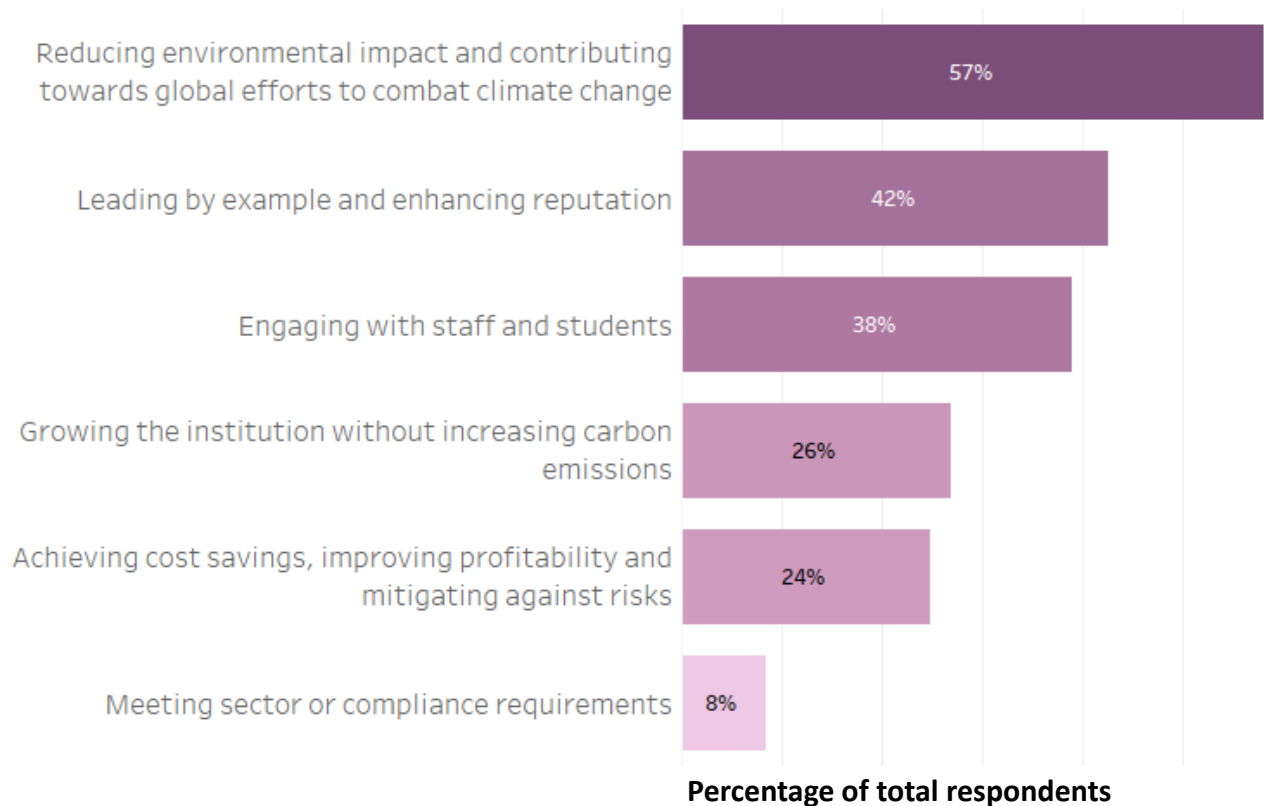
2009	101.7
2010	97.5
2011	87.3
2012	84.9
2013	78.5
2014	74.6
2015	68.7

2020 ?

ADAPt

# Why Are Universities Committed?

What are the **top two drivers** for environmental sustainability at your institution?



# SUSTAINABLE DEVELOPMENT GOALS





## Why we are here...



“ To enable a global  
low-carbon economy ”



“ to create a world  
with sustainability  
at its heart ”

# VICE CHANCELLOR PRIORITIES

1 STUDENT EXPERIENCE & LEARNING



2 PROMOTING & DEVELOPING TALENT



3 RESEARCH PROMINENCE



4 BRAND & REPUTATION DEVELOPMENT



5 FINANCIAL SUSTAINABILITY



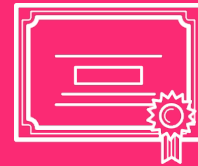
6 SOCIAL IMPACT



7 STUDENT ATTRACTION



8 OPERATIONAL EXCELLENCE

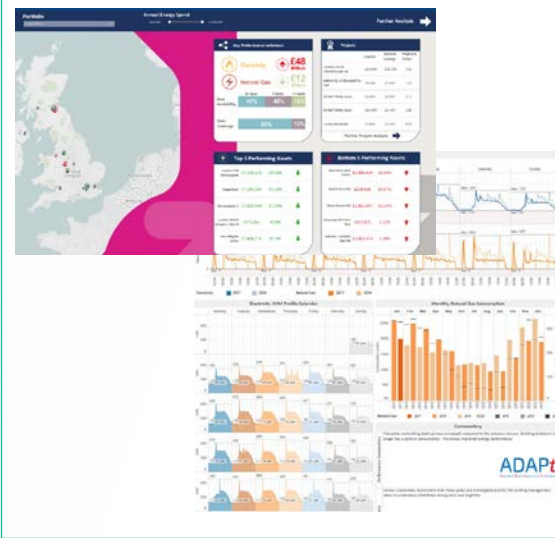


# Key practical steps for you to Enable:

## Carbon Management



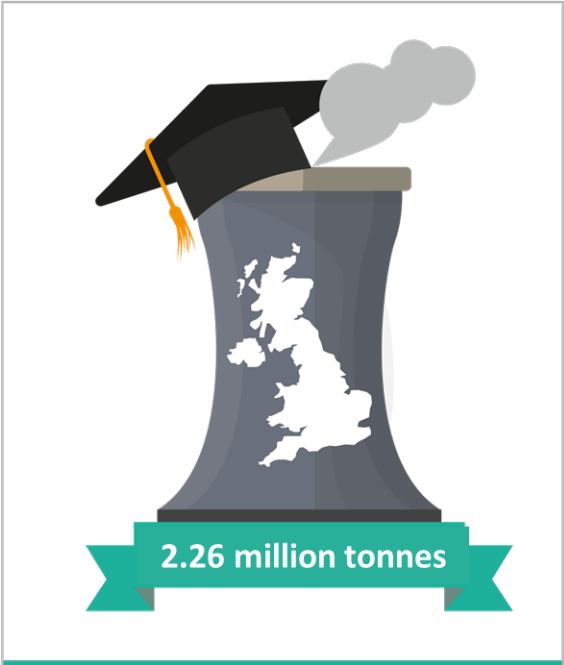
## Data Management



## Asset and Operational Performance Improvement



# Your Opportunity: 226,000 tonnes of carbon saved



Data from HESA: 156 institutions



# Thank you to all our clients for the opportunity to support your mission

*“Carbon Credentials’ innovation and expertise will enable us to **get more value out of our data** and **achieve our carbon management goals.**”*

**Mat Jane, Head of Energy & Environment, University of Winchester**



# ...working to Enable a Global Low Carbon Economy

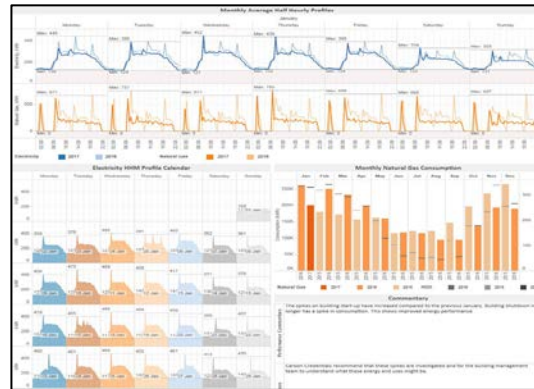
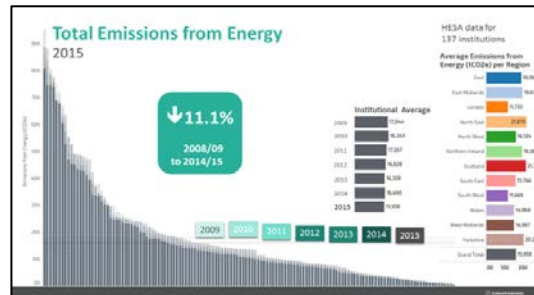
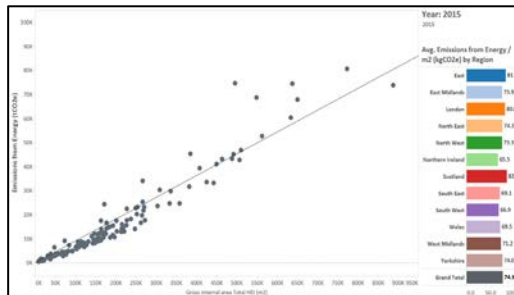
“Pod” Session

The Data Revolution

Today

11:20am – 11:40am

Exchange Room, LICA



App Secret Word:  
Goal 4 Quality Education



# Keynote Session

**Global Goals: Local Action – the Vital Role the Education Sector has in Changing Mindsets**

with

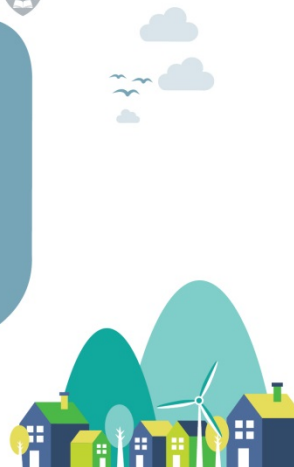
**Malcolm Preston** - Global Head of Sustainability Services at PricewaterhouseCoopers

**Stephen Sterling** - Professor of Sustainability Education at the Centre for Sustainable Futures, University of Plymouth and ESD Consultant to UNESCO

**Wendy Purcell** - EAUC Board Director/Trustee, Emeritus Professor and Visiting Scientist  
Harvard University



21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Welcome

**Wendy Purcell** - EAUC Board Director/Trustee, Emeritus Professor and Visiting Scientist Harvard University

**@TheEAUC**  
**#EAUCConf17**

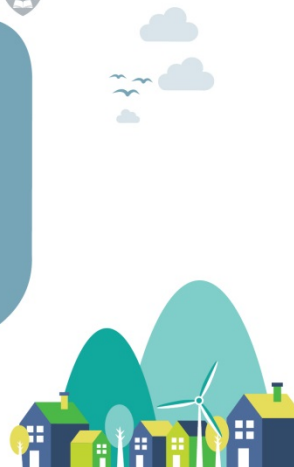






21st ANNUAL CONFERENCE  
28-30 MARCH 2017

 GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Welcome

**Malcolm Preston** - Global Head of Sustainability Services at  
PricewaterhouseCoopers

**@TheEAUC**  
**#EAUCConf17**



***EAUC***  
***Global Goals: Local Action***

***The Vital Role of the Education  
Sector***

***Malcolm Preston, Global Head of Sustainability,  
PwC***

March 2017

# 17 Global Goals ratified by 193 UN Member States in September 2015...



---

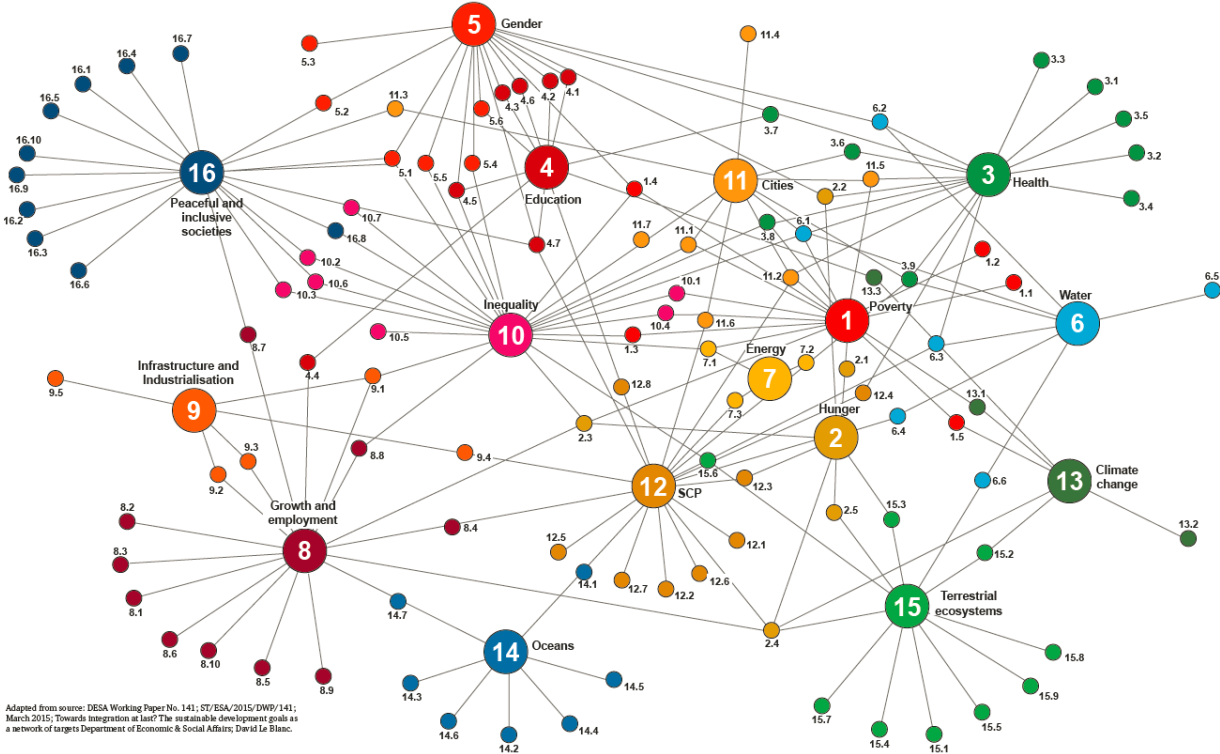
“... **complexity** is  
not an excuse  
for **complacency**  
and delay”

Christine Lagarde, IMF Managing Director

# SDG's by theme



# SDG's by connection



Adapted from source: DESA Working Paper No. 141; ST/ESA/2015/DWP/141; March 2015; Towards Integration at last? The sustainable development goals as a network of targets Department of Economic & Social Affairs; David Le Blanc.

---

***So, what is the role of Education, beyond achieving SDG 4?***

*Teaching wider society about sustainability and the need for change*

# ***Sustainable Lifestyles***

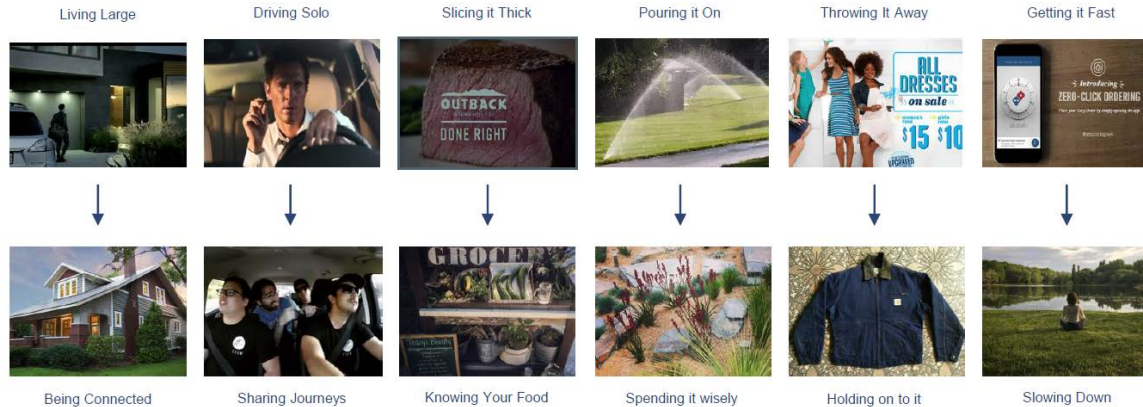
## ***The Good Life 1.0***





# ***Sustainable Lifestyles*** ***The Good Life 2.0***

## From Living Bigger to Living Better

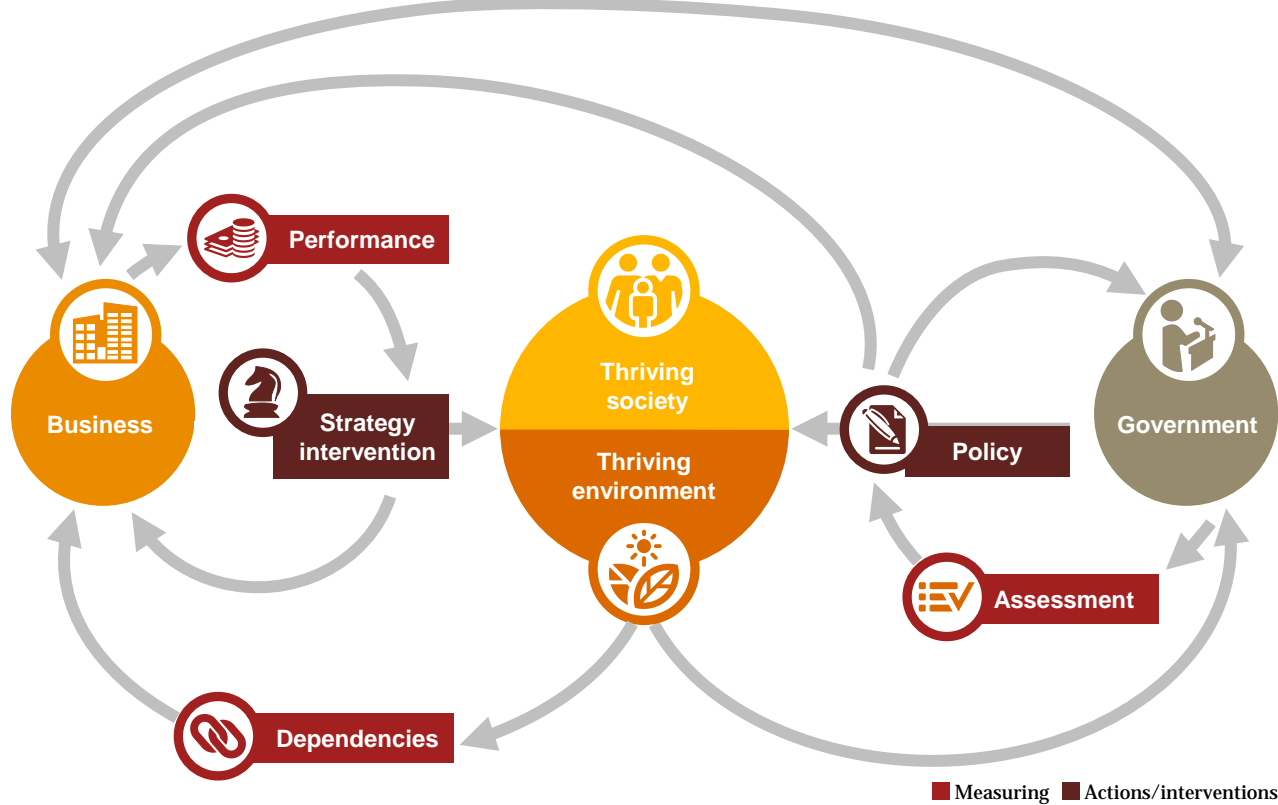


---

***So, what is the role of Education, beyond achieving SDG 4?***

*Equipping the Leaders of tomorrow with the relevant skills and understanding*

# Interconnected: Business in context

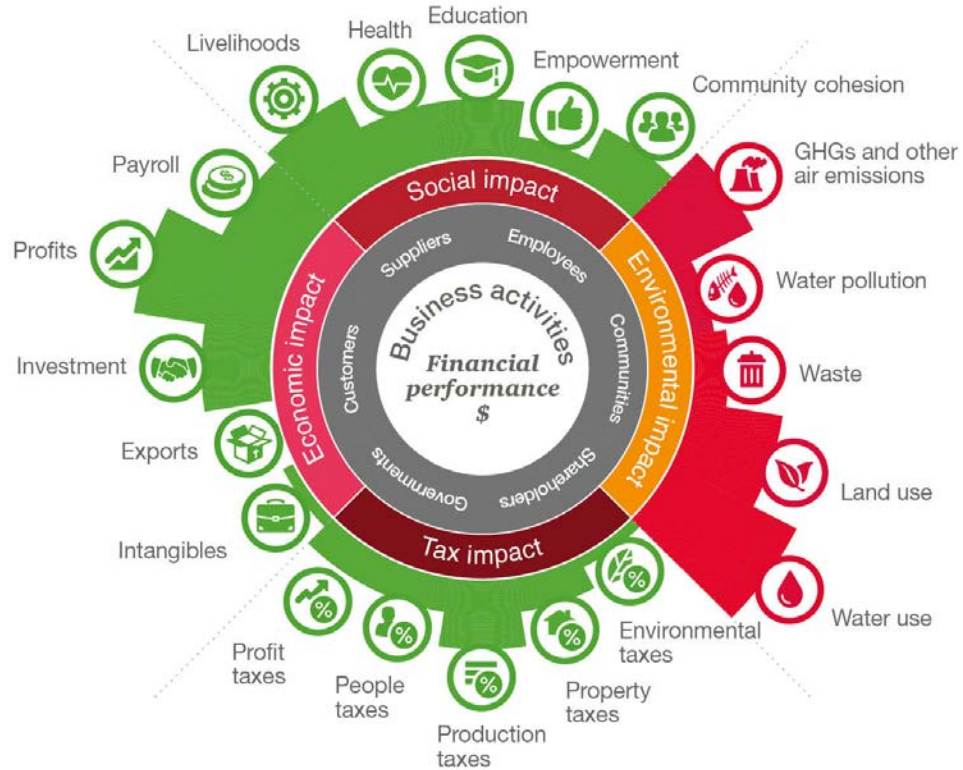


---

***So, what is the role of Education, beyond achieving SDG 4?***

*Developing the new frameworks and tools which will be needed*

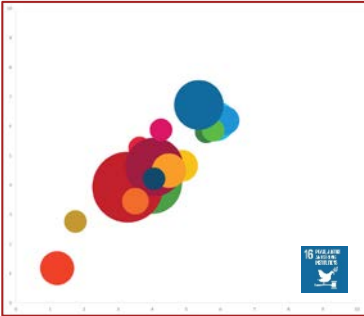
# Total Impact Measurement and Management (TIMM)



# SDG Impact - Country comparisons

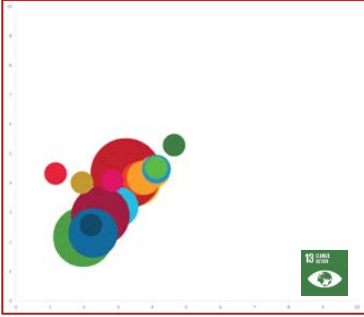
China

SDG16 / Peace & Justice



Japan

SDG13 / Climate Change



India

SDG10 / Quality Education



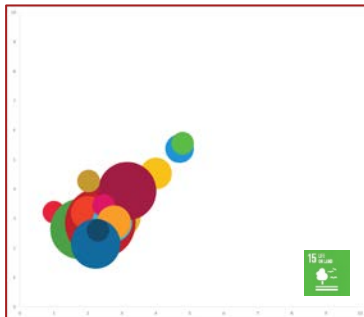
Brazil

SDG10 / Reduced Inequalities



UK

SDG4 / Life On Land



5 Countries  
5 Different Goal Configurations  
5 Different Goal Priorities

For a company operating in multiple territories the tool enables rapid comparison & prioritisation

---

***So, what is the role of Education, beyond achieving SDG 4?***

*Teaching wider society about sustainability and the need for change*

*Equipping the Leaders of tomorrow with the relevant skills and understanding*

*Developing the new frameworks and tools which will be needed*

---

# ***Thank you***

This publication has been prepared for general guidance on matters of interest only, and does not constitute professional advice. You should not act upon the information contained in this publication without obtaining specific professional advice. No representation or warranty (express or implied) is given as to the accuracy or completeness of the information contained in this publication, and, to the extent permitted by law, PricewaterhouseCoopers LLP, its members, employees and agents do not accept or assume any liability, responsibility or duty of care for any consequences of you or anyone else acting, or refraining to act, in reliance on the information contained in this publication or for any decision based on it.

© 2016 PricewaterhouseCoopers LLP. All rights reserved. In this document, "PwC" refers to PricewaterhouseCoopers LLP which is a member firm of PricewaterhouseCoopers International Limited, each member firm of which is a separate legal entity.





21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Welcome

**Stephen Sterling** - Professor of Sustainability Education at the Centre for Sustainable Futures, University of Plymouth and ESD Consultant to UNESCO

**@TheEAUC**  
**#EAUCConf17**



App Secret Word:  
Goal 4 Quality Education



21<sup>st</sup> ANNUAL CONFERENCE  
28-30 MARCH 2017  
 GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Keynote Session

Global Goals: Local Action – the Vital Role the Education Sector  
has in Changing Mindsets

Q&A

@TheEAUC  
#EAUCConf17



---

## Question C

**Do you understand the Sustainable Development Goals sufficiently to tell Departmental Colleagues about them?**

- No
- Yes

Vote Now



[www.eaucconferenceapp.org.uk](http://www.eaucconferenceapp.org.uk)

---

## Question D

**How likely are you to take the SDGs and embed/  
map against your institutional strategy?**

- Not
- Quite
- Very

Vote Now



[www.eaucconferenceapp.org.uk](http://www.eaucconferenceapp.org.uk)

App Secret Word:  
Goal 4 Quality Education



21<sup>st</sup> ANNUAL CONFERENCE  
28-30 MARCH 2017  
 GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



# Keynote Session

**Global Goals: Local Action – the Vital Role the Education Sector  
has in Changing Mindsets**

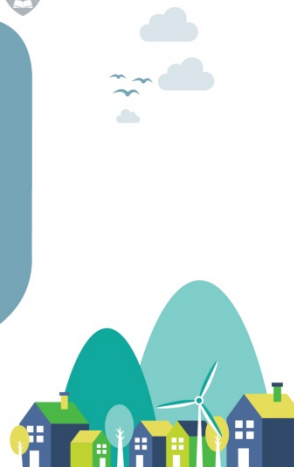
**Thank You to Our Panel**

**@TheEAUC  
#EAUCConf17**





21st ANNUAL CONFERENCE  
28-30 MARCH 2017  
GLOBAL GOALS:  
LOCAL ACTION



HEADLINE SPONSOR



## What Next?

Refreshments are now available in the exhibition area in the LICA Building.

Staff will be on hand to guide you.

@TheEAUC  
#EAUCConf17

