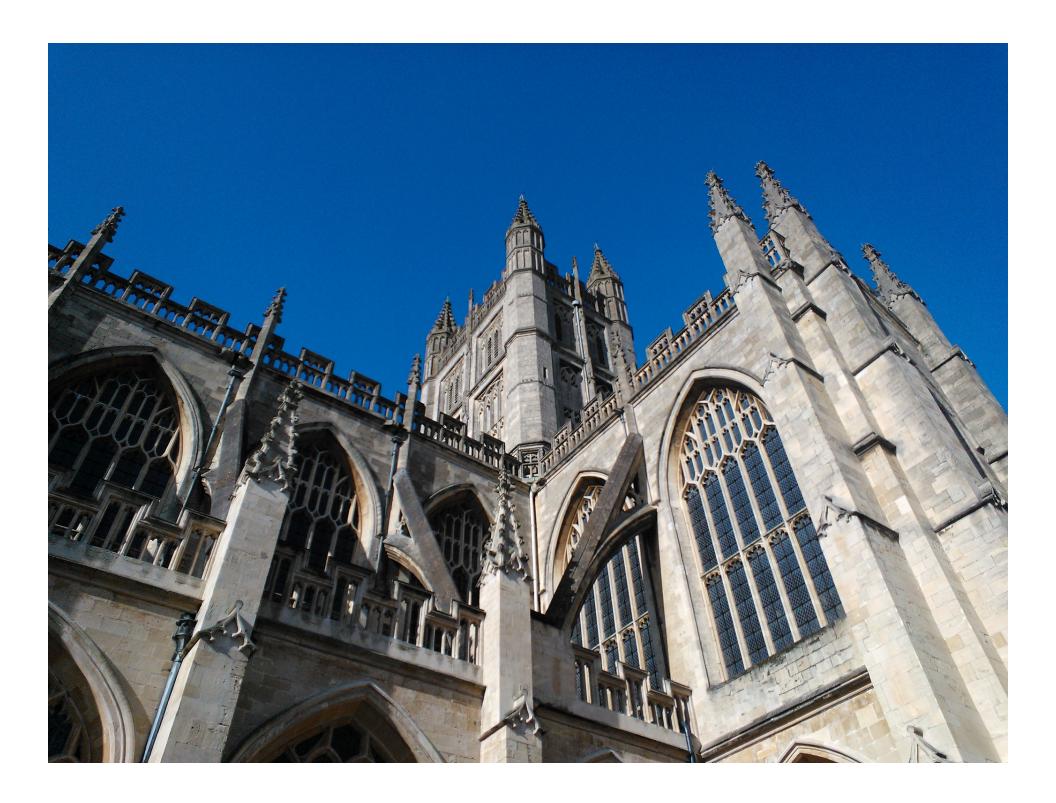


Steel and Cement junkies: we're hooked, what can we do?

Julian Allwood 18<sup>th</sup> March 2014

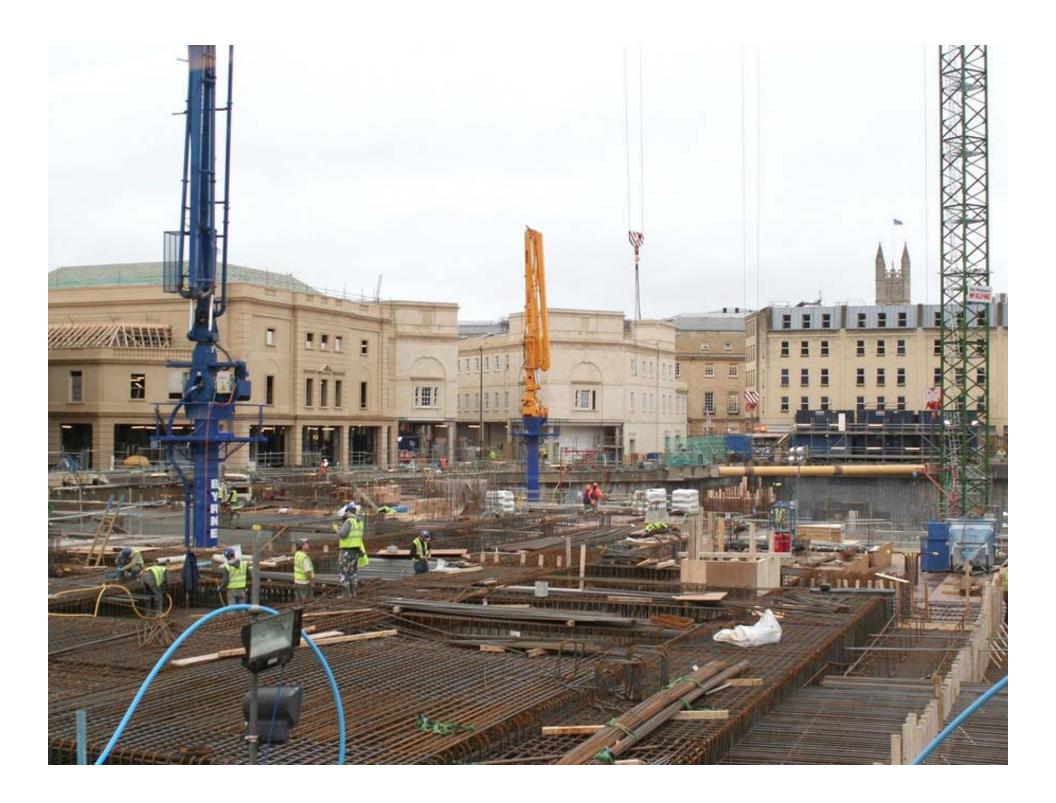




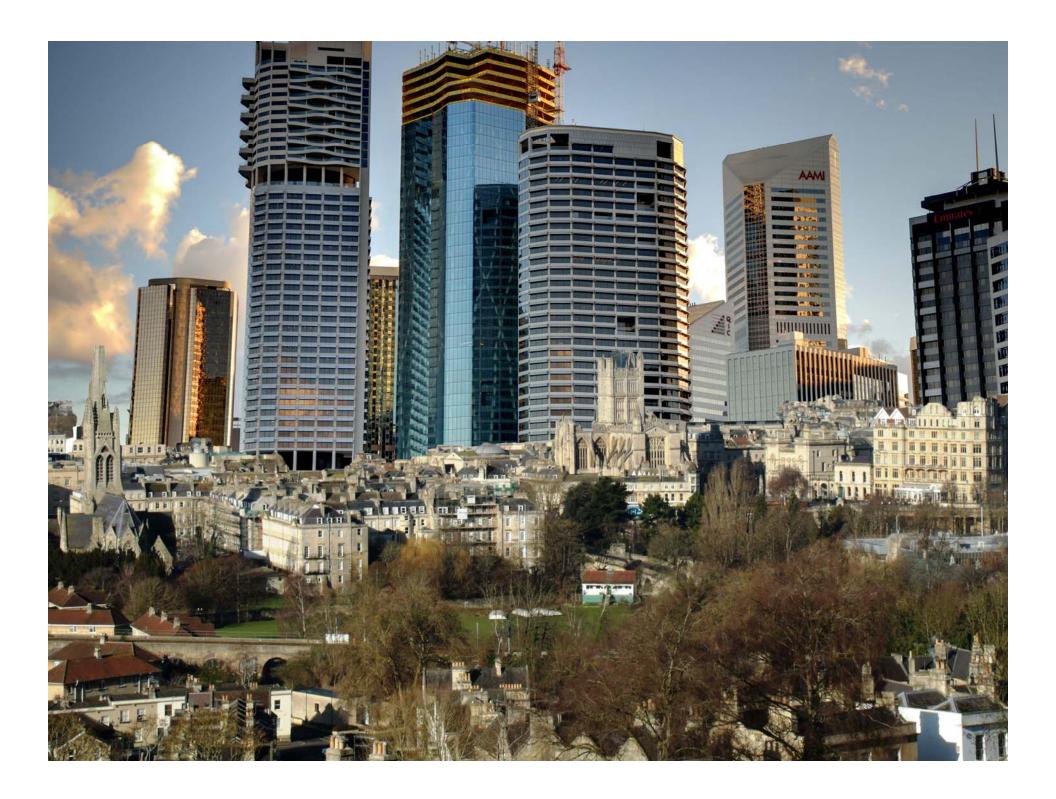


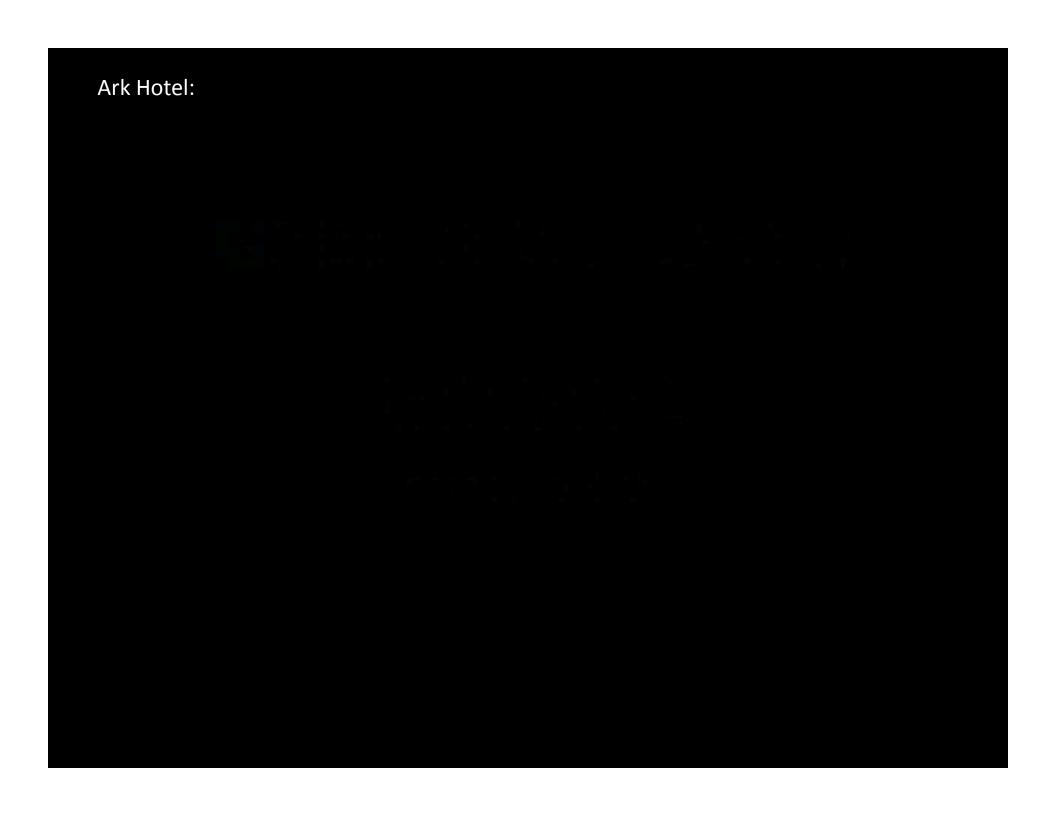


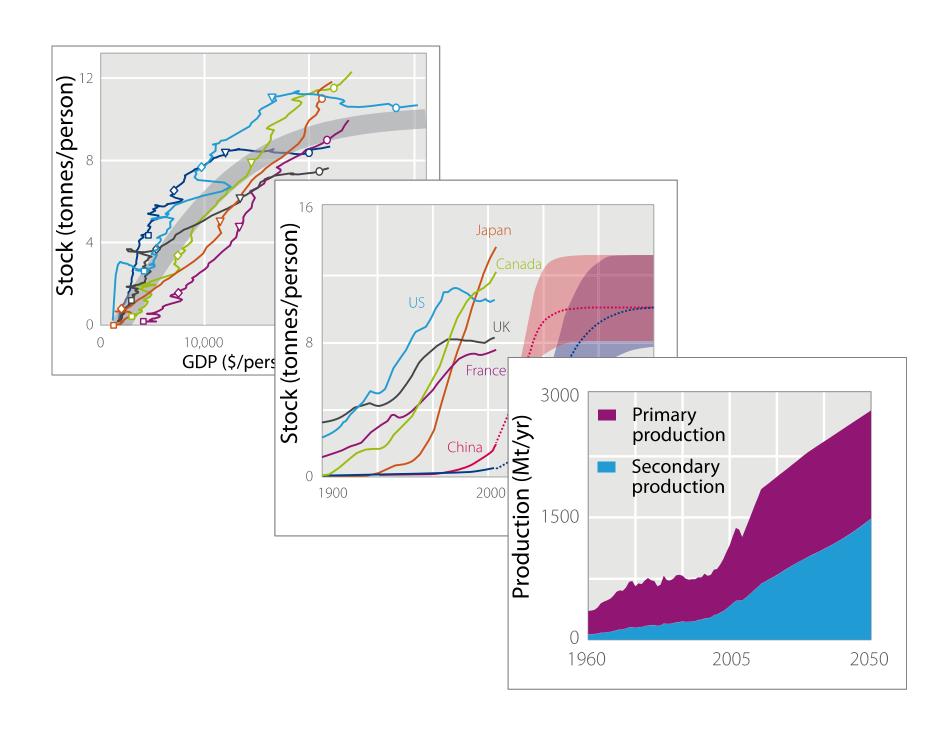


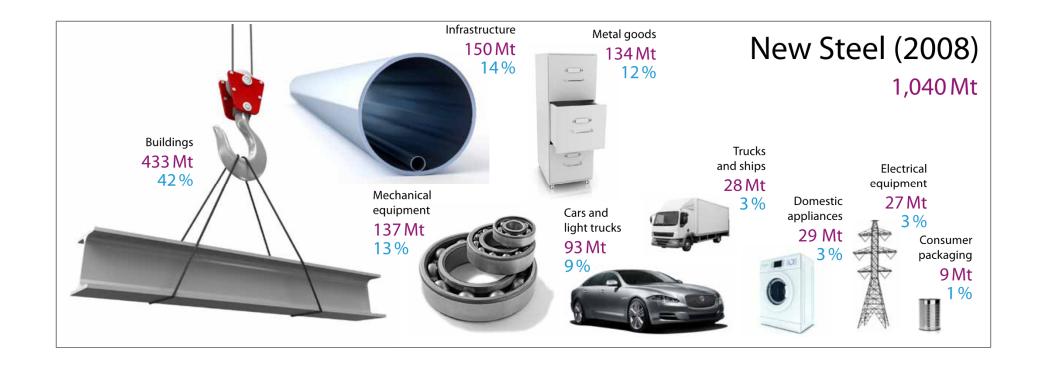


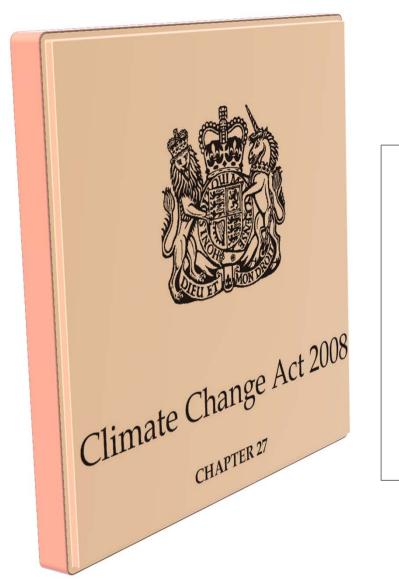


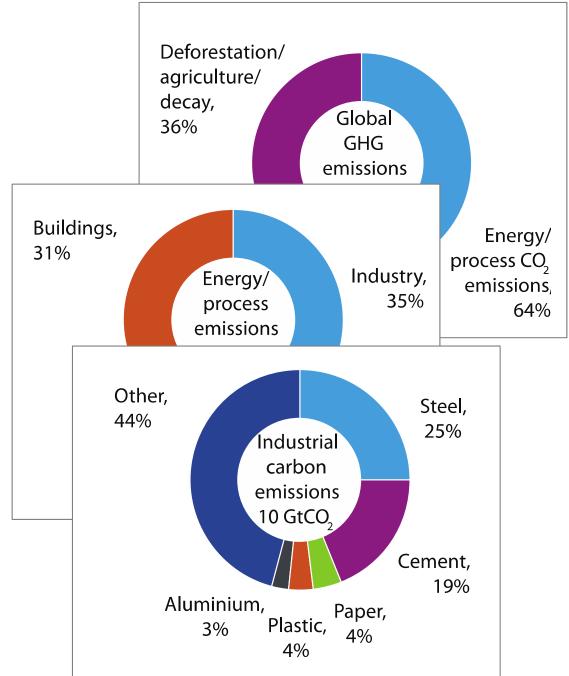














Coal: 650 W/m³/year



Oil: 1,430 W/m<sup>3</sup>/year



Gas: 1.3 W/m³/year



5,000 Watts per person = 5W/m<sup>2</sup>



Offshore wind: 3 W/m<sup>2</sup>



Solar (UK): 5 W/m<sup>2</sup>

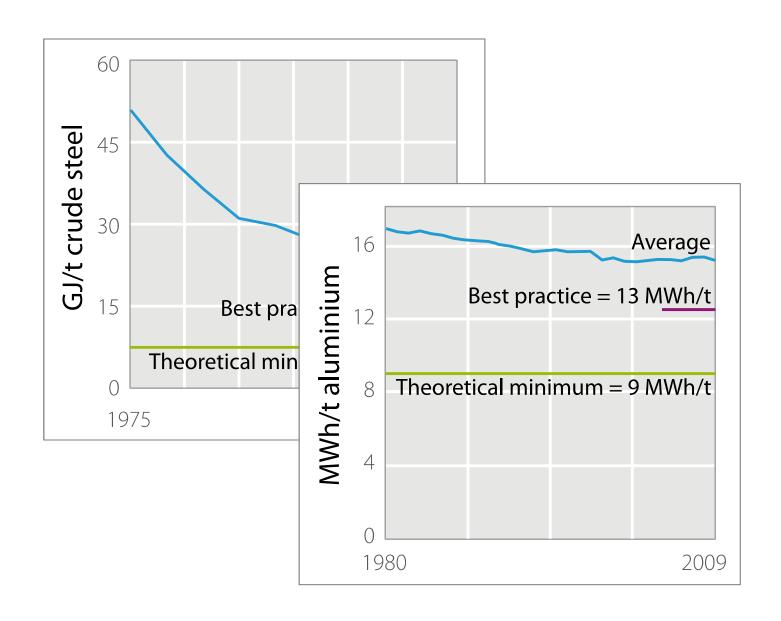


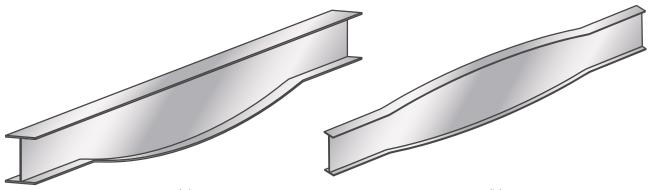
Biofuel: 0.5 W/m<sup>2</sup>





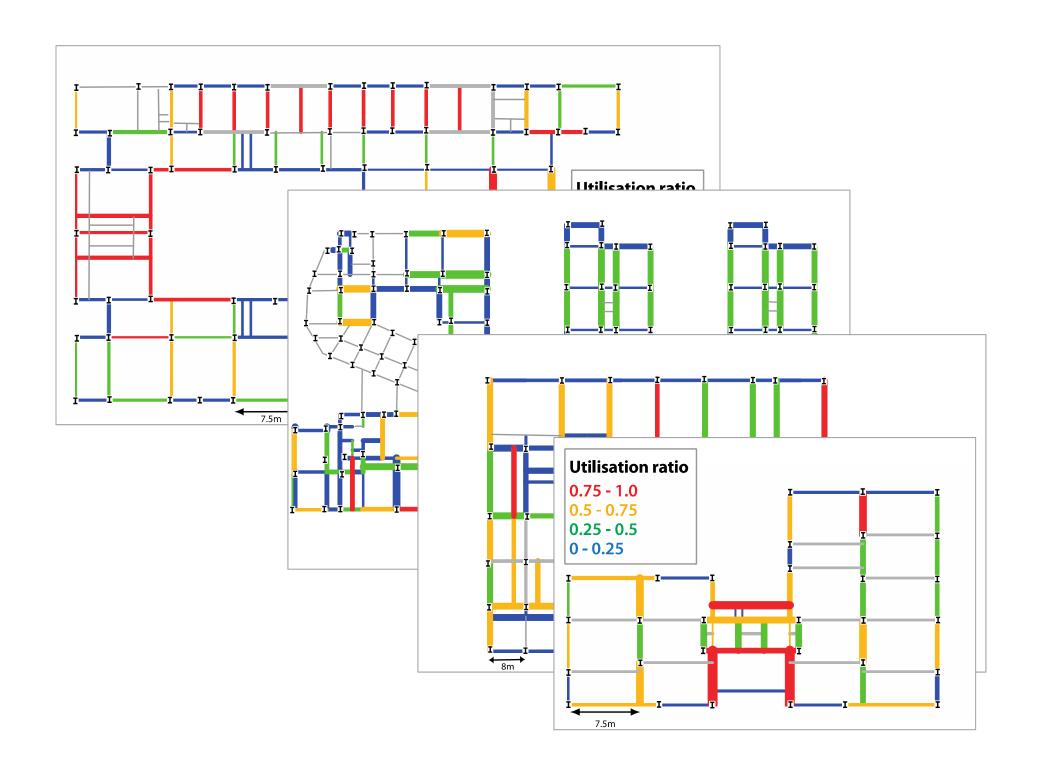








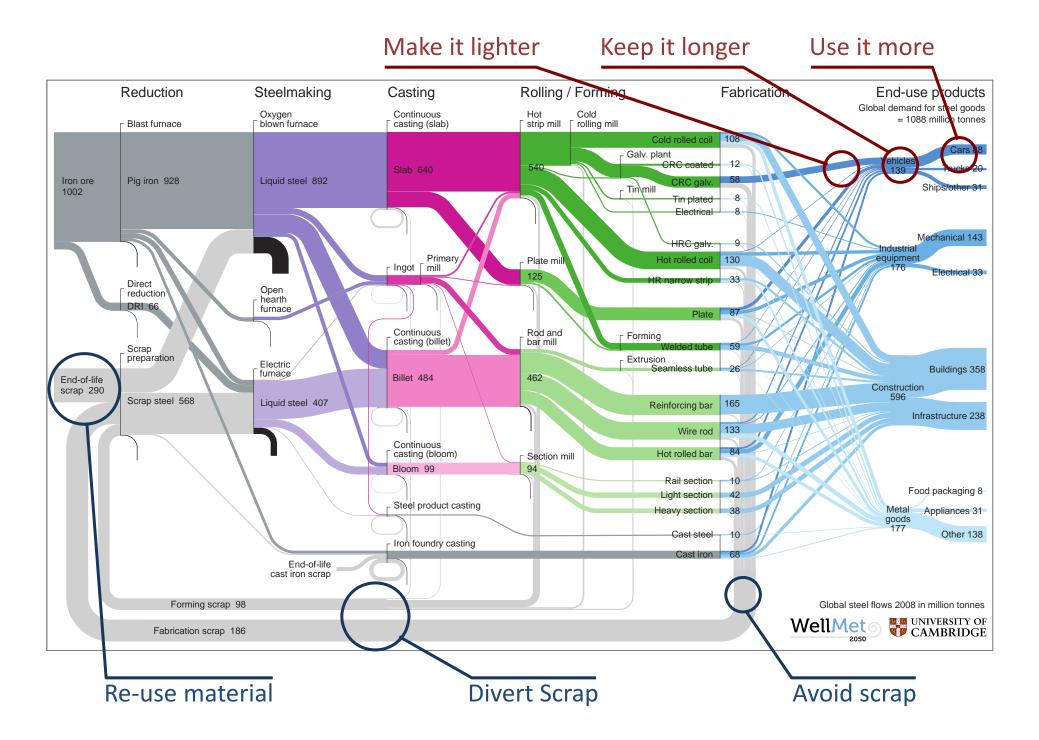


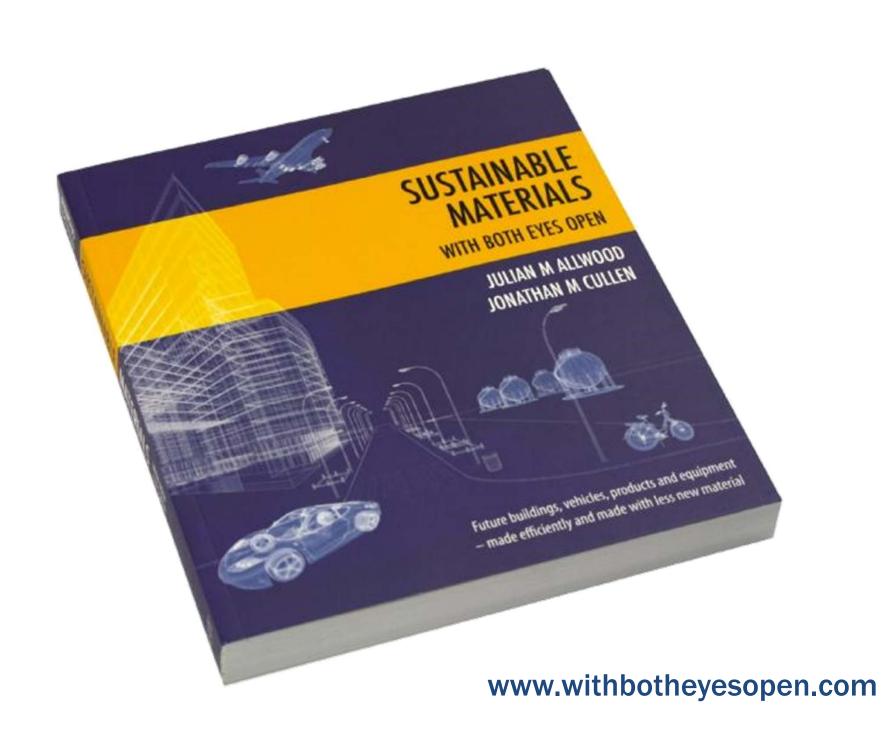


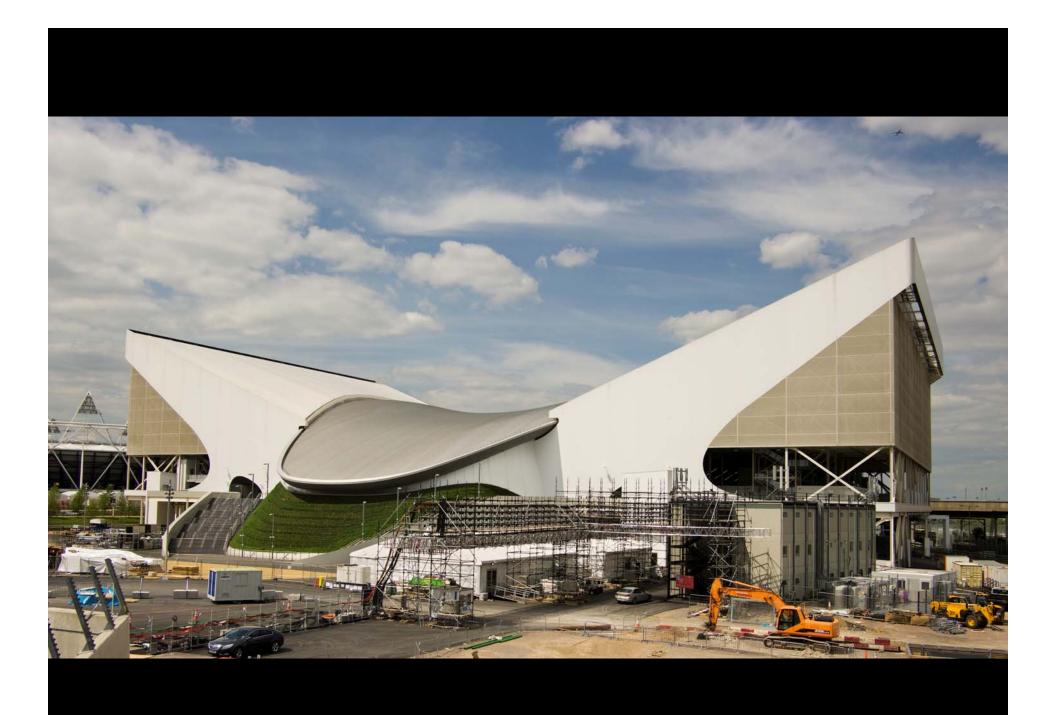


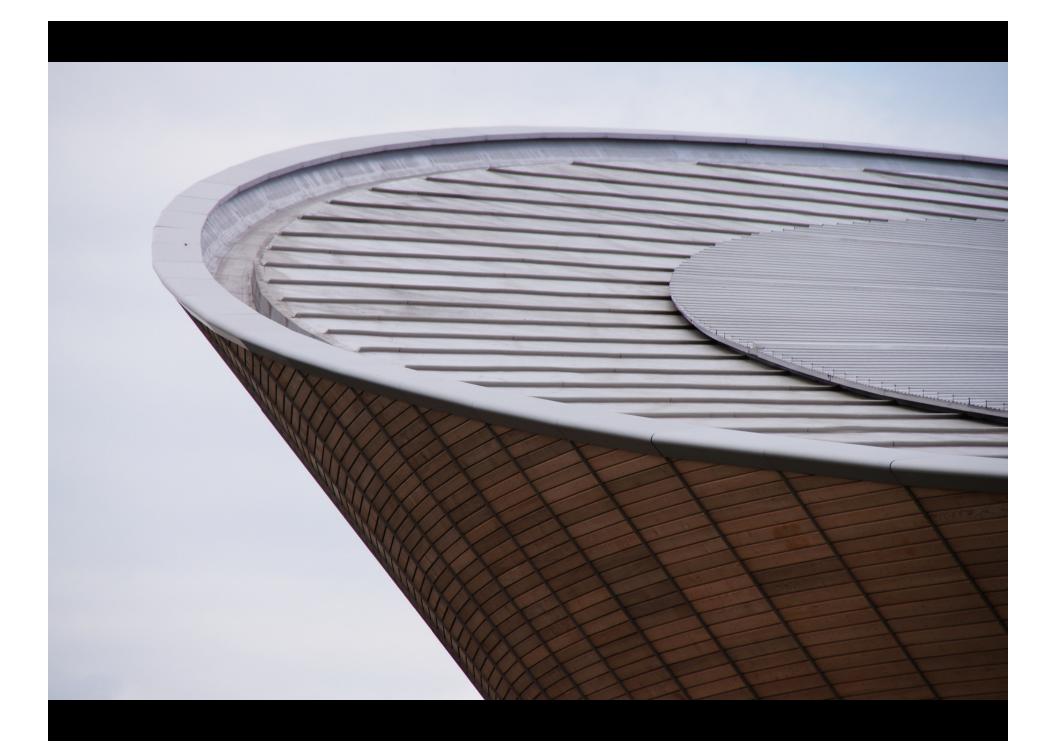




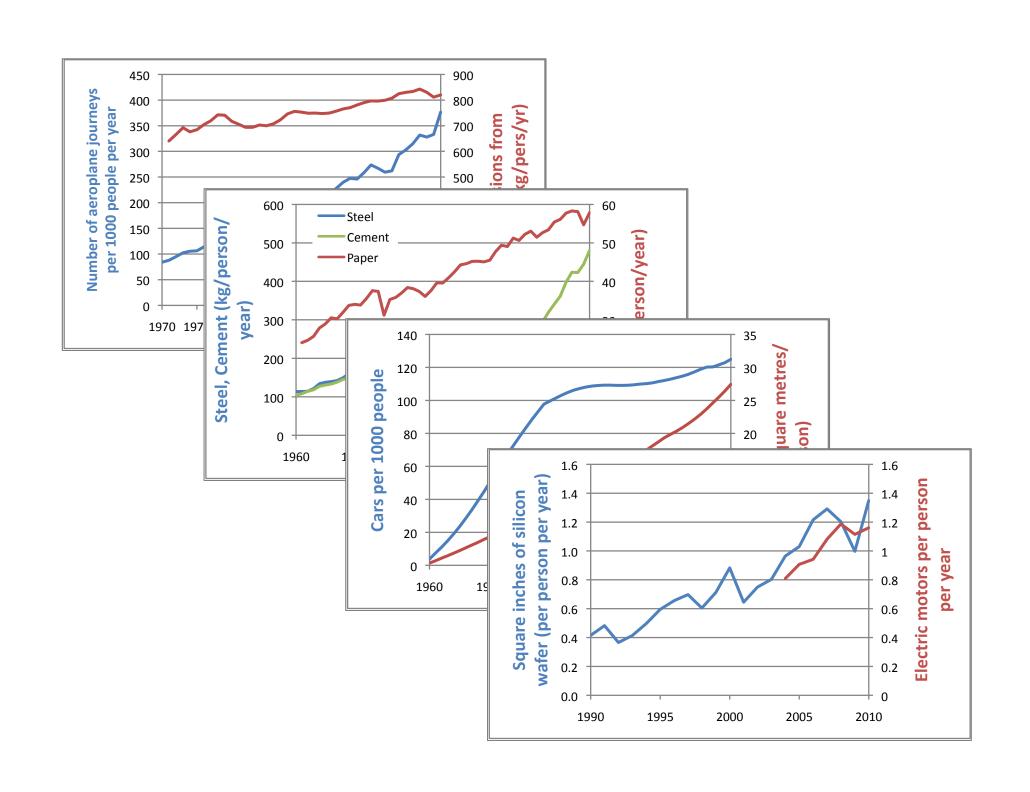


















# NEAR THIS TABLET ARE DEPOSITED THE MORTAL REMAINS OF WILLIAM MEYLER, BOOKSELLER,

A MAGISTRATE,

AND MEMBER OF THE COMMON COUNCIL
OF THE CITY OF BATH;
WHO DIED MARCH 10 th, 1821,
AGED 65 YEARS.

AS A TRADESMAN AND EDITOR OF A PUBLIC NEWSPAPER.

HE WAS DESERVEDLY ESTEEMED,
FOR INTEGRITY OF CONDUCT AND CONSISTENCY
OF PRINCIPLE:

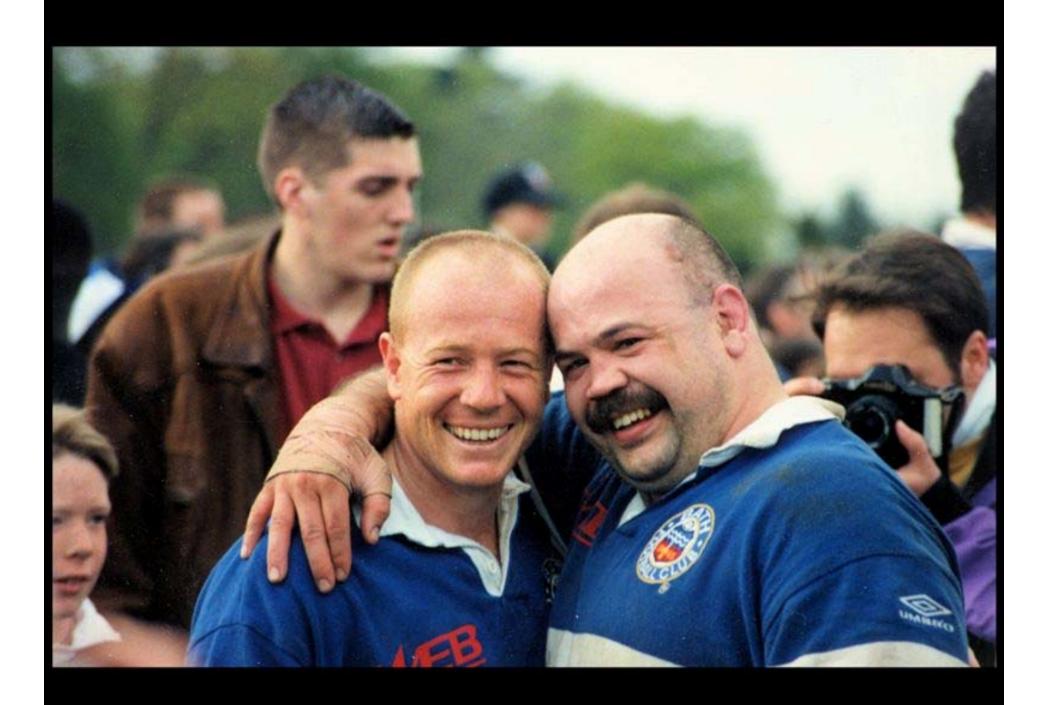
AS A FATHER AND FRIEND.

HIS MEMORY WILL LONG BE CHERISHED IN THE HEARTS OF THOSE.

WHO, AS THEY BEST KNEW, CAN BEST APPRECIATE,
HIS CLAIMS

TO THEIR LASTING GRATITUDE AND SINCERE AFFECTION.









"For many ages to come everybody will need to do some work if he is to be contented... we shall endeavour to spread the butter thin on the bread — to make what work there is still to be done to be as widely shared as possible. Three-hour shifts or a fifteen-hour week may put off the problem for a great while.

For the first time since his creation man will be faced with his real, his permanent problem: how to use his freedom from pressing economic cares, how to occupy the leisure, which science and compound interest will have won for him, to live wisely and agreeably and well.

It will be those peoples, who can keep alive, and cultivate into a fuller perfection, the art of life itself and do not sell themselves for the means of life, who will be able to enjoy the abundance when it comes."

John Maynard Keynes

"Economic Possibilities for our Grandchildren" (1931)



The Energy Efficiency Strategy: The Energy Efficiency Opportunity in the UK



Strategy and Annexes

## UK Indemand

### http://www.ukindemand.ac.uk

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#### Industrial Energy and Material Demand Reduction

#### What is UK INDEMAND?



As part of the UK Government's energy efficiency targets, funding has been provided for a research centre spanning four universities. Please read our introduction to material efficiency.

#### Watch our videos



Please browse our collection of videos about our work.

#### **Useful links**



Please take a look at our Useful Links page for other websites which relate to our work.













