



Transforming the world
to sustainability

Sustainability and the Global Challenge

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We are the global membership body of environment and sustainability professionals, working to make businesses and organisations future-proof

- Recognition
- Support
- Influence

.....it's time to act





The Challenge

The Perfect Storm



Population

- Current global population 7.3bn
- United Nations Population Projections:
 - 8.5bn by 2030
 - 9.7bn by 2050
 - 11.2bn by 2100

UN DESA “World Population Prospects: The 2015 Revision”

UK population 2014-2029 – ONS project 15% increase to 74.3 million

Life Expectancy

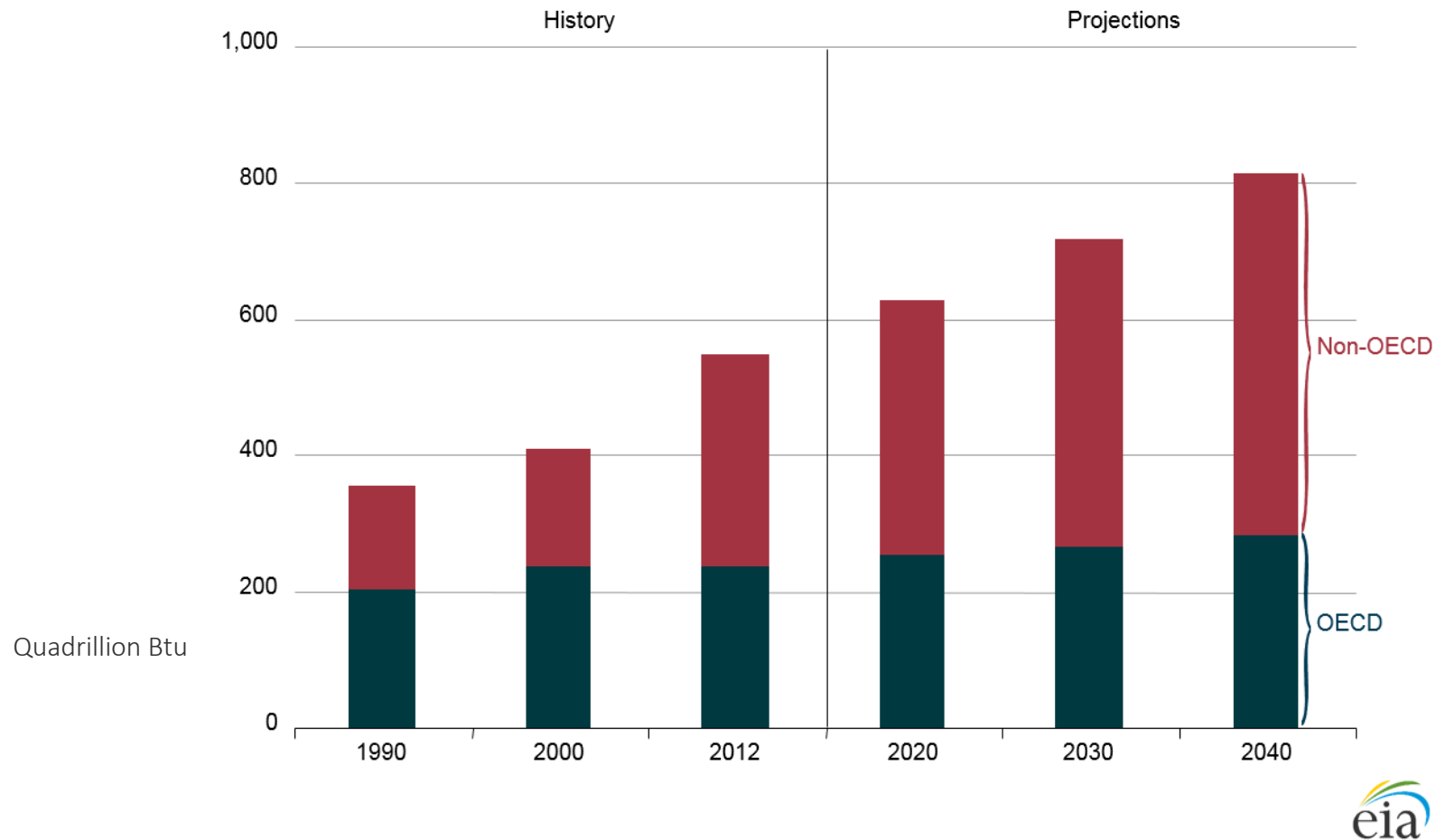
- An Ethiopian born 1990-1995 had a life expectancy of 48.1yrs – for someone born today it is 65.7yrs
- In Zambia the increase has been from 42.8 years to 62.3 years
- In UK – 76.2yrs to 81.2yrs

Population growth fuels consumption

- Food
- Energy
- Water
- Materials
- Infrastructure
- ...etc



World Energy Consumption 1990-2040



Source: U.S. Energy Information Administration (EIA) International Energy Outlook 2016

Large scale consumption drives environmental change



Environmental Change



Climate change

In 2015, global warming reached 1°C above pre-industrial times for the first time; 1.6 billion people live in countries and regions with absolute water scarcity – with climate change this is expected to rise to 2.8 billion by 2025



Water

An estimated 1.8 billion people are drinking water contaminated by faeces; between 1990 and 2012 2.3 billion people gained access to improved drinking water



Pollution

Global output of chemicals increased 84% between 2000 and 2010; 4.9 million deaths worldwide were attributable to exposure to chemicals in 2004; plastics weighing 191 times that of the Titanic are dumped in oceans each year

A reminder of our throwaway society





The response?

We need to improve what we do.....and do things differently

UN Sustainable Development Goals



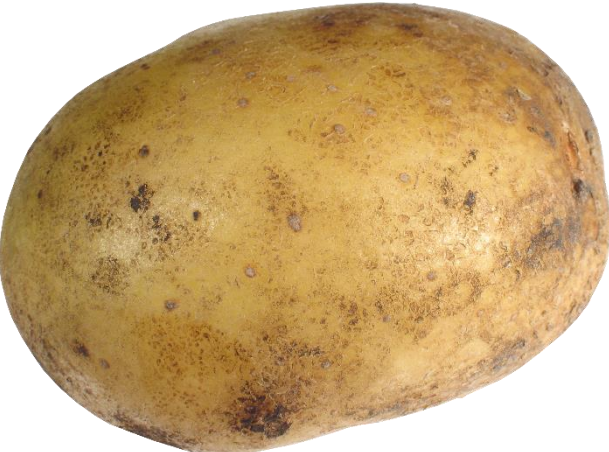
Rethinking in Imaginative Ways



Reducing waste!



Sustainability and Products



In a new age of rapid communication...the world has got smaller



Disruptive Innovation...electric cars!





How are we
going to do it?

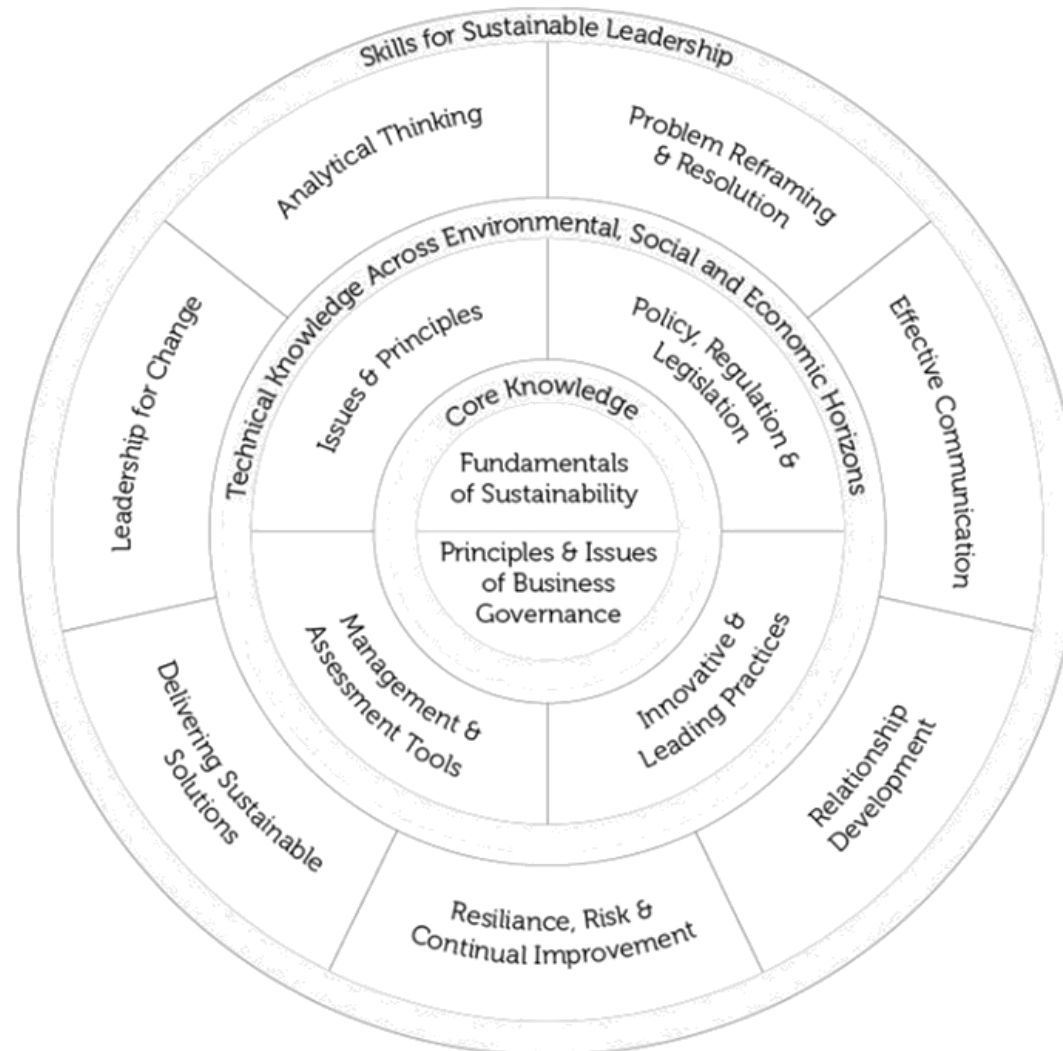
People!

- Working together
- Collaboration
- Enhancing knowledge
- Developing skills and capability



IEMA Skills Map

Developing
your skills
for the
future!



Summary

- The sustainability challenge is real
- Start by thinking about the way we make products and what products we need.....then rethink how to do it more sustainably!
- All jobs will need to be done in a greener way – whether you're fully time in environment, or you're an engineer or designer – everyone needs to be involved



Thanks!

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