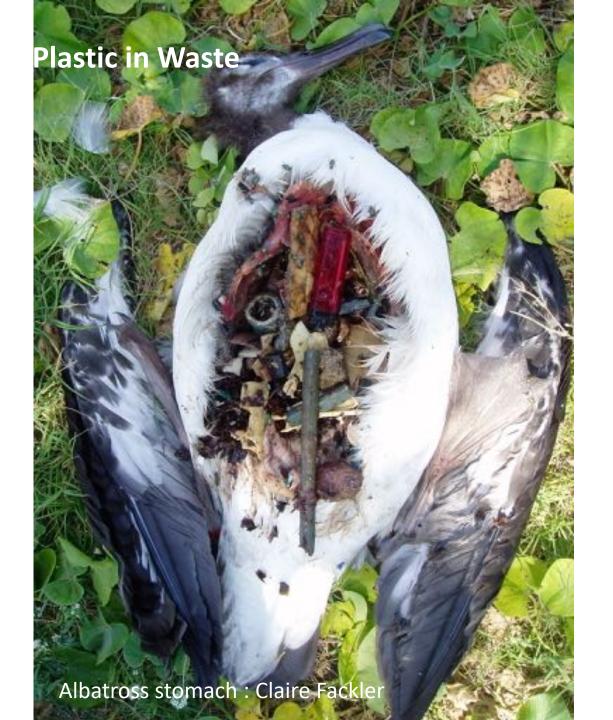
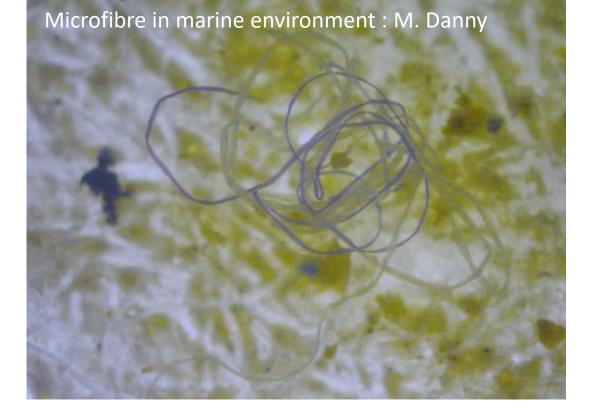
# The Circular Economy, Health and Healthcare



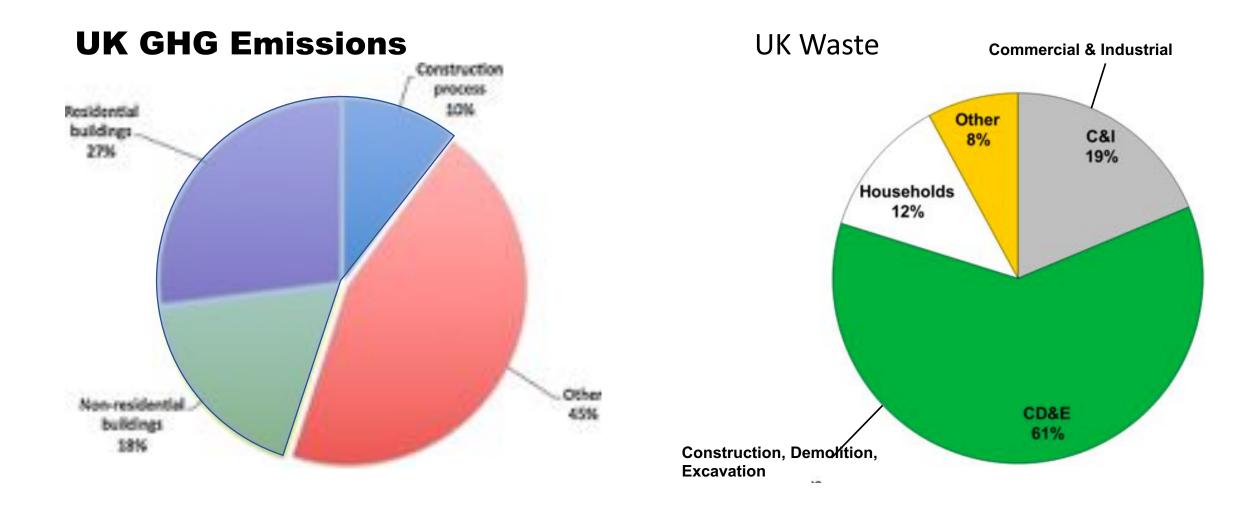
**AECOM** 











Use and construction of buildings produces 55% of total GHG Emissions Construction of buildings produces 60%+ of all UK waste to landfill

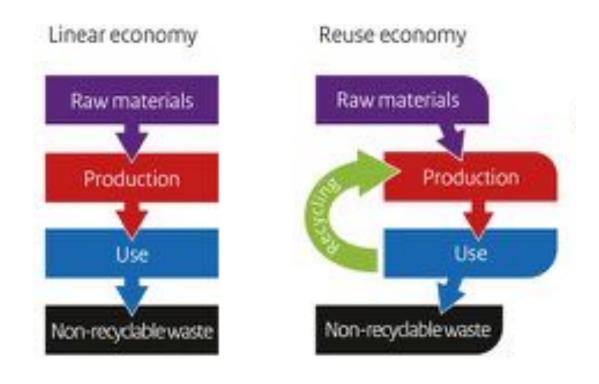
# 25,000,000

total floorspace NHS estate - m<sup>2</sup>

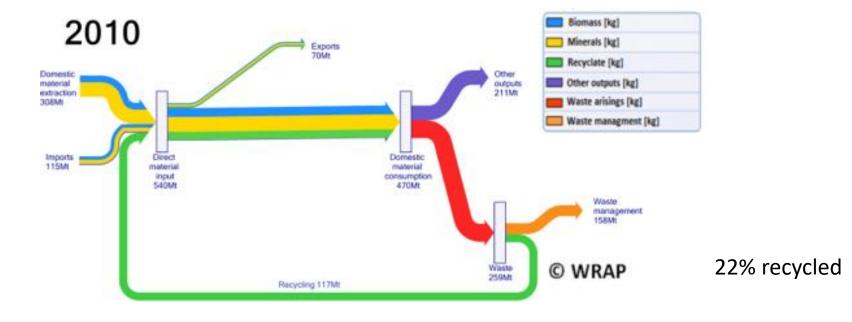
total office space in London - m<sup>2</sup>

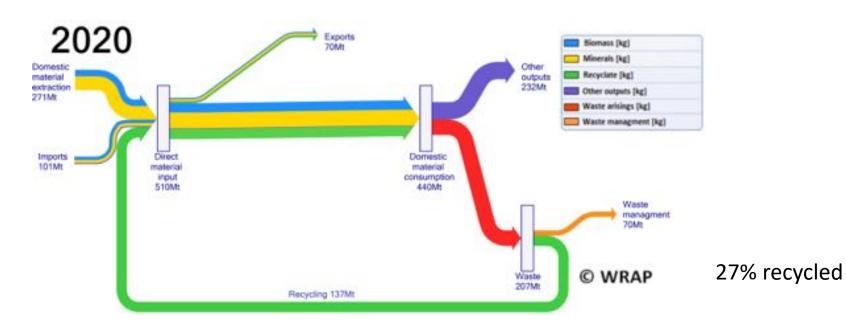
number of homes in the UK

#### **From Linear to Reuse**

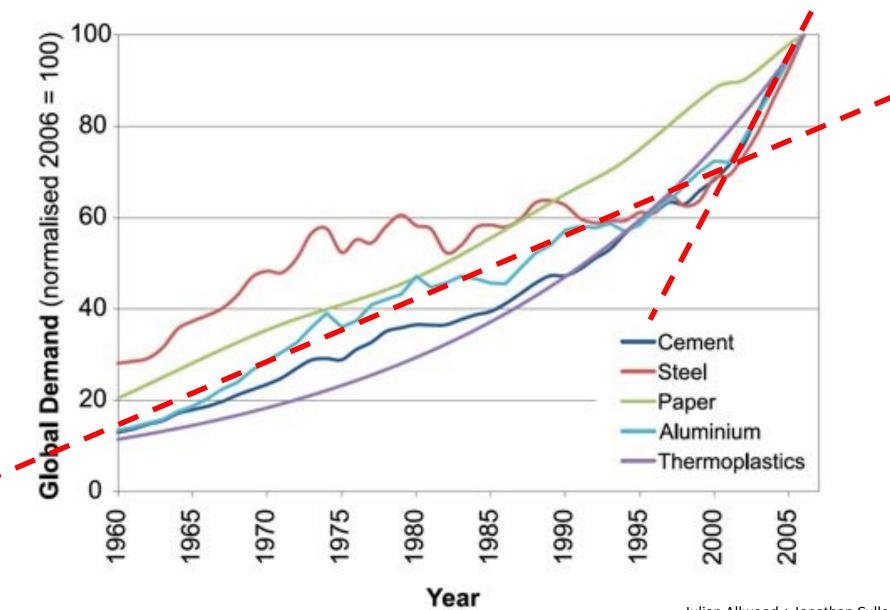


### Recycling

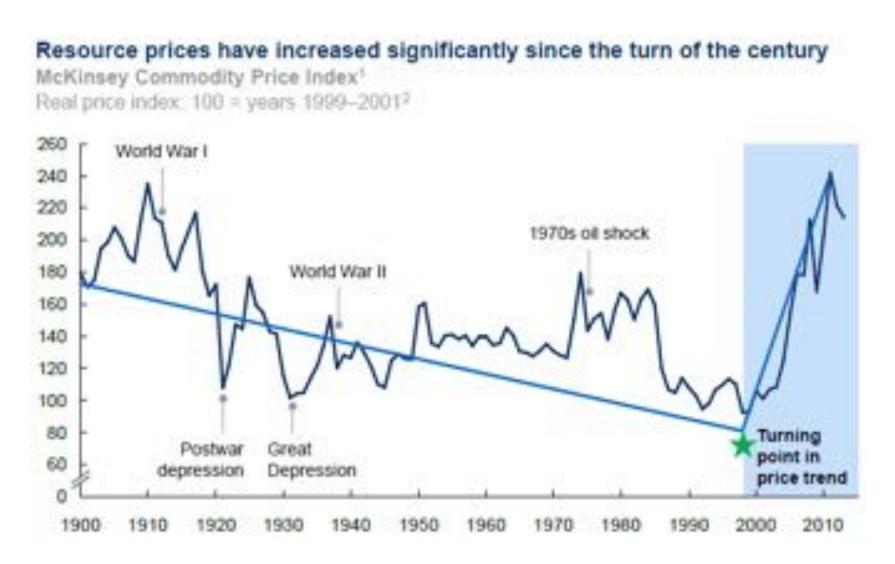




#### **Global Extraction...**

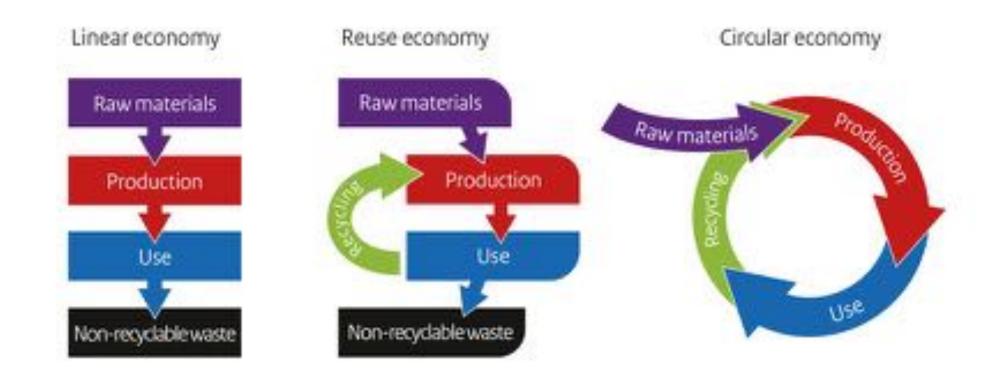


#### .....Resource Scarcity

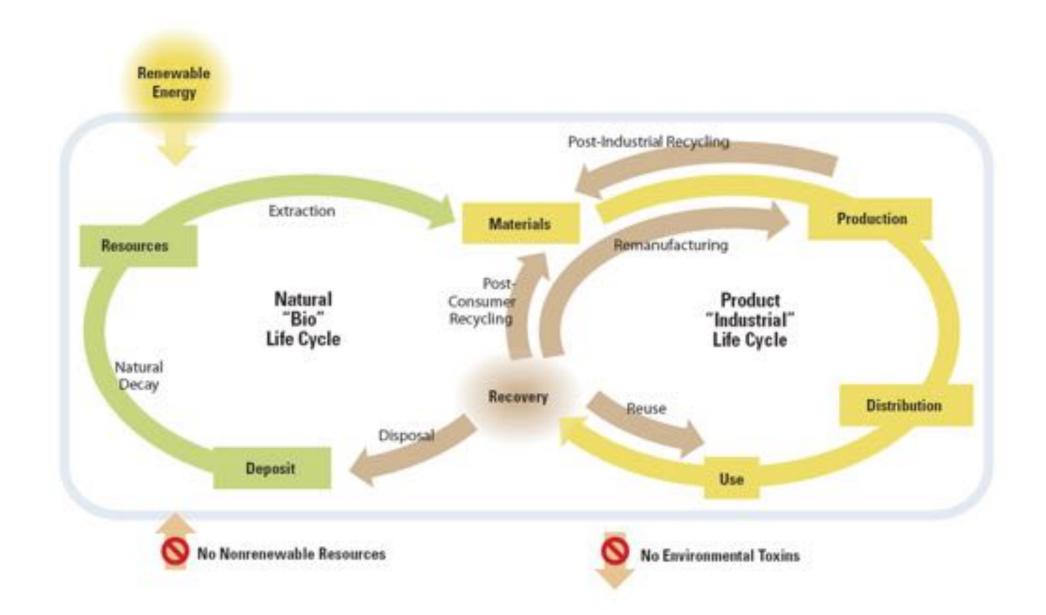


The linear economy is running out of gas

#### From Reuse to Circular



## **The Circular Economy**



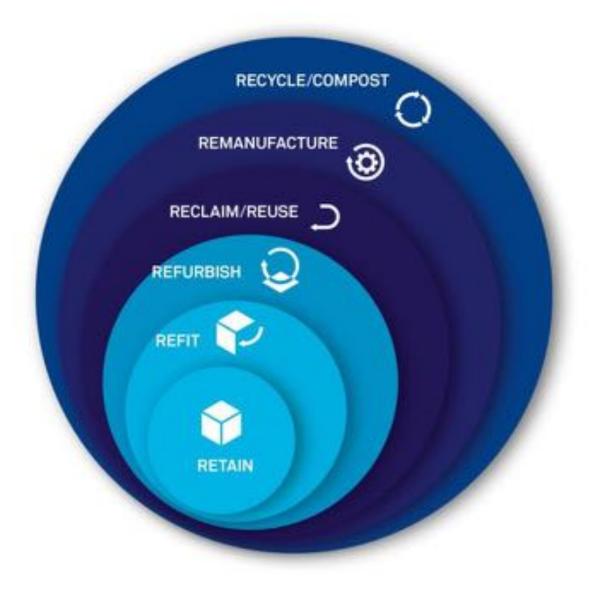






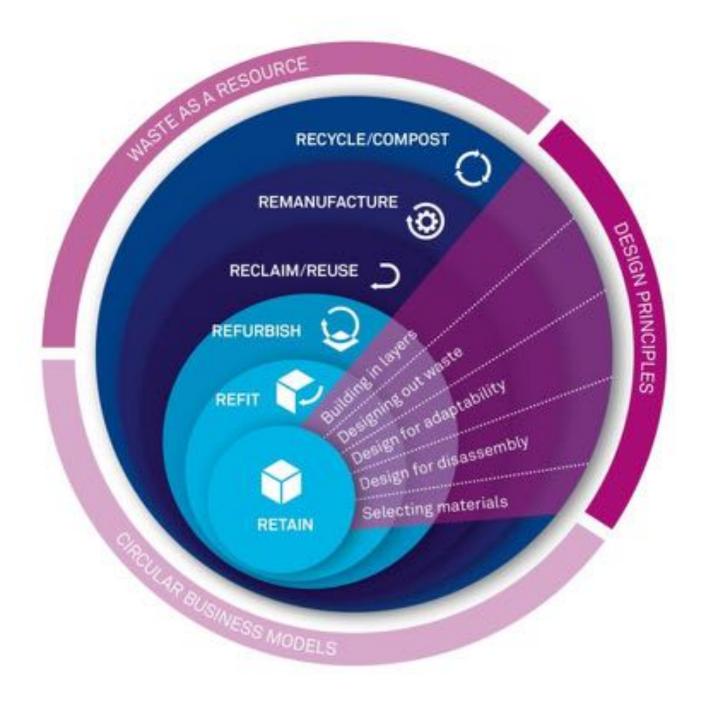






David Cheshire,

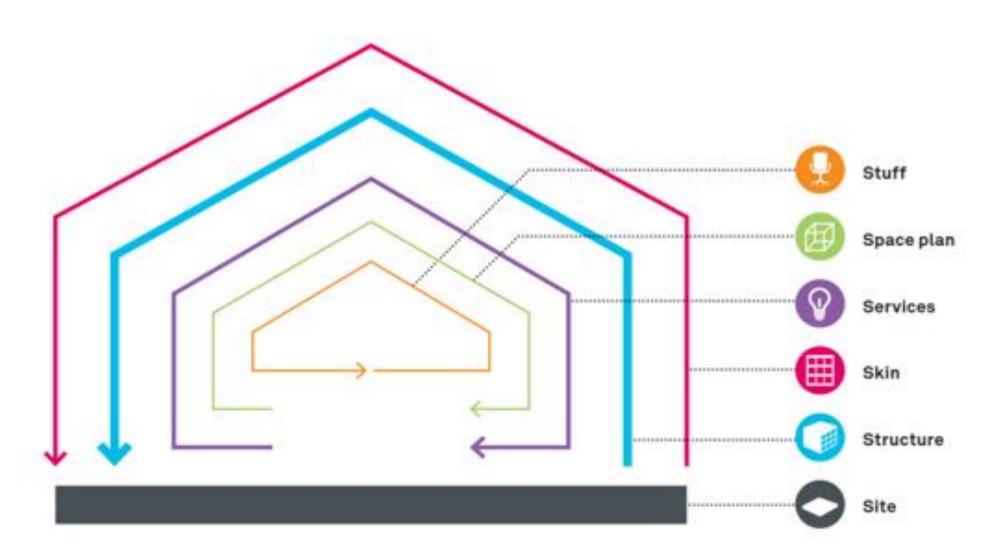




David Cheshire,



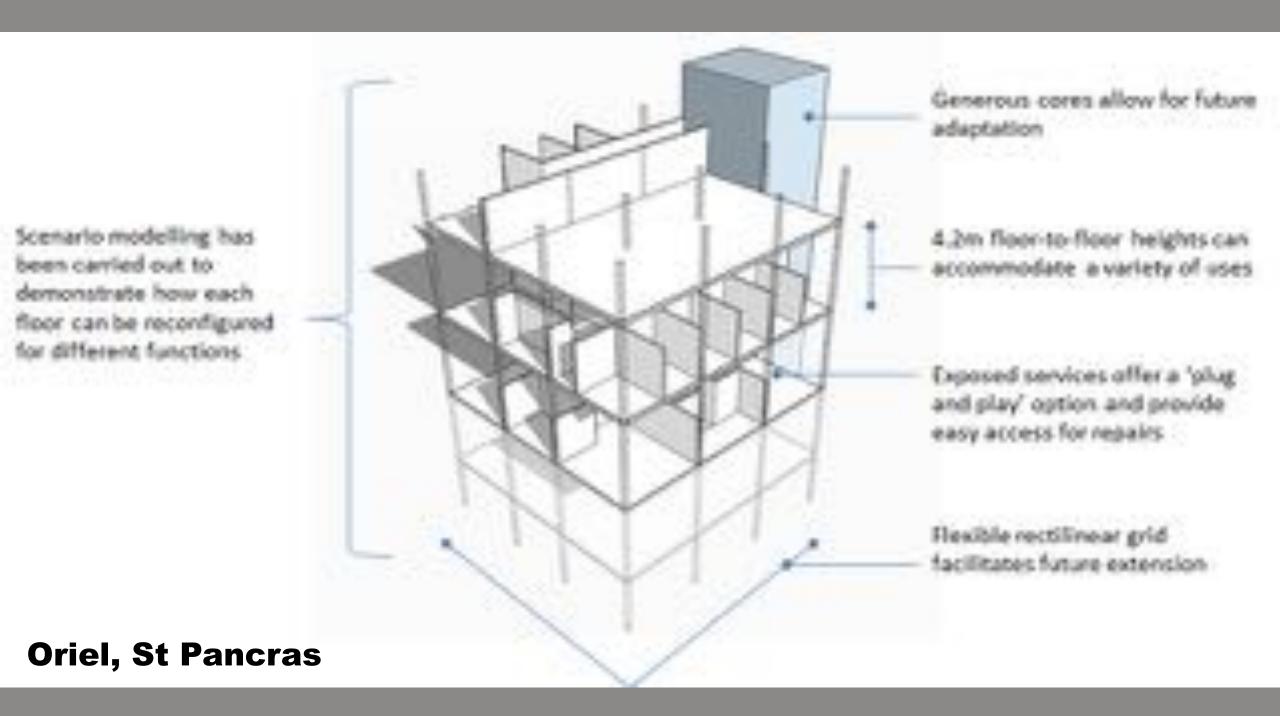
## **Building in layers**





















# Circular economy guidance for construction clients:

How to practically apply circular economy principles at the project brief stage

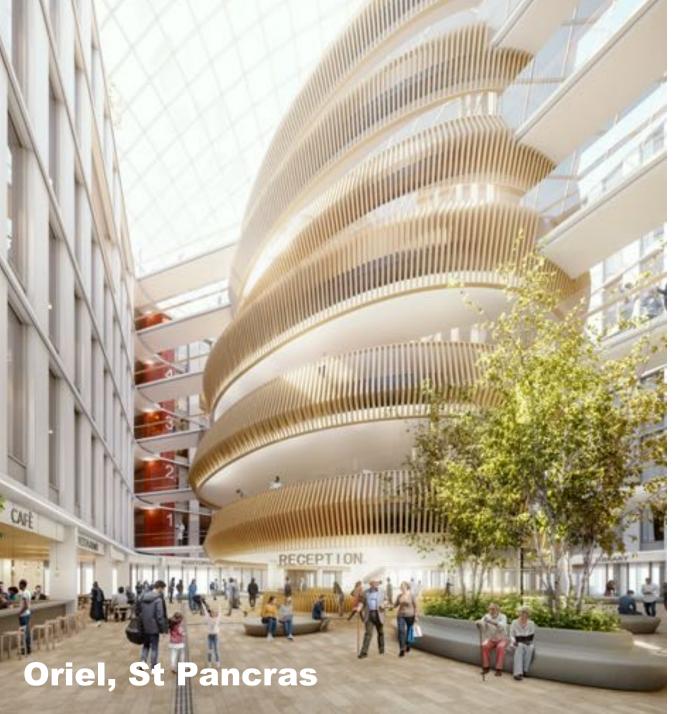


Adopting a circular economy represents a €1.8 trillion opportunity for the EU by 2030<sup>8</sup>

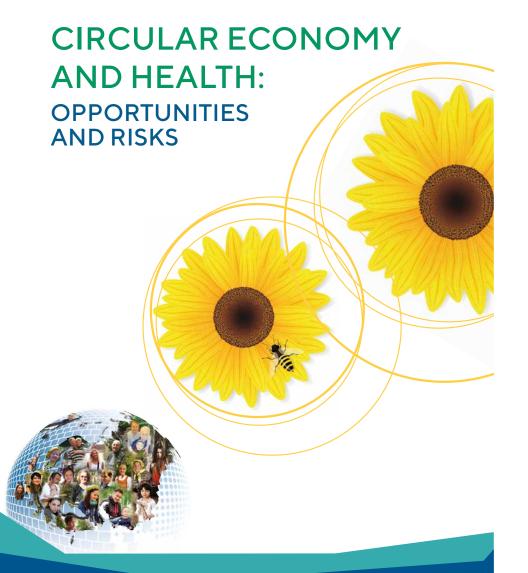
McKinsey Center for Business and Environment (2015)











#### **Energy**

- Benefits to occupational health & safety, respiratory & mental health.
- Improvements in cardiovascular/respiratory heat-related conditions, heat-related impacts & lower risks from extreme climate events

#### Waste

- $_{\odot}$  Reduced cancer, negative birth outcomes, & respiratory risks
- Reduced costs allow improved health services across all endpoints.

#### Food

- Reduced malnutrition & other poor diet related endpoints
- Reduction in poor-diet-related conditions, obesity, various cancers

Source: Circular Economy & Health: Opportunities & Risks; WHO Regional Office for Europe



"I'm not interested in the product, just the performance. I want to buy light, and nothing else."



"The light as a service means that, Schiphol pays for the light it uses, while Philips remains the owner of all fixtures and installations.

















## we throw things away



but where is 'away'?