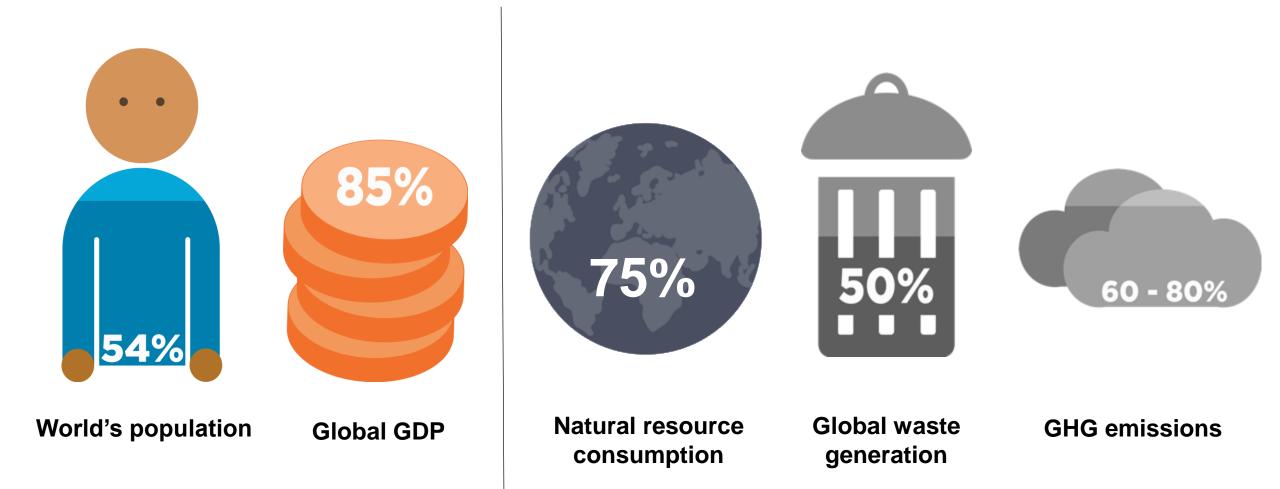
# **CITIES: A UNIQUE CONTEXT**





Source: Ellen MacArthur Foundation - Cities in the circular economy: An initial exploration

## STRUCTURAL WASTE IN THE BUILT ENVIRONMENT



#### CONSTRUCTION



- 10-15% of building material wasted during construction
- 0-0.5% productivity increase per year in most European countries 1990-2015, whereas 2% per year achieved in some countries

#### UTILISATION



- 60% of European offices are not used even in working hours
- 50% of residential dwellers report living in too much space

#### USAGE



- 20-40% of energy in existing buildings can be profitably conserved
- Passive building standards at or near profitability for most new-build segments, but still only constitute a minority of buildings

### **END OF LIFE**



- 54% of demolition materials landfilled, while some countries only landfill 6%
- Most materials unsuitable for reuse as they contain toxic elements

### **URBAN PLANNING**

- 50% of most city land dedicated to infrastructure
- 11 million households experience severe housing deprivation
- Congestion cost 2% of GDP in many cities

# THE MOBIOUS PROJECT





Image credit: Exploration Architecture