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MAYOR OF LONDON



NYC Mayor's Office of Sustainability



PHILIPS



sc Johnson
A family company
at work for a better world



SUN Institute
Environment & Sustainability
initiated by Deutsche Post Foundation



We have expertise and programmes on key topics

Government and policy

Education and learning

Business



Biodiversity



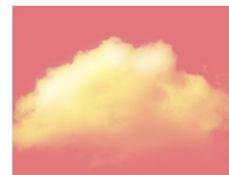
Built Environment



Cities



Circular Design



Climate



Fashion



Finance

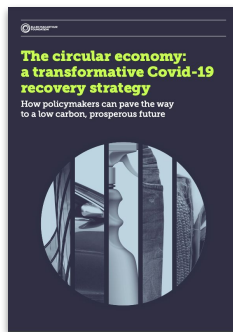
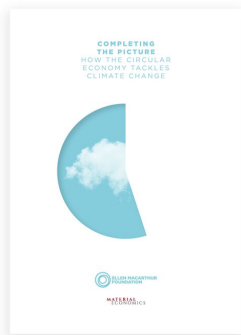
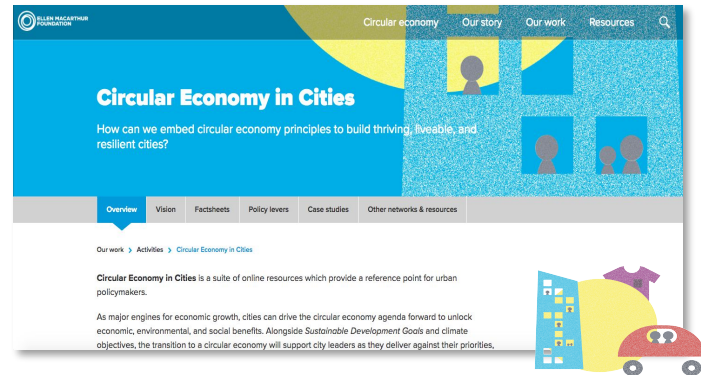


Food



Plastics

We inspire, engage & mobilise city ecosystems to create impact



Our current economic
model is **linear**



**Take
Waste**



Make



The linear economy leads to...



Waste



**Underutilised
assets and
economic
losses**

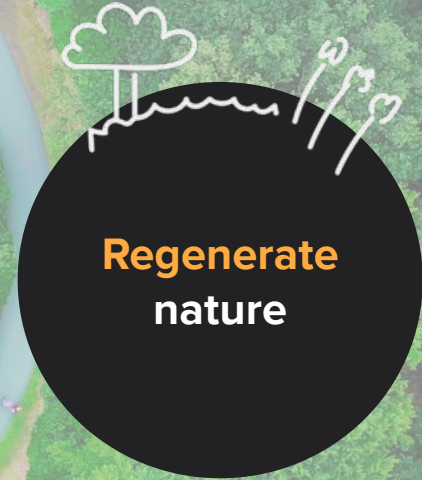


**Price risks and
supply chain
volatility**



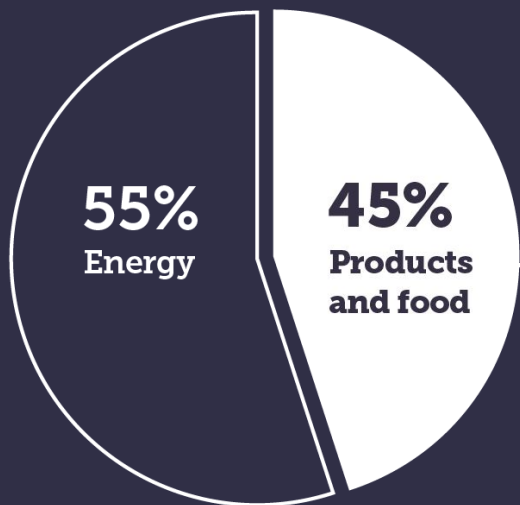
**Climate change
and biodiversity
loss**

A CIRCULAR ECONOMY IS BASED ON THREE PRINCIPLES, DRIVEN BY **DESIGN**



A circular economy is a necessity for climate neutrality

TOTAL CURRENT GLOBAL
GREENHOUSE GAS EMISSIONS



HOW THE CIRCULAR ECONOMY
HELPS TACKLE CLIMATE CHANGE



Design out waste and pollution
to reduce GHG emissions
across the value chain

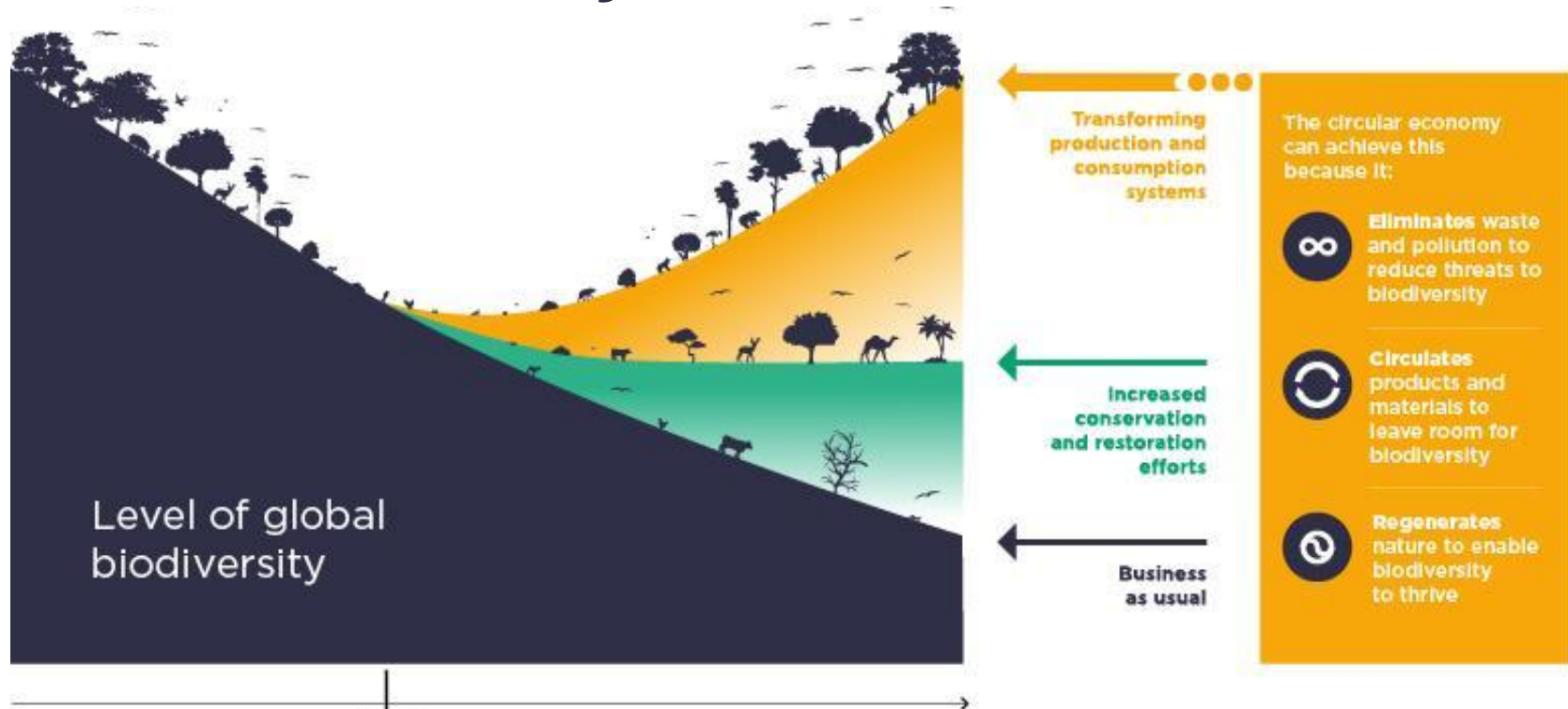


Keep products and materials in use
to retain the energy embodied
within them



Regenerate natural systems
to sequester carbon
in soil and products

A circular economy is also needed to halt and reverse biodiversity loss



Applying circular principles to cities...



... What if we
**eliminated waste and
pollution** from cities?



... What if we kept
**products and materials
in use** in cities?



... What if we
**regenerate natural
systems** in and
around cities?

A circular economy can unlock wide-ranging benefits to help cities be more **thriving, **liveable** and **resilient** places to live**



**ECONOMIC
PRODUCTIVITY**



**JOB, SKILLS &
INNOVATION**



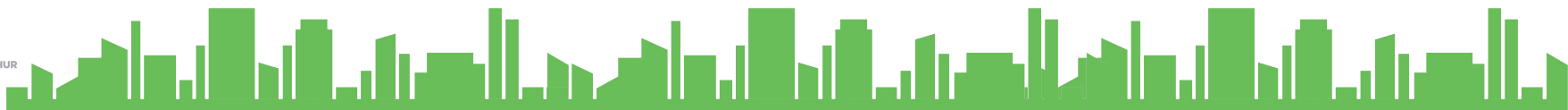
**HEALTH &
ENVIRONMENT**



**COMMUNITY
& SOCIAL
PROSPERITY**



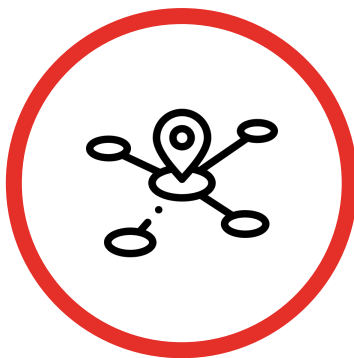
**RESOURCE
USE**



Cities must reimagine how we produce, consume and manage materials and resources across key urban systems



**BUILDINGS
& HOMES**



MOBILITY



PRODUCTS



FOOD

Some key challenges & opportunities...



**BUILDINGS
& HOMES**

- Adaptive and flexible space solutions
- Storing and accessing secondary materials
- Regenerative design

- Product-as-a-service or sharing
- Slowing, narrowing loops, durability
- Design for reuse, repair, remanufacturing

- Optimising reverse logistics
- Integrating multimodal transport
- Enabling access over ownership

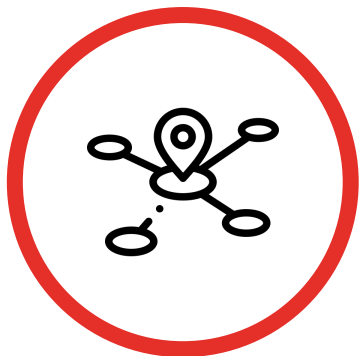
- Regenerative agriculture, local where possible
- Redesigning diets & menus
- Redistribution and recycling food waste



PRODUCTS



FOOD



MOBILITY

How can we truly accelerate?

What does a circular future neighbourhood look like?



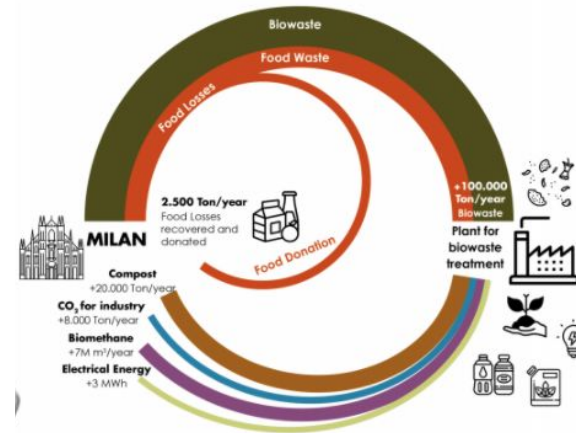
Additional inspiration



- **Cleveland Neighborhood Progress** has recruited 10 community ambassadors to represent and engage residents and their community.
- Disbursed ±EUR 35,000 in community grants to 14 groups

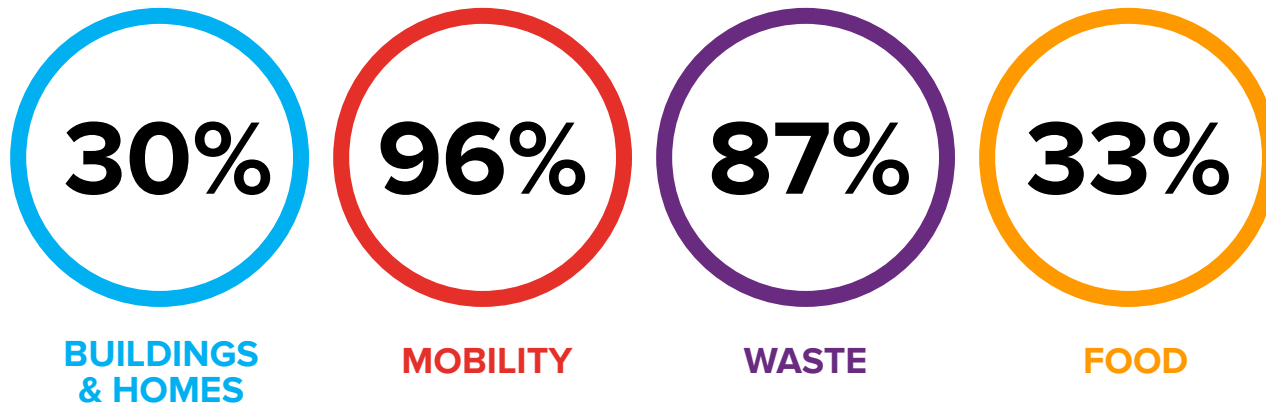


- **Plant Chicago** is closed loop, open source facility scale 'hub' which opened in 2011.
- Integrates business support, industrial symbiosis, education programmes, farm market and a shop.



- The **Milan Food Policy** - a tool to support the city's food industry players transition.
- Local procurement, 3 redistribution hubs and valorising discarded organic material.

Circular solutions are mentioned in a majority of city climate action plans (36 out of 54 analysed), however CE remains underutilised in key sectors...



... addressing consumption-based emissions also remains largely neglected

European Circular City Declaration reporting trends

1. Stakeholder engagement and urban management, in particular procurement are the levers most consistently utilised by cities
1. Economic incentives and local regulation are currently less frequently used
1. Citizen awareness raising of sustainable consumption is becoming more sophisticated and focussing on empowerment
1. Construction and food are the most regularly prioritised material streams.
1. Local innovation programmes are helping cities trial novel partnerships with SMEs to tackle shared goals

**Circular procurement,
Haarlem**

**La Machinerie,
Grenoble**

**Circular education,
Oulu**

**PlastiPremia,
Genoa**

Common city challenges to overcome

- 1. Breaking down silos
- 1. Too much strategy, not enough action
- 1. Measuring circularity
- 1. Shifting the linear paradigm

Common city challenges to overcome

- 1. Breaking down silos
- 1. Strategy > action
- 1. Measuring circularity
- 1. Shifting the linear paradigm

Circular Prague 2030



If the city delivers on its plans, Prague will be a world-leading lighthouse circular city!