

CIRCULAR CITIES For Climate Mitigation



CIRCLE ECONOMY MEMBERS







Interface®













ALLEN & OVERY



























































Circle Economy runs sector programmes



BUILT ENVIRONMENT



DESIGNING CITIES OF THE FUTURE

Identifying opportunities to foster a circular economy and aiding in the creation of practical and scalable solutions to implement circular systems throughout cities worldwide

TEXTILES



CLOSING THE LOOP FOR TEXTILES

Creating a zero waste industry whereby textile products, fabrics, and fibres are infinitely cycled through connected loops and across industries

FINANCE



REALINGING THE CURRENT FINANCIAL SYSTEM

Realigning the current financial system with the real economy by identifying and overcoming financial barriers to circular business practices

DESIGN



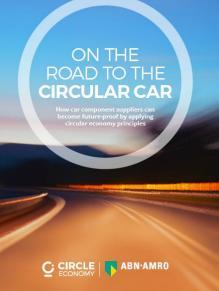
DESIGNING ACTION PLANS TO ACHIEVE CIRCULARITY

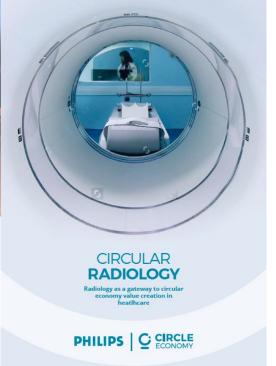
Providing consulting services aimed to create implementable action plans for circular strategies

PIONEERING REPORTS 2016













THE CIRCULAR ECONOMY: **A KEY LEVER**IN BRIDGING
THE EMISSIONS
GAP TO A 1.5°C
PATHWAY



THE SITUATION

Under a business as usual scenario, the global temperature by 2100 will be more than 4°C above pre-industrial levels

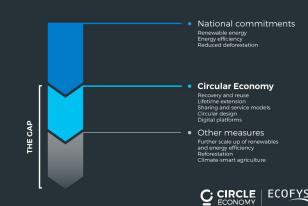
THE END GOAL

To limit temperature rise to 1.5°C, we need to cu greenhouse gas emissions from 65 to 39 billion tonnes CO₂e per annum by 2030

THE SOLUTION

Current national commitments achieve about halt of the required emissions cuts. Circular economy may fill about half of the remaining gap







67% of global greenhouse gas emissions are related to material management (UNDP/Lao PDR)

While **67%** of climate finance goes to energy efficiency and renewables (UNFCCC)

40% reduction through CE compared to Business as Usual by 2030 in India (EMF)

70% reduction in GHG emissions in 5 EU countries when adding circular economy options (Club of Rome)





...but not happening



We have to make it happen!



Circular Cities: Economic, social and environmental resilience



Value creation



Job creation



Better air quality



Competitiveness in global markets



Reduced CO2 emissions



Reduced resource use

Circle City Scan





Socio economic analysis



Material flow **^**Analysis



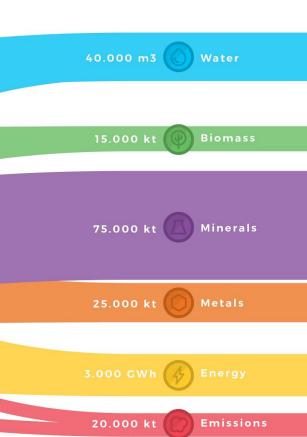
Circular strategies Action plan



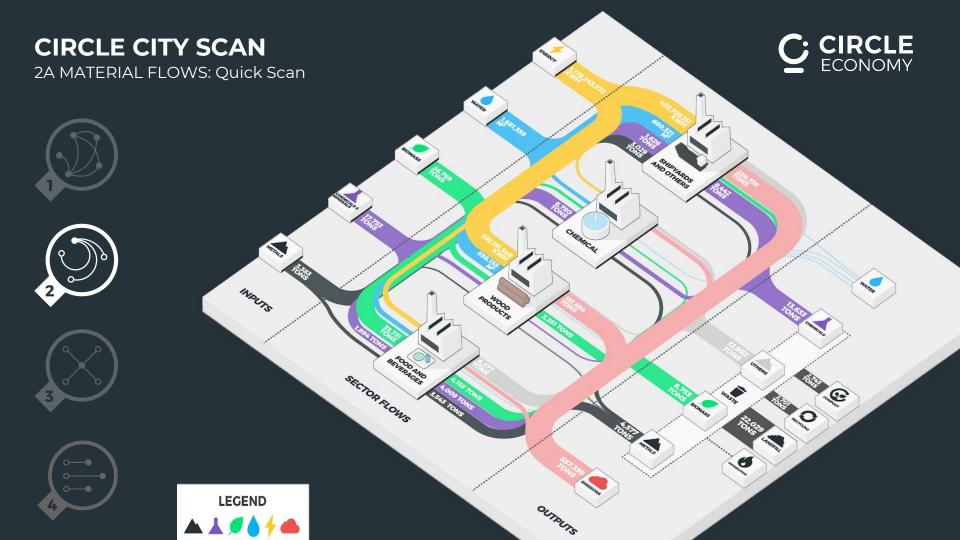
We help translate data into decisions



Our material flow analysis identifies the key leverage points where your city can have the largest impact; whether that be GHG reduction, job creation, or more livable environments for citizens









CIRCLE CITY SCAN

ACTION PLAN: 4A BUSINESS INNOVATION AMSTERDAM

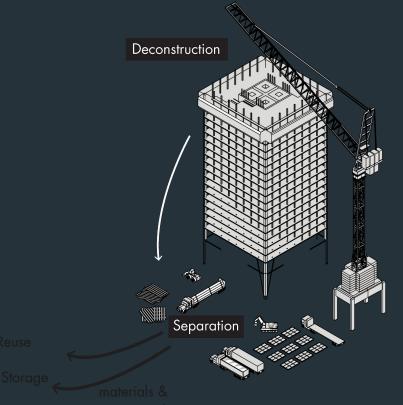




















ROADMAP CIRCULAR AMSTERDAM

Introductie

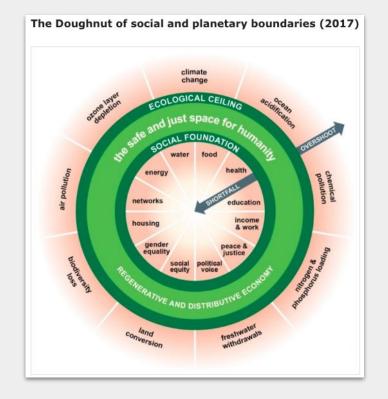
Achtergrond

Structuur

Aanpak

Budget en planning

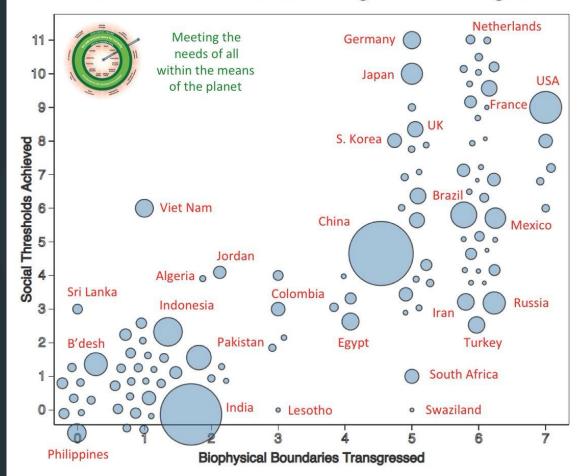
CITY DOUGHNUT



"The Doughnut Economics framework is one of the first and most powerful attempts to link socio-economic and environmental issues under a common umbrella and has inspired many to take action, start discussions, and think differently. This conceptual framework provides an excellent base to build upon and develop an integrated measurable framework that could demonstrate and quantify the link between resource use and social outcomes. Cities could greatly benefit from having an integrated practical and measurable framework that combines environmental, economic and social elements as a holistic approach to meeting their citizen's needs."



Which countries are closest to living within the Doughnut?



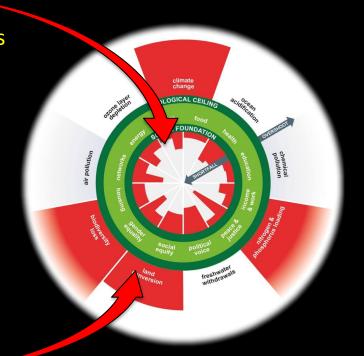


What is our city's global impact on the health and wellbeing of people and planet?



What are the social impacts of our global economic relations?

What ecological impacts of our global economic relations?



The Amsterdam City Doughnut Workshop, 5th Feb









EMISSIONS FROM CONSUMPTION

Total household emissions

2 mln tonnes CO2-eq



Household emissions as % of total emissions Basel

2496



Largest sources of emissions

Housing & utilities: 28%

Mobility: 23%

Food and drinks: 16%



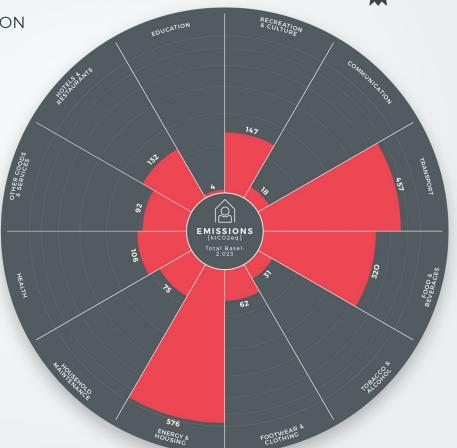












Multi stakeholder collaboration







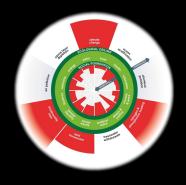
THANKS

Reports can be downloaded:

- Climate mitigation:
- Circular Jobs: <u>Ci</u>rcular Amsterdam:
 - Circular Glasgow:
- Circle Intro Dashboard
- www.circle-economy.com/case/circular-economy-a-key-lever-in-bridging-the-emissions-gap-to-a-1-5-c-pathway/ www.circle-economy.com/case/the-circular-economy-at-work/
- www.circle-economy.com/report/developing-a-roadmap-for-the-first-circular-city-amsterdam/
- www.circle-cities.com

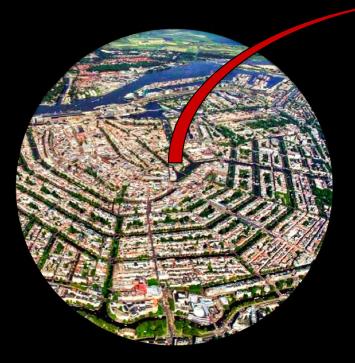
Our local vision: thriving people in this thriving place Our global impact: respecting the wellbeing of all people and the whole planet





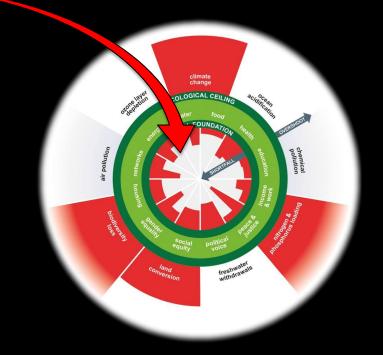


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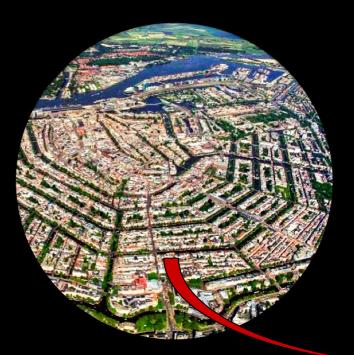


Our thriving city must respect the rights of people worldwide

Ethical trade
Living wages
Political voice
Fair taxes
Rights to
water, land,
clean air,
healthy oceans



What is our city's global impact on the health and wellbeing of people and planet?



Our thriving city must live within its per capita fair shares of planetary boundaries:

City metabolism.
Footprint of:
Material use
CO₂ emisisons
Water use
Fertilizer use
Land use

