





The session will begin soon

projectblueprint.eu







Monday 9 May, 09:00-10:40





Housekeeping



This session will be recorded



Use the chat/Q&A box for your questions



Please leave feedback







Chair's welcome

Emily Martin, Essex County Council





Inspiring local authority initiatives for a circular economy

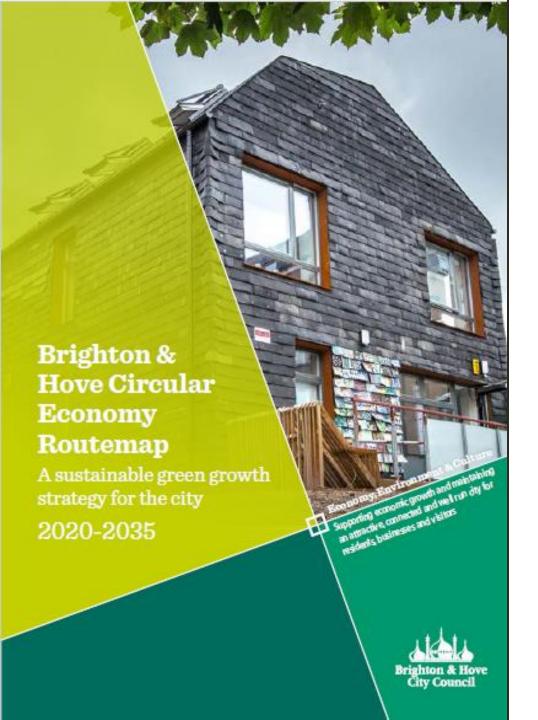
- 1. Sophie Moss, Brighton & Hove City Council & Dr David Greenfield, Tech Takeback
- 2. Hannah Ramsey-Smith, Essex County Council
- 3. Donald Chapman, Environmental Analyst, Zero Waste Scotland
- 4. Joanna Williams, UCL







Speaker slides...



OUR CIRCULAR ECONOMY JOURNEY

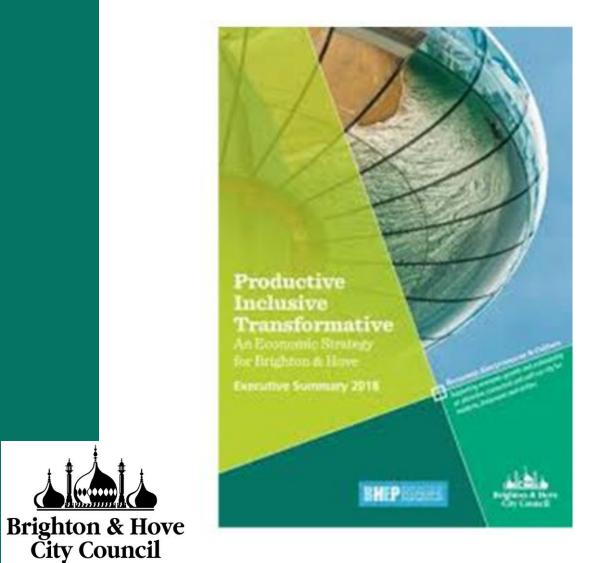
POLITICAL MANDATE

The political mandate for our programme of work was set in 2018 with the publication of Brighton & Hove City Council's Economic Strategy and reiterated in 2021 with the publication of the council's 2030 Carbon Neutral Programme.





BHCC ECONOMIC STRATEGY (2018 — 2023)







A City which looks to the future, focusing its economy on sustainable solutions to future challenges in order to protect and armance the health and werthing of its residents and act as a leader in developing a robust response to clarate change.

Oktoomes: a more circular, sustainable and resiliers econom

BHCC ECONOMIC STRATEGY (2018 — 2023)



Focus: A circular and sustainable economy, business and community engagement and climate change.

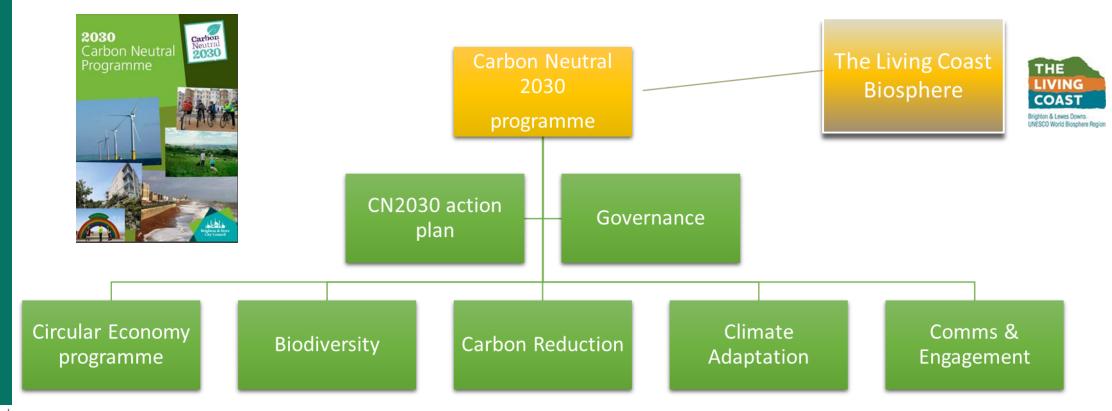
Purpose: A city which builds a strong, sustainable economy geared towards developing a robust response to climate change.

Priority Action 6: Promote the development of a circular and sustainable economy to minimise waste and pollution by reducing, reusing and recycling.





CARBON NEUTRAL 2030 PROGRAMME





THE BHCC CIRCULAR ECONOMY JOURNEY

Launch of the BHCC Economic Strategy

Dec. 2018

Creation of steering group and confirmation of sectors — Built Env and Visitor Economy

Apr. 2019

Constructing a Circular City Conference

Visitor Economy conference

June-July 2019

Outreach and engagement

Establishment of CE Oversight Board

Mar.-Aug. 2020

CE Members Advisory Group established

Officer re-engagement sessions to develop actions

Establish food focus with city food & business sector

2021

Mar. 2019

Circular Economy Workshop May 2019

Internal working groups set up

Oct. 19 - Feb. 20

Eight x 3hr Built Environment Accelerator Workshops Sep.-Dec. 2020

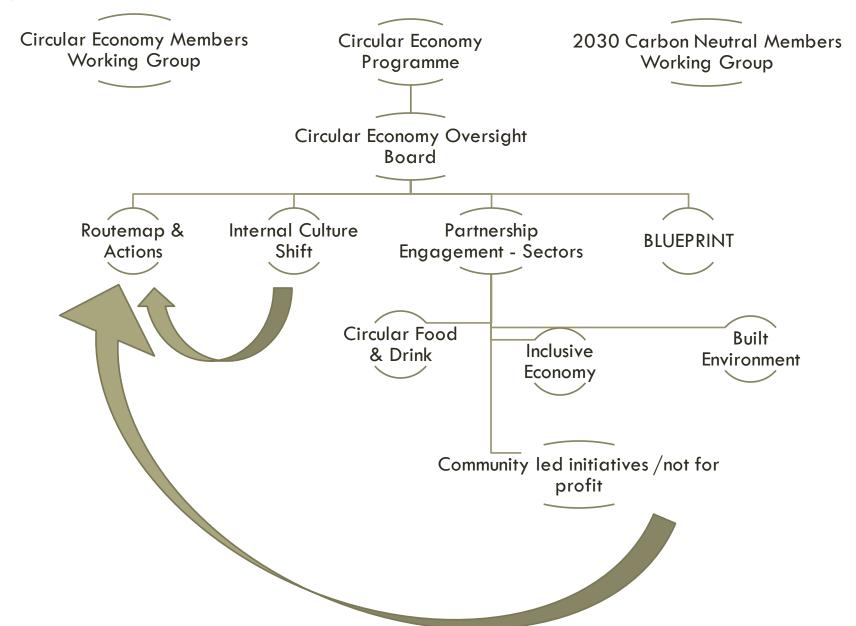
Members briefing
Report to P&R
Committee

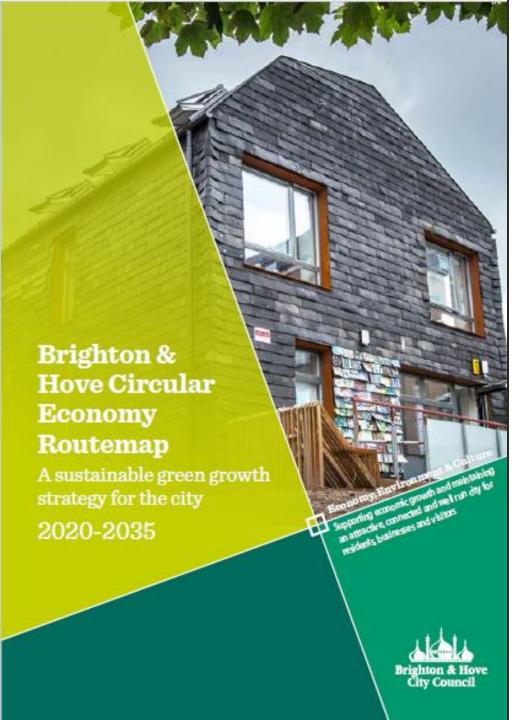
Routemap agreed by Councillors



CIRCULAR ECONOMY PROGRAMME

Brighton & Hove City Council





ACTION AREAS

Business engagement

Behaviour change

Creating a circular food system

Creating a circular built environment

SUPPORTING THE DELIVERY OF ACTIONS IN THE CIRCULAR ECONOMY ACTION PLAN

<u>Work Package 1</u> - Ensuring local authorities have the framework to work towards a circular economy

Work Package 2 - Mobilising social enterprises and public sector bodies to provide circular economy training

Work Package 3 - Helping schools and households to change their behaviour to support circular economy growth





BusinessGreen Leaders Awards 2021 CIRCULAR ECONOMY PROJECT OF THE YEAR









Dr David Greenfield

Co-founder and Managing Director Tech-Takeback









History

Tech-Takeback started as a small pop-up event in a Brighton cafe where a team of reuse, recycling and data security experts held an event to allow residents to donate their unwanted tech.

We ran 8 pop-ups over 28 days between 2017 and 2019 and collected over 9 tonnes of tech.





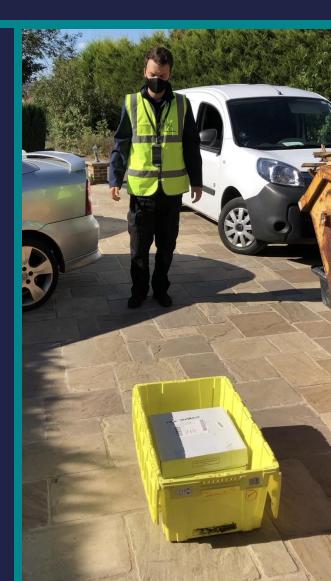
In 2020, Tech-Takeback and The ZeroNet joined forces with Brighton & Hove City Council and Recycle your Electricals to offer Brighton and Hove residents a new service:



Collection Process



- Residents download The ZeroNet app and state what they want to donate and request a collection
- Using route optimisation we schedule a collection which they accept or reject through the ZeroNet App
- Tech-Takeback undertake a Covid-19 Compliant Collection (Contactless, maintaining a safe distance) in a fully electric van
- Boxed filled by resident and then Box sealed by driver
- Next resident notified that we are en-route
- After all collections, all boxed taken to Operations hub.



Inventory Processing



Box checked into Inventory Booking in

Data erasure is undertaken

Triage once data erased

PAT Testing

Refurbish & Redistribute / Recycling

Reuse feedback to residents







Multiple charities including Digital Brighton & Hove, YMCA, Refugee support and schools

- Devices are loaded with operating system and office (as appropriate)
- DBH team find recipients
- Tech-Takeback in DBH champions support hardware
- Resident who donated tech is informed their items are supporting the digitally excluded

Freegle – a reuse charity

- All non tech items are PAT tested and redistributed through a Tech-Takeaway day in Brighton
- Residents are informed that their items have gone for reuse

Small Electrical Items Collected

12th Nov 2020-12th Nov 2021









RevaluElectricals

12th November 2020 - 12th November 2021

HOUSEHOLD

COLLECTIONS

2,063 26,712 ITEMS COLLECTED

12.14 KG AVERAGE COLLECTION PER HOUSEHOLD

1,933 REGISTERED USERS ON THE ZERONET































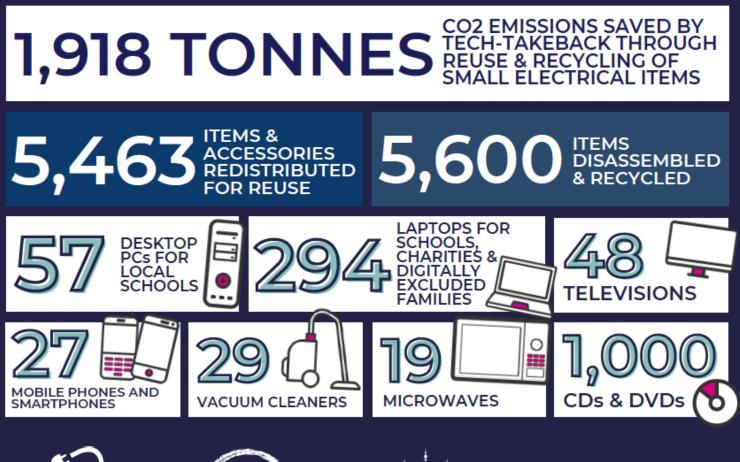






Small Electrical Items Reused and Recycled

12th Nov 2020 - 12th Nov 2021

















www.techtakeback.co.uk





KEEPING THINGS IN USE FOR LONGER

Let's talk about Textiles

at Whitehawk Library & Community Hub

Meet local, circular organisations at this FREE community event on:

Friday 1st April (2pm - 4:30pm)

AND
Saturday 2nd April (10am - 3pm)

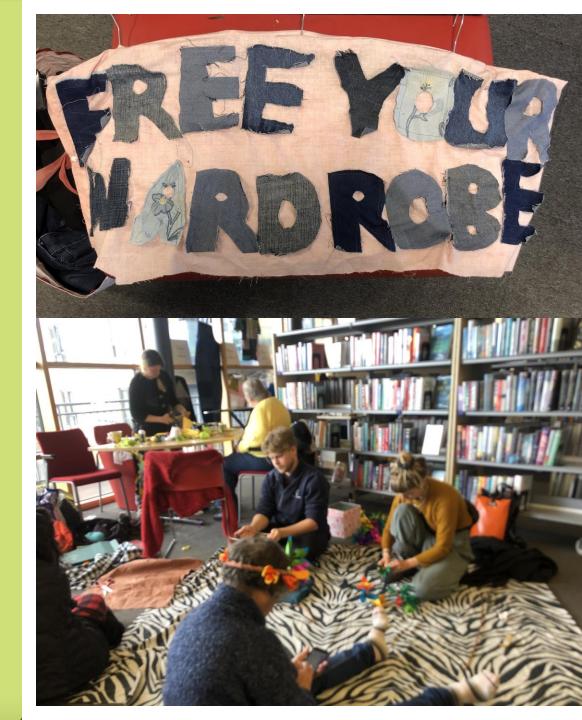












Whitehawk Library & Community Hub Fri 1st April & Sat 2nd April

Friday 2pm - 4:30pm

- Pre-loved SCHOOL UNIFORMS
 (2-4pm) Pay-as-you-feel for
 Longhill uniform with 'Smarter
 Uniforms' & SWAP with 'Box &
 Hanger' for primary school ages.
- Uniform REPAIR SHOP with 'Fabric Godmother' and 'The Fashion School'
 learn simple hand repairs.
- After school SNACKS from Hawks cafe.
- CRAFTS (3-4:30pm)

Saturday 10am - 3pm

- 'FREE YOUR WARDROBE' (from 11am) FREE women's wear event.
 Bring clothes you don't wear, take clothes you can't wait to wear!
- Clothing REPAIR SHOP and demos with 'Fabric Godmother'
- Whitehawk Arts Collective scraps workshop (10am – 1pm).
- CRAFTS (1:30 3pm).
- · Coffee & croissants 10-12pm.

And on BOTH days:

- 'Woolly Umbrella' SPINNING.
- Pelican parcels supporting families in Sussex.
- SOEX find out what happens to recycled textiles.
- Circular Economy Champions find out more!
- Tech-Takeback giving unwanted tech a second life.
- Freegle the FREE online reuse platform
- Circular Brighton & Hove











Next Steps and vision

- Three more roadshows
- School and university visits
- Disassembly sessions
- New material collection streams
- A circular café for home workers
- Small changes with big impact
- A multifaceted CE hub for the city

THANK YOU

Dr David Greenfield – Managing Director, Tech-Takeback Ltd

Email: david@techtakeback.co.uk

Mobile: 07711 930988

Website: https://www.techtakeback.com



Business Green
Leaders Awards 2021
CIRCULAR ECONOMY
PROJECT OF THE YEAR











BLUEPRINT to a Circular Economy Model

Supporting local authorities to transition to a circular economy

Hannah Ramsey-Smith – Senior Circular Economy Officer, Essex County Council

Project overview





















Three year project April'
 20 – March' 23

• €5.5M total project value







Project goals



ENABLE local authorities to accelerate towards a dynamic circular economy.



EQUIP social enterprises to support disadvantaged people to secure jobs in the circular economy sector.



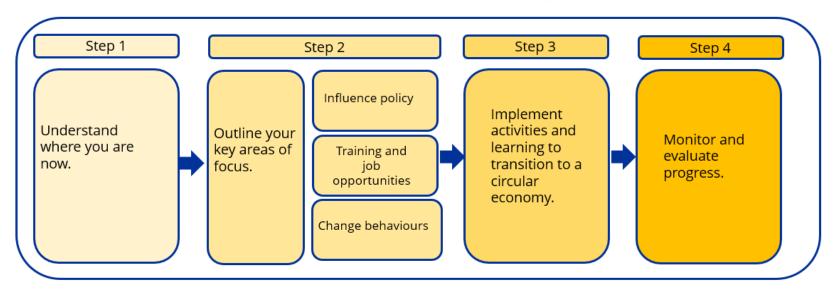
ENHANCE community engagement to deliver lasting behaviour change for residents and schools.



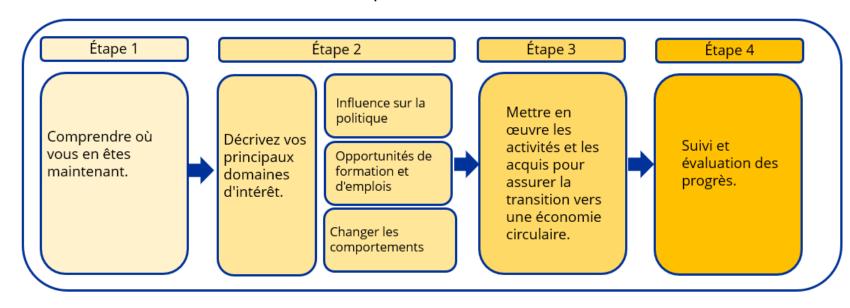




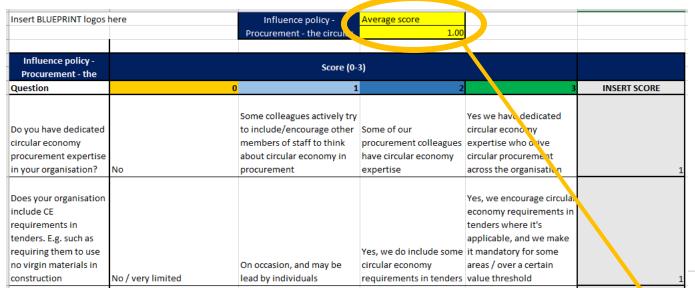
The BLUEPRINT to a Circular Economy Model



PLAN DIRECTEUR pour une économie circulaire



Step 1 – Understanding where you are now.



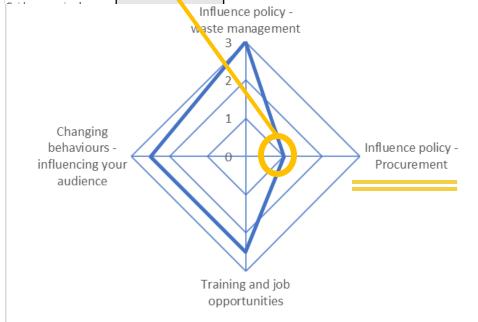
Step 1

Understand where you are now.



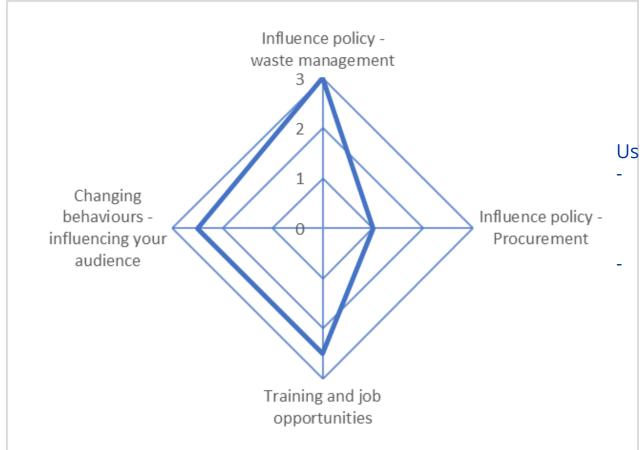






Step 2 – Outline your areas of focus.

Survey output example:





Users answer indicate

- That local authority is performing well for training job opportunities, and changing behaviour.
- User should identify from the visual, gaps or opportunities to improve with regard to influence policy.

Influence policy







Step 3 – Implement activities and learning to transition to a circular economy.

- Influence policy procurement (webpage)
 - Broadly following Qs in baselining activity
- Incorporate outputs of BLUEPRINT project:
 - Advice, research, reports, case studies & CE solutions
- Incorporate external guidance
 - National targets, best practice from LA
 BLUEPRINT Partners, & Industry best practice –
 EMF & Interreg projects

Step 3

Implement activities and learning to transition to a circular economy.

Influence policy





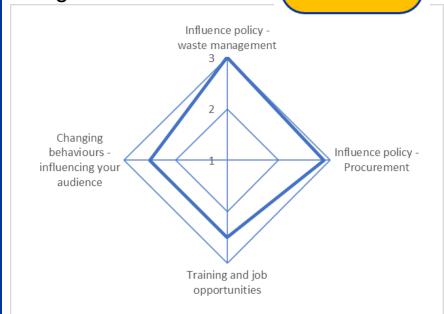


Step 4 – Monitor and evaluate progress

- User to repeat baselining activity and compare progress
- Circulates Tool

Baseline visual Influence policy waste management Changing behaviours -Influence policy influencing your Procurement audience Training and job opportunities

Progress visual



Step 4

Monitor and evaluate

progress.







Local authority training

- Local authority engagement
- BLUEPRINT Model self-guided
- Considering 'training' opportunities to support LAs to use BLUEPRINT Model
- How training can support LAs after BLUEPRINT video recording/virtual pre-recorded training.











Thank you.

Please get in touch if you would like to find out more about the BLUEPRINT to a Circular Economy Model

&

If you would like to attend the LA workshop next Tuesday 17 May 9:30 -11:00am

blueprint.project@essex.gov.uk





















Scotland's journey with waste metrics

Donald Chapman, Environmental Analyst

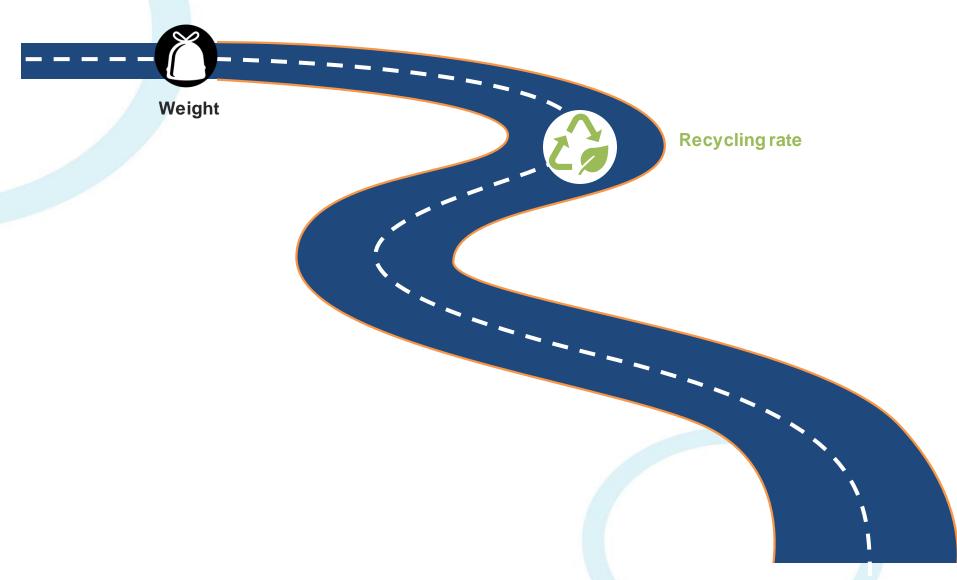
Project Blueprint 9th May 2022



EUROPE & SCOTLAND
European Regional Development Fund
Investing in a Smart, Sustainable and Inclusive Future

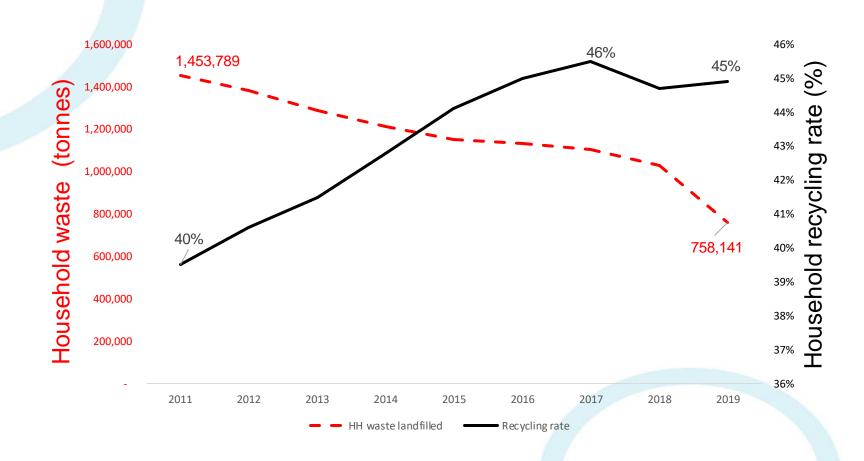
Monitoring Scotland's waste





Scotland's stats on household waste





Source: Scottish Environment Protection Agency

From weight-based to impact-based



1 tonne of glass waste

1 tonne of food waste

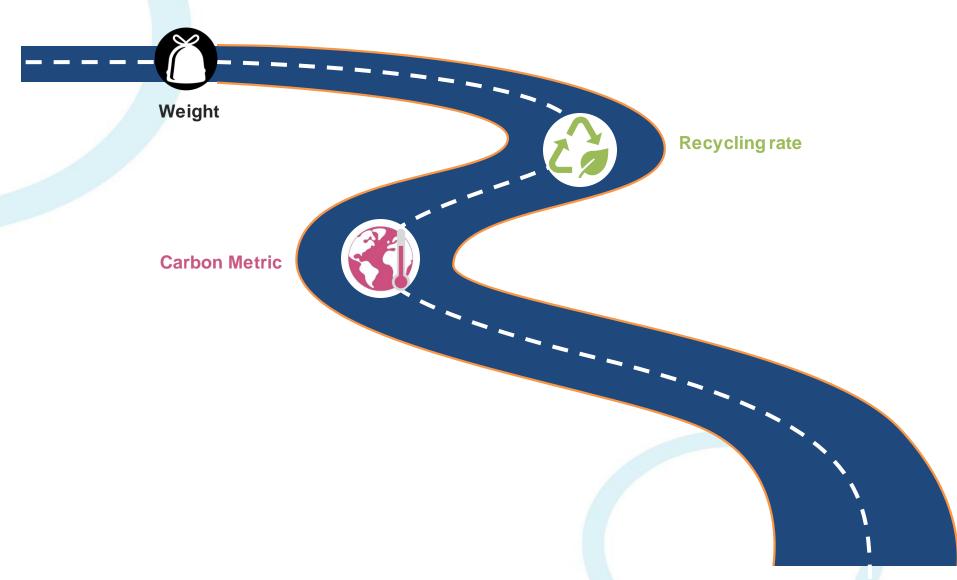
4 kg CO₂e
Carbon impacts of landfilling 1 tonne of glass waste.

989 kg CO₂e
Carbon impacts of landfilling 1 tonne of food waste.

Source: Zero Waste Scotland Carbon Metric

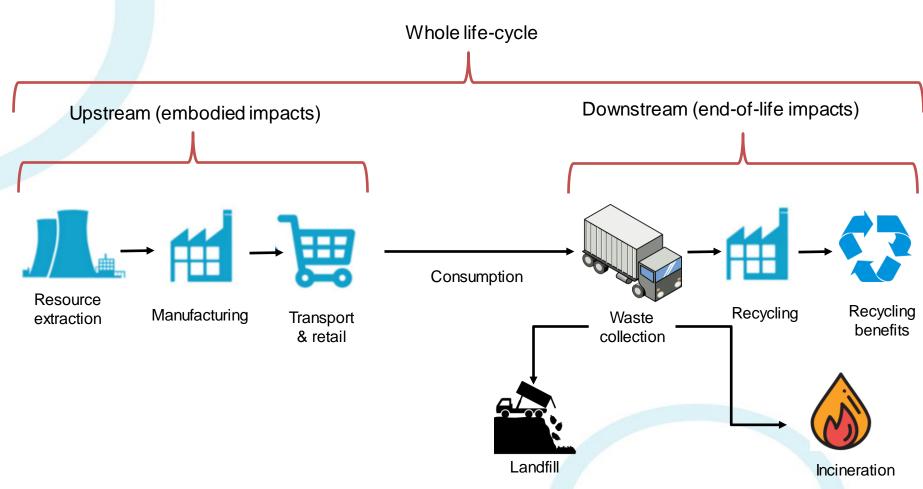
Monitoring Scotland's waste





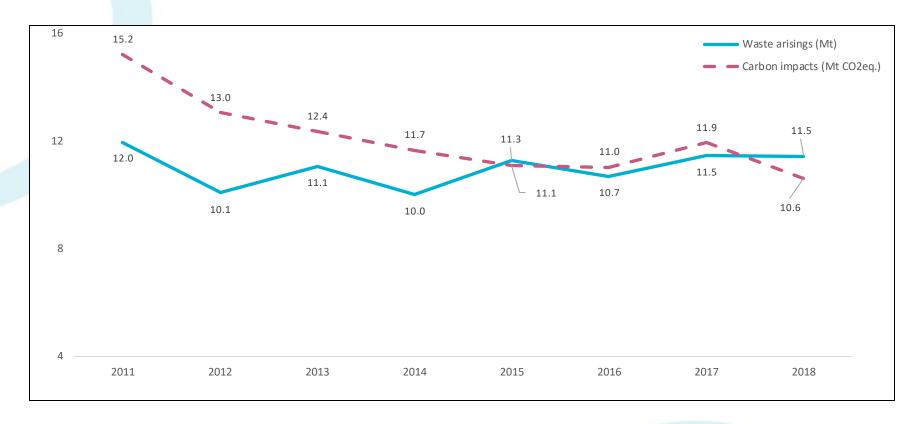
Scotland's Carbon Metric





Scotland's Carbon Metric

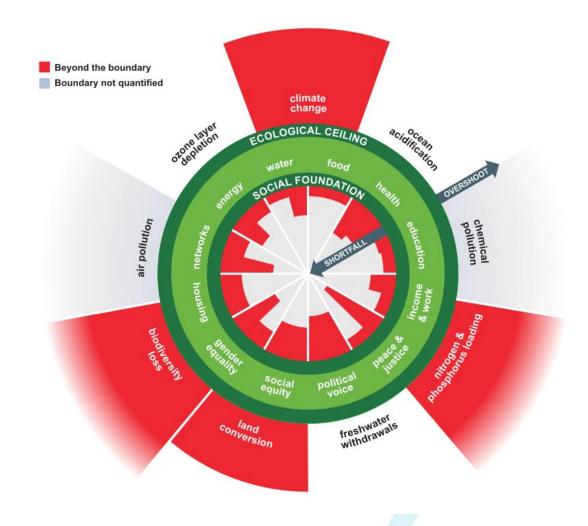




Weight versus whole-life carbon impacts of waste from all sources in Scotland.

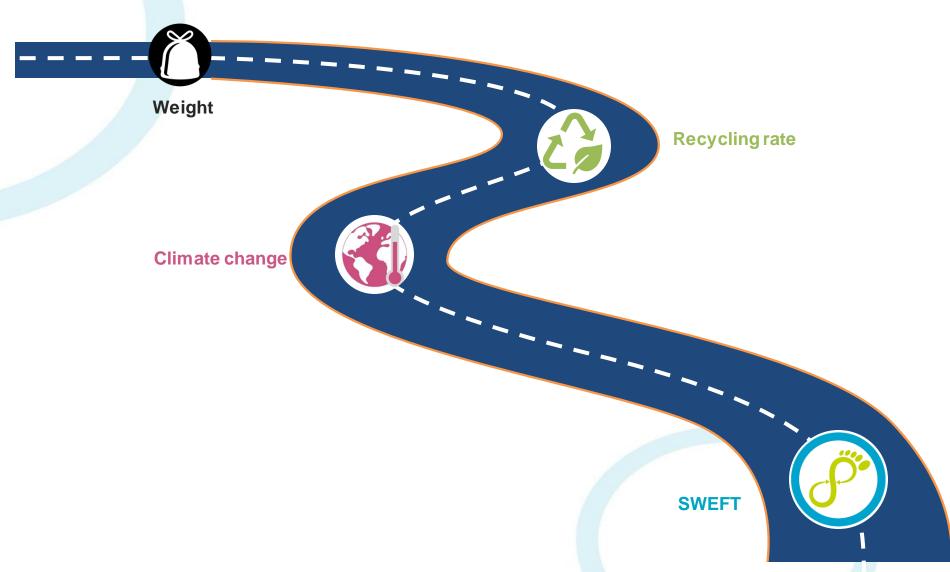
Beyond carbon – The Planetary Boundaries





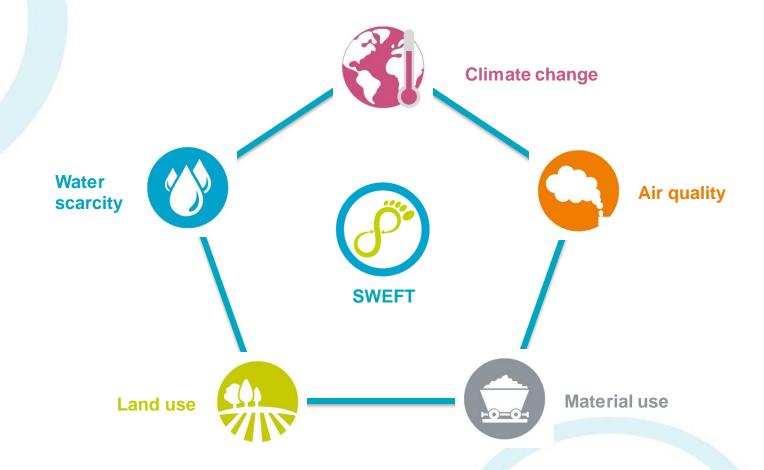
Monitoring Scotland's waste





Scottish Waste Environmental Footprint Tool (SWEFT)

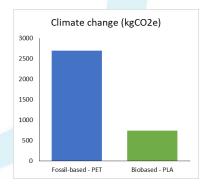


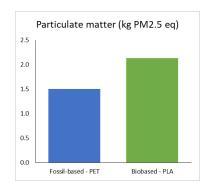


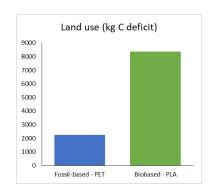
Beyond carbon ... Why now?

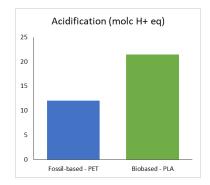
Fossil-based plastics Vs Bio-based plastics

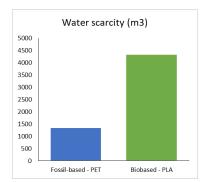


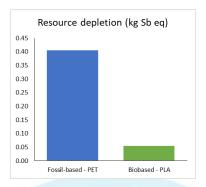












Source: Walker and Rothman, 2020. LCA of bio-based and fossil-based plastic: A review

Identifying hotspots – key waste categories – Scotland's 2018 household waste



Waste category	Weight	Carbon footprint	Water use	Land use	Material use	Air quality
Food						
Paper & cardboard						
Plastics						
Glass						
Wood						
Mixed metals						
Textile						
WEEE						
Others						

Environmental impacts

Low High

How can SWEFT help the resource and waste sector?





Find out more

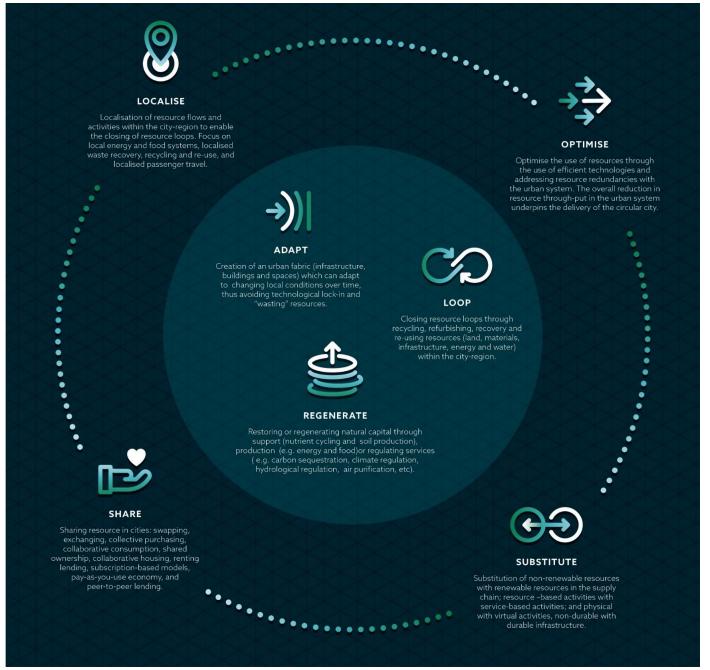


- Beyond Recycling: An LCA-based Decision-Support Tool to Accelerate Scotland's Transition to a Circular Economy, RCR Advances, http://doi.org/10.1016/j.rcradv.2022.200069
- Making an Impact, Circular magazine, https://www.circularonline.co.uk/features/making-an-impact/
- Targeted Approach, Circular magazine, https://www.circularonline.co.uk/features/targeted-approach/



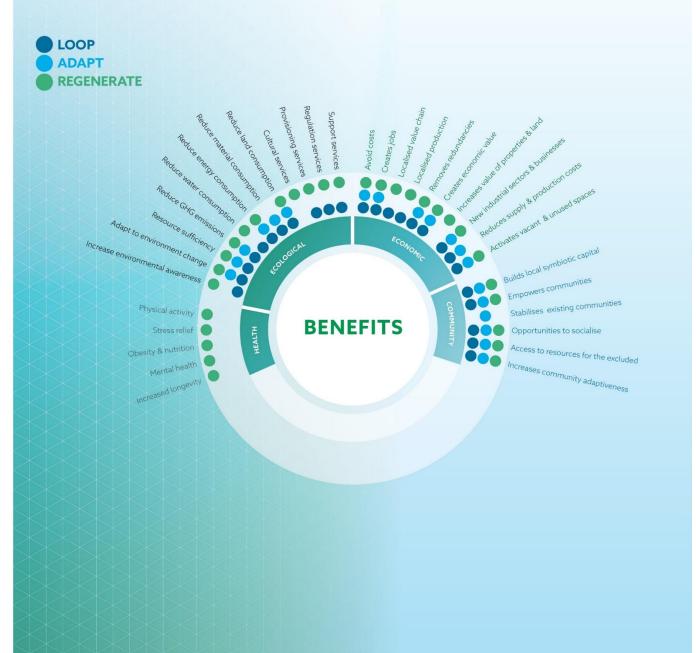






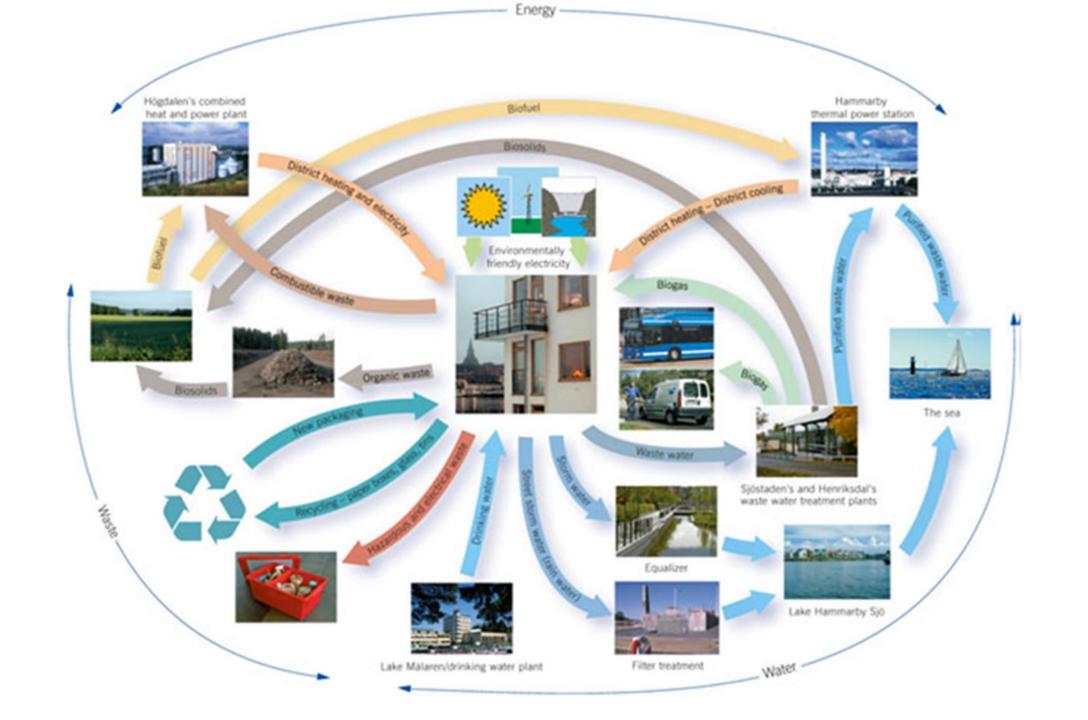
Williams, J (2021) Circular Cities: A revolution in Urban Sustainability, Routledge





Williams, J (2021) Circular Cities: A revolution in Urban Sustainability, Routledge

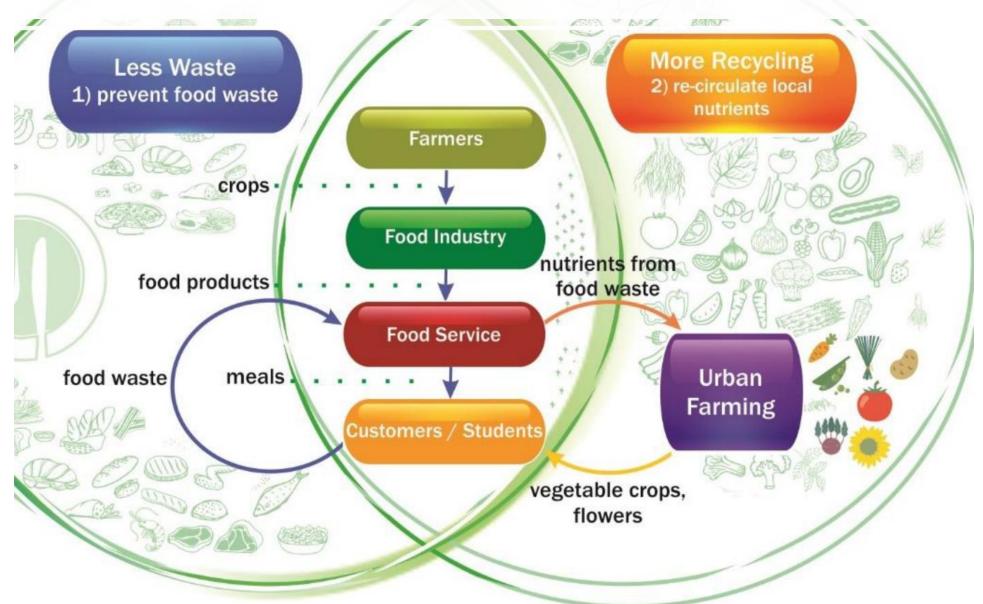




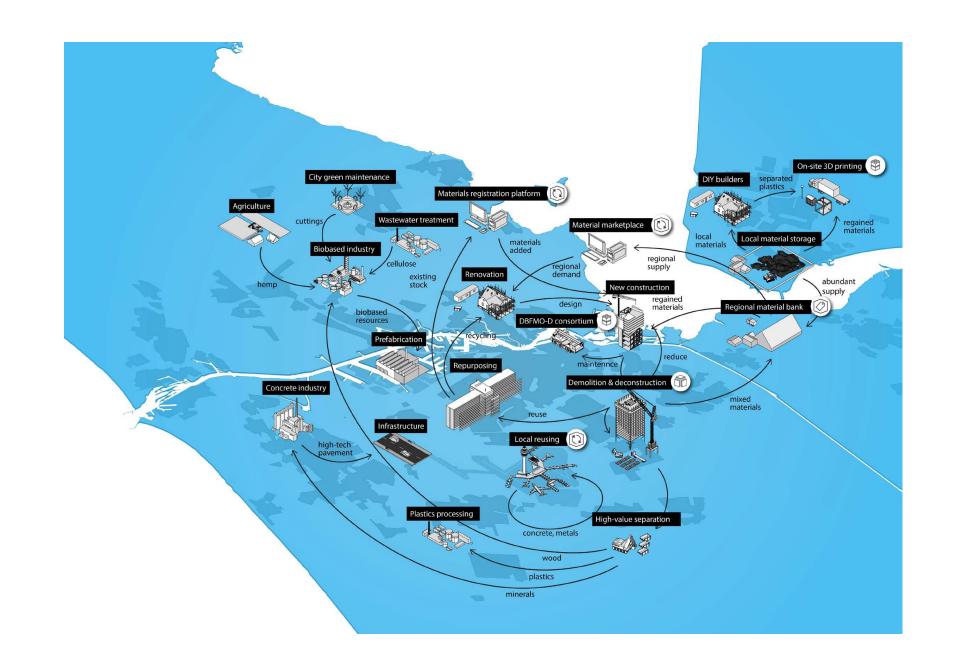
So how can circular systems shift upwards in the circular hierarchy? **Urban farming Biofuel production** organic agriculture ocal digestor biodiesel Households food Gas stations products restproducts biogas Wastewater treatment dunne fractie voedsel Wholesale Cellulose Food production Biobased plastics Biobased construction materials Paper & plastic packaging Algae production packaging Fertilizer production Households Schiphol Airport Protein production struvite Wastewater treatment cattle feed Agriculture electricity

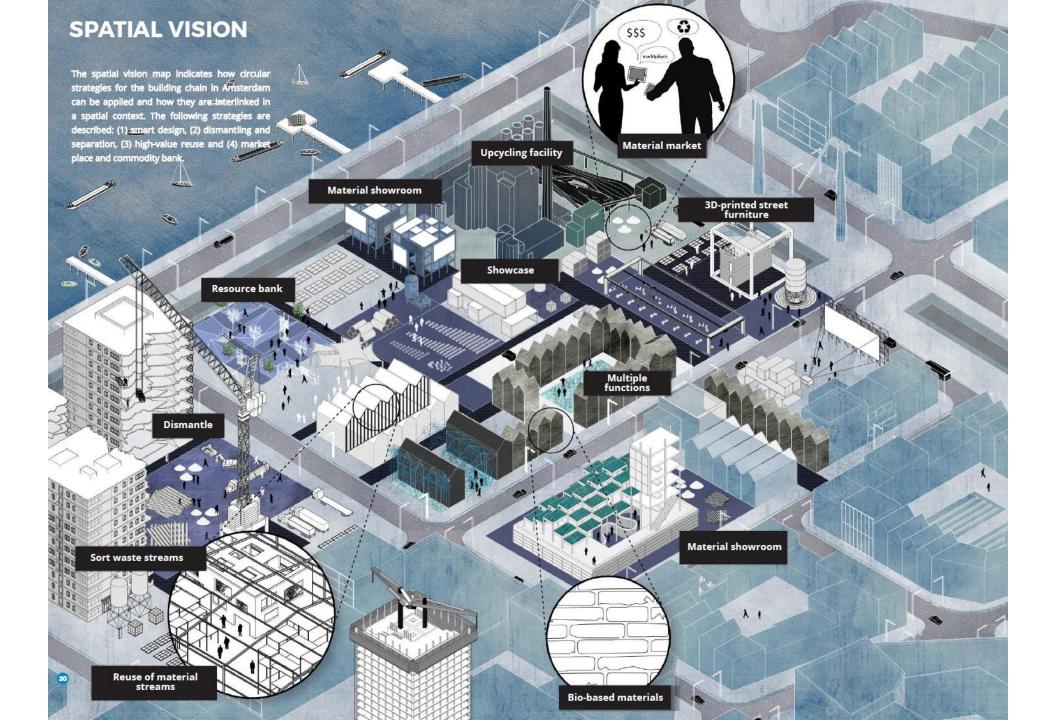


Circular food systems – grow, reduce, reuse, recycle















PROVISIONING

MUNICIPAL PROVISIONING

of services (utilities, housing, transport and waste) and infrastructure enables a circular transformation.

CO-PROVISIONING

state/ private sector partnering with the community to provide circular systems of provision.

CAPACITY

EXPERIMENTS AND LIVING

LABS to determine the challenges to circular activities and circular development.

COORDINATION AND

LOGISTICS to enable circular actions across city-regions.

DATA PLATFORMS, TRAINING AND TOOLS

to enable learning, exchange of resources and enforcement of circular actions.

FORA AND NETWORKS

to enable learning and coalitions to be built to enable circular actions.

PROVISION OF LAND

The size of the si

LOCAL CURRENCIES

REGULATION

recycling, energy recovery, biodiversity, food waste reuse)

to encourage circular actions and circular development.

LEGISLATION (e.g. Landfill, grey-water

Policy targets and policies for encouraging circular actions and circular development.

Circular tendering, contractual agreements, environmental

programmes to enforce circular

Spatial plans, integrated plans, temporary planning permissions,

flexible planning, performance

based planning & collaborative

planning to enable circular development.

development principles.

POLICIES

CONTRACTS

PLANNING

to encourage circular activities or the localised looping of resources.

PENSION FUNDS

invested in circular businesses, services and infrastructure.

CAPITAL AND OPERATIONAL SUBSIDIES

for circular infrastructure and circular activities.

PUBLIC PROCUREMENT

(policies, tools, networks) to encourage the development of circular products and services.

TAXATION

(landfill, empty homes, carbon) to reduce waste and encourage circular activities.

FINANCIAL INCENTIVES

LEVERS FOR

CIRCULAR

DEVELOPMENT

Williams, J (2021) Circular Cities: A revolution in Urban Sustainability, Routledge



Circular Cities A Revolution in Urban Sustainability

Jo Williams

Routledge Studies in Sustainability



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Thank you for attending! Please complete our quick feedback survey



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