



# THE CIRCULAR ECONOMY IN A GLOBAL CONTEXT

Tallinn, October 5th, 2017



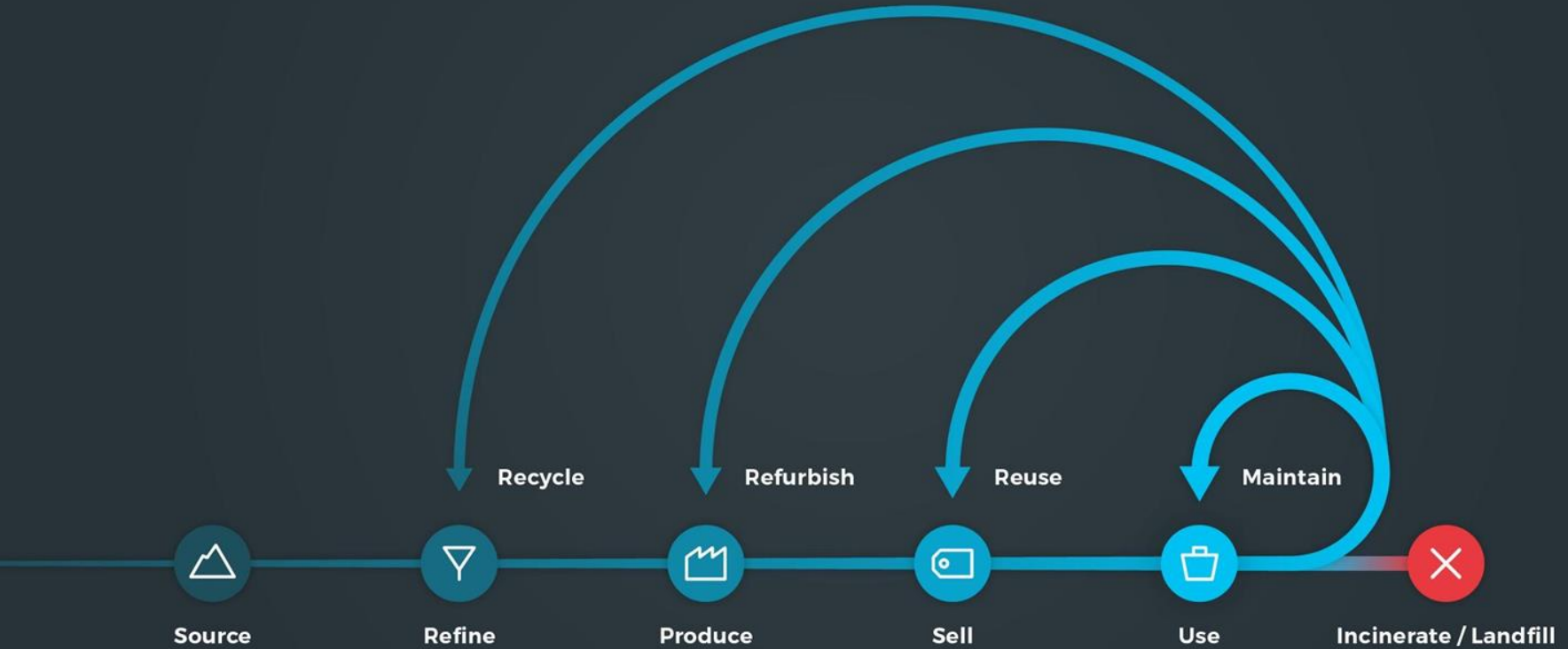
# ABOUT CIRCLE ECONOMY



# OUR ECONOMY FOLLOWS A 'TAKE-MAKE-WASTE' MODEL

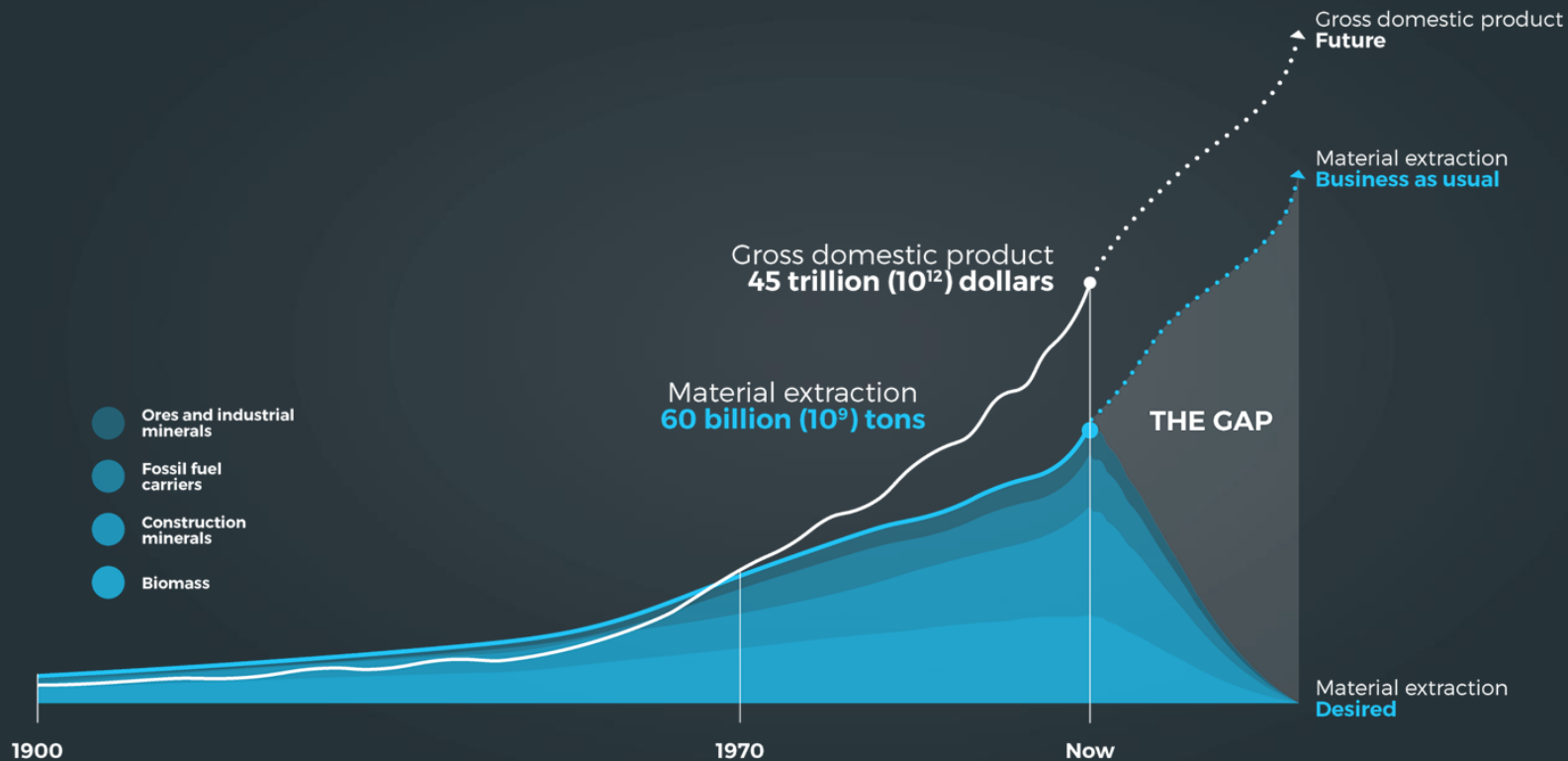


# THE CIRCULAR ECONOMY OFFERS A WAY FORWARD

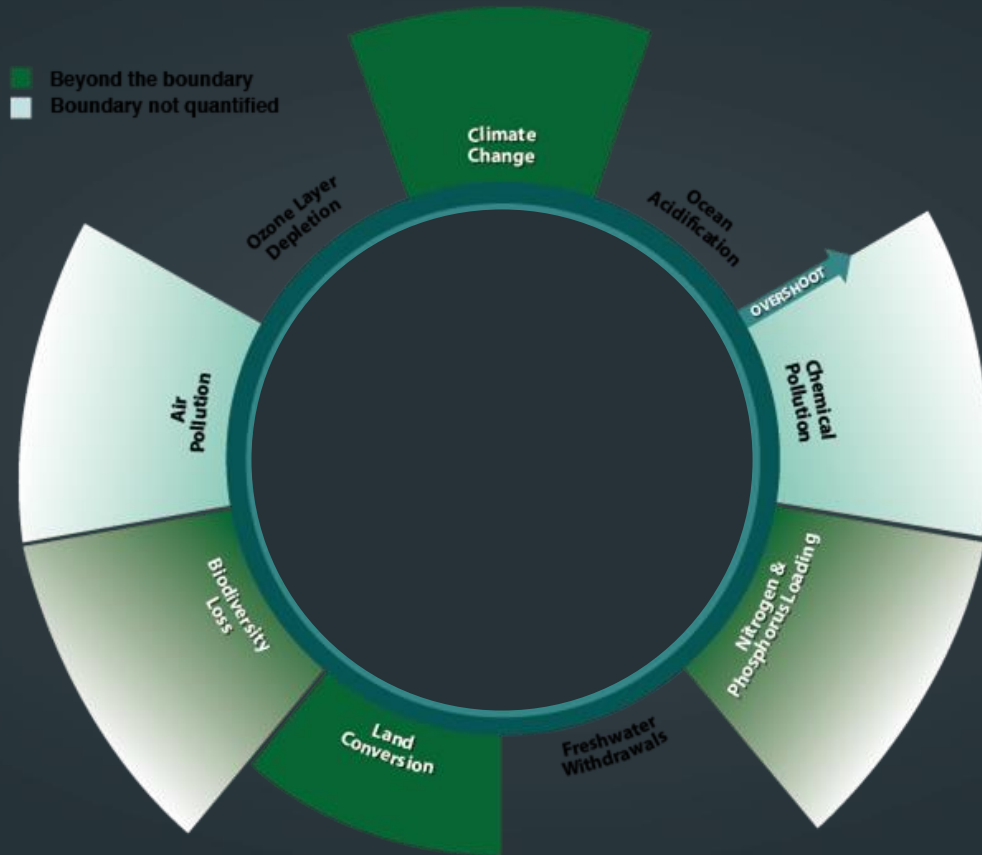


# WHY IS THE CIRCULAR ECONOMY SO RELEVANT TODAY?

# ECONOMIC GROWTH IS FUELLED BY MATERIAL EXTRACTION

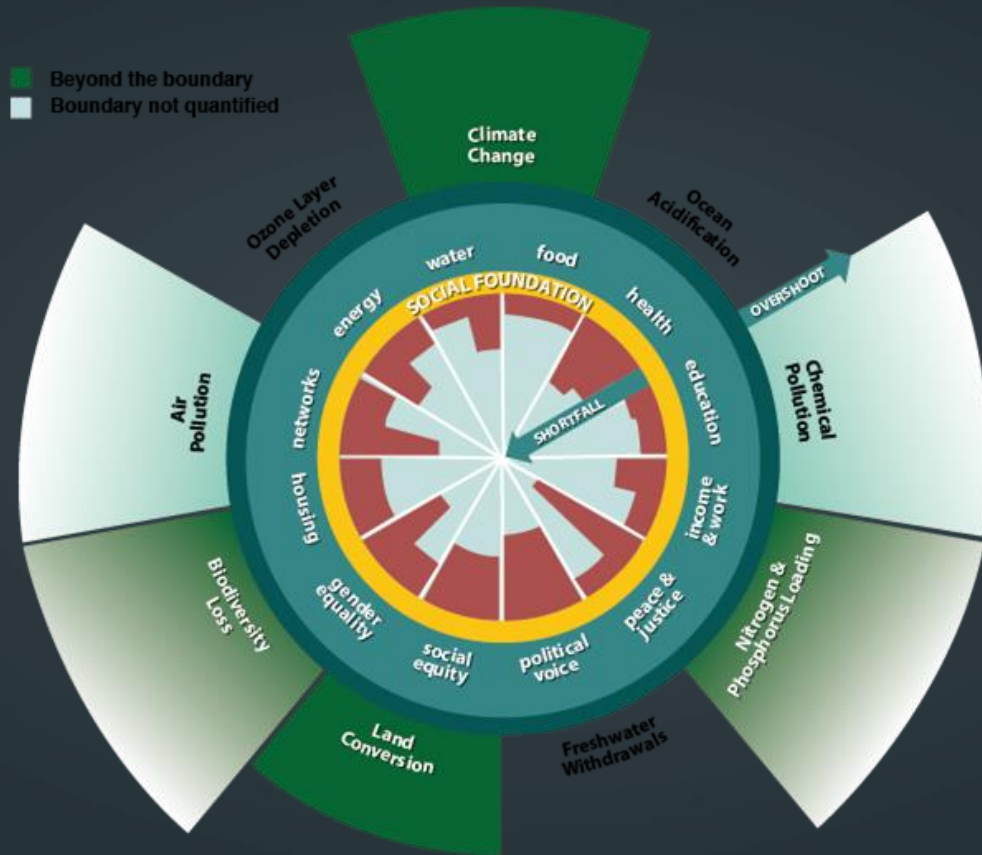


# PLANETARY BOUNDARIES ARE IN PLAIN SIGHT



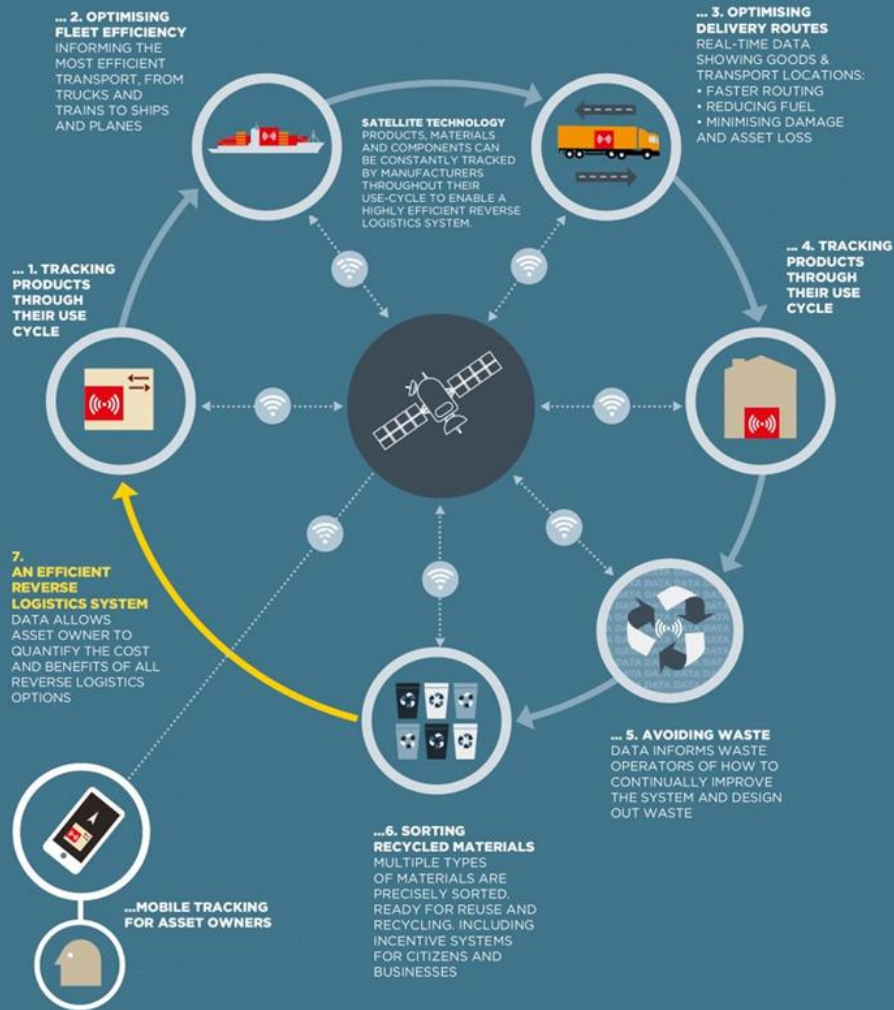
"Doughnut Economics" concept by Kate Raworth

# PLANETARY BOUNDARIES ARE IN PLAIN SIGHT



"Doughnut Economics" concept by Kate Raworth







**50%**

of global population  
lives in urban areas

**2/3**

of global energy  
is used in cities

**70%**

of global resources  
are used in cities



**Value  
creation**



**Job  
creation**



**Better  
air quality**



**Competitiveness  
in global markets**



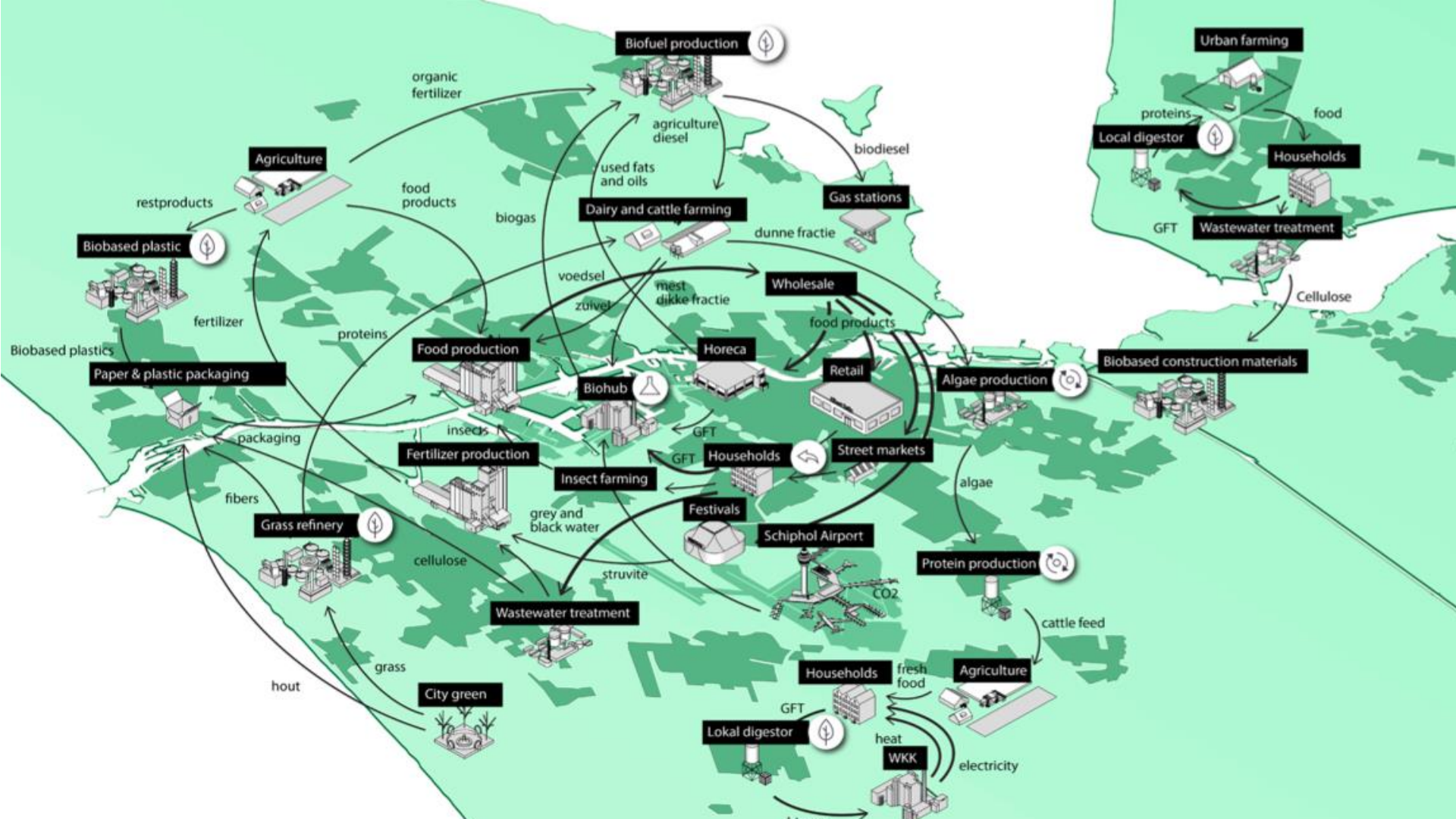
**Reduced CO2  
emissions**



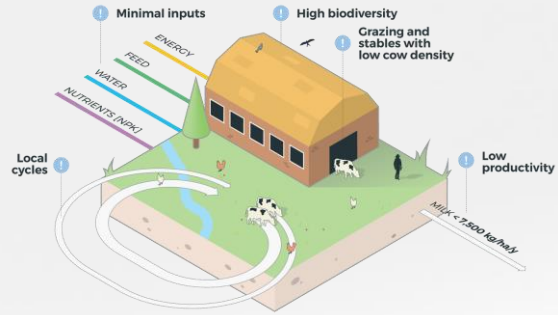
**Reduced  
resource use**

# HOW CAN BUSINESS AND THE PUBLIC SECTOR WORK TOGETHER?

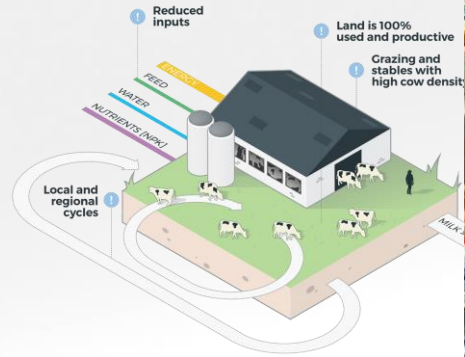
# CITIES AS A TESTBED



## Extensive grazing

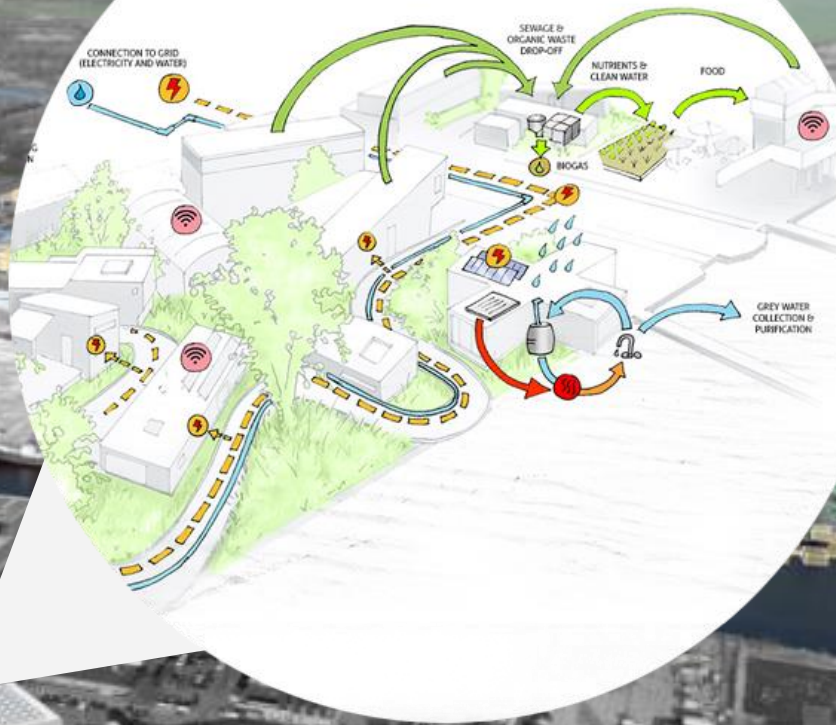


## Optimised grazing



Report: <http://www.circle-economy.com/case/the-circular-dairy-economy>







CITIES AS A  
FACILITATOR

The prioritisation chart provides insights regarding the circularity potential and economic relevance of the discussed subsectors. The final aim of the bubble chart is to provide support for the decision-making process regarding which subsector the analysis will be focusing on in the next phases.

The Metallurgy & metal products subsector and the Restaurants subsector have the highest potential, respectively due to mainly circularity potential and economic relevance. In a second belt, Retail trade, Wholesale trade, and Transport equipment can be found. The outer bound, representing the lowest rating subsectors, includes Sale and repair of motor vehicles & sales of automotive fuels, Electrical equipment, and Hotels.

The chart on the right displays a ranking of the eight subsectors based on circularity potential (x-axis) and economic relevance (y-axis). These scores are based on the following indicators:

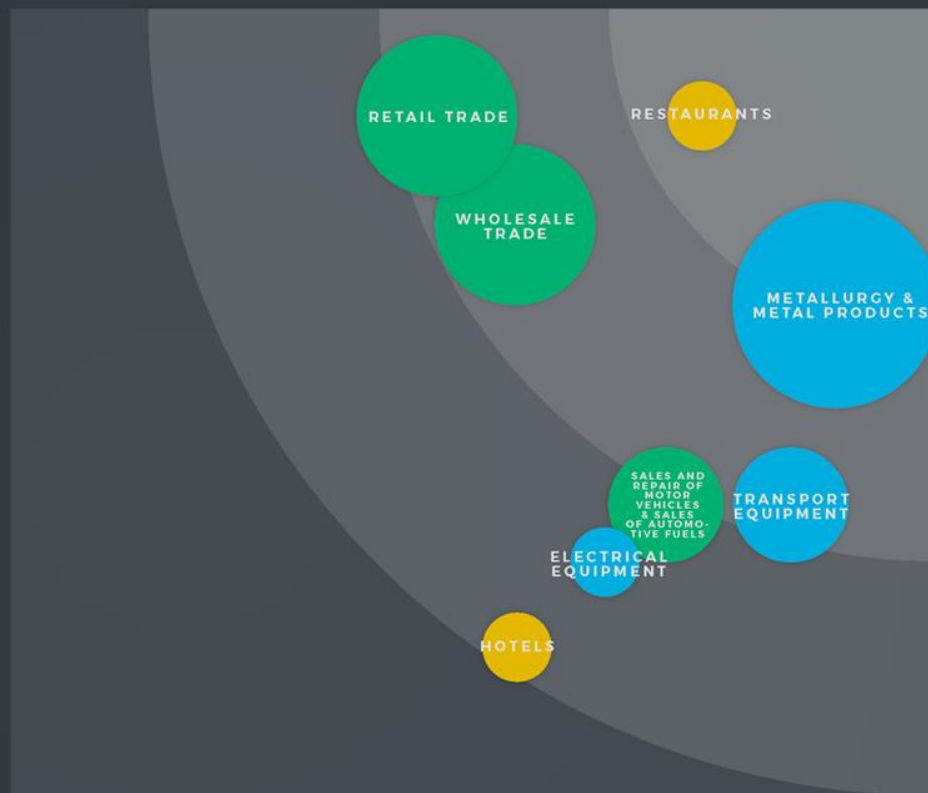
#### ○ Circularity potential:

- Waste generation [tonnes]: total amount of solid waste generated by the subsector over the year
- Material intensity [kg/€]: amount of resources needed for the production of a monetary unit of that product
- Waste value recovery [%]: share of solid waste which undergoes value recovery treatments

#### € Economic relevance:

- Jobs: total number of employees per sub-sector
- Establishments: total number of establishments per sub-sector
- Gross value added: economic value generated by the sub-sector
- Strategic dimension: political relevance of the sub-sector for Bizkaia

€ ECONOMIC RELEVANCE >

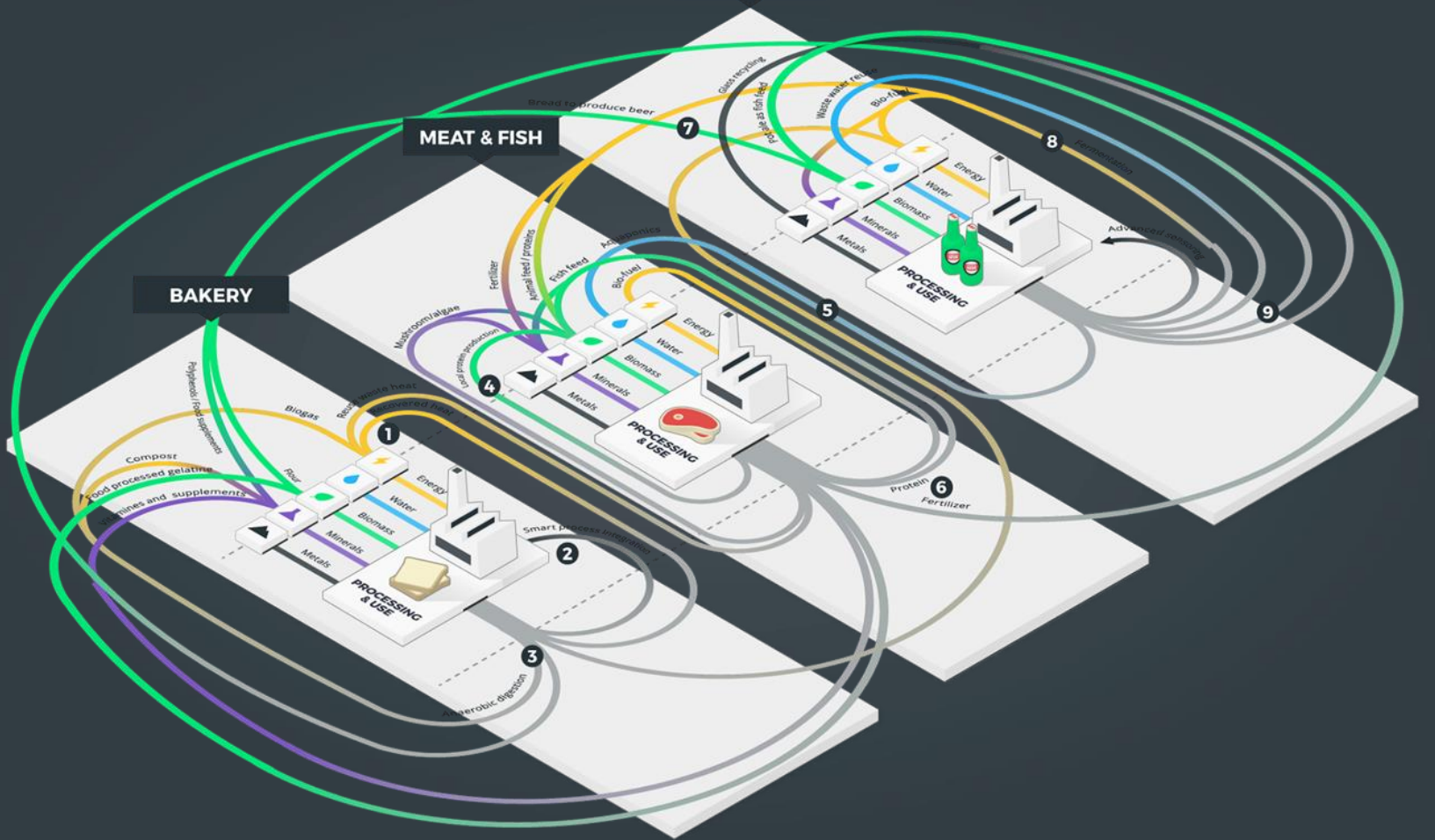


The size of the circle is a measure for the greenhouse gases emitted by the subsector.

# BEER & SPIRIT

# MEAT & FISH

# BAKERY



# TEXTILE SORTING: FIBERSORT



Collection



Recycling



Technology



# GLASGOW: IMPLEMENTATION



# WHAT IS HAPPENING ON THE EU LEVEL?

# POLICIES ACROSS EUROPE



Circular economy package



Energy transition law



Circular Netherlands 2050



Circular economy roadmap



Circular Economy Act



Industry initiatives



Fiscal incentives for repair



## Platform for Accelerating the Circular Economy

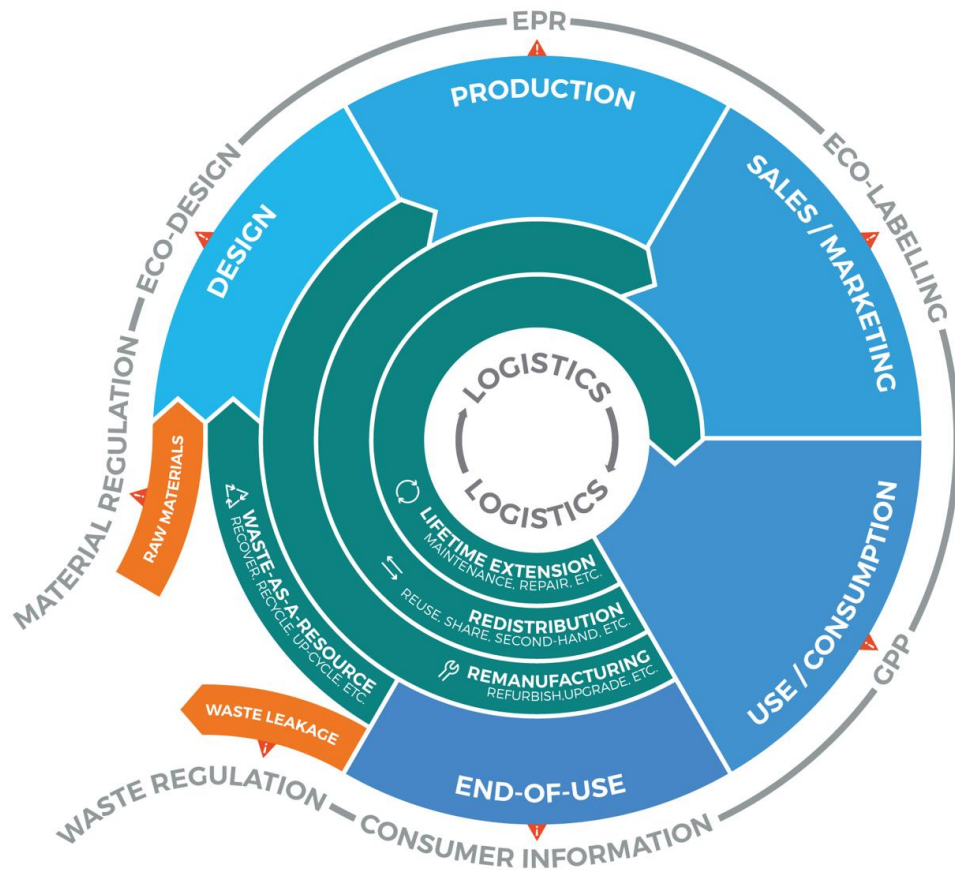


This project is part of the World Economic Forum's [Shaping the Future of Environment and Natural Resource Security](#) System Initiative

## Circular Economy



# THE GRIP OF POLICY IS TIGHTENING





**THANK YOU!**



**CIRCLE  
ECONOMY**