

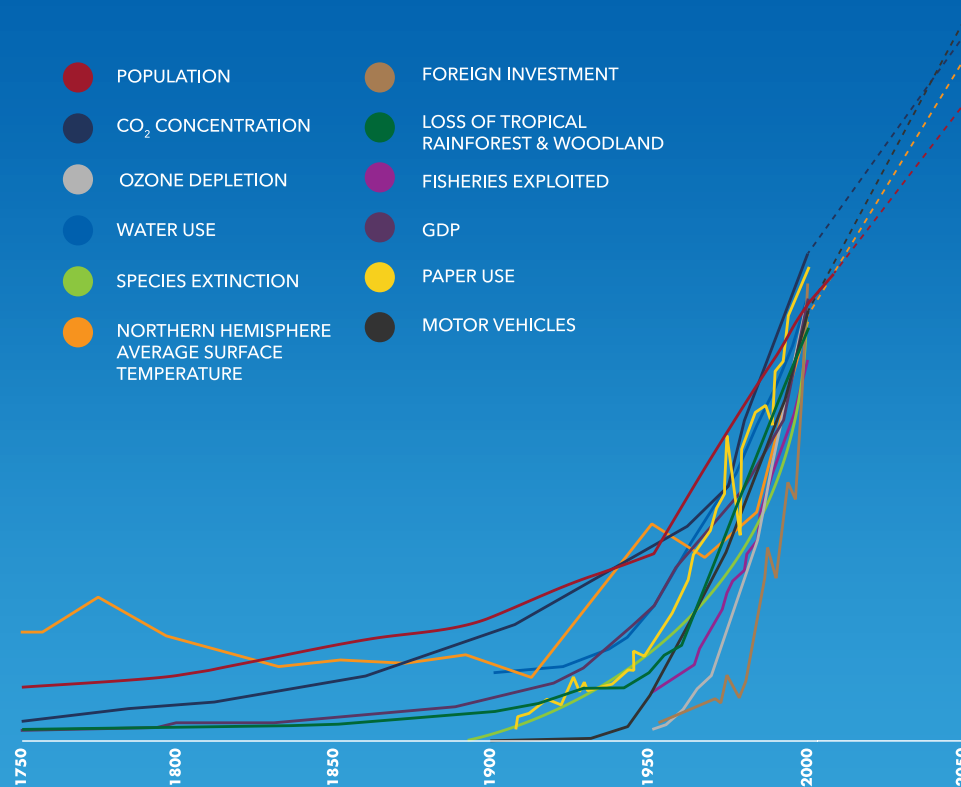


**GLASGOW**

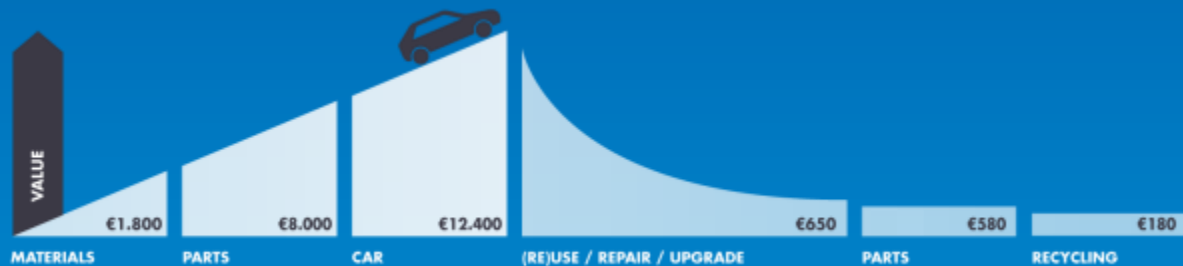
**Practical and scalable  
solutions for circular cities**

Andy Ridley  
Klaske Kruk

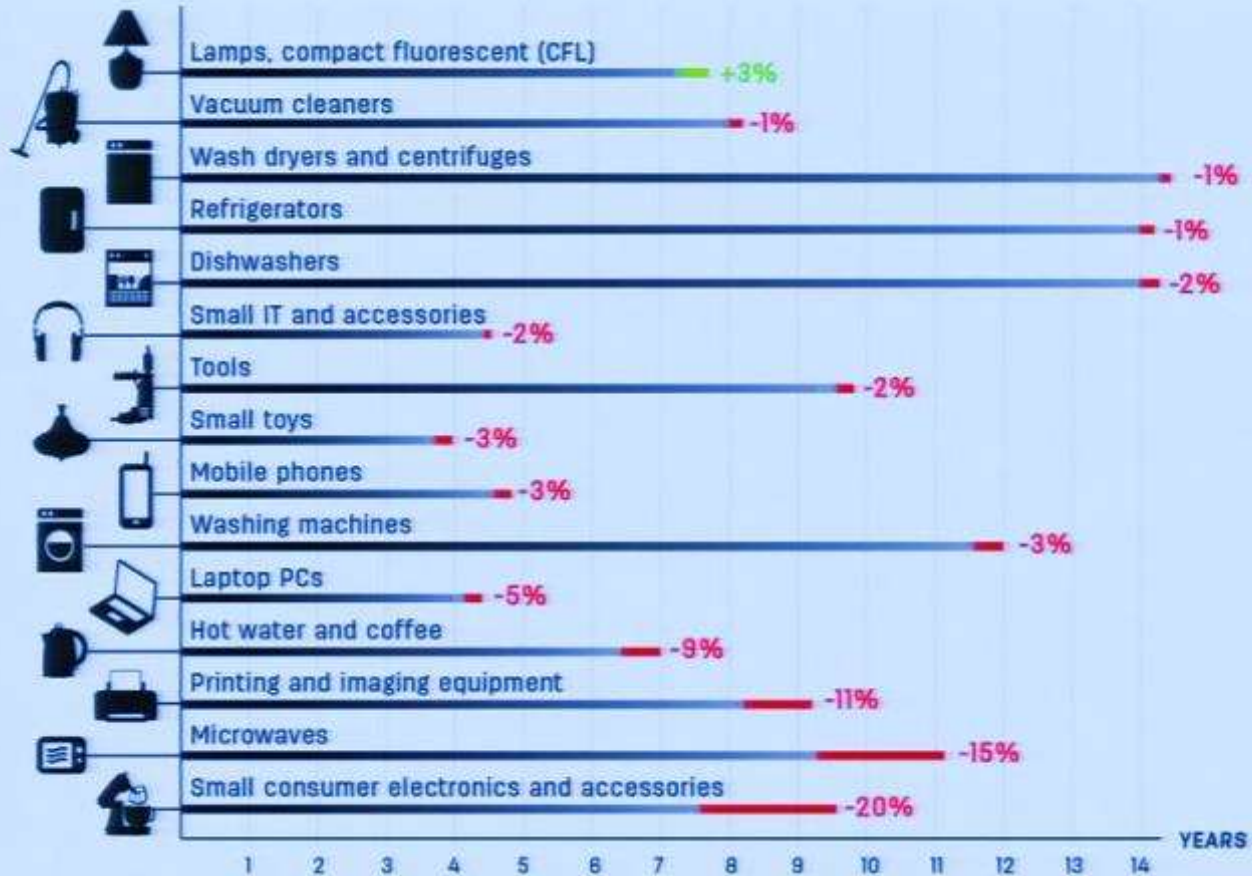
# UNSUSTAINABLE FUTURE GROWTH



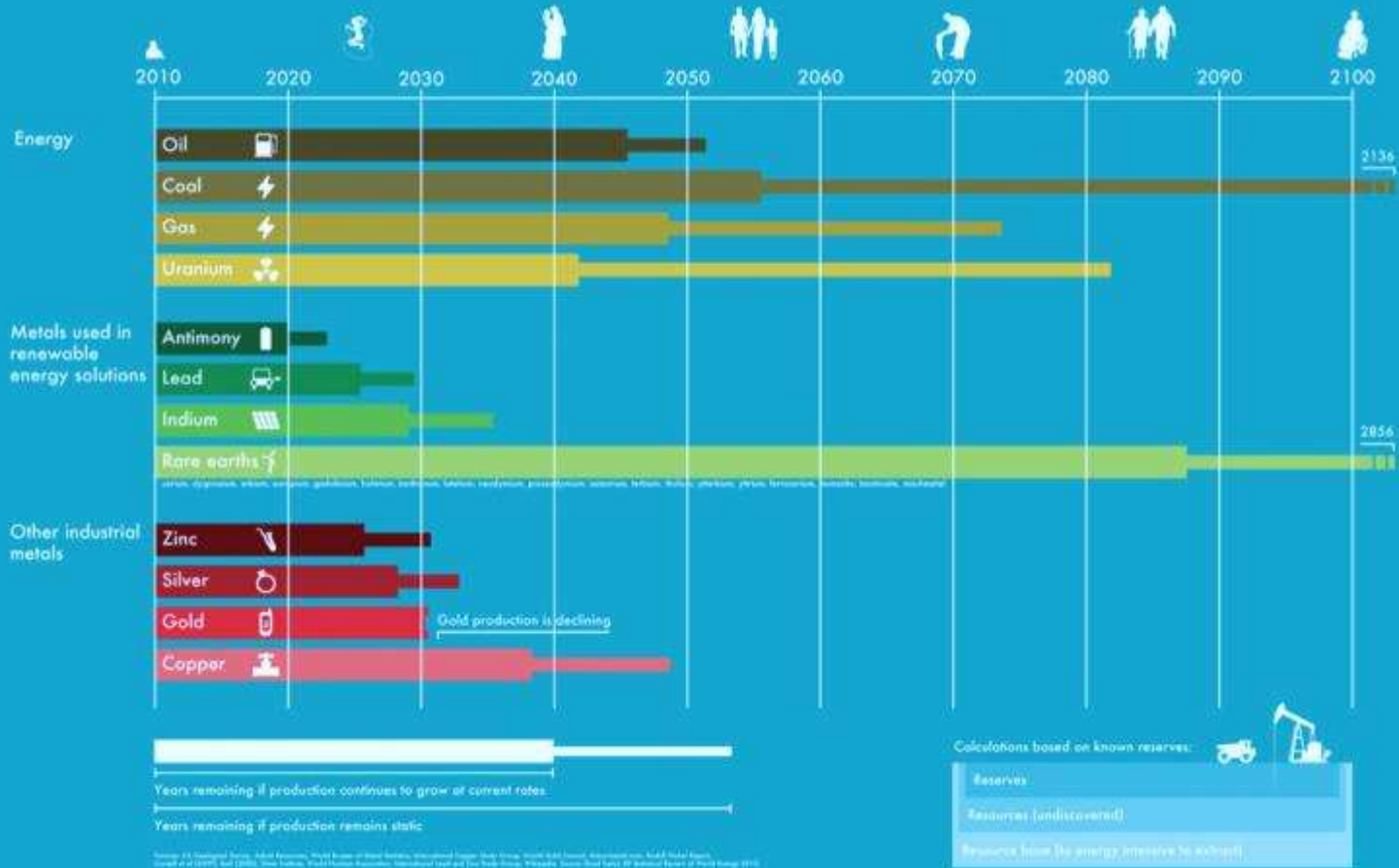
# PRESERVE VALUE



# DESIGNED OBSOLESCENCE



# RESOURCES RUNNING OUT



# WASTE



# CONSEQUENCES FOR CITIES

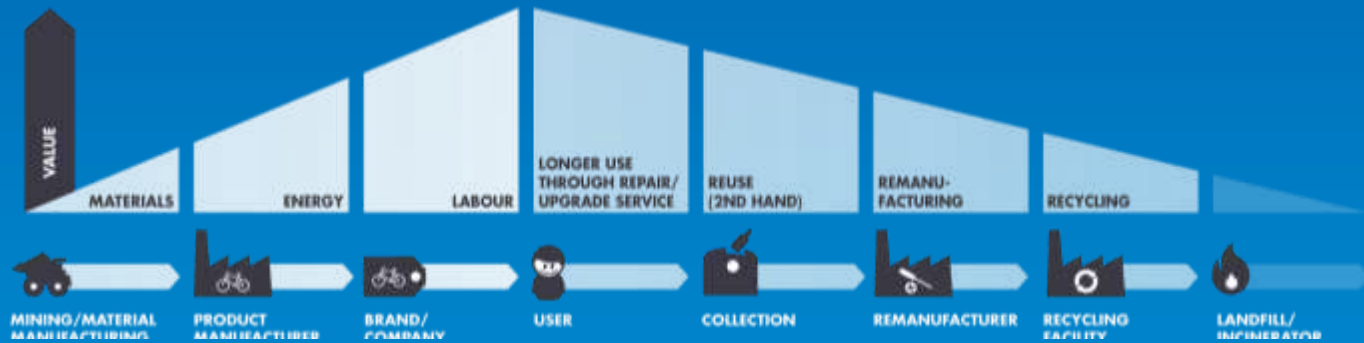


# THE DIRECTION IS SET





# PRESERVING VALUE



# CIRCULAR STRATEGIES



**“For the first time in history, more than half of the world’s people live in cities. That figure is set to increase to 70 percent by 2050”**

**- WORLD HEALTH  
ORGANISATION**

# CURRENT CITY PROJECTS



**GLASGOW**



**BRUSSELS**

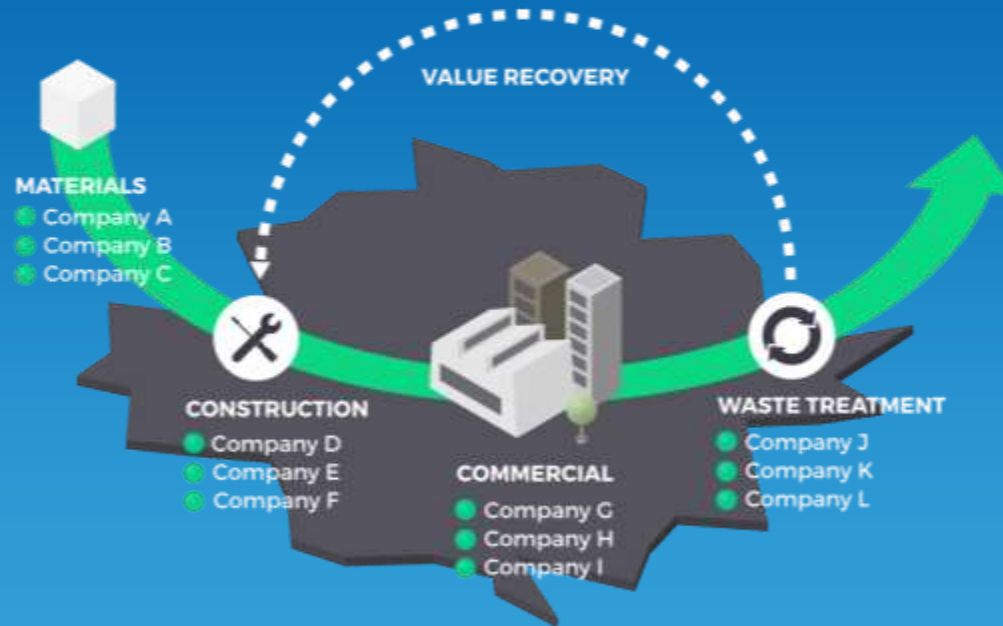


**AMSTERDAM**



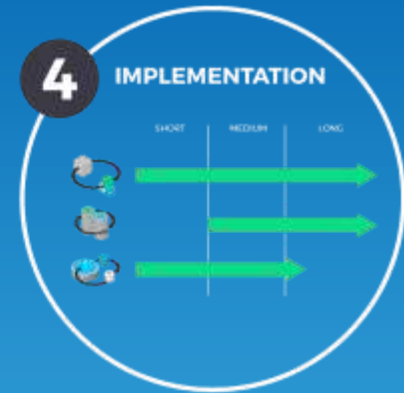
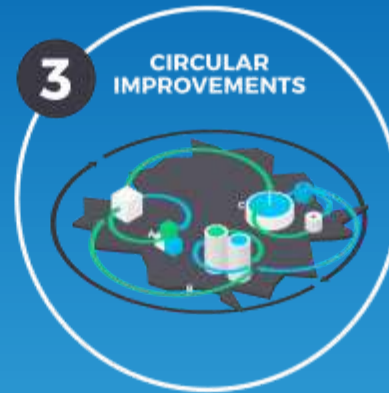
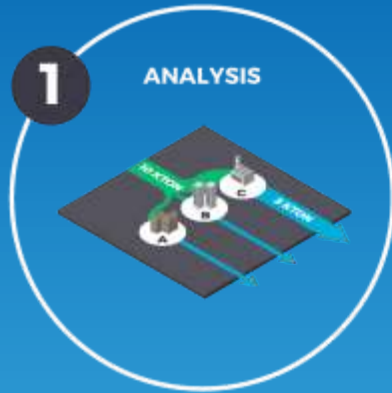
**MANY MORE TO COME**

# BUSINESSES WORKING TOGETHER IN A CIRCULAR CITY

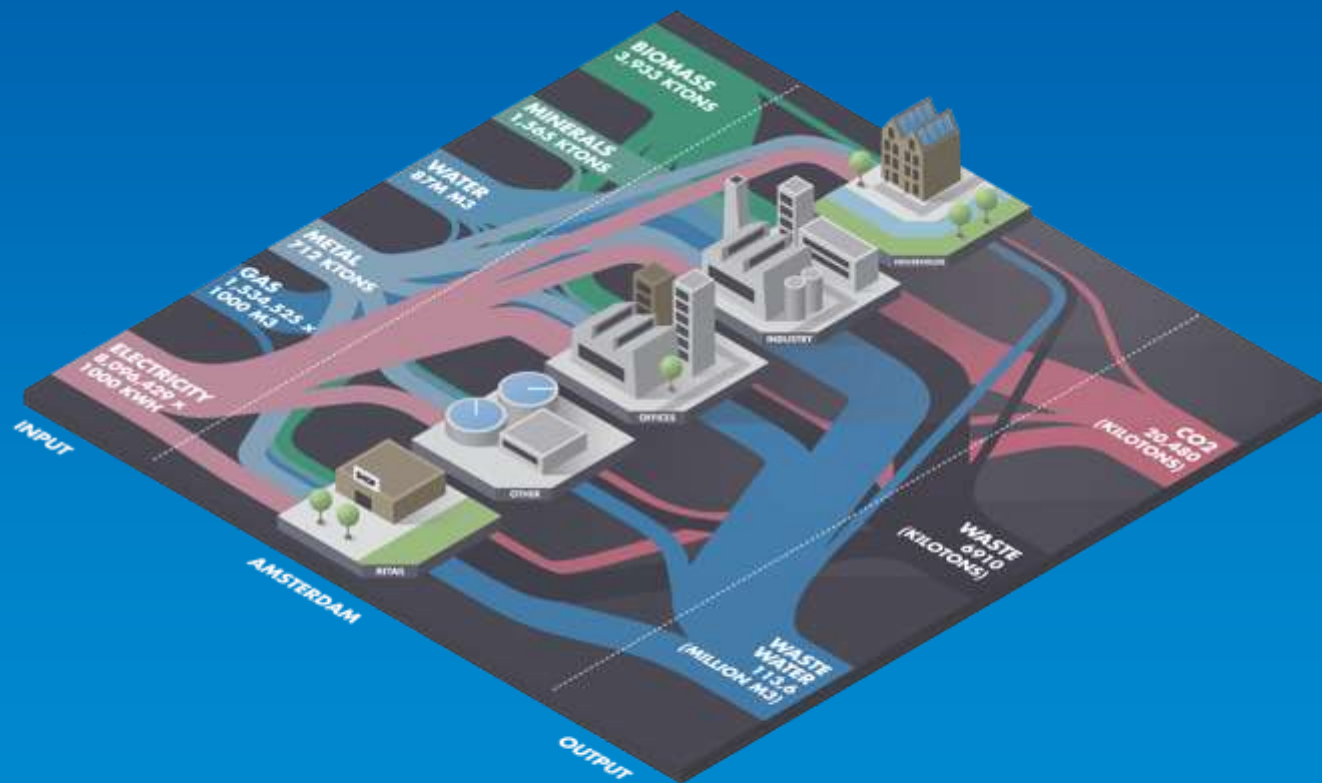


FROM SCAN...

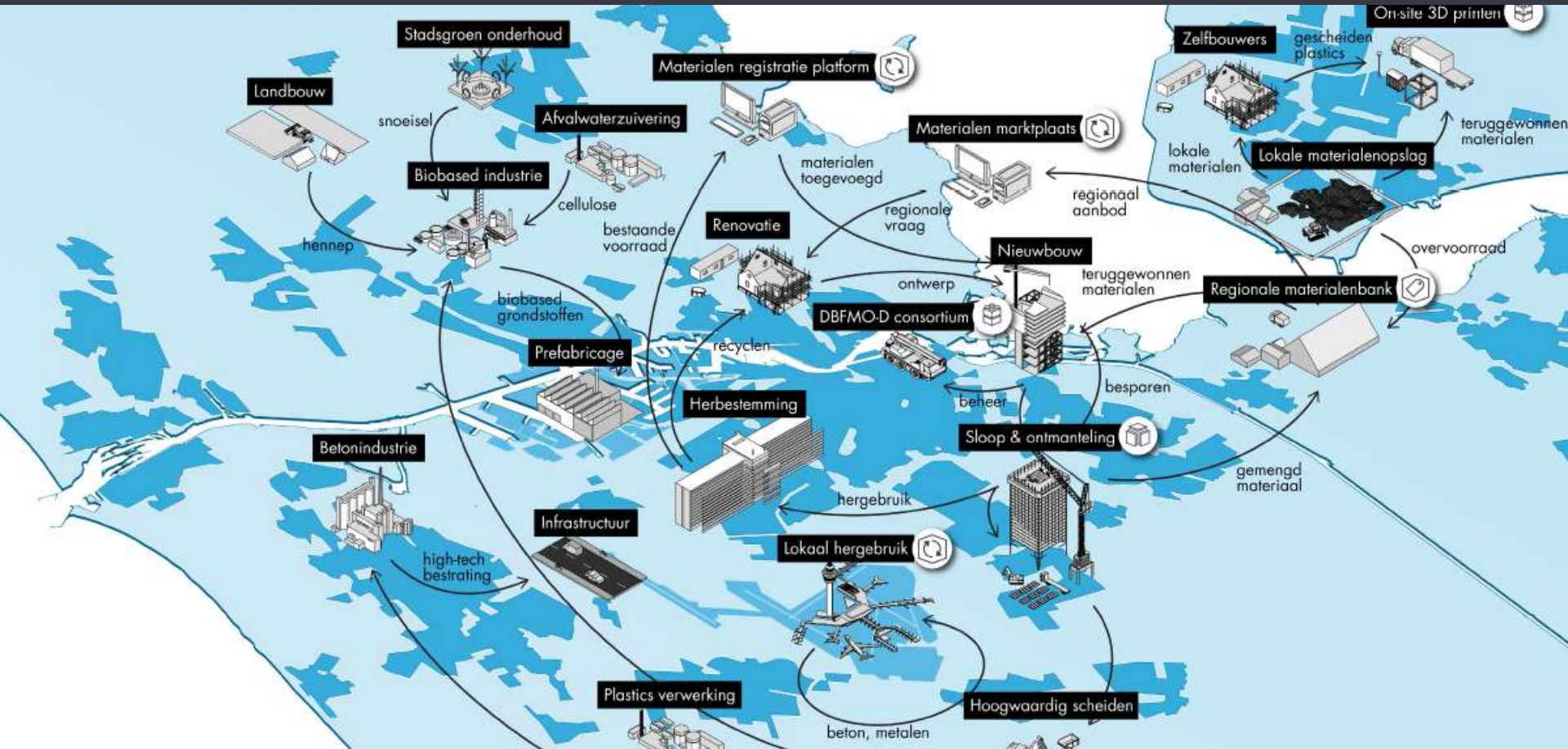
...TO ACTION



# METABOLISM MAP AMSTERDAM

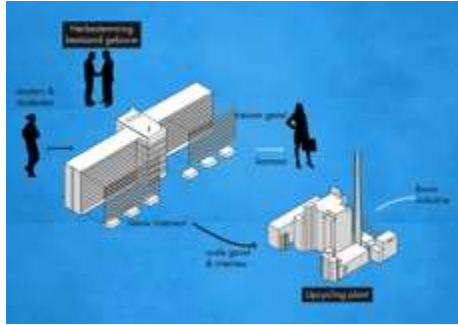


# FUTURE VISION OF THE CONSTRUCTION CHAIN

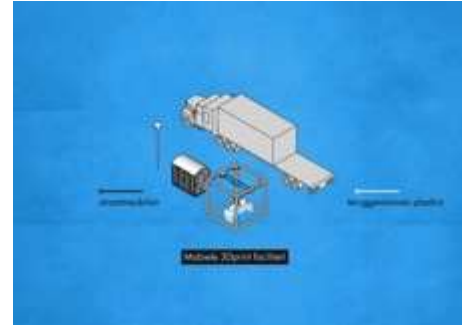




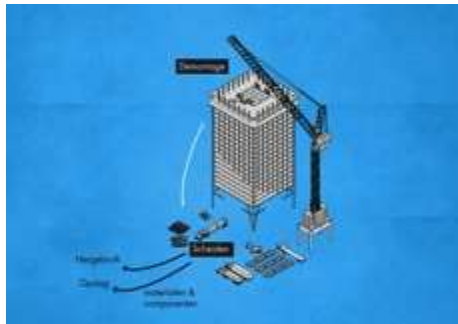
# STRATEGIES FOR CIRCULAR CONSTRUCTION



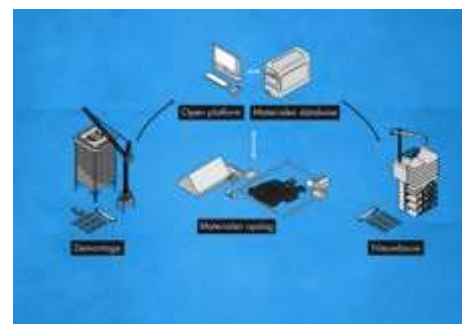
HIGH VALUE RECYCLING



SMART DESIGN



DISMANTLING & SEPERATION



MARKET PLACE & RESOURCE BANK

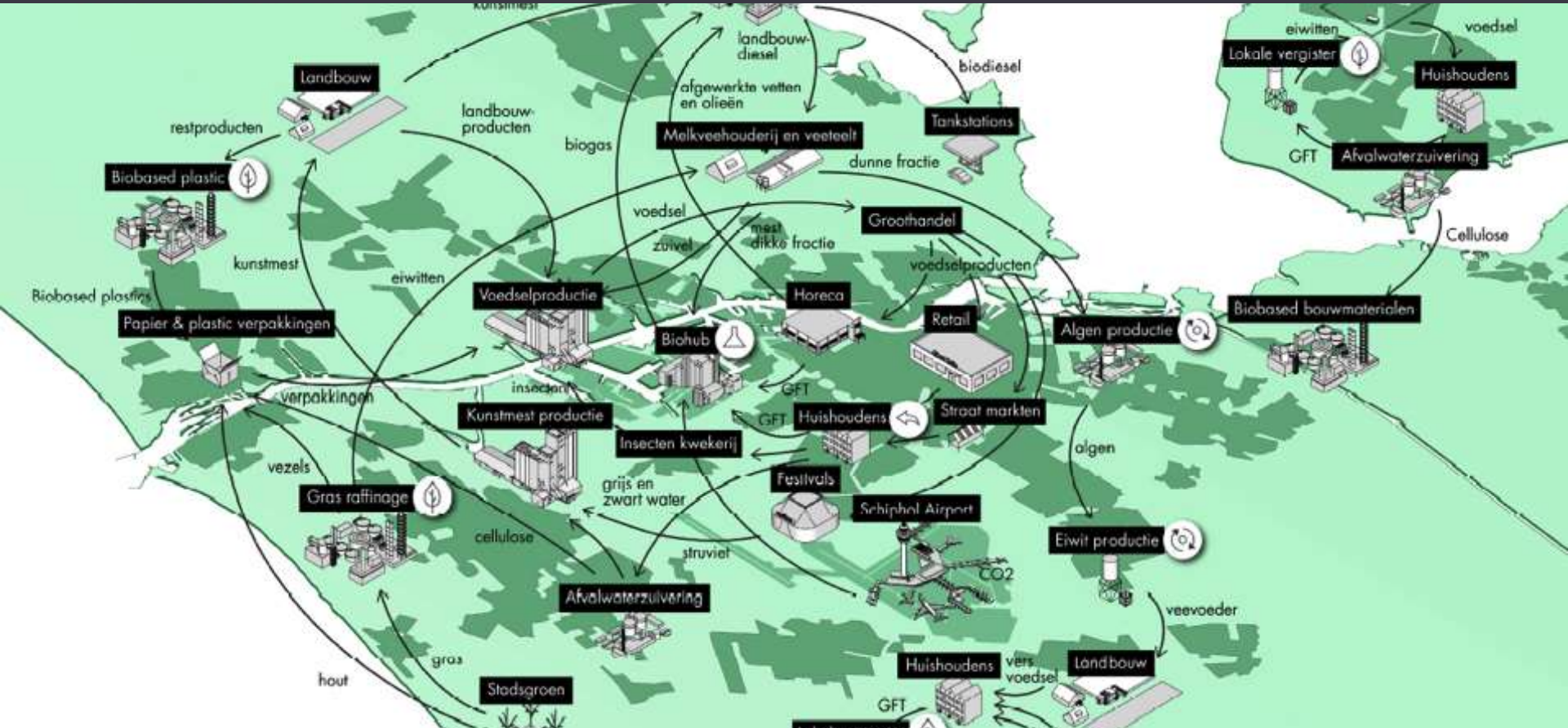
# EXAMPLE CONSTRUCTION STONECYCLING



**STONECYCLING USES  
DEMOLITION WASTE FOR  
THE PRODUCTION OF NEW  
BUILDING MATERIALS LIKE  
BRICKS**



# FUTURE VISION OF ORGANIC STREAMS

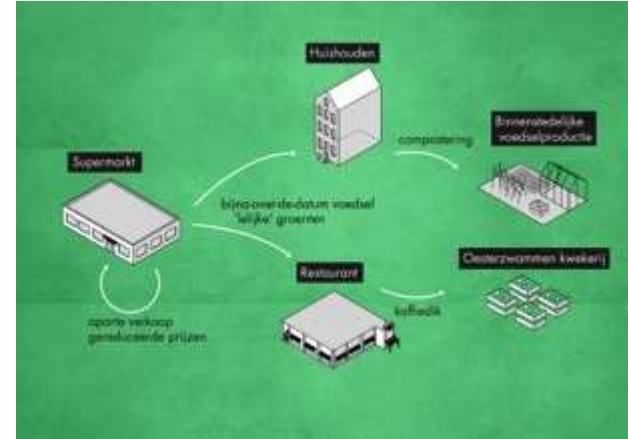
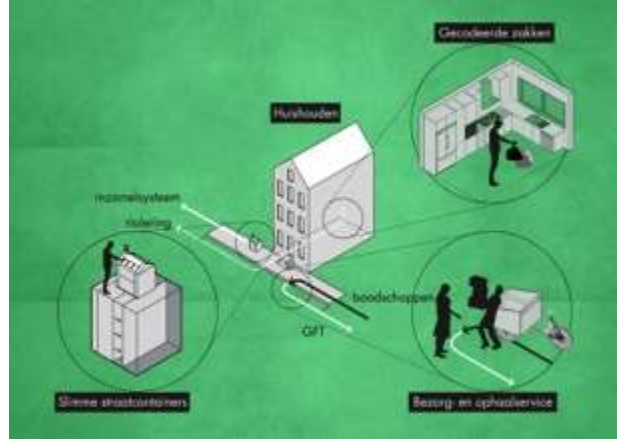
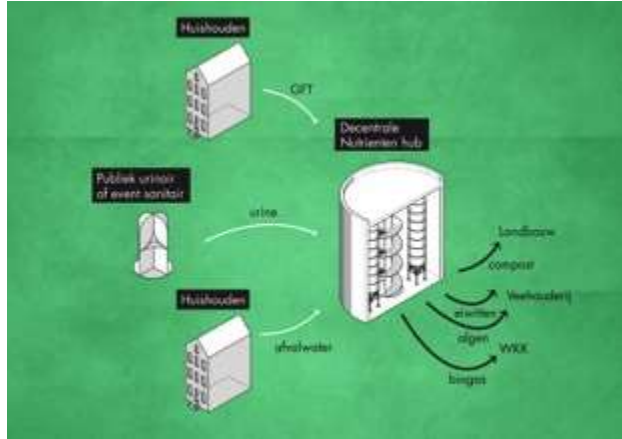


# STRATEGIEËN VOOR ORGANISCHE RESTSTROOMKETEN

## RECOVERING NUTRIENTS

## SEPERATION & RETOUR LOGISTICS

## CASCADING OF ORGANIC STREAMS



# EXAMPLE: EXTER

CREATE VALUE OUT OF ORGANIC  
WASTE STREAMS



# THE VALUE OF A CIRCULAR ECONOMY

**VALUE  
CREATION**



**JOBS**



**MATERIAL  
SAVINGS**



**REDUCE CO2  
EMISSIONS**



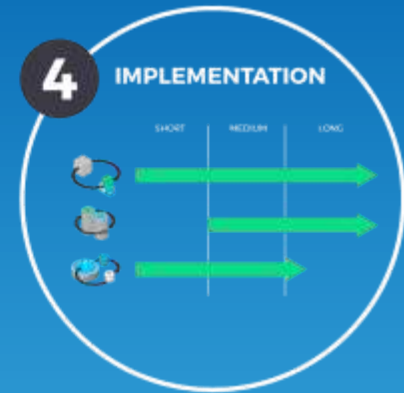
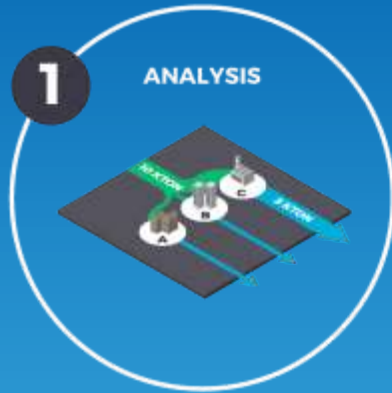
# TOOL: CITY DASHBOARD



MEASURING  
CIRCULARITY  
IN CITIES

FROM SCAN...

...TO ACTION





# PHASE 4: IMPLEMENTATION





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