



# *Roadmap Circular Urban Resource Efficiency plan for cities*

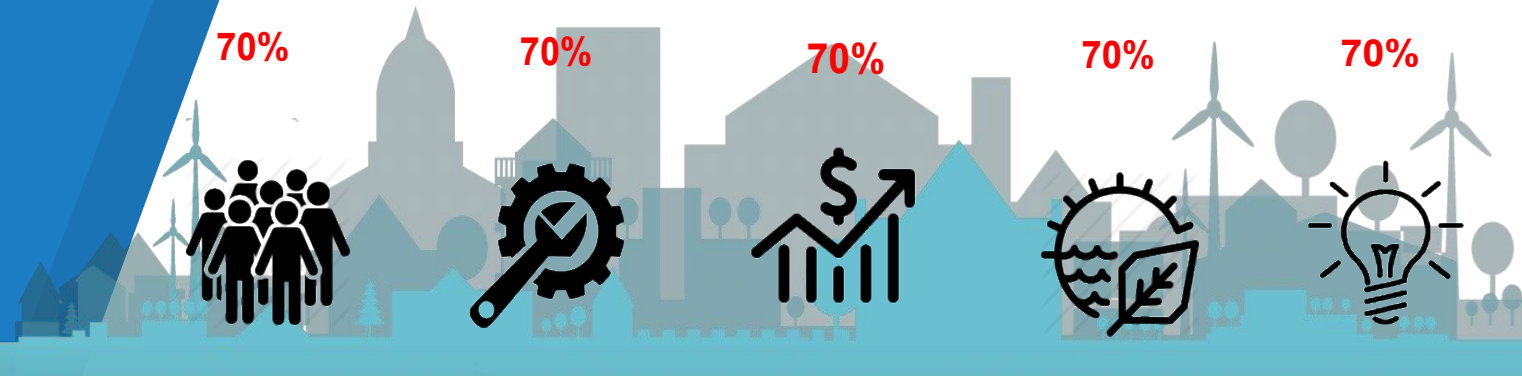
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# Roadmap urban **Circular Resource Efficiency Management plan**

- Why a roadmap
- Structure of the roadmap
- The Steps
- Usability

# Why a Roadmap

## Healthy Cities = Healthy Planet



**EU CITIZENS**  
living in cities

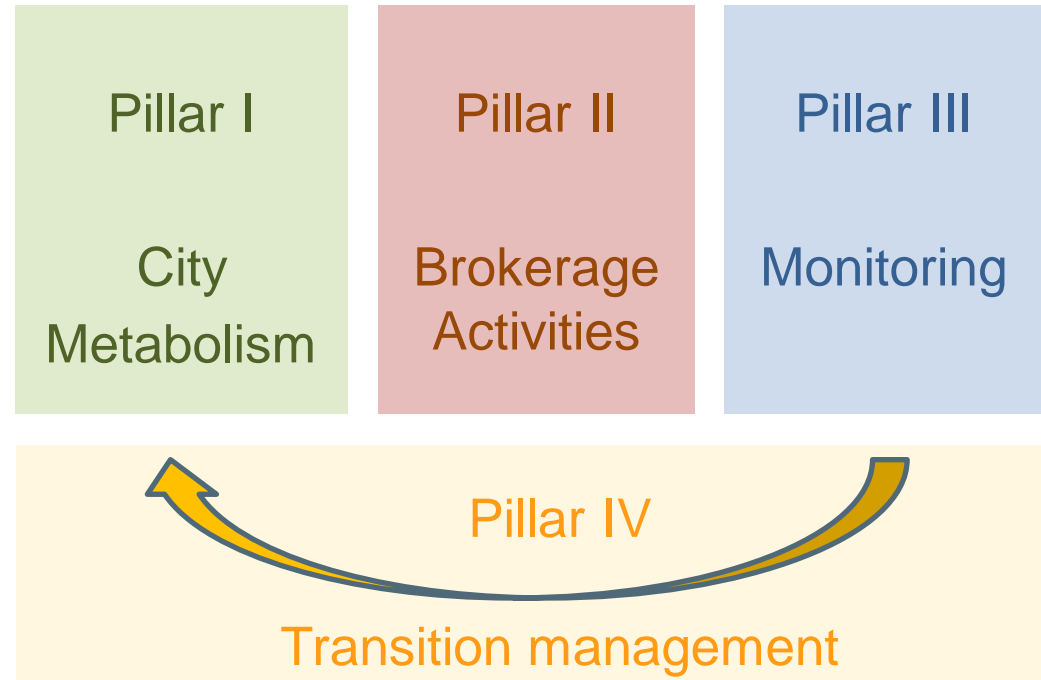
**JOBS**  
creates in cities

**EU GDP**  
created in cities

**RESOURCES**  
used in cities

**ENERGY**  
used in cities

# Structure



# Structure

## Pillars

Process steps

Considerations

Theoretical  
background

# pillar I: city metabolism

## Process steps:

1. ***Familiarize on work field***
2. Set up a project team
3. Define the core and scope
4. Political approval for the plan
5. Execute the project plan
6. Select priority flows
7. Draw up the inventory report

## Considerations

- 1.1. *definitions, scope*
- 1.2. *principles*
- 1.3. *existing policies, goals, targets  
indicators and responsibilities*
- 1.4. *internal knowledge, expertise*
  
- 2.1. *expertise, capacity (int/ext)*
- 2.2. *related domains*
- 2.3. *availability*

# pillar I city metabolism

## Process steps:

1. Familiarize on work field
2. Set up a project team
3. **Define the core and scope**
4. Political approval for the plan
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## Considerations

- 3.1 *Definition, principles and scope*
- 3.2 *City characteristics*
- 3.3 *Main aim of the project*
- 3.4 *Involvement of stakeholders.*
- 3.5 *Insight in the resource flows*
  - *kind of resource flows*
  - *geographical and time dimension*
  - *(local/global) environmental impact*
  - *economic/social impact*
- 3.6 *Inventory method*

# pillar I city metabolism

## Process steps:

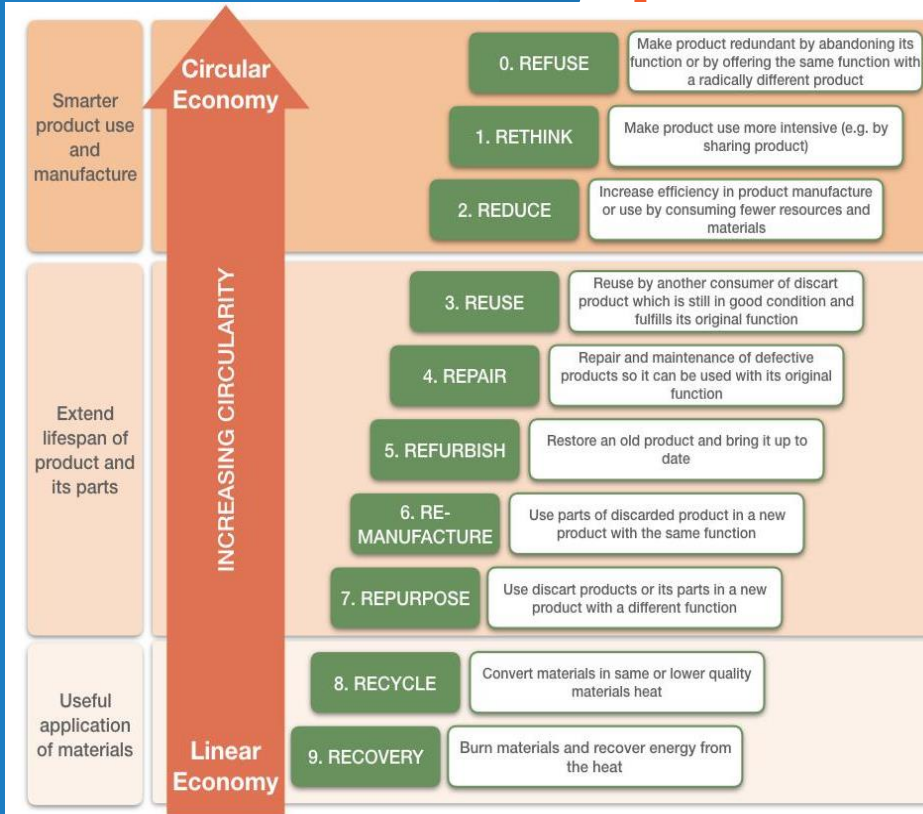
1. Familiarize on workfield
2. Set up a project team
3. Define the core and scope
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## Considerations

- 6.1. *mass of streams (quantity)*
- 6.2. *impact (CO<sub>2</sub>, air quality, waste, depletion, land-use, etc)*
- 6.3. *retention rate*
- 6.4. *circular potential*
- 6.5. *current / future economic value*
- 6.6. *current / future increase in jobs*
- 6.7. *existing circular activity*
- 6.8. *political ambitions and wishes*



# pillar II brokerage activities



## Considerations

- *determine stakeholders*
  - *intrinsically motivated*
  - *has acted / prepared to act*
  
- *priority flows/sector/chains*
- *multi R strategy*
- *brainstorm per priority flow*
- *result : promising activities*

# pillar II brokerage activities

## Process steps

8. Specify the strategies
- 9. *Select promising activities***
10. Develop SMART projects
11. Implementation program

## Considerations

- *impact:*
  - *quantitative (impact change)*
  - *or qualitative*
- *feasibility*
  - *challenges /drivers*
  - *tools ( direct / indirect )*
- *Implementation program of SMART projects*
- *Arrange approval*

# pillar III monitoring

## Process steps

### **12. Specify monitoring strategy**

13. Monitoring & Reporting

14. Evaluate & New Cycle

## Considerations

- *Policy indicators*
  - *set targets, policy execution, within time, within budget (KPI's)*
- *Project execution*
  - *SMART, Indicators*
- *Metabolism indicators (outcome)*
  - *% reduction, < kg/cap,*
  - *number of..(go to indicator action)*
  - *combined with multi R strategies*

# pillar III monitoring

## Process steps

12. *Specify monitoring strategy*

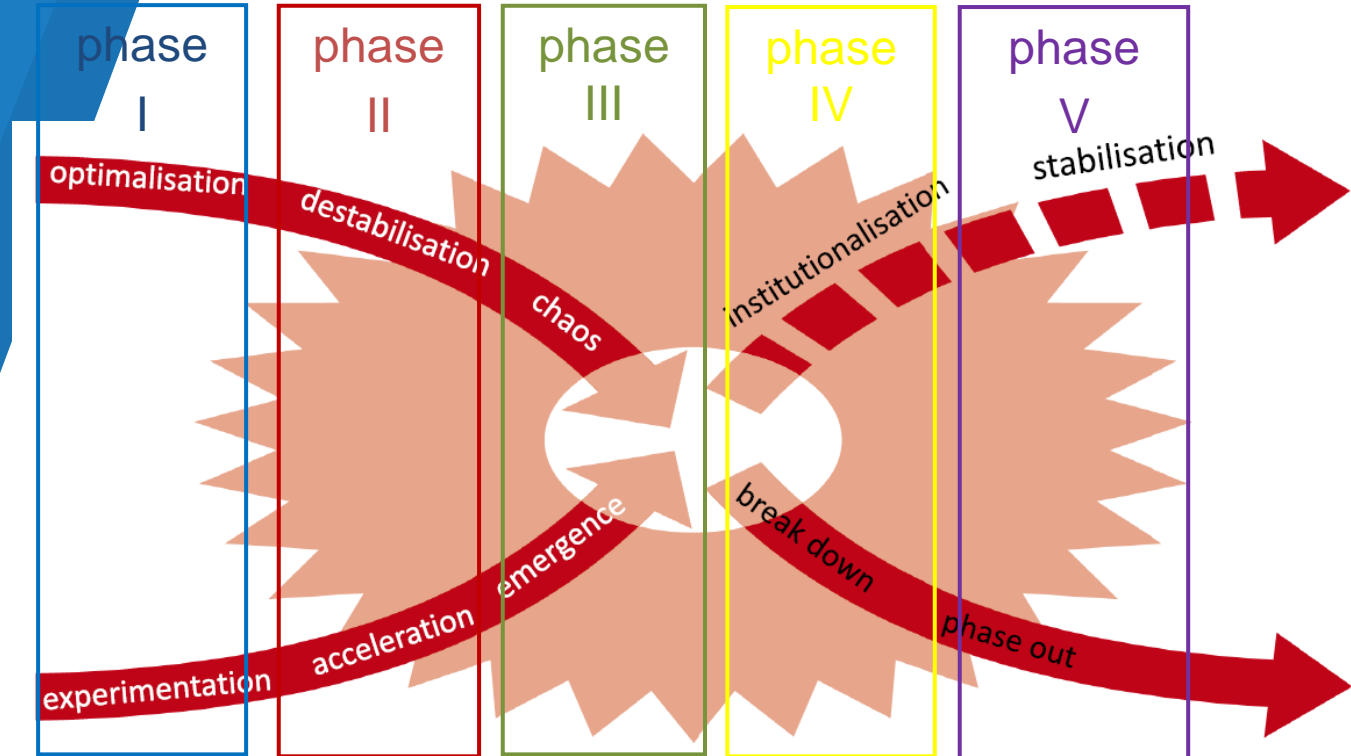
13. Monitoring & Reporting

**14. Evaluate & New Cycle**

## Considerations

- *What was the contribution of the plan to RE in the city*
- *Determine new projects*
- *New Transition Cycle*

# transition management



# Conclusions

- Practical instrument
- Adaptable to situation and wishes
- Usable for companies etc
- Usable per stream
- Testing with cities



***THANK YOU FOR YOUR ATTENTION***



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