

Roadmap Circular Urban Resource Efficiency plan for cities

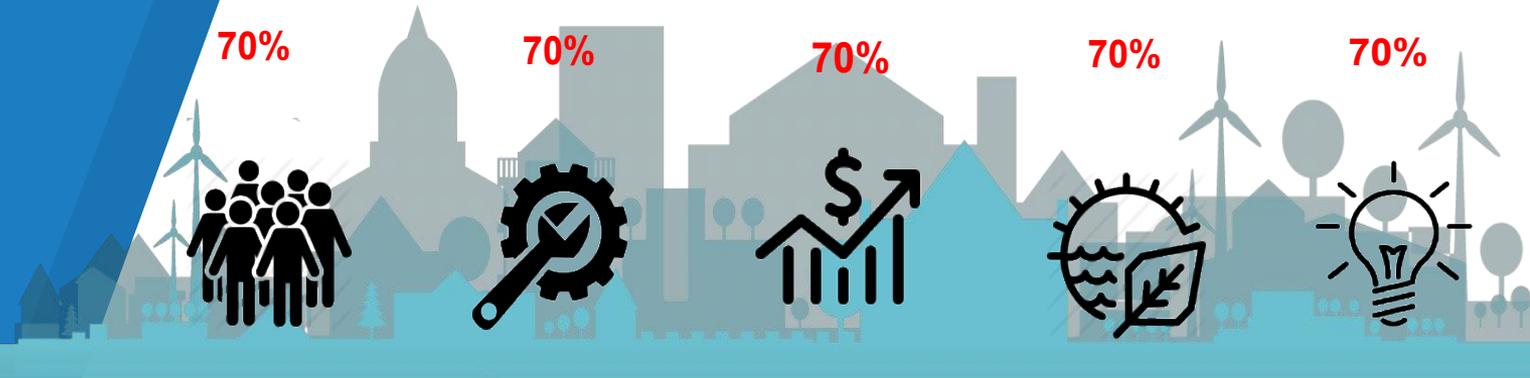
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Roadmap urban **Circular Resource Efficiency Management plan**

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

Why a Roadmap

Healthy Cities = Healthy Planet



EU CITIZENS
living in cities

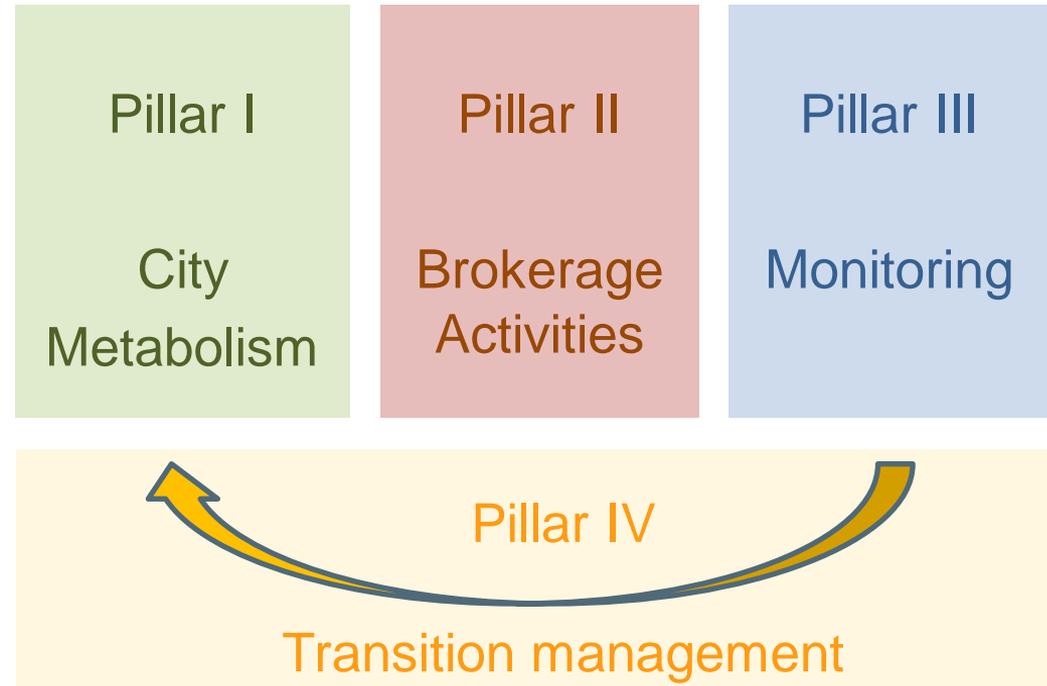
JOBS
creates in cities

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

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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

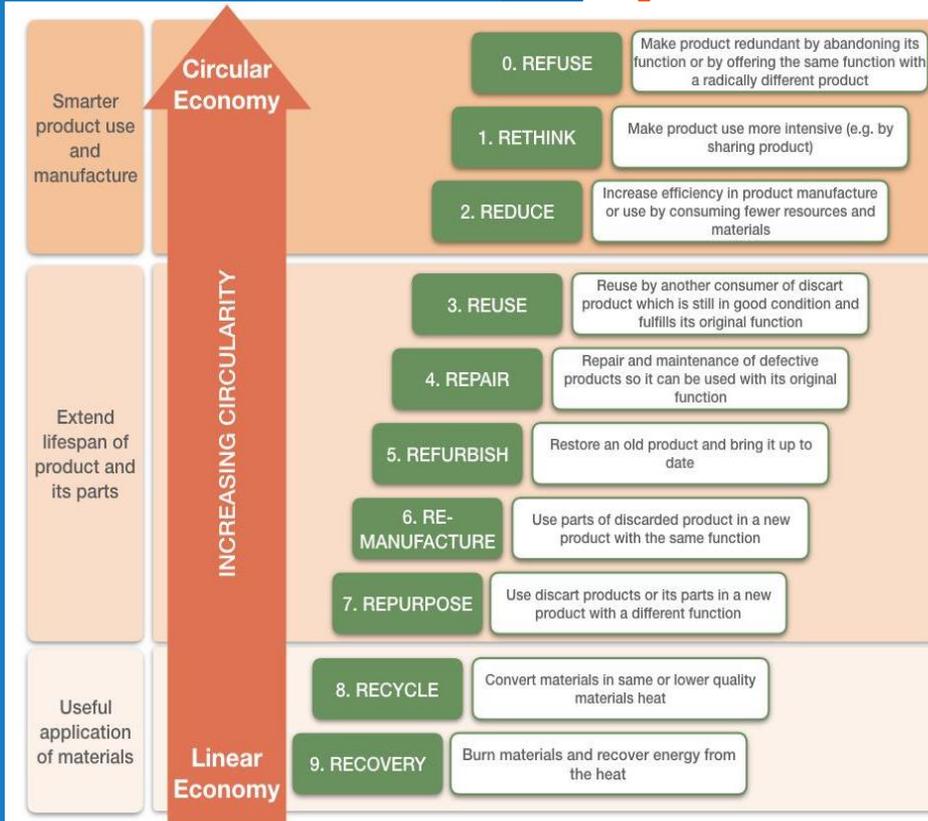
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Considerations

- 6.1. *mass of streams (quantity)*
- 6.2. *impact (CO₂, 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

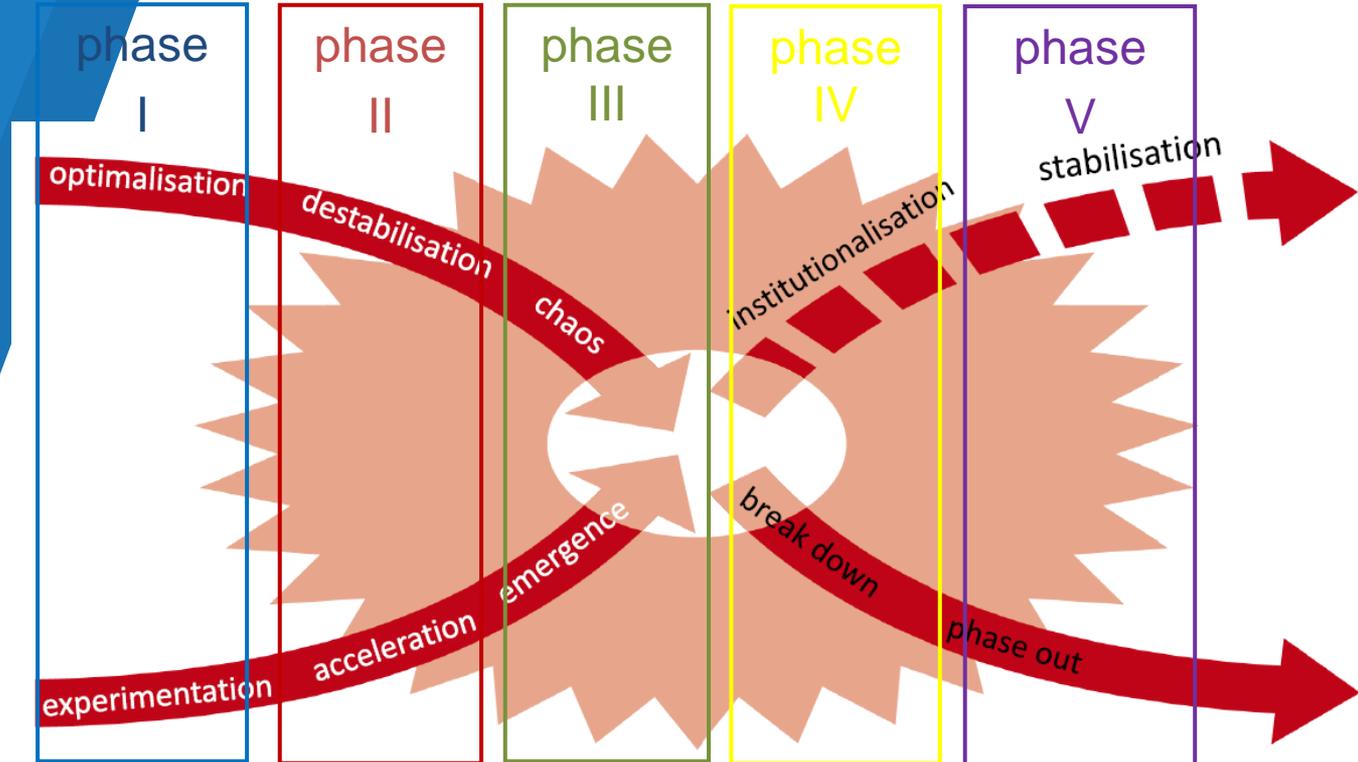
Process steps

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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