



LIFE

Institute for Climate, Energy Systems and Society

JOANNEUM
RESEARCH
LIFE



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LIFE - Institute for Climate, Energy Systems & Society

An institute visible throughout Europe through scientific excellence with a clear social mission:

- to strengthen resilience of society and economy to climate and weather risks
- to promote the transition to a low-carbon economy/society by 2050

by pooling scientific excellence in technical, social and economic disciplines.



LIFE Research Areas



Weather Risk Analysis and Management



Climate Change and Tourism



Future agricultural Production Systems



Climate Change Impacts and Climate Economics



Climate-neutral Production and Life Cycle Analyses



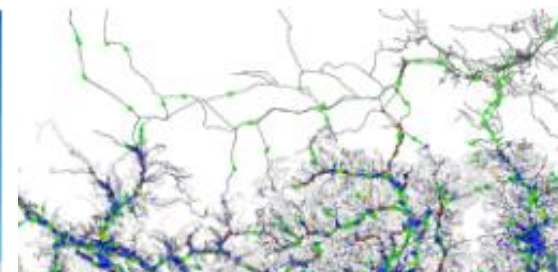
Lifestyles in Climate Change and Society



Renewable Energies and Innovative Business Models



Social Transformation Towards a Climate-neutral Society



Agent-based Traffic Modelling and Sustainable Mobility



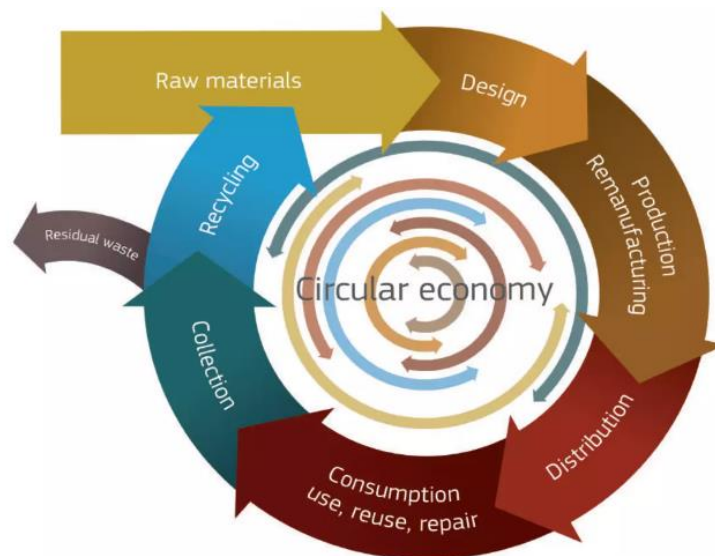
Urban LIFE & Urban Transformation

Climate-neutral production and circular economy



LIFE supports R&D projects and companies in their transformation towards climate neutrality and circular economy:

- science-based life-cycle assessments and climate footprints
- Evaluation of roadmaps and strategies, compliance to European policies and international standards
- „best technology choice“: assess the potential and the impacts of technologies in an early development stage
- life-cycle-based evaluation of circularity
- Development of CE indicators to support circular strategies
- Development of LCA methodologies
- *Focus on: mobility, manufacturing industry, electronics*



5 *The role of manufacturing for a more sustainable world*

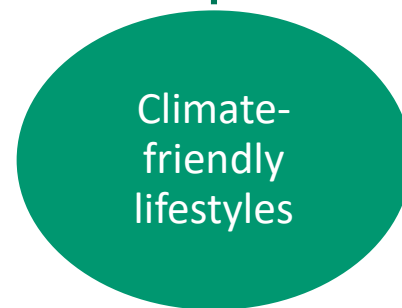
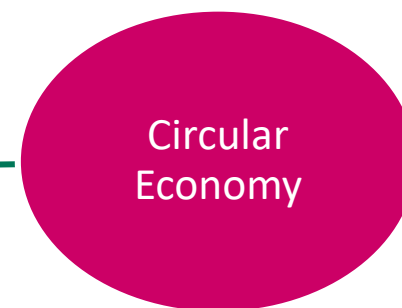
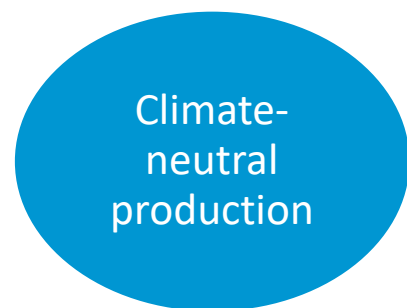
- 40 % of GHG emissions are related to materials and manufacturing
- Automation and advanced manufacturing have a huge potential for Climate-neutral production and circular economy



LIFE helps you understand the impact of your technologies

LIFE -Future Energy Systems, Production and Lifestyle

How effective are the paths to climate-neutrality of industries and firms?
Which role do technologies and ecosystems play in this transformation?



What are the connections between technologies, society, personal values and behaviours?

How effective are circular strategies to achieve sustainability?

How are products really used by consumers?
What are the social and environmental consequences of the use phase?

Thank you!

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