

DoTank Circular City Wien 2020-2030

Smart City Live 2020
Brokerage Event Barcelona

Klaus Kodydek

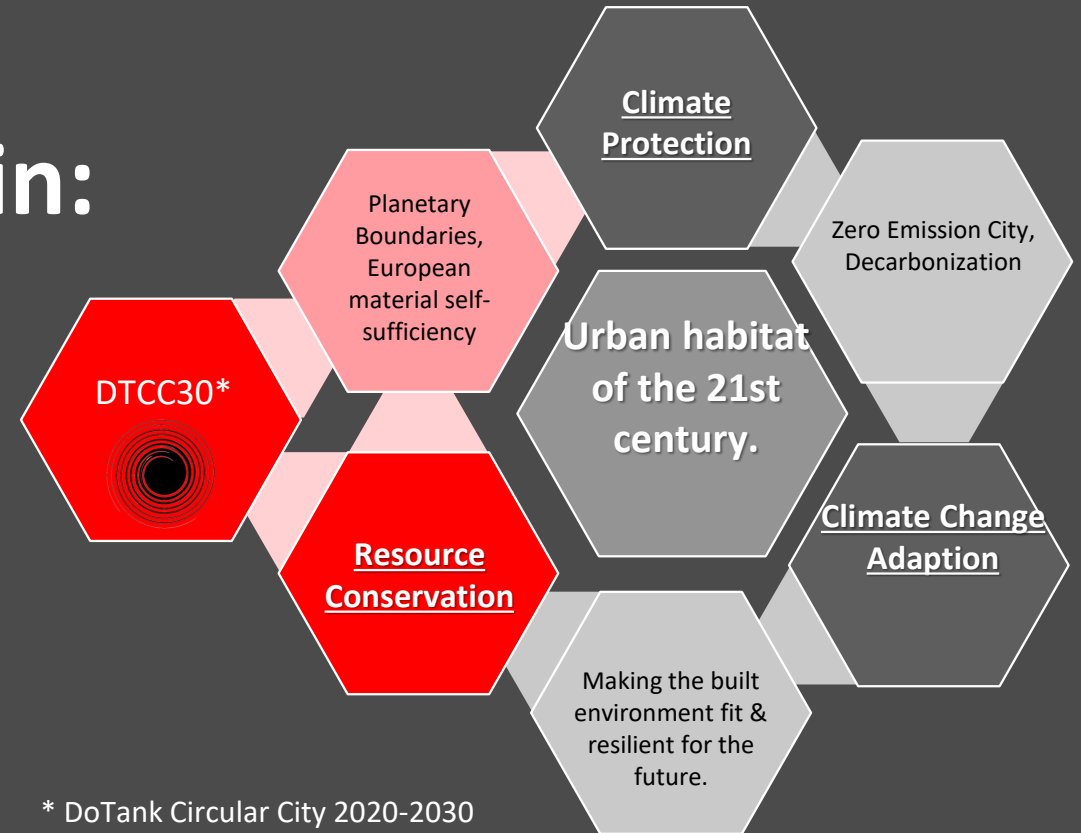
as a representative of Dr. Anna-Vera Deinhammer
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Program Lead DoTank Circular City 2020-2030



Interplay of

climate protection, adaptation to climate change
- resource conservation for a

Vienna worth living in:



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Equal goals

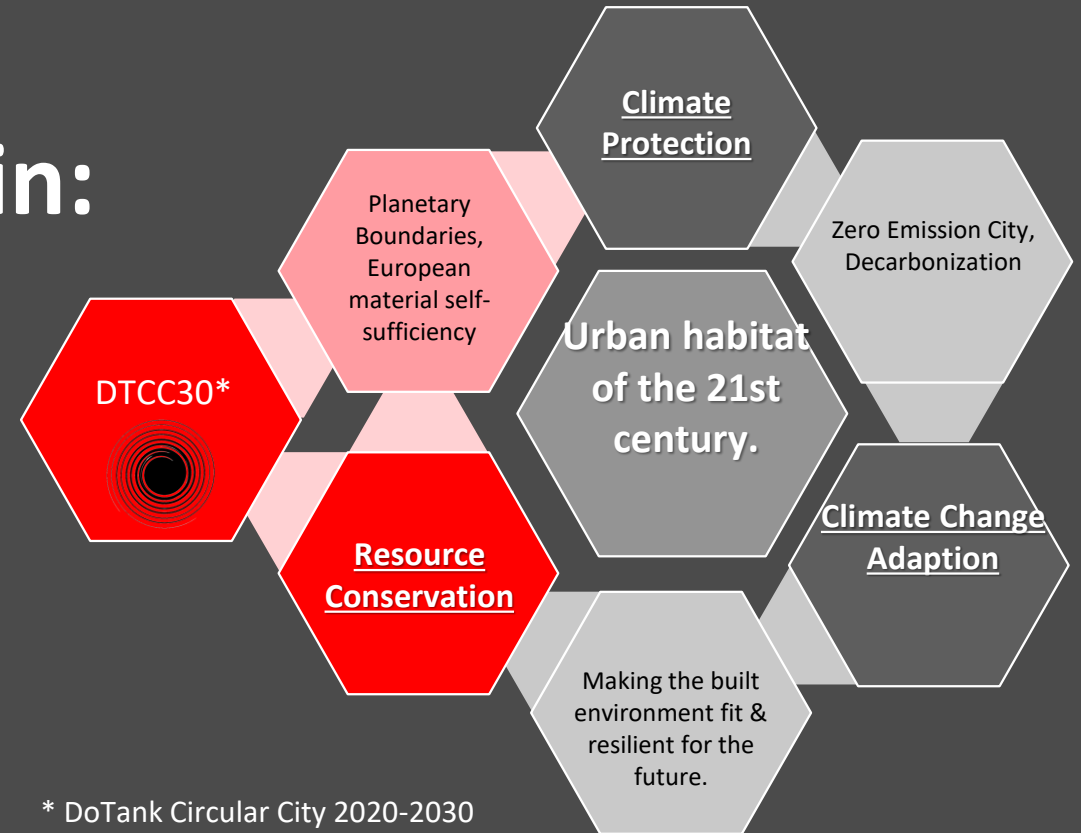
- Necessary implementation of greenhouse gas reductions
- Adapting our living space, ensuring future fitness
- Reduction of raw material consumption

Interplay of

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As well as the necessary implementation of greenhouse gas reductions, lowering the consumption of raw materials is another equally important goal of the policy in order to protect our natural resources and act within planetary boundaries.

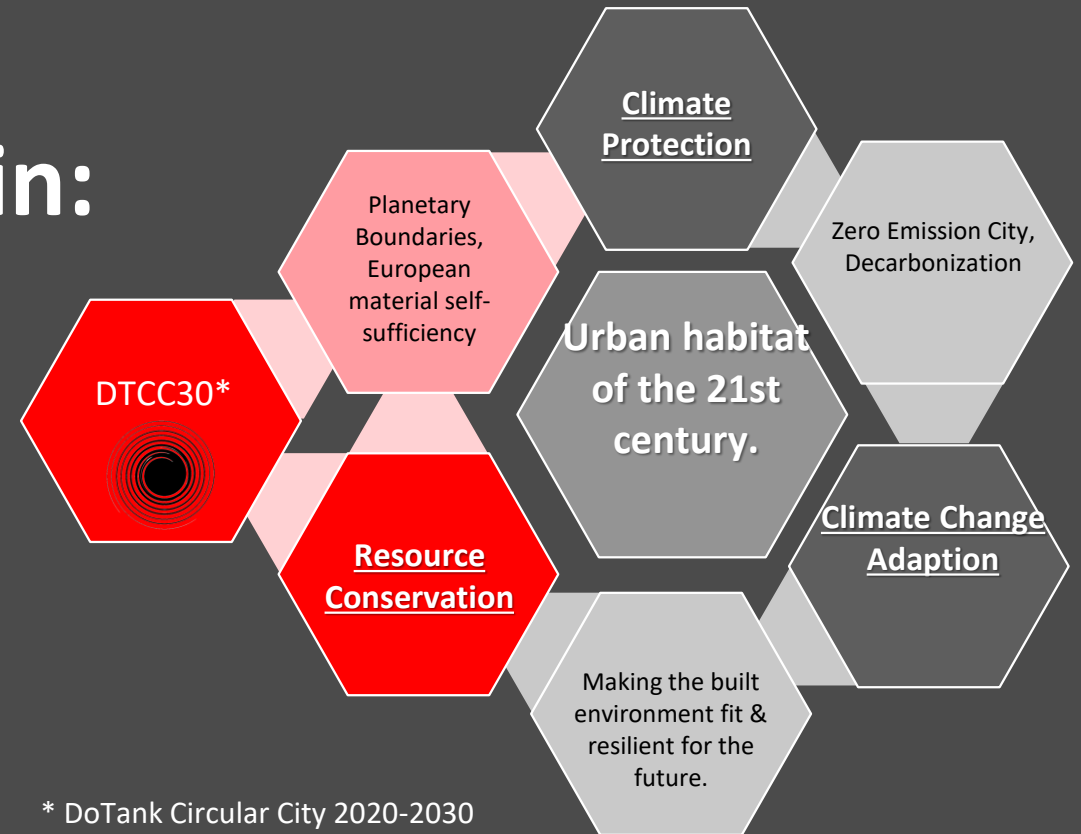


Interplay of

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This means resource conservation is an additional, independent goal and recognizes the very real nature of our planetary boundaries. Of course, GHG saving is a very positive side effect, but it is not the basis for resource-saving activities.



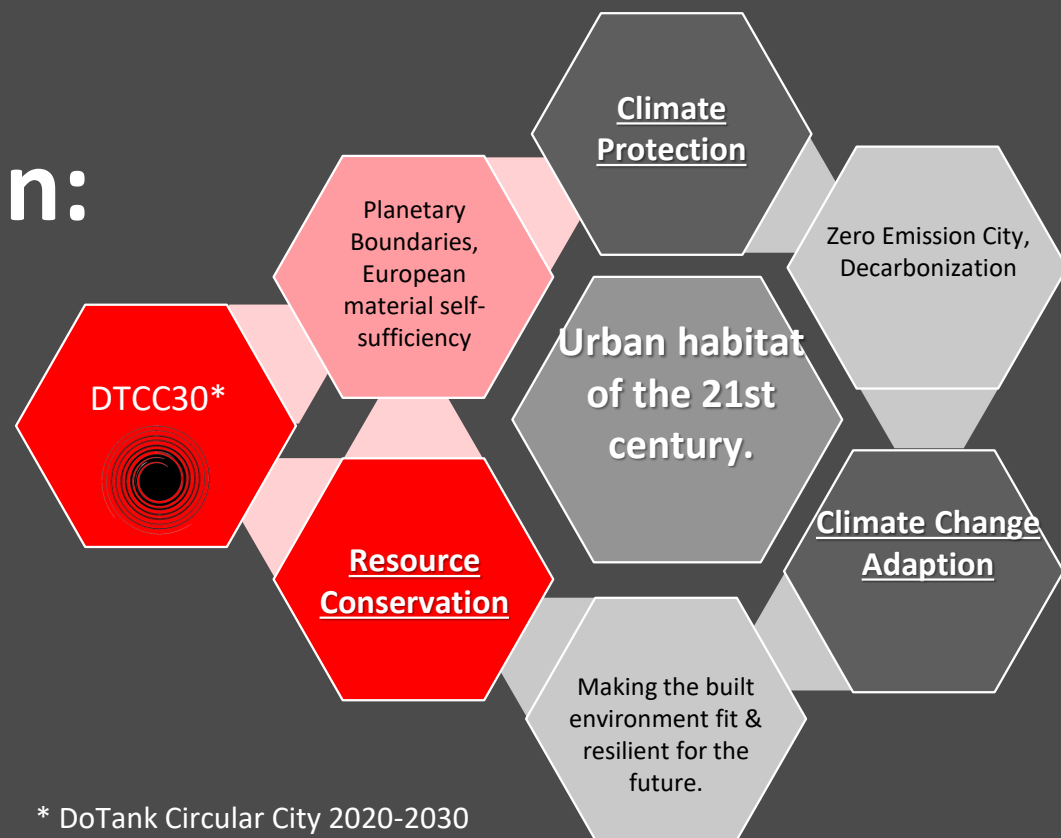
Interplay of

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Global warming is a consequence of a **lack of climate protection**, or it has been realized too late. Currently we as individuals are beginning to feel the effects of climate change. By walking through the world with open eyes, we can independently discover the effects that science has been warning about for many years.

There is no doubt that **decarbonisation** – i.e. the reduction of GHG emissions to zero – must be the overriding goal if we want to preserve our habitat.



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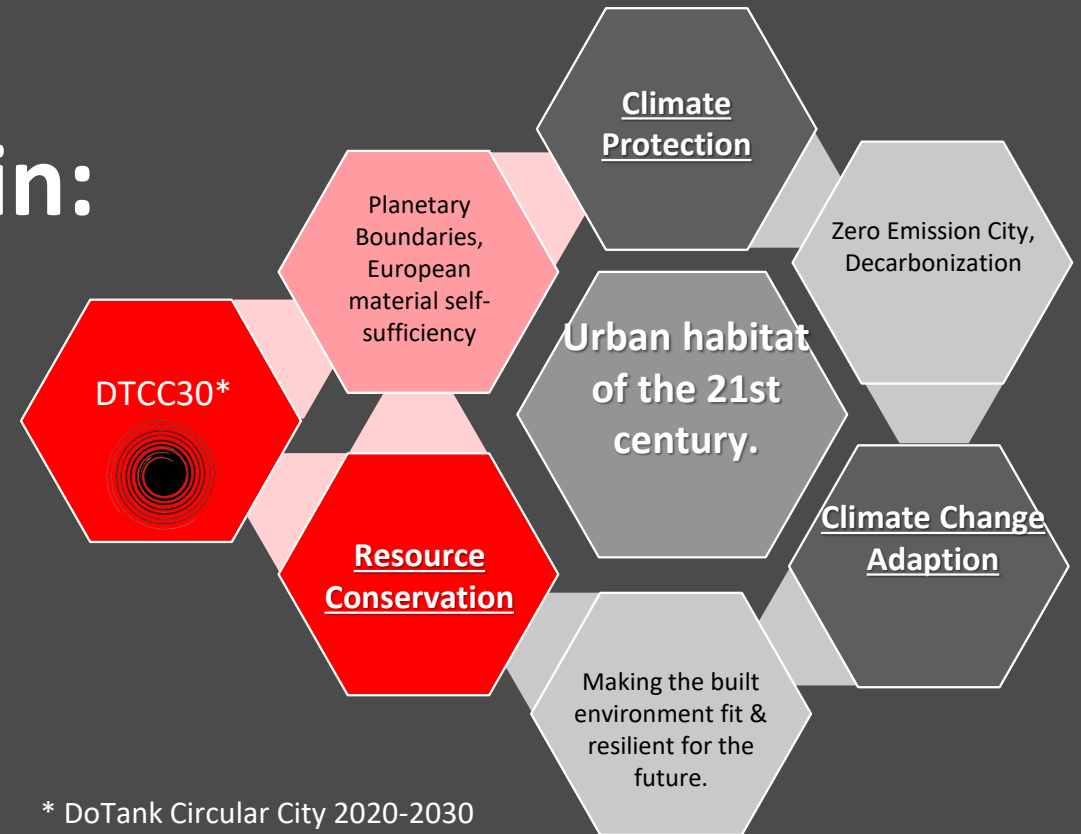
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At the same time,
we have to adapt to the changes that are still to come.
This means designing our habitat to be as resilient as possible to
be prepared for future climatic events
- e.g. heavy rainfall, longer periods of heat, urban heat islands,
etc.

This is precisely where **adaptation to climate change** comes in,
the area that was first identified in the Brundtland Report as a
topic of intergenerational justice.



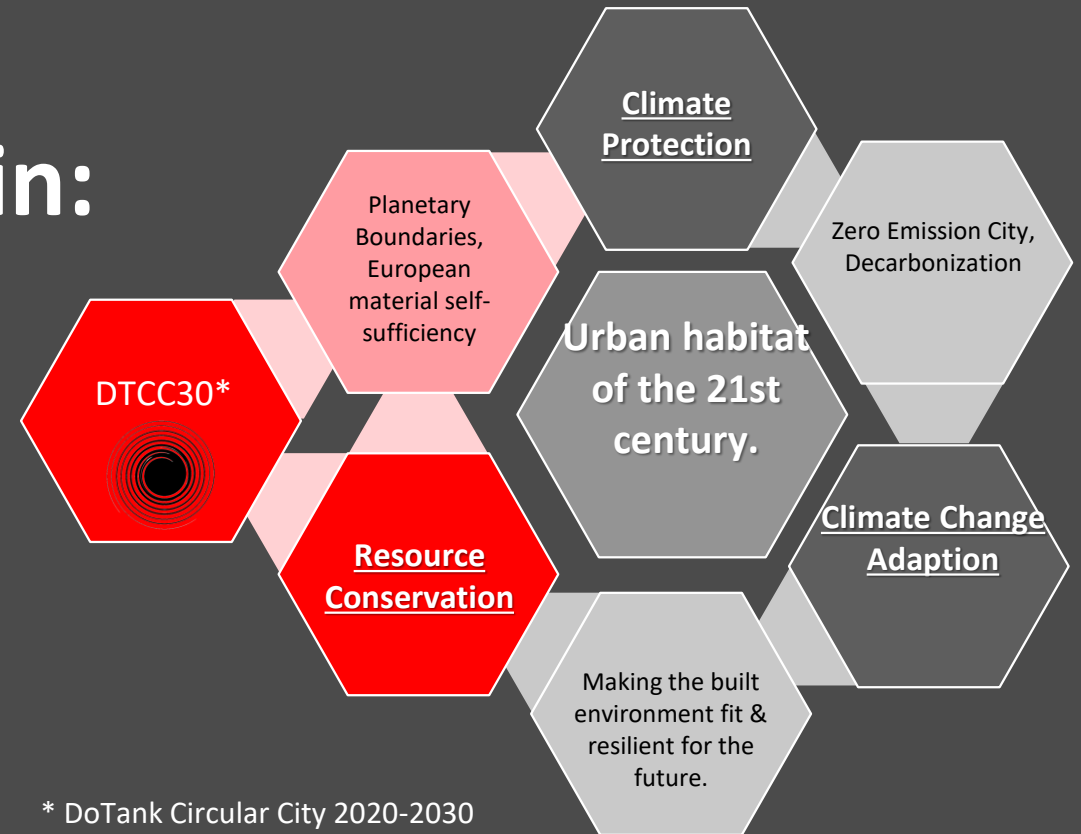
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Vienna worth living in:

Conservation of resources, Circular City's area of operation, has been developed from a different insight. Indeed, the industrialised countries have achieved their prosperity partly due to the global exploitation of natural resources. Pleasingly, the standard of living is improving globally, which leads to increasing consumption of resources which the earth can no longer cover from primary resources alone.

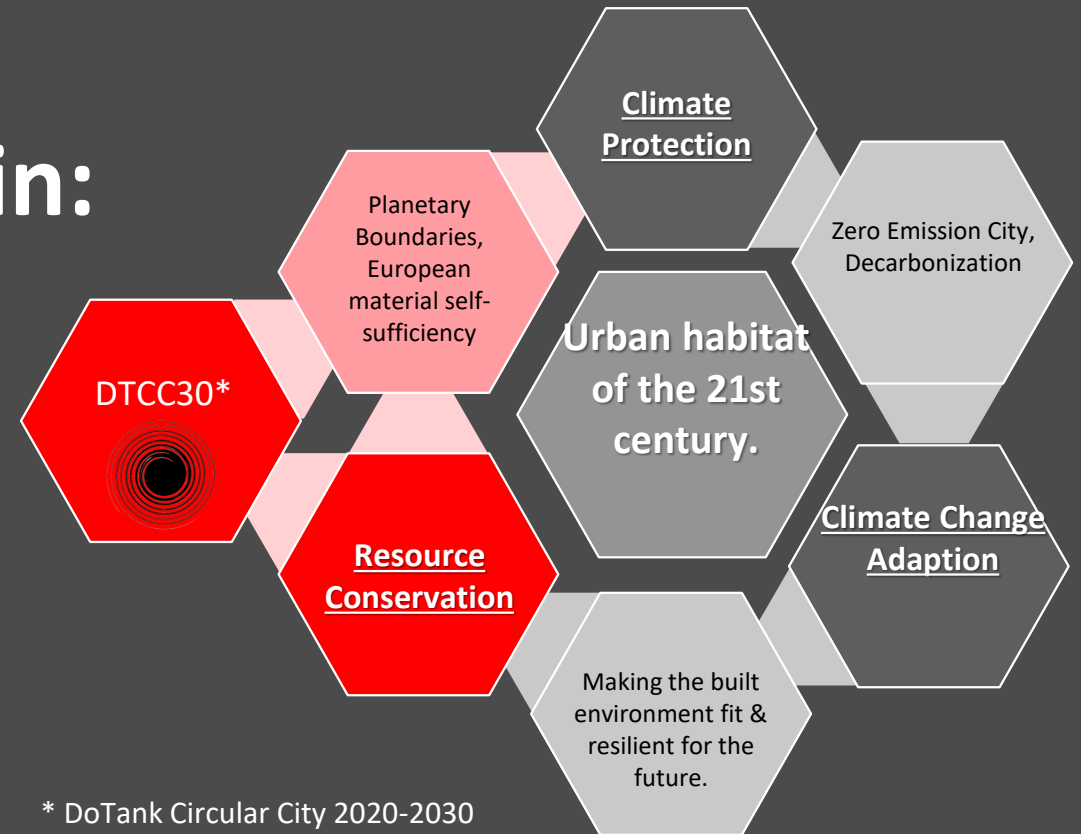


Interplay of

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Therefore, especially industrialized countries need to drastically reduce their **material footprint** and at the same time keep the resources already used regionally in circulation. Instead of constantly consuming new primary resources.



Resource conservation

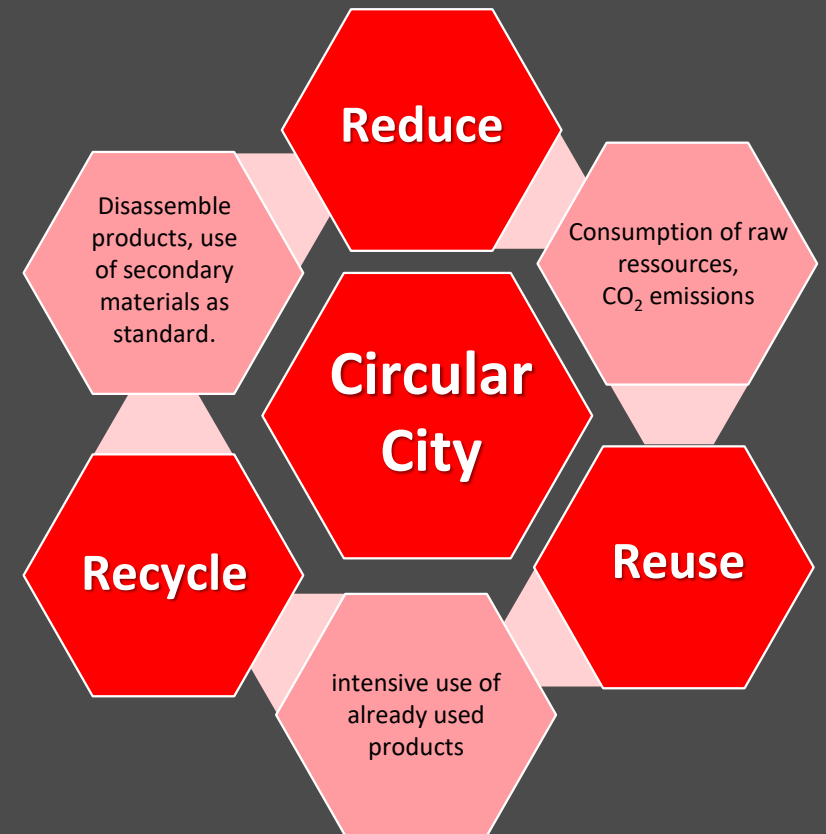
by means of circular economy concepts towards a

Circular City Wien

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Domains

- Socio-economy - inclusive and resource-saving development
- design & planning - integral planning process
- Engineering - circular construction



From **vision** to **Implementation.**

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Step 1: Collaboration

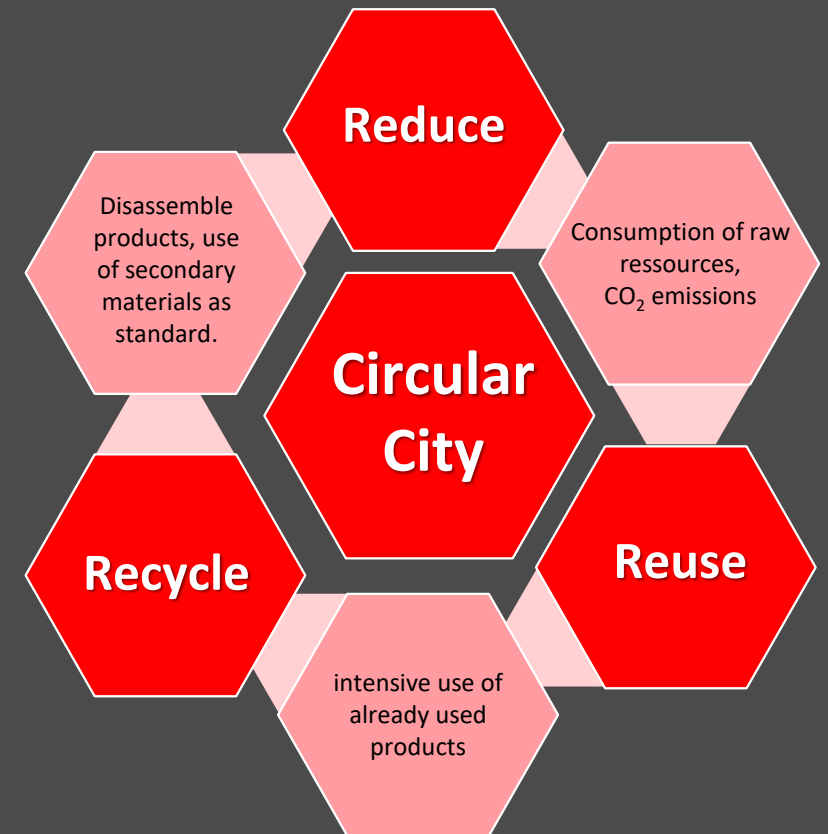
Bundling the construction industry, distributing responsibilities, integration of companies

Step 2: Innovation

interdisciplinary construction process management, value-added cooperation, new business models

Step 3: Initiate / Scale

Exemplary projects, deriving regulations, combining integral / circular urban development and construction projects



A Circular City

fosters the emergence of

Resilience:

- Reduced reliance on raw materials
- Balancing local production with global supply chains

Prosperity:

- Reduced congestion through better logistics and mobility
- Eliminating waste by using it a resource
- Reducing lifecycle costs by following an integral programming and planning approach
- Decoupling value creation from the use of finite resources – new skills, new jobs, new growth (e.g. Social Urban Mining)

Liveability:

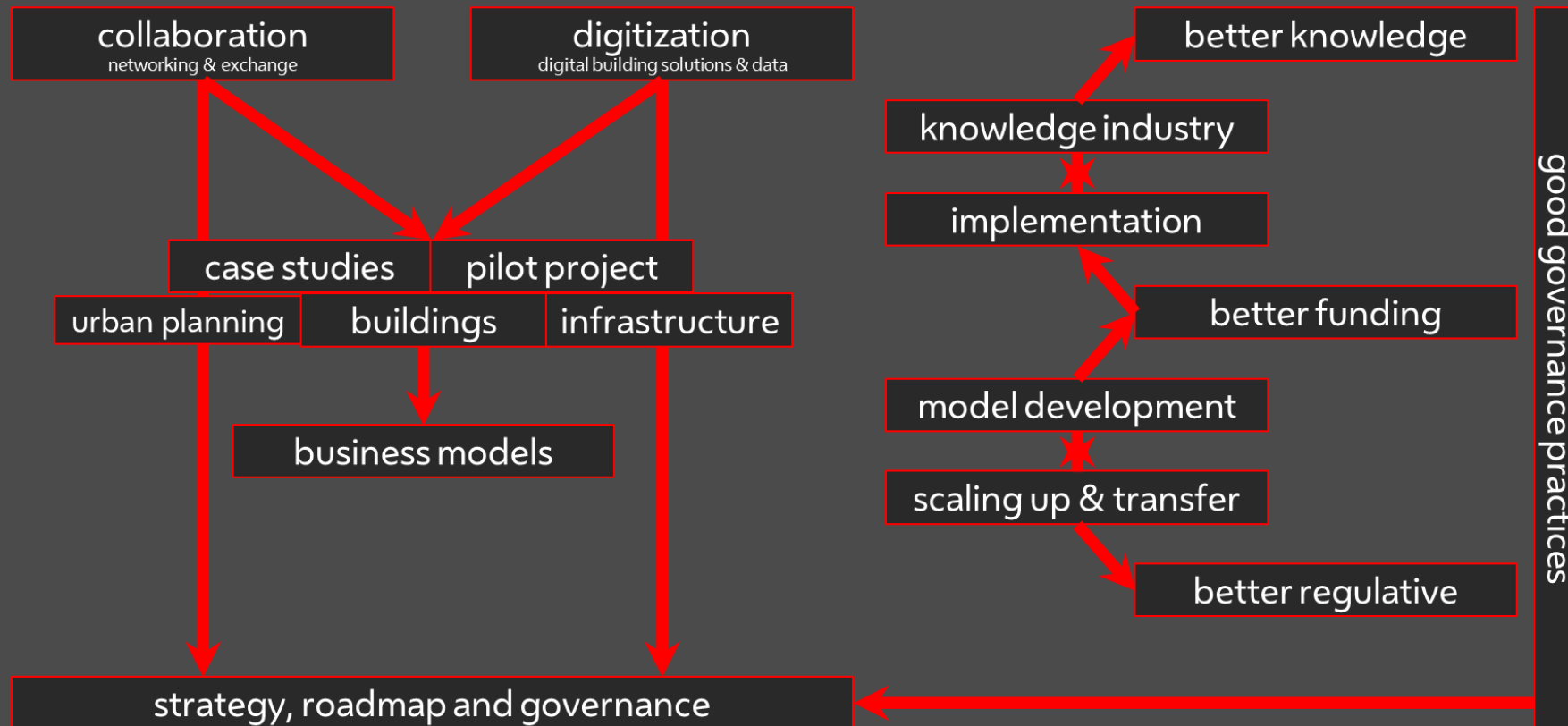
- Enhanced social interactions
- Improved air quality
- Reduced pollution



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Program structure

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Conclusio

“We finally realize that we have to get along with finite resources for an infinite time.”

Jarolim, Bernhard, et.al.: Wien, 2020

Sustainable building at all levels
economic, ecological, sociocultural

Paradox of the Red Queen – Alice in Wonderland
"In this country you have to run as fast as you can if you want to stay in the same spot."

