

DEVELOPING A CIRCULAR DISTRICT

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CASE HIEDANRANTA CITY OF TAMPERE, FINLAND

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What makes a district circular?

How does it differ from a smart ecological energy efficient?

What makes a **unique** circular district?





Finland

average temperature 4-6 C°
forest 200 000 km²
water over 33 000km²

Tampere

population
220 000

HIEDANRANTA



- Internationally renown neighbourhood
- Future fit, **'easy choice'** solutions
- Attracts investors and businesses
- First choice for living
- Crown jewelry of Tampere

20 000 - 25 000 residents
12 000 jobs

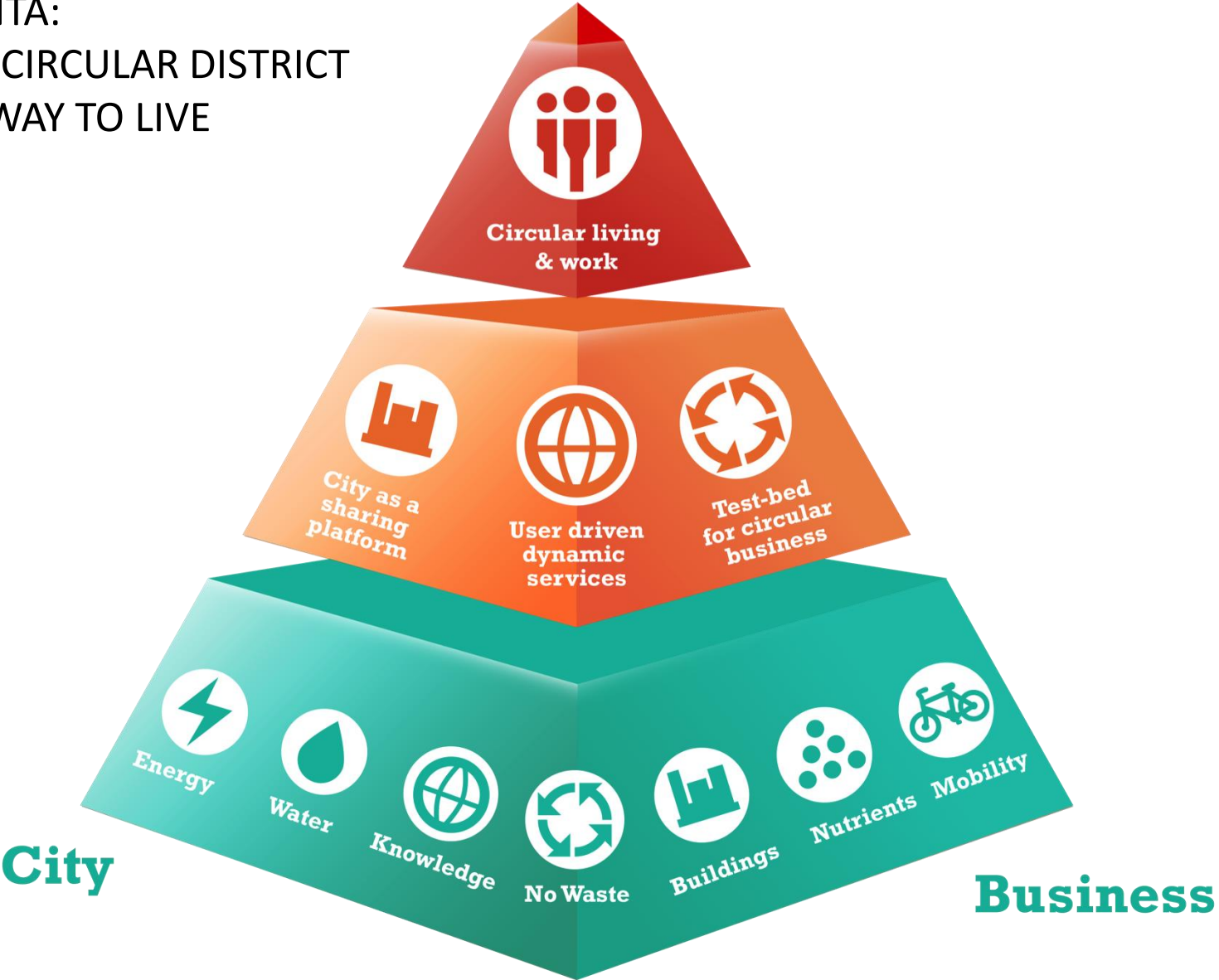
SIMPLICITY

LOCAL CONDITIONS

SUPER POWER



HIEDANRANTA:
SHARING & CIRCULAR DISTRICT
- A SMART WAY TO LIVE



City

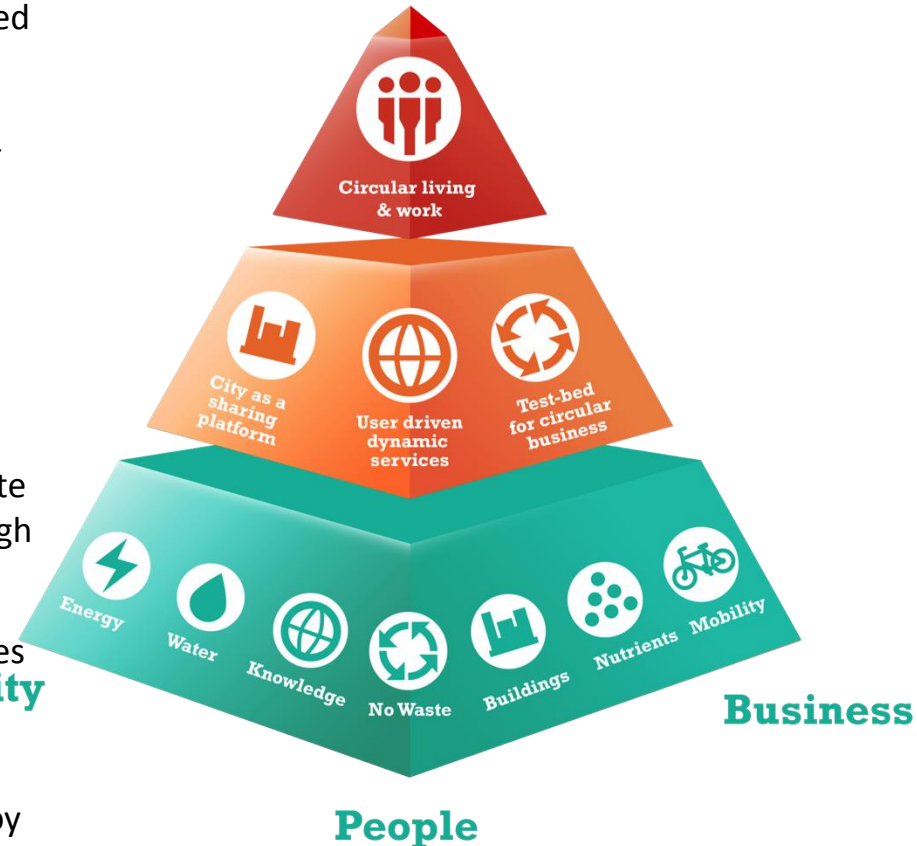
Business

People

Super power: Circular living and work



- Hiedanranta is the first circular district in the world created together by people and businesses.
- People are proud to live in Hiedanranta. They're willing & curious to test novel solutions, which make life easy and sustainable. People can develop the area continuously through open data, digital services and real-time user feedback. Sharing products and services makes life enjoyable and saves money.
- The Hiedanranta circular brand is internationally recognised. The brand attracts diverse businesses to locate in the area and further circular economy principles through their own operations.
- The City of Tampere is an enabler, which creates incentives and a platform to pilot circular business, products and services.
- The guiding principles of urban and spatial planning: 1) joy of life 2) courage 3) encounters





Zero Waste Hiedanranta

People:

People aim at reducing waste according to the waste hierarchy. They sort all their waste efficiently with a guiding principle "waste is raw material". In line with the vision, food waste target is zero. The local reuse centre enables repair, reuse and recycling of furniture, clothes and other items.

Business:

Businesses have a take-back scheme and/or industrial symbiosis with another local business, and they benefit from 'product as a service' business model. Data collection and a digital material bank enhance the efficient use of side streams.

City: Hiedanranta develops into a novel reuse and recycling pioneer. The city builds a 'Zero Waste Hiedanranta' programme with action and communication plan, which furthers all 4 loops of circular economy: maintenance & repair, reuse, remanufacturing and recycling. Architecture and urban planning are seamlessly synchronised for systematic waste separation and various waste streams.

Benefits


- Development and commercialisation of new digital recycling solutions
- Savings in waste handling fees through waste reduction
- Zero waste target and recycling are one of the key factors in strengthening local identity and culture

Pilot project

Identification of industrial symbiosis with businesses, data collection and building of a digital material bank. The material bank can be used already at the construction stage.

Circular Economy in the Built Environment

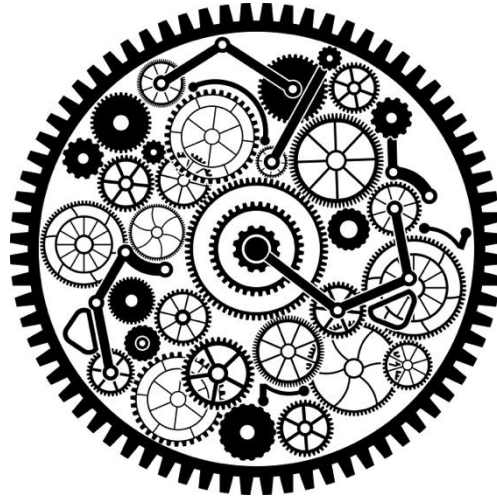
 Major Influence
  Minor Influence

	Materials	Design	Construction	Use	End of Life
Design for Disassembly					
Reuse, Recommissioning, Recycle					
Sharing Economy Solutions					
New Ownership Models					
Sustainable Lifestyles					
Industrial Symbiosis					
Resource Efficiency					
Natural Materials					





PEOPLE



PROCUREMENT



PRINCIPLES

THANK YOU!

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