

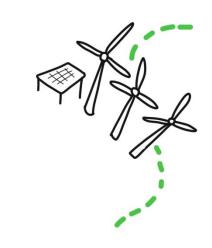
Session 6: Local and Regional Policy Options for Sustainable Innovation and Development

Otso Tolonen, University of Jyväskylä, Finland

Brussels, November 17th, 2016

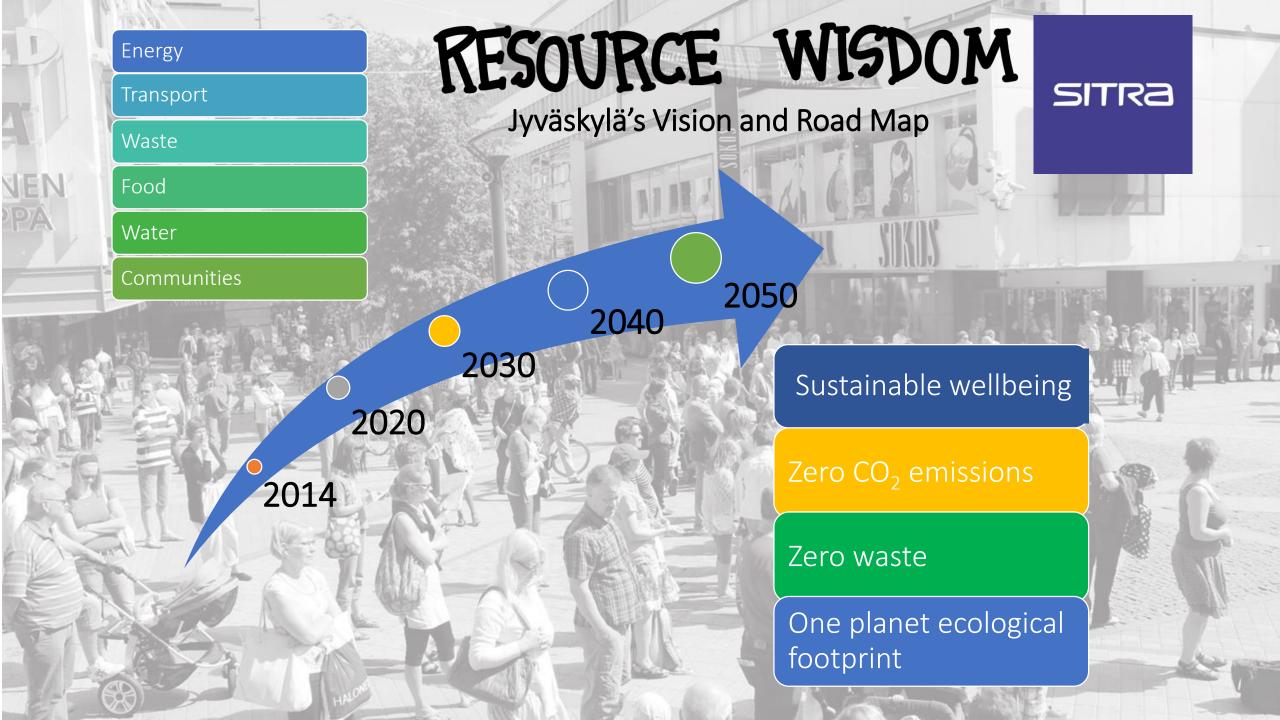
Agenda:

- 1. Resource Wisdom regional operational model
- 2. Public engagement and fast prototyping
- 3. Scalability of operational model









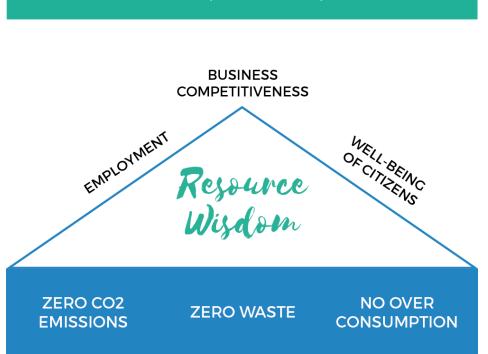


RESOURCE WISDOM

= The ability to use different resources, raw material, energy, products and services, facilities and time in a carefully considered way – which promotes well-being and sustainable development

REGIONAL YITALITY

ECOLOGICAL | ECONOMIC | SOCIAL



IMPACTS ON THE REGIONAL ECONOMY

Reduction of water consumption
Energy efficiency of buildings
Production of transport fuel from biogas
Production of local food
Reduction of private car use
Reduction of left over food
Production of biogas and soil from biowaste
Optimization of soil material transport
Increasing the use of wood fuel

uuu

+ € 100 Million added value/year + 1000 jobs - 500 kt CO2/year

Sustainable wellbeing
Zero CO₂ emissions
One planet ecological
footprint
Zero waste

Jyväsylä's Road Map to Resource Wisdom

	5-2016	2017-2019	2020-2025	2030	2050
• Kai	newable Energy ngas area as a R&D platform d reference area tainable Transport	New solutions for timber supply chain Energy efficient residential areas	1-2 wind power parks Kangas's solar power plant	Carbon neutral production of electricity and heat	Fossil-free and carbon-neutral energy production and consumption
• Ne and pri	ew solutions for light traffic d the use of mass transit and livate vehicles	 Biogas and charging stations for electric vehicles Mass transport as a forerunner in use of renewable fuels 	Smart solutions to combine different ways of commuting	Popular and rapid mass transit will connect population centers	Fossil-free and carbon neutral transportation
• Bio	ogas plant at Mustankorkea dustrial symbioses	 Ecoindustrial park at Mustankorkea Change in attitude: Waste = Material 	To 70% of municipal waste to be reused as material New solutions in to sharing economy	Services are purchased and also sustainable, fixable and made from reused materials products are purchased	Sustainable use of virgin materials, maximal circulation of materials
Pulloc Lef	blic procurement supports cal production ftover lunch concepts creases in popularity	Meat consumption replaced by local seasonal vegetables	Strong brands in local production, easy and affordable purchase, substantial employment effects	Household food waste decreased by 75% Meat consumption at a healthy and sustainable level	Food production and consumption within one-planet principle
• Cer	nter for water business tainable Communities	Closed loop water circulation in industrial processes Individual water meters for households	Biorefinery at a waste water treatment facility Clean natural waters are a part of the Jyväskylä brand	All fractions of waste water are being utilized at the water treatment biorefinery	Increasing water business
cul	rerunner in experimental Iture source Wise hospital	 Resource Wisdom also taught in schools Smart Knowledge Summit 	Greencare, nature and wellness travel	City environment will support the development of competences and smart technologies Vibrant and sustainable living and entrepreneurship	A vital and attractive area for people and business



Key 1: Communication

Professional communicators

- Multiple media platforms
- Large media coverage
- Constant inflow of information
- Creating stories of everyday individuals





Key 2: Large stakeholder involvement

MARRARETT

Operational Model Working Group

29 selected individuals from public, private, non-governmental, research and educational institutes

- Together in planning workshops
- Study trip abroad

Key 3: Public empowerment & fast prototyping

An open platform for anyone to suggest resource wise ideas

- Online
- 212 ideas
 - 14 chosen for rapid development
 - From the 14: Best ideas chosen for additional development and funding

14 experiments

- 1. Leftover lunch
- 2. Try at least once
- 3. Water-mean apartment building
- 4. Wisely illuminated housing association
- 5. Local food direct
- 6. Green Care
- 7. My ridiculous car journey
- 8. Young Eco Agents
- 9. HelpAtHand
- 10. Shared equipment for youth sports
- 11. Club space for all!
- 12. Fixers' Market
- 13. Jyväskylä region mass info
- 14. Resource-efficiency myth busters



Example rapid development pilots







Operational Model Scaled Nationally

- Jyväskylä as pioneer
- Scaled to 7 other cities in two phases:
 - Spring, 2015: 3 cities
 - Spring, 2016: 4 cities
 - Today: over 720,000 citizens
 - Widely popular in 2016:
 - 10 applicant cities, 4 chosen



Cooperation Models with International Cities





FIRST STEPS TO RESOURCE WISDOM



RESOURCE WISE VISIT



RESOURCE WISE EXPERT IMPORT



RESOURCE WISDOM PROJECT



Introduction of regional operating model

Experience sharing and motivating for sustainable regional growth and wellbeing

Conference talks and quick trainings

Learn and benchmark Resource Wisdom in Jyväskylä

Dedicated tours of Resource Wise companies and areas

Workshop sessions to plan Resource Wisdom at your local region

Free time activities and tours

Dedicated expert for your local geography to plan Resource Wise activities on-site

Assessment of local situation and possibilities

Workshop sessions to plan Resource Wisdom at your local geography

Training sessions for local experts and officials

Large scale and tailored implementation of the Resource Wisdom model

Multidisciplinary approach to create sustainable wellbeing and economic performance at your local region



EXPERIMENT AS A TOOL FOR AGILE DEVELOPMENT





REAL ENGAGEMENT

Co-creation via interactive platform provides foresight and info on problems occurring in resident 's daily living

LEARNING BY PROTOTYPING

Testing ideas in real environment makes abstract issues concrete and sensible actions

SUSTAINABILITY GETS ACCEPTANCE

Successful experiments tell powerful stories how sustainable lifestyle makes urban life better

CHALLENGING "BUSINESS AS USUAL"

Culture of experiments enable us to think outside-the-box and break routines





THANK YOU.

Otso Tolonen

Project Worker – University of Jyväskylä & City of Jyväskylä

+358 40 805 4227 otso.p.tolonen@jyu.fi