

# Witty City

## A Tekes Smart City Programme 2013-2017

Program manager Virpi Mikkonen

expected project volume 100 M€, 50 M€ from Tekes

Smart procurement program

Program manager Sampsa Nissinen

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# Tekes – growth and wellbeing from renewal

## **Finnish Funding Agency for Innovation**

The main public funding and expert organization for R&D and innovation in Finland

- Tekes services
  - Funding for innovative R&D and business
  - Networking Finnish and global companies and researchers
  - Tekes is non-profit and takes no equity or ownership on intellectual property.
- Customers
  - Focus on growth-seeking, innovative SME's
  - Finnish and international companies located in Finland
  - Universities, research institutes, municipalities, hospitals etc.
- Resources
  - Budget: 550 million euros annually: grants, loans and soon also capital investments
  - Personnel: 380 in Finland and abroad
- Public agency under the Ministry of Employment and the Economy



Tekes

**Witty City**

# Key figures on Tekes funding in 2013

577 M€

Funding for companies and research organisations  
577 million euros

Companies applied for

615

million euros for R&D funding

349 million euros for company projects of which 133 million euros for young growth companies



67 %



of company funding to SMEs

3,010 funding applications

2,040 development ideas tested

1,860 positive funding decisions

680



startup companies financed

Companies' applications processed in

58

days

613

new Tekes customers

# Witty City

Energy-efficient and durable

Built on local strengths

ICT boosts functionality

Testing new solutions

A Brand

Vibrant business-climate

Users actively involved

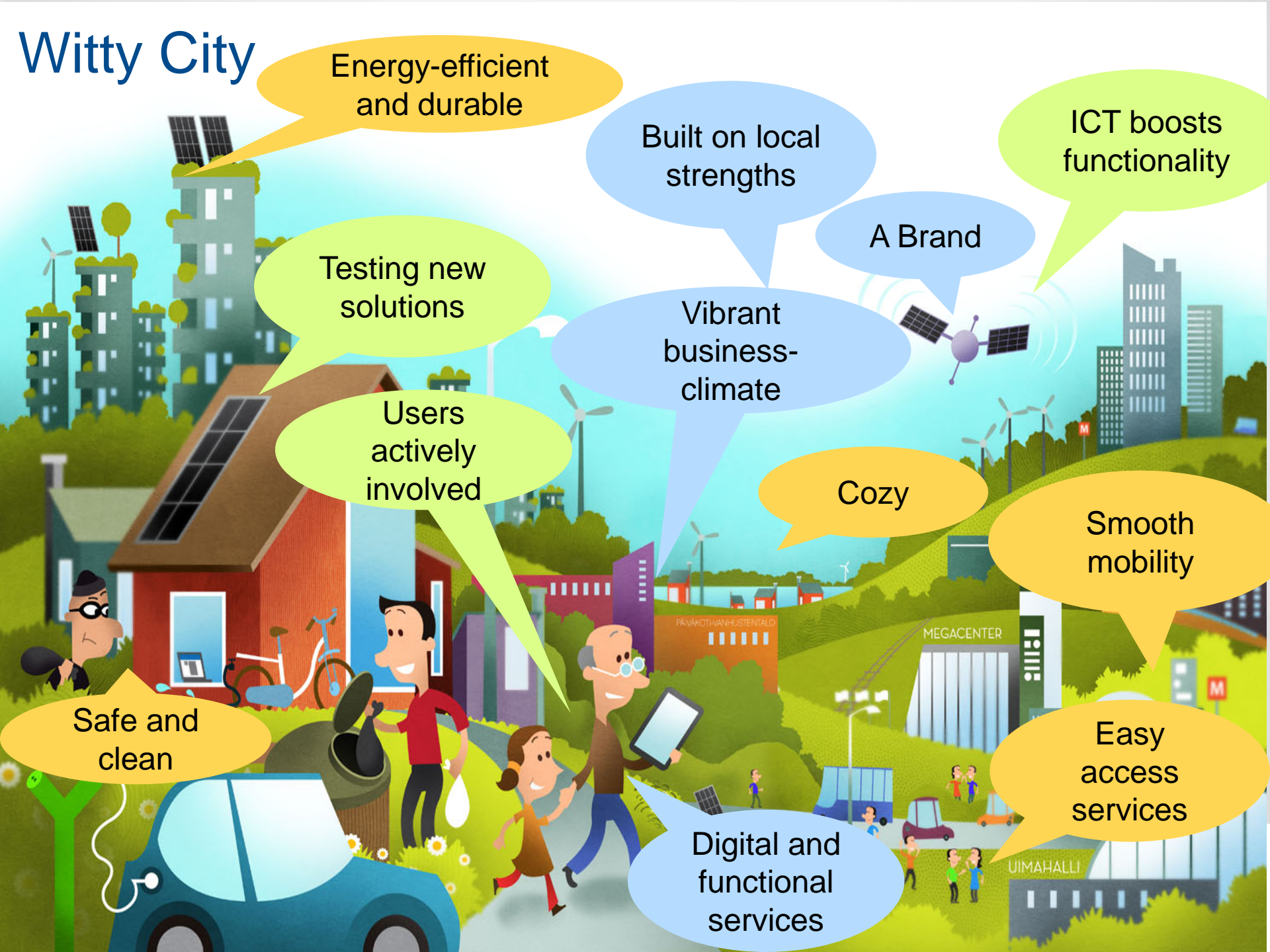
Cozy

Smooth mobility

Safe and clean

Digital and functional services

Easy access services



# Witty City

## Why a Smart City programme is needed?

- Urbanisation continues globally
  - Cities grow, shrink and transform
  - Growing demand for smart city solutions
- The full potential of new innovations and knowledge is not taken into account in investments
  - Improve cooperation between users, public and private sector
- User needs are not taken into consideration well enough
- Finnish companies are small actors in global markets
  - Enabling technologies have been developed and tested, but there is growing need for integrated solutions
  - Companies need networks
- Companies need full scale demonstrations for new solutions

# Witty City programme

Finland is a forerunner in everyday services and technologies

Integrated smart technologies and services

Development in genuine environments

Competence for new international business

ICT

Energy

Construction

Mobility

Services

Companies

Public actors

Users

Investors

References

Networks

Integrated solutions

# Witty City programme

Finland is a forerunner in everyday service technologies

Investments and urban development projects as test beds

Integrated smart technologies and services

Development in genuine environments

Competence for new digital solutions

Bring supply and demand together

ICT

Energy

Construction

Mobility

Services

Companies

Public actors

Users

Investors

References

Networks

Integrated solutions

# Witty City programme

Finland is a forerunner in everyday services and technologies

Innovative integrated solutions

New business and cooperation networks

Integrated smart technologies and services

Presence in genuine environments

Competence for new international business

ICT

Energy

Construction

Mobility

Services

Companies

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# Witty City programme

Finland is a forerunner in everyday services and technologies

First commercial references

Integrated smart technologies and services

Development in genuine environments

Competence for new international business

ICT

Energy

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References

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Integrated solutions

# Smart procurement program 2013-2016, 30M€



- The aim of the program is to stimulate smart demand /promote public procurement of innovation.
  - that will allow companies to develop their competitiveness through first commercial references
  - Influence the general attitude for innovative procurement as an enabler for renewal
  - shortens the time for innovations to enter the market
- Main focus areas are where the public (or private) procurement has major impact on the market.

# Project examples

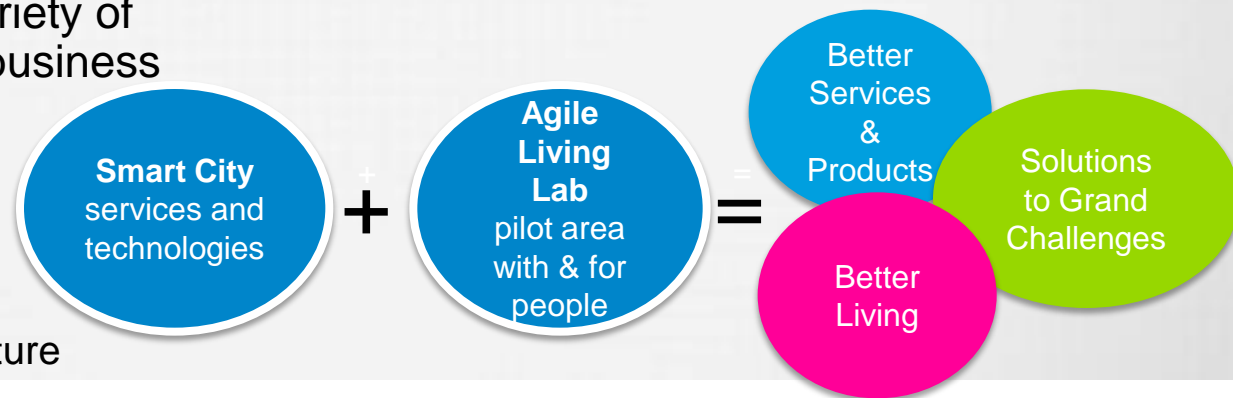
Witty City

## Smart Kalasatama City of Helsinki

- The City has a remarkable role in delivering new innovations to everyday lives of the people. It is the key gatekeeper in innovations related to living, energy use, transport, education, healthcare and services for the elderly and children.
- The project will create the key operating models, structures, and other conditions for the emergence of smart Kalasatama
- Kalasatama provides a variety of diverse piloting areas for business solutions
  - Smart living
  - Ubiquitous school
  - Smart energy solutions
  - Smart traffic, situational picture

## Oulu Arctic Smart City Ouman Oy, Oulu Energy, University

- KLEI concept for minimizing peak loads of energy
  - Ouman Oy: new service models and business models
  - The University of Oulu: generic modeling system of the buildings and the needed controls
  - Oulu Energy: developing and demonstrating the KLEI concept in different types of buildings, control of district heating customer's energy usage in heating network



## Ajelo, Demand Responsive Transport

- The Demand Responsive Transport (DRT) System, that is piloted in the Helsinki metropolitan area (KutsuPlus), is developed in order to allow product sales to the international market as a scalable and constantly developing business.

## Witrafi, Rpark

- The aim of this project is to produce a Intelligent Transport System with which it is possible to gather information about how and where cars are driven to.
- It can be applied to especially Electronic Toll Collection, parking payment (interoperability among different outlets) and congestion payment. It can also be used in directing traffic as well as collecting and providing various kinds of information about car use.

## Mapita, A map-based query tool

- Local residents have invaluable insight about the best and worst sides of their everyday surroundings, but few cities put that insight into use systematically. The greatest impediment is not the lack of motivation but the lack of tools that would enable the gathering and analysis of large sets of experiential data in a cost-efficient way.
- Fortunately, Mapita now provides such a tool: the map based online questionnaire service called "Maptionnaire". The objective of this project is to develop the usability and sales automation of Maptionnaire to meet the demands of a global market.

## Sweco PM: Brownfield development concept

- A concept for modern urban redevelopment; how to change the old fashioned areas into new blooming offering new and advanced business possibilities for each operator.