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RIS3 implementation state of the art Helsinki-Uusimaa region

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HELSINKI-UUSIMAA REGION AT THE HEART OF NORTHERN EUROPE

- CAPITAL REGION of Finland
- 26 MUNICIPALITIES,
the largest demographic and consumption centre in Finland
- EXCELLENT environmental conditions
 - 300 km of coastline
 - two national parks
- QUALIFIED HUMAN CAPITAL
and scientific resources
- INTERNATIONAL AIRPORT
- four large INTERNATIONAL PORTS
- concentration of CENTRAL FUNCTIONS:
economy, administration, leisure, culture
- privileged GEO-STRATEGIC LOCATION



POPULATION

- 1,6 MILLION inhabitants
- 29% of the population of Finland
- average POPULATION GROWTH in the 2000s: 14,400 / year
- OFFICIAL LANGUAGES:
Finnish mother tongue 81.6%, Swedish mother tongue 8.4%
- other WIDELY SPOKEN LANGUAGES:
Russian, Estonian, Somali, English, Arabic, Chinese
- share of total FINNISH LABOUR FORCE: 32%
- 99 500 business establishments
- share of Finland's GDP: 38%
- DISTRIBUTION OF LABOUR:
services 82.8%, processing 16.5%, primary production 0.7%

FINLAND

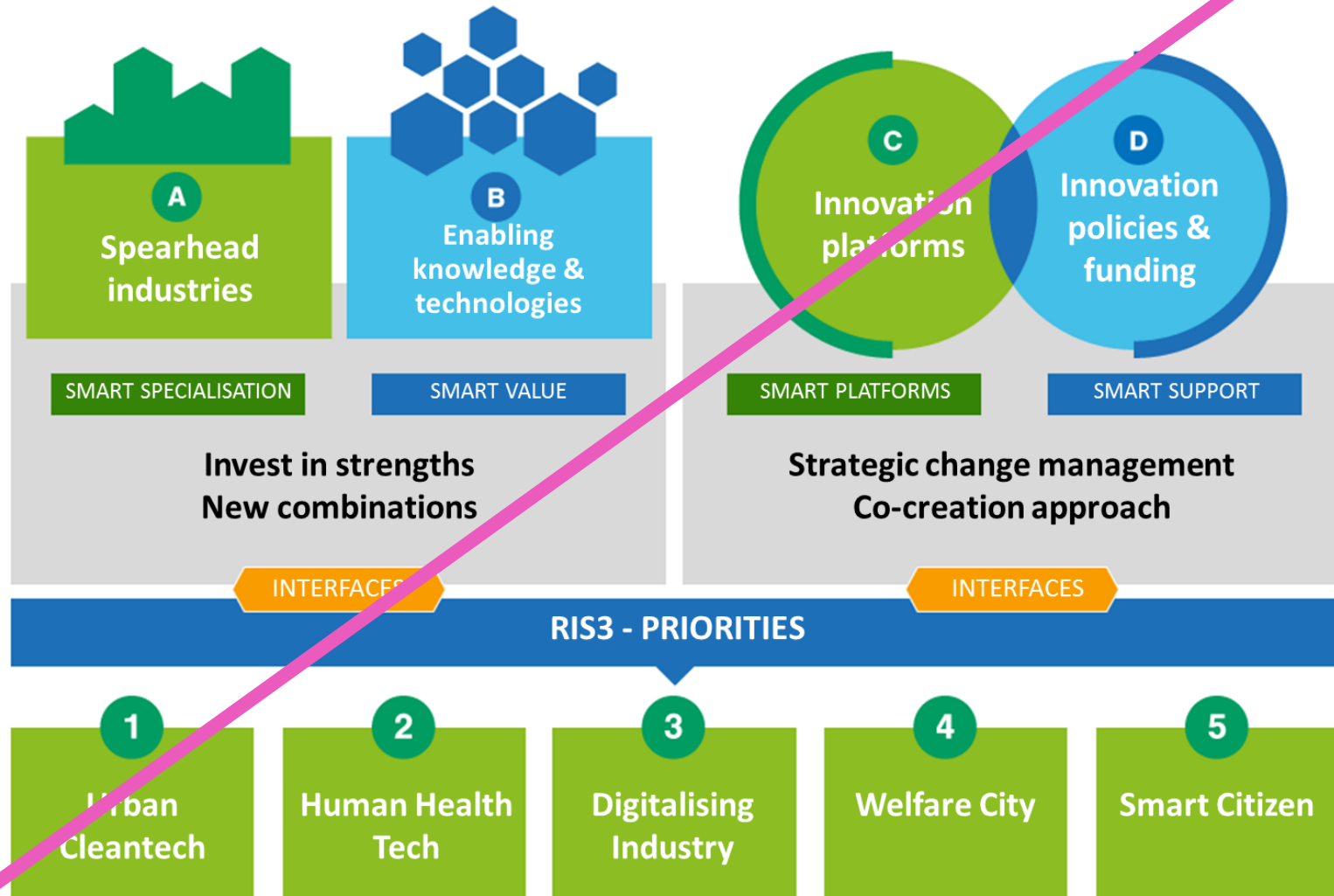
- republic with 5,4 MILLION inhabitants
- member of the EUROPEAN UNION
- 1,8 MILLION SAUNAS,
500 of them traditional smoke saunas
- 188 000 LAKES (10 % of the total area)
- 180 000 ISLANDS
- 475 000 SUMMER HOUSES
- 203 000 reindeer
- 35 national parks
- 5,2 million MOBILE PHONES

RIS3 in Helsinki-Uusimaa



Smart specialisation in the Helsinki-Uusimaa Region

Research and Innovation Strategy for Regional Development 2014-2020 (RIS3)



Helsinki Uusimaa RIS3 Implementation

The strategy is approved by the Board of Helsinki-Uusimaa Region

The implementation of the strategy is being steered and reviewed by the Regional Cooperation Committee (MYR)

One coordinators is assigned to each of the priorities

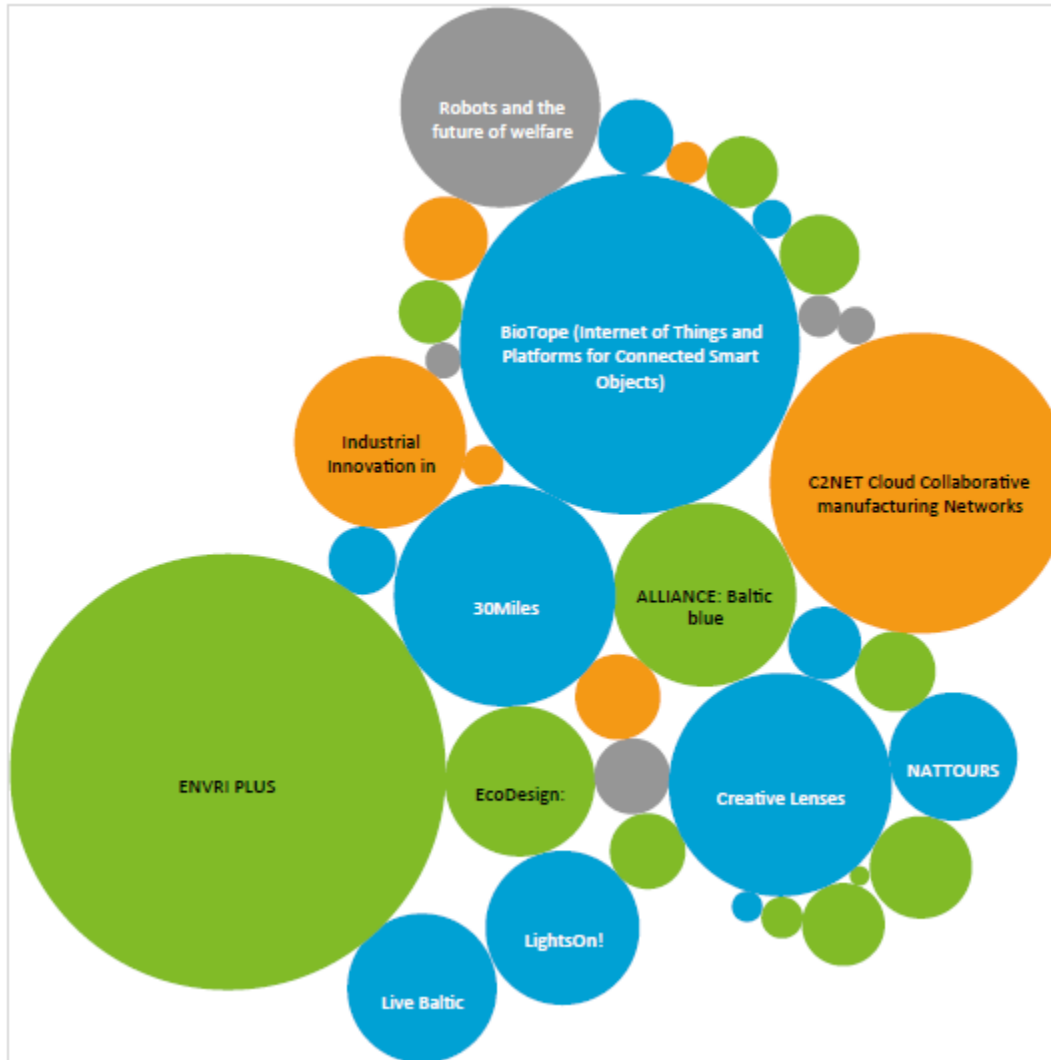
Umbrella (Coordination) projects: Regional Council finances projects which supports the implementation and coordination of regional RIS3

Projects aligned with the RIS3 financed by ESIFs, public (national, regional and municipal) funding and private and Climate KIC



RIS3 Reference Site

RIS3 implementation in Helsinki-Uusimaa



- Digitalising Industry
- Human Health Tech
- Urban Cleantech
- Welfare City

Bioeconomy



Bioeconomy in the region

Bioeconomy is included in the spearhead area of the “Urban Cleantech” of the Helsinki-Uusimaa RIS3 strategy.

The bioeconomy contains

- **Bio-processes** (biochemistry, microbiology, gene technology and bioinformatics)
- **industrial biotechnology** and
- **material sciences**, aiming to bio-based chemicals, fuels, materials and fiber products.

Bioeconomy accounts to 10% of the Finnish national economy.

Figures: Cleantech in Finland 2013-2016

- 60 % of cleantech enterprises at Uusimaa (n= 532) can be defined as forerunner cleantech companies (n= 252)
- Cleantech companies at Helsinki-Uusimaa clearly bigger than elsewhere in the country
 - Average turnover 180 M€ / year (compared to 28M€/year)
 - Average number of personnel 200 (elsewhere ~100)

RIS3 questions



Q1: Is there a project pipeline agreed for the bio-economy development niche?

- Bioeconomy is in ESIF investment priority of low-carbon economy
 - Specific target: developing solutions for renewable energy and energy efficiency
 - 25% of total funding has to be allocated to low carbon in Finnish OP 2014-2020
- The project pipelines implementing Bioeconomy will be included in the **Smart & Clean initiative** which will finance 20-30 projects with a total budget of €10 million.
- Biorukki is Comprehensive pilot scale **R&D infrastructure for bio, process and forest technology** with 9 pilot facilities for the whole value chain of bioeconomy, circular economy and cleantech. It is realisation of the national bioeconomy strategy. So far VTT has invested €10 million in Bioruukki and the planned further measures are estimated to be €10–15 million. The installation of other pilot equipment in the 8,000 square metre Bioruukki will be carried out in the next two years.
- Tekes (Finnish National Funding Agency) finances the activities and project in the topic of bio-economy

Q2: Are there criteria for funding /co-funding RIS3 business projects? If yes, what are they? What type of investments do they prioritize?

- In Regional Council there is no specific financing for business projects or investments in connection to RIS3
- Tekes and ELY finances business projects by its own criteria
- Tekes finances smart specialization nationally through innovative Cities (INKA) programme
- **Smart & Clean** will have criteria for financing projects

Q3: Do the criteria for funding / co funding RIS3 projects, include eligibility of innovation partnerships?

- Co-operation is a precondition in Regional Council's funding for RIS3 implementation
- R2B, B2B or R2R are a common criteria in Finnish national and regional project funding
- European Innovation Partnerships EIP, regional stakeholders participating in different initiatives and degree of involvement varies.



Q4: What type of RIS3 related investments & innovation partnerships have already been fund/co funded? Are there some results?

- So far, HURC funds 6 RIS3 Coordination (Umbrella) projects to facilitate the cooperation (early stage) and building innovation partnership for the period of 2016-2017.
- **Smart & Clean** which pulls in € 10 millions of 1/3 private, 1/3 national and 1/3 municipal funding to directly invest innovation deployment. It aims to attract 10 billion investments to Finland.

Q5: Is there an innovation infrastructure already assigned with supporting the RIS3 implementation? Are there performance criteria set to this structure?

- There is some sort of intermediate body in place by assigning one coordinator to each of the RIS3 priority
- the Uusimaa regional program in which the RIS3 is embedded is evaluated regularly
- HURC is currently developing project profile indicators with reference to the EU level indicators
- **Cache performance indicator under development (?);** will be base on EU level indicators
- Ministry of Economy and Employment follows RIS 3 strategies on national level

Good practice: Smart & Clean foundation



Smart&clean: an answer to critical issues/success factors/difficulties?

Results from a survey made in 2015

Answered by

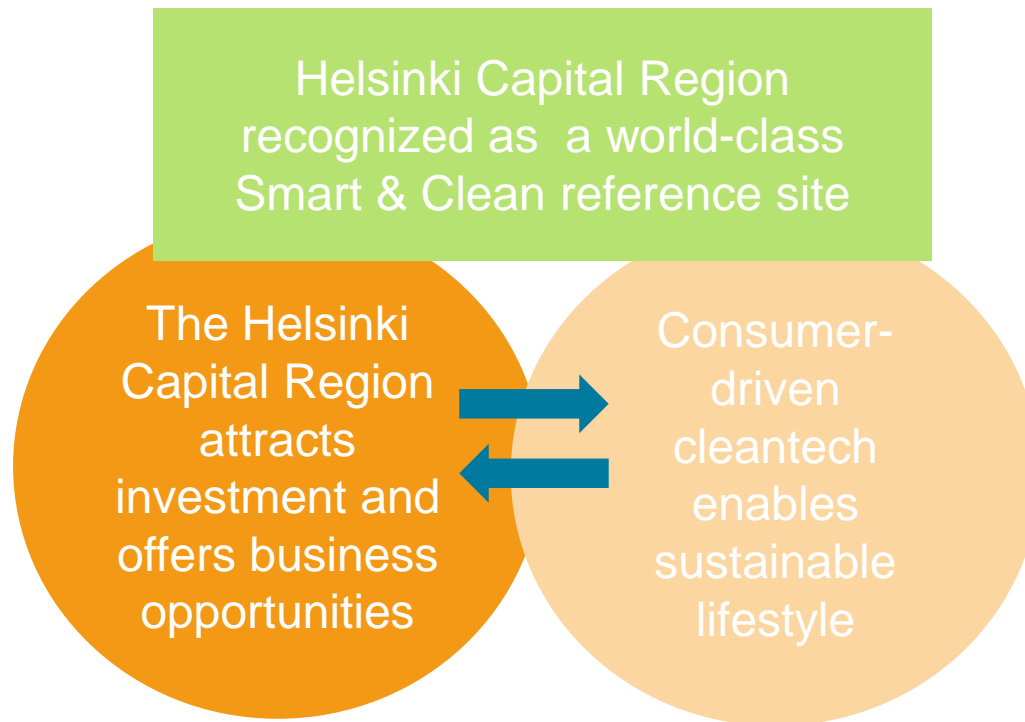
- 67 cleatech companies
- 46 cities
- 50 representatives of governmental institutions and research & development actors

- Companies don't think there's lack of resources for S&C development (cities do!)
- Both companies and cities feel cities lack expertise and/or courage to try new approaches
- Companies think cities should themselves take more risks in piloting cleantech solutions

- 93 % think promoting S&C development can help to attract foreign investment
- 91% think the region needs to set an ambitious goal to support this aim
- 94% think that companies should have a better representation in all processes from the beginning
- 83 % think common platforms and living labs are needed for digital service development
- 76 % think the 3 major cities of the capital region (Helsinki, Espoo, Vantaa) should commit to work together for a better environment
- 75 % think involving citizens in regional development is important
- 59 % think cleantech development needs more visibility; a brand and international marketing

A good practice from Helsinki-Uusimaa: Smart&Clean initiative: structure & aim

- **Foundation** set for operation for 5 years (2016-2021)
Board, advisory group, international advisory board + other personnel



Smart&clean: Expected Results

10 M€ invested in projects

(1/3 private, 1/3 national and 1/3 municipal funding)



20-30 projects/cluster projects under five thematic entities
financed and implemented by 2021



10 billion € RDI investment to cleantech => jobs



Smart&clean: Actors & scope

