



EMPOWERING CITIES AND CITIZENS WITH OPEN URBAN TECHNOLOGIES: EXPERIENCES IN SMART CITY PROJECTS IN EUROPE, KOREA AND JAPAN

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« THE WORLD’S MOST INNOVATIVE RESEARCH INSTITUTIONS »



CEA, the Most Innovative Public Research Organization in Europe,
According to Reuters



Most innovative R&D organization in the world
at the 2016 ranking

TOP INSTITUTIONS | 2017 RANKINGS

| | | |
|---|--|---------|
| 1 | Health & Human Services Laboratories | USA |
| 2 | Alternative Energies and Atomic Energy Commission | France |
| 3 | Fraunhofer Society | Germany |
| 4 | Japan Science & Technology Agency | Japan |
| 5 | National Institute of Advanced Industrial Science & Technology | Japan |



Chamrousse,
PyoengChang

smart ski
station



PTL



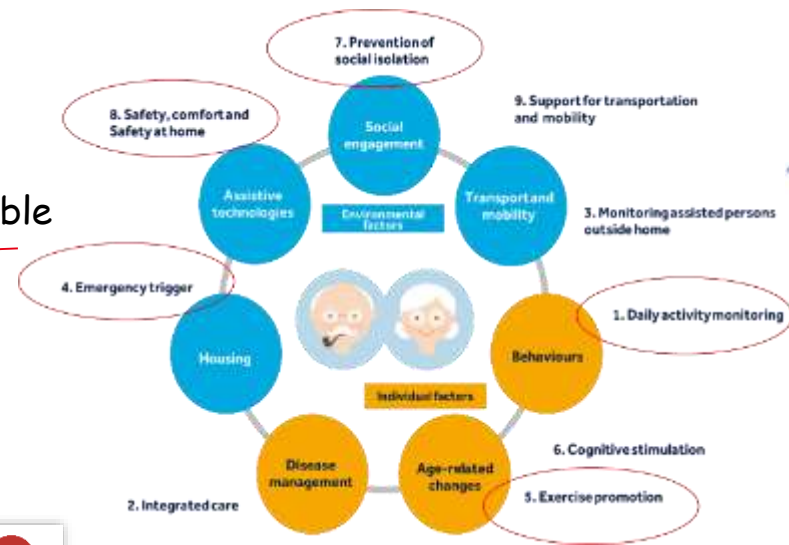
iHouse



Smart home

Grenoble

Smart living &
well-ageing



smart train
station

Kameoka, Maya, Osaka



Smart
farming



Bordeaux,
Dubourdieu
Wineyard



Genova, Santander, Mitaka, Fujisawa, Grenoble, Tsukuba, Bristol, London, Aarhus

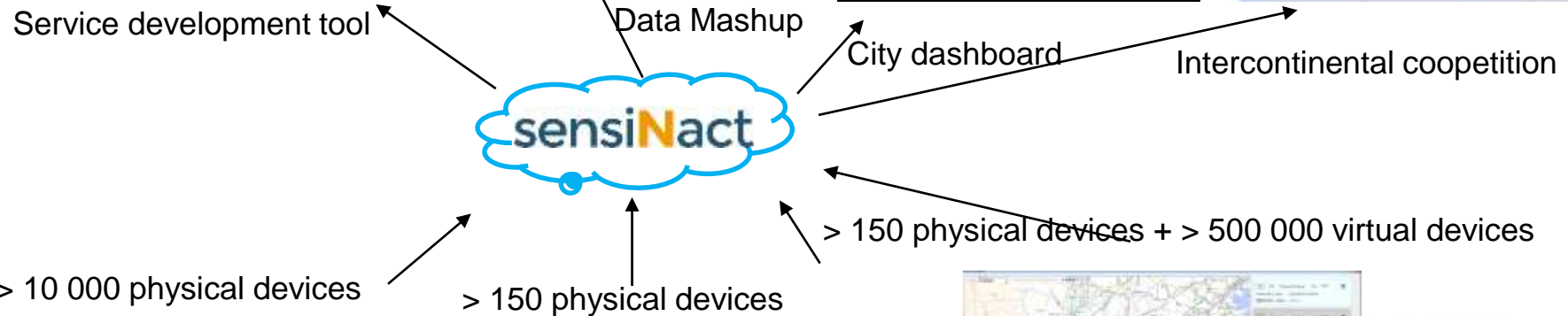
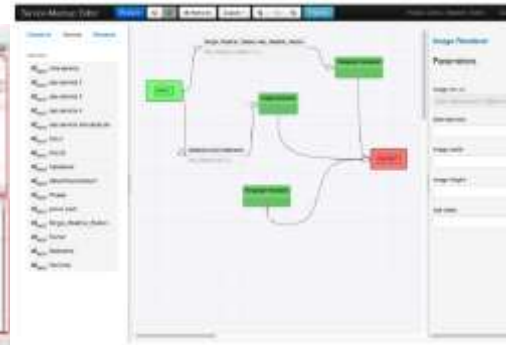




Cloud of Things for empowering the citizen clout in smart cities



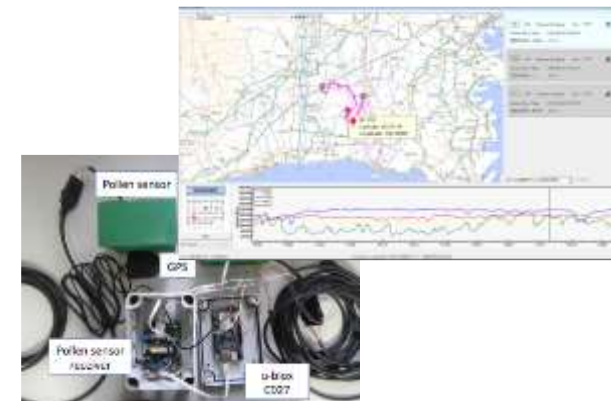
sensiNact Studio



Santander



Genova



Mitaka



Fujisawa



TRIALS PLANNING IN 4 PILOT CITIES



Federation through an Uniform Access Layer offering **Experimentation as a Service**

Open Data Federation



› Access to city data sets

iHouse



› Experimental SmartHouse

› Experimental datacenter facility



ATR DC

IoT Gateway sensiNact

Experimentation Facilities



PTL



› Advanced Microelectronics
› Integration Testbed

IT Resource Manager

Platforms



› Cloud Environment
› Manage Virtual Machines
› Access Generic Enablers



› Japan-wide
› Open Testbed
› Wireless Sensors
› SDN capabilities
› Cloud resources

Living Lab Manager

Living Labs



TUBA - Lyon



The Lab - Osaka

› Access to large base of end users
› Co creation processes
› Feedback from citizens



大阪大学
OSAKA UNIVERSITY

KYOTO
SANGYO
UNIVERSITY

acutus

R
RITSUMEIKAN

Jriss

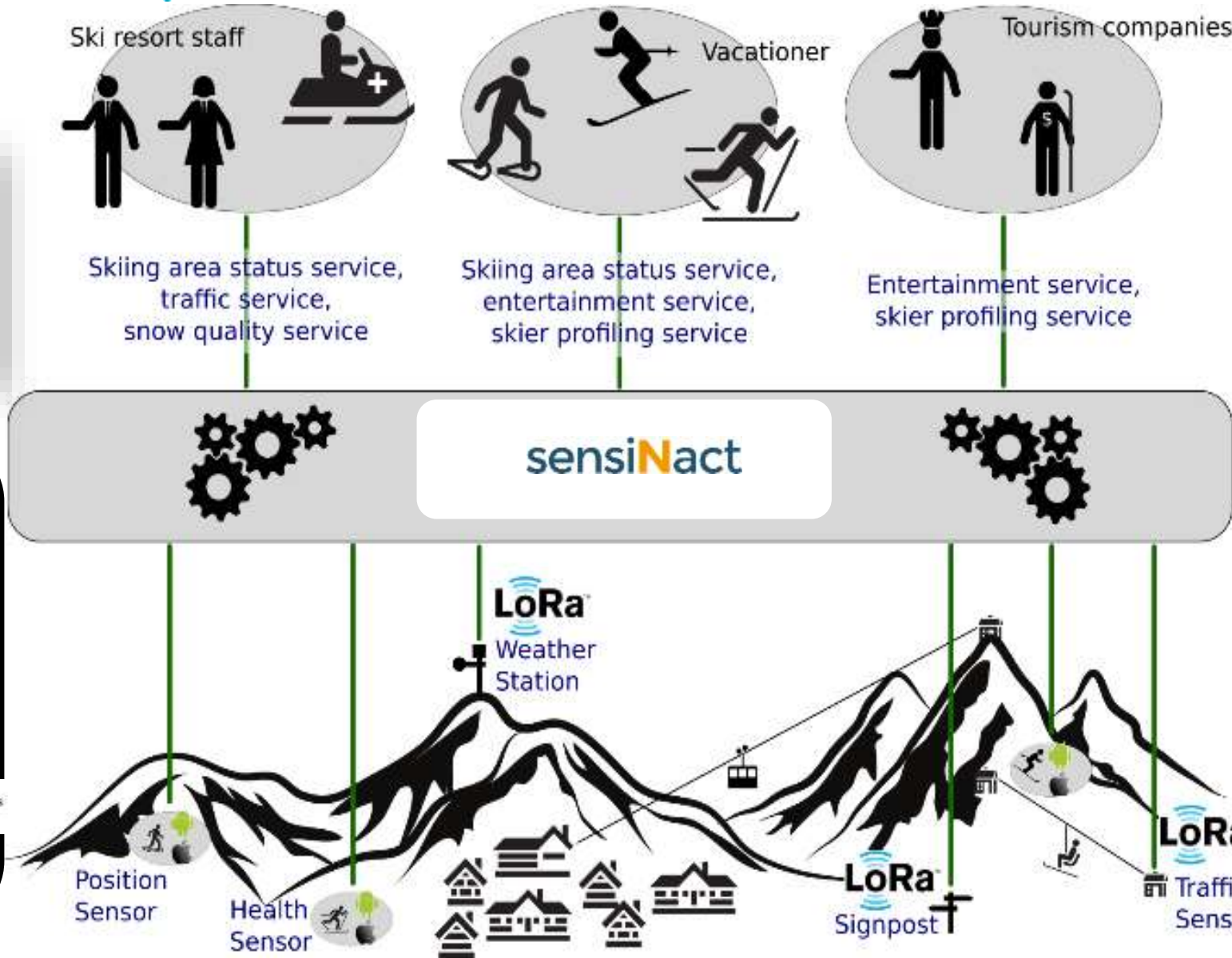
jde

KNOWLEDGE
CAPITAL





IOT FOR SMART SKI RESORTS



PyeongChang 2018



LESSONS LEARNT

- **1. Each city is unique, yet today's economic, societal and technological challenges are global**
 - Mutualise resources, cooperate and exchange to tackle the global challenges
 - Europe, Japan and Korea have complementary vision and expertise
- **2. Cities are aware of the potential of IoT for increased efficiency**
 - However, they are confused (too many standards, actors, initiatives, etc.); looking for (neutral) guidance for their digital transformation
 - Need for common language comprehensible by each stakeholder, from both supply and demand sides
- **3. The value is in the ecosystem**
 - Openness is key for the benefit of local actors (in particular SMEs and startups)
 - No vendor-lock-in, no single platform; variety is richness
- **4. City scale testbeds are important to validate innovation**
 - Smart city applications need validation from citizens
 - Cities belong to citizens: requirements-driven, solution-oriented, citizen-centric innovation. Include them in the loop!

Urban Technology Alliance for Smarter Cities

It's time to move forward!



Urban Technology Alliance



Urban Technology Alliance

Worldwide testing environment for smart city solutions



UTA provides city
scale testbeds

*Smart city solutions need
technical, economic, social
validation before large scale
deployment*



UTA provides a
matchmaking platform

*Cities need neutral guidance,
industry needs testing envi-
ronment, researchers need
real requirements*



UTA provides best practices
among cities all around the globe

*Yes, each city is unique; yet,
today's worldwide urban
challenges are very similar*

Who are we?

A vibrant community with important international actors

Initial testbed cities: Grenoble, Taipei, Busan, Daejeon, Santander, Bordeaux, Fujisawa, Saitama, Tsukuba, Bristol, Hong Kong, Vancouver, etc. and many others are joining in the coming days



Grenoble Capital of the Alps
Capital of Innovation



Smart ski resort in Chamrousse



Prestigious institutions, experts in smart cities: CEA, Knowledge Capital, Keio University, KAIST, University of Tsukuba, Osaka University, University of Grenoble-Alpes, etc. Continuously growing community...

Large international tech companies, network operators, device vendors, integrators, innovative SMEs and startups, law firms, consulting firms, insurance companies, artists, designers, etc.

Thank you for your attention!

Meet us at

SMARTCITY
EXPO WORLD CONGRESS



13 - 14 NOVEMBER 2018
BARCELONA

Booth C403

JOIN US

Interested in being part of the UTA's vibrant community?

contact@urbantechnologyalliance.org



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