

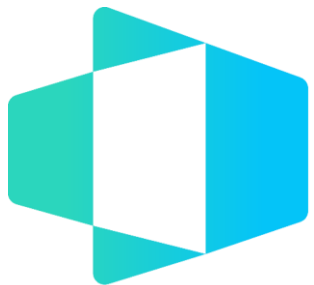
Urban Technology Alliance

Global cooperation for testing and validating
smart city deployments

Dr. Levent Gürgen, President

Sejong Smart City Forum

April 29th, 2021



Urban Technology Alliance





**READY TO
BUILD YOUR
SMART CITY?**

**URBAN
TECHNOLOGY
ALLIANCE**

Join us as we build the
sustainable and adaptable
cities of the future



Who are we? What do we do? Why do we do?

Global network of cities, industry and academy
teaming up to organise city scale pilots
to validate technical, economic and social angles
of innovative solutions for smarter cities



Vibrant community of smart city stakeholders

A non-profit association, incorporated on December 2019, in Geneva, Switzerland



KNOWLEDGE
CAPITAL



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 environments, researchers need real requirements

UTA Provides a Global Perspective



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

How does UTA function?

5 Working Groups

Technical WG



Build reference architectures and integration plans

Sustainability WG



Define metrics for technical and economic sustainability

Testbeds WG



Build teams and organize trial deployments in city testbeds

Business WG



Create partnerships, find funding opportunities

Social WG

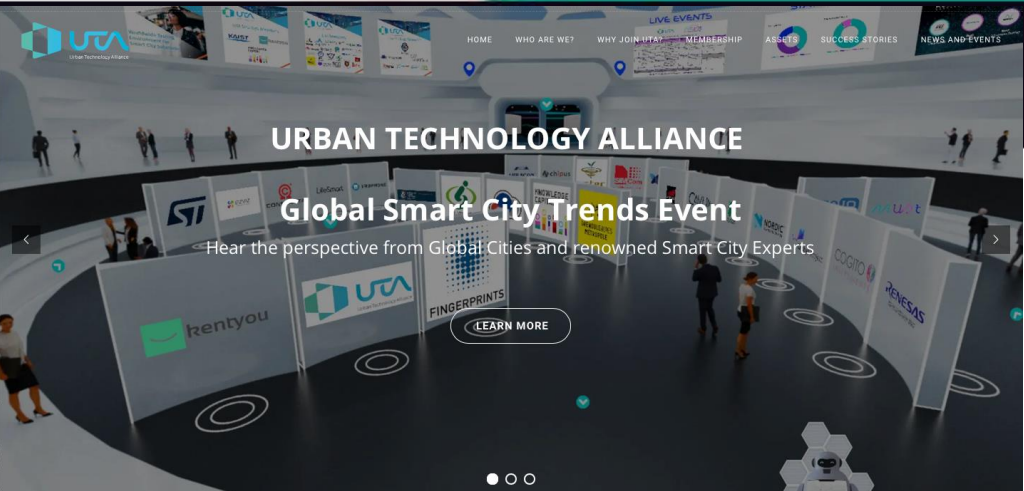


Deal with social aspects such as ethics, privacy, design and art



URBAN TECHNOLOGY ALLIANCE GLOBAL SMART CITY TRENDS

8-11 DECEMBER, 2020
<https://wp.me/pcvhbf-19d>



WeMB



UBIHK

Qualcomm



kentyou

Telefonica

KNOWLEDGE CAPITAL



جامعة الحسن الثاني بالدار البيضاء
UNIVERSITÉ HASSAN II DE CASABLANCA



DATA
IN MOTION

KAIST

Insight

SFI RESEARCH CENTRE FOR DATA ANALYTICS

Worldline



KANSAS CITY
MISSOURI



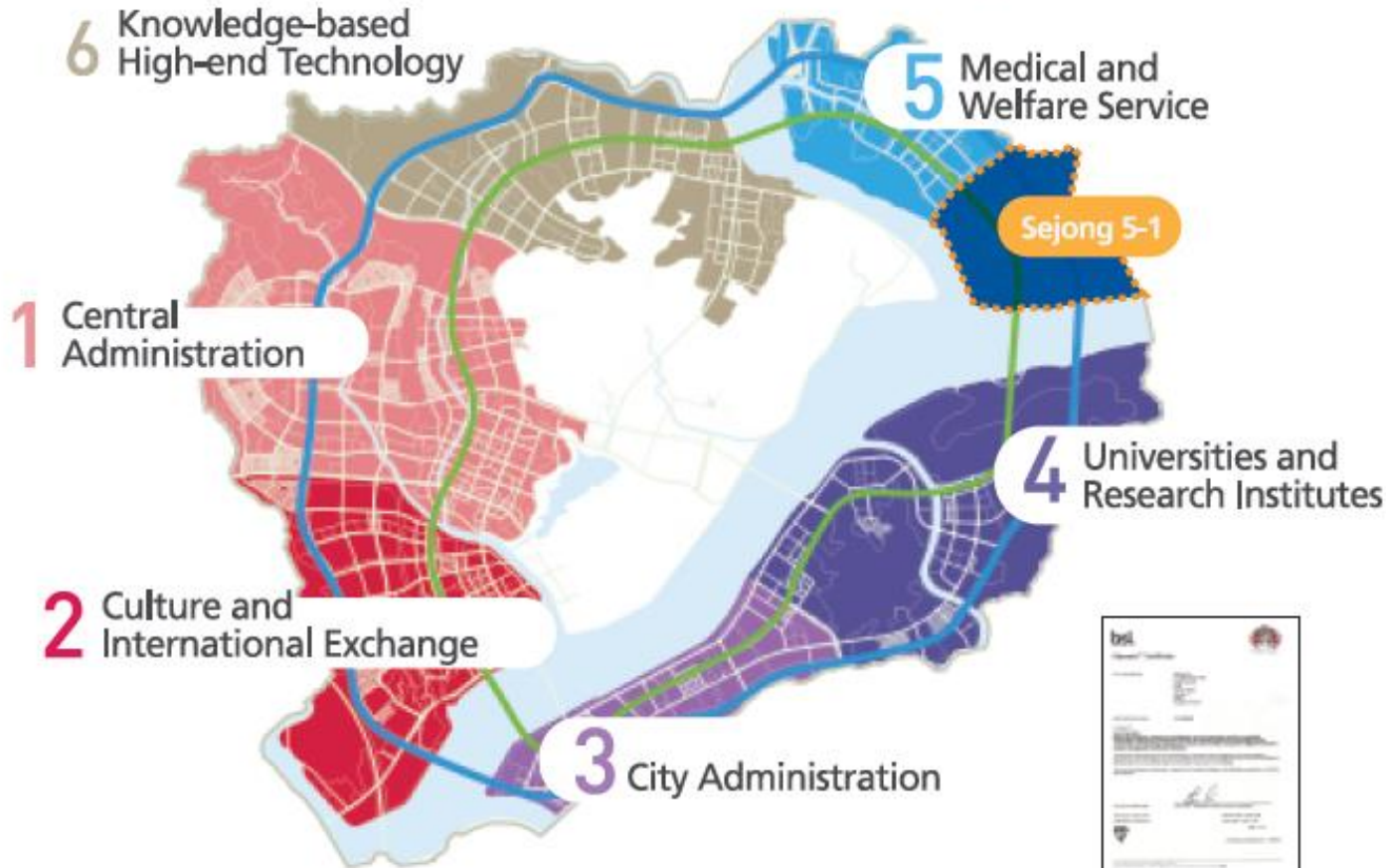
THE CITY OF COLUMBUS

City of Pilsen

Some testbed examples

Sejong

The new center of Korea



World's First ISO037106
Smart City Certification

Mobility



- Integrated Mobility Service
- Closed PM (Personal Mobility); a Shared Mobility
- Self-driving Shuttle (demand-responsive) within Inner-ring Road

Healthcare



- Integrated Network of Clinics
- Quick Arrival for Emergency Rescue & Treatment
- Accessing Personal Doctor via Smart Home

Energy & Environment



- More energy-sufficient buildings
- Energy Trading of E-Prosumers
- Expanding Renewable Energy Mix beyond requirements

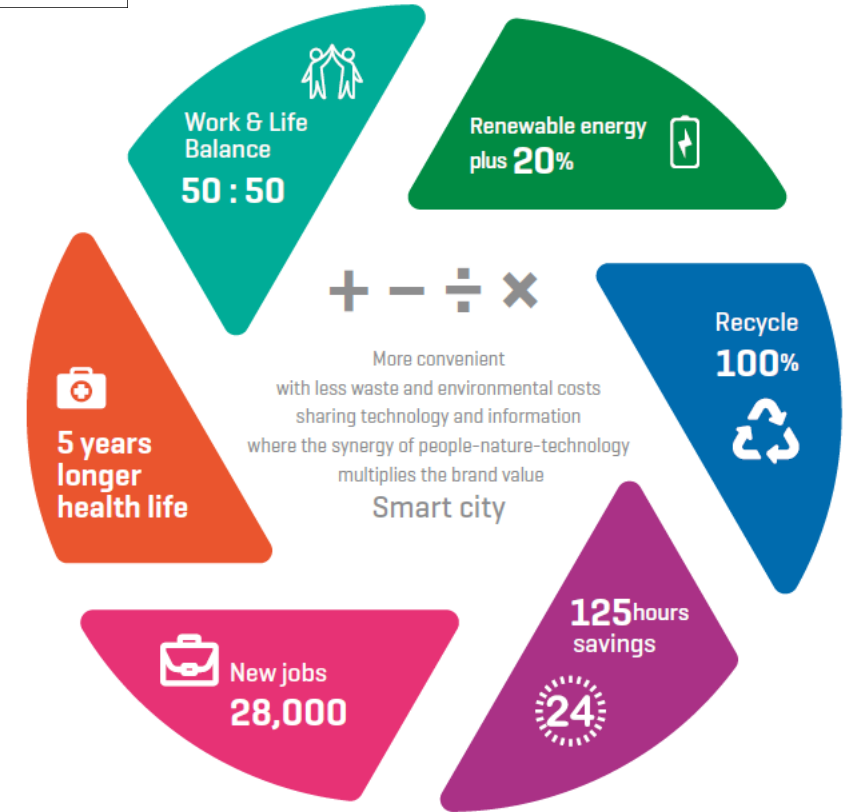
Busan

Busan Eco Delta City



Global Smart City Trends 2020
Smart Cities Success Stories

“Smart City Winter”
Jong-Sung HWANG
Master Planner
BUSAN EDC Smart City



Quantitative overview of **six objectives** and twenty-eight KPIs for **Busan Eco Delta Smart City**

Taipei

Smart City as a Living Lab



Urban Technology Alliance

Global Smart City Trends 2020

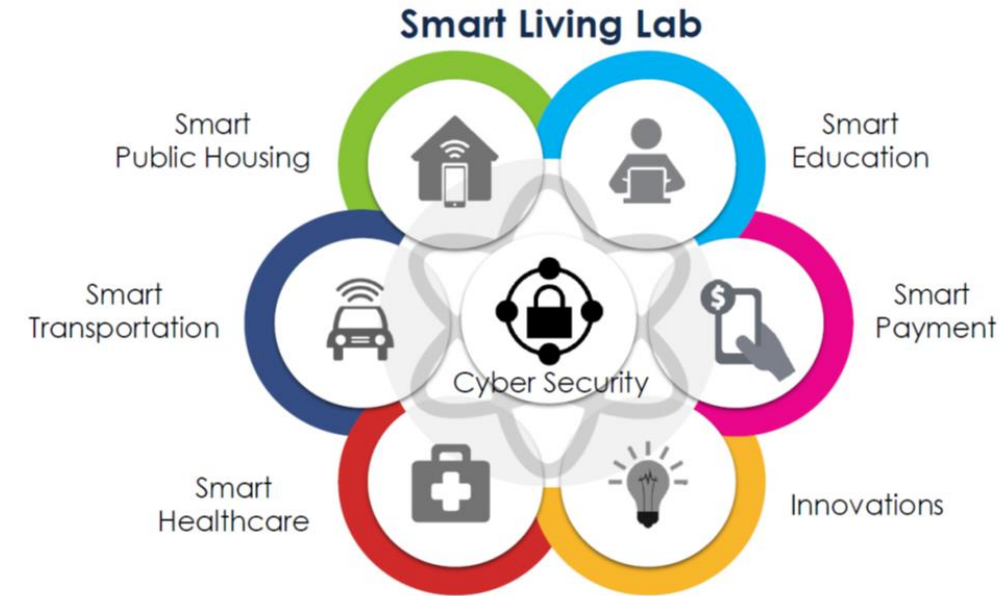
Smart Cities Success Stories

“Smart Taipei A new model and Prospect”



Chen-Yu (Leo) LEE
Director **smarTaipei**
TAIPEI Smart City Office 臺北智慧城市專案辦公室

Taipei at a Glance

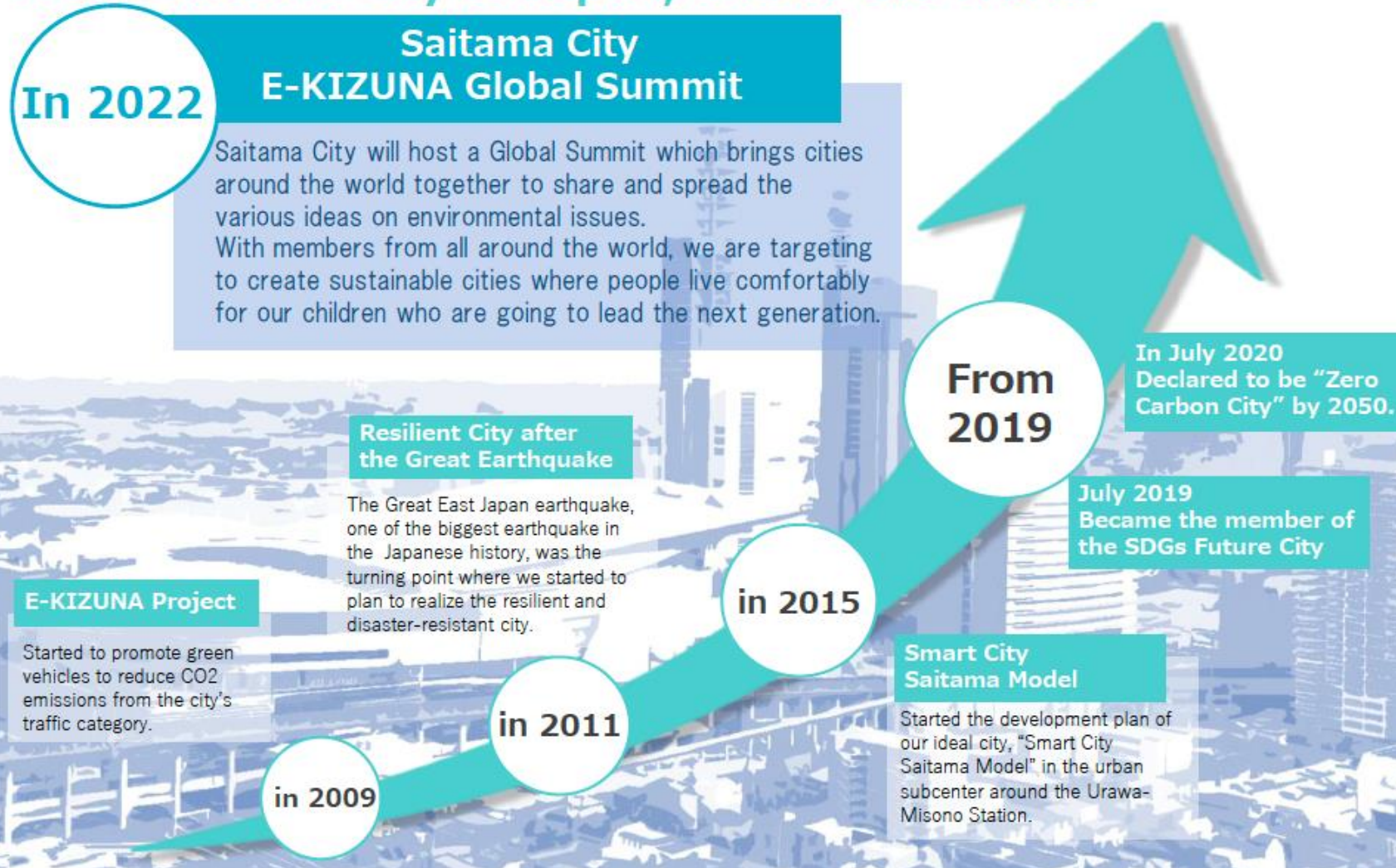


Saitama



~Confronting the climate change~

From Saitama City to Japan, and to the World



Fujisawa



Urban Technology Alliance

Global Smart City Trends 2020

Smart City Platforms





“FUJISAWA Smart City Initiative”
Mr Fukuda
 IT Promotion Division of
 Fujisawa City



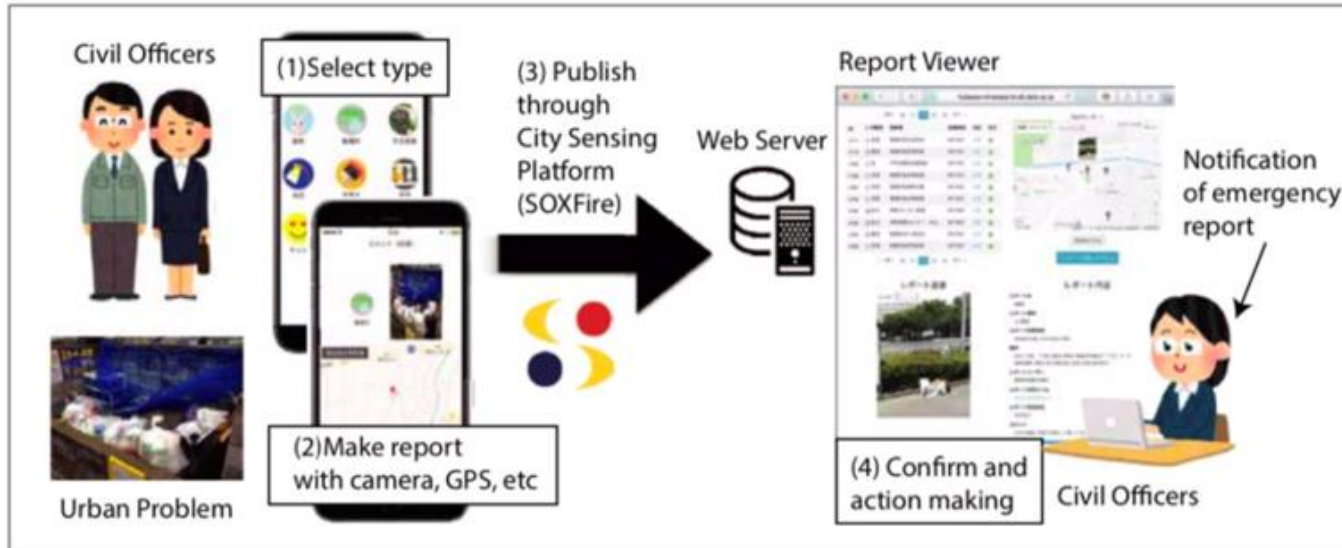

IOT'FIED GARBAGE TRUCKS

Trucks collect garbage + data

We IoT'fied 100 garbage trucks in Fujisawa city. Each truck is equipped with 10 different sensors including GPS, and a linux computer. Sensor data are transmitted 100 times a second to the server operated by Keio University.

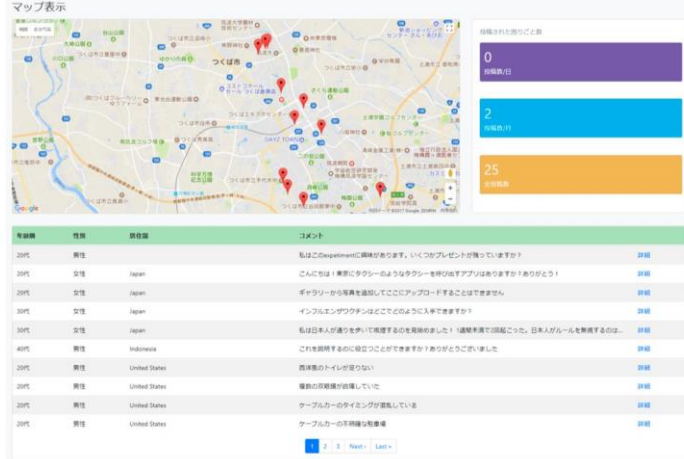



Yi Chen, Jin Nakazawa, Takumi Tomiyasu, Takafumi Kawasaki, and Hideyuki Taniuchi, 2016, An Empirical Study on Coverage-Ensured Automotive Sensing using Door-to-door Garbage Collecting Trucks, In Proceedings of the 2nd International Workshop on Smart (Smart)Cities '16, ACM, New York, NY, USA, Article 6, 6 pages. DOI: https://doi.org/10.1145/2903912.2903913



赤い点 (データ投稿ボタン)

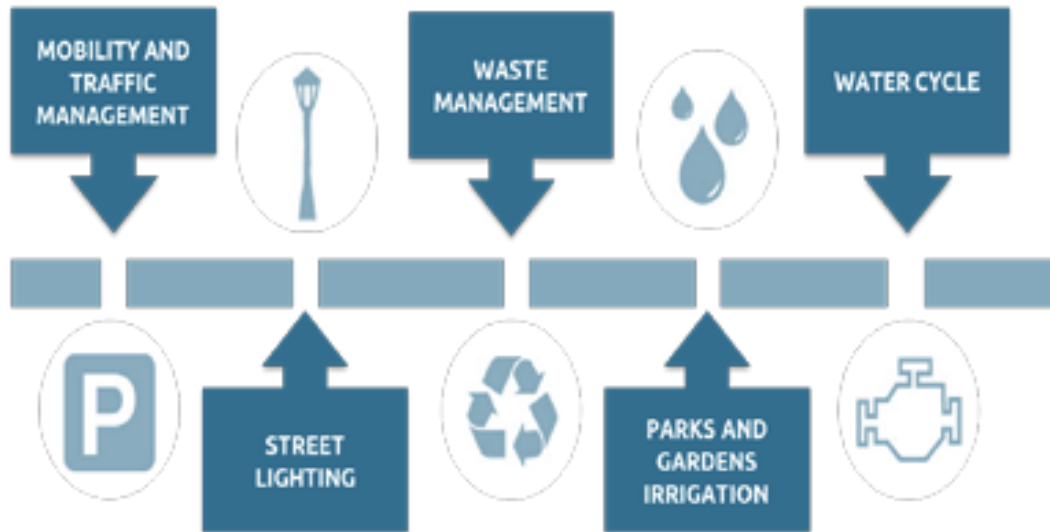
マップ表示



登録順	性別	国籍	コメント	日時
20件	男性		私はこのDevelopmentに興味があります。いくつかコメントが残っていますか？	2016
20件	女性	Japan	こんにちは！東京にタクシーのようなタクシーを呼び出すアプリはありますか？ありがとうございます！	2016
20件	女性	Japan	チャットから写真を送信してここにアップロードすることはできません。インフルエンザワクチンはここでどのように入手できますか？	2016
20件	女性	Japan	私は日本人が語りかけてくれるのを期待しています！通報手続で問題ありません。日本人が興味するものを。	2016
40件	男性	Indonesia	これを調べるのに役立つことができますか？ありがとうございます！	2016
20件	男性	United States	西米州のトイレが汚い	2016
20件	男性	United States	運動の記録簿が欲しいです	2016
20件	男性	United States	サーブカークのデザインが素晴らしいです	2016
20件	男性	United States	ケーブルカーの写真を撮りたいです	2016

Santander

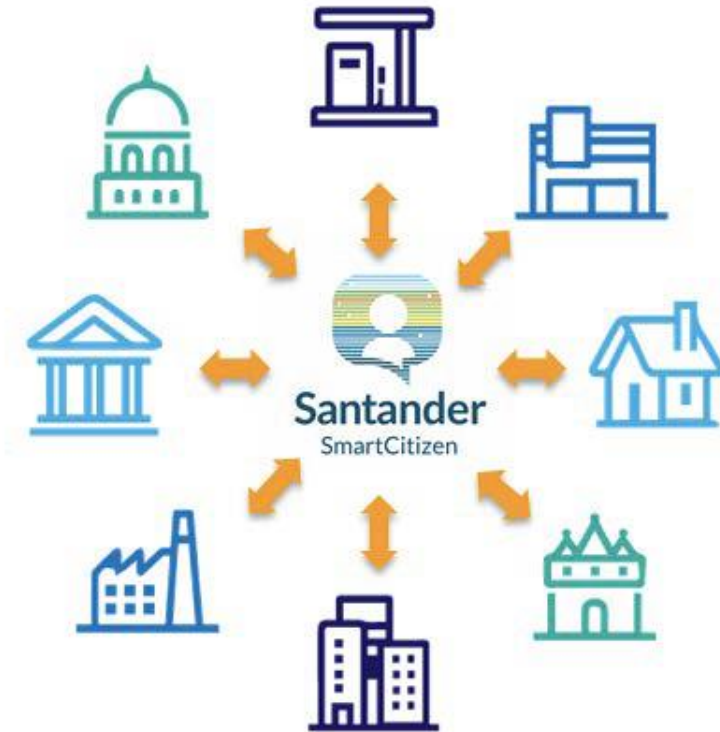
City scale testbed with about 10 000 IoT devices



Global Smart City Trends 2020
Smart City Platforms

“Smart City Santander”

Verónica Gutierrez
chief of Santander Smart City
Platform project, Telefonica.



Grenoble, capital of the Alps



Global Smart City Trends 2020
Smart City Platforms



“Grenoble – Alpes, smart & sustainable, the alpine city of tomorrow”
Florent Cholat
Mayor of Champagnier and Metropolitan Councillor of Grenoble Metropole



2018

— GRENOBLE —

THE SMART SUSTAINABLE CITY IN THE ALPS



Forbes

LES NOUVELLES DE
GRENOBLE | 158
JOURNAL D'INFORMATIONS DE LA VILLE | SEPTEMBRE-OCTOBRE 2013

- 1: EINDHOVEN
- 2: SAN DIEGO
- 3: SAN FRANCISCO
- 4: MALMO
- 5: GRENOBLE
- 6: STUTTGART
- 7: BOSTON
- 8: STOCKHOLM
- 9: MINNEAPOLIS
- 10: MUNICH

5-VILLE LA PLUS INNOVANTE DU MONDE

LES VILLES OÙ IL FAIT BON INNOVER

EXCLUSIF Le palmarès 2012 en réalité augmentée avec votre smartphone!
Téléchargez l'appli « L'Entreprise 3D » sur l'App Store ou sur Google Play pour découvrir les villes lauréates

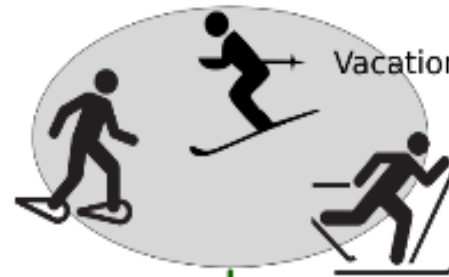
115 agglomérations classées



Smart ski resort testbed in Chamrousse/Pyeongchang



Ski resort staff



Vacationer

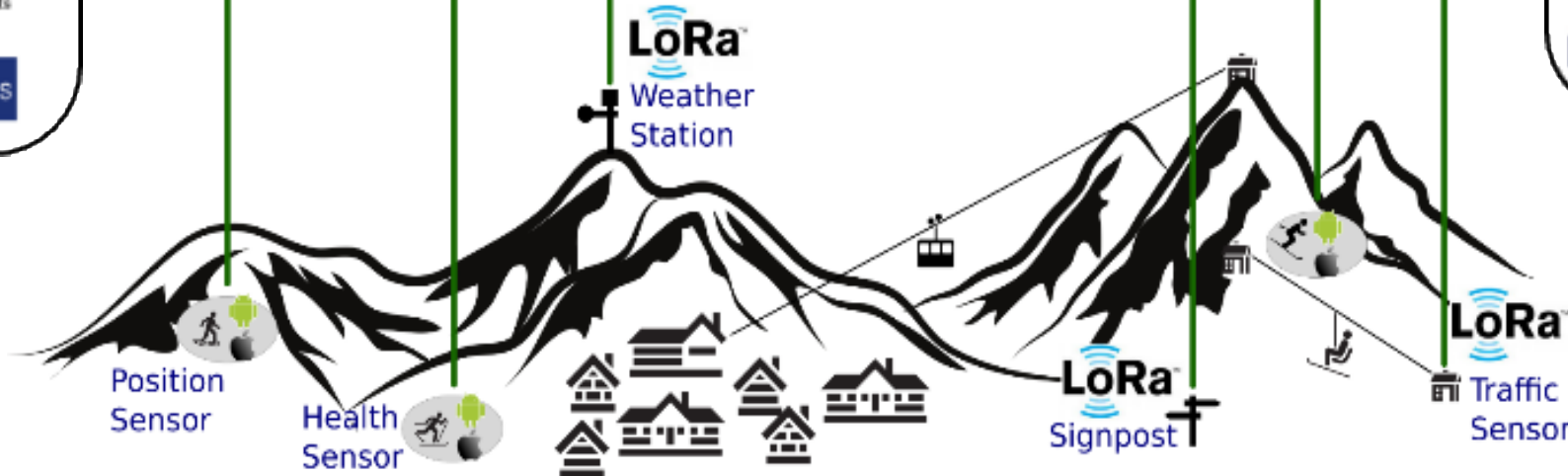


Tourism companies

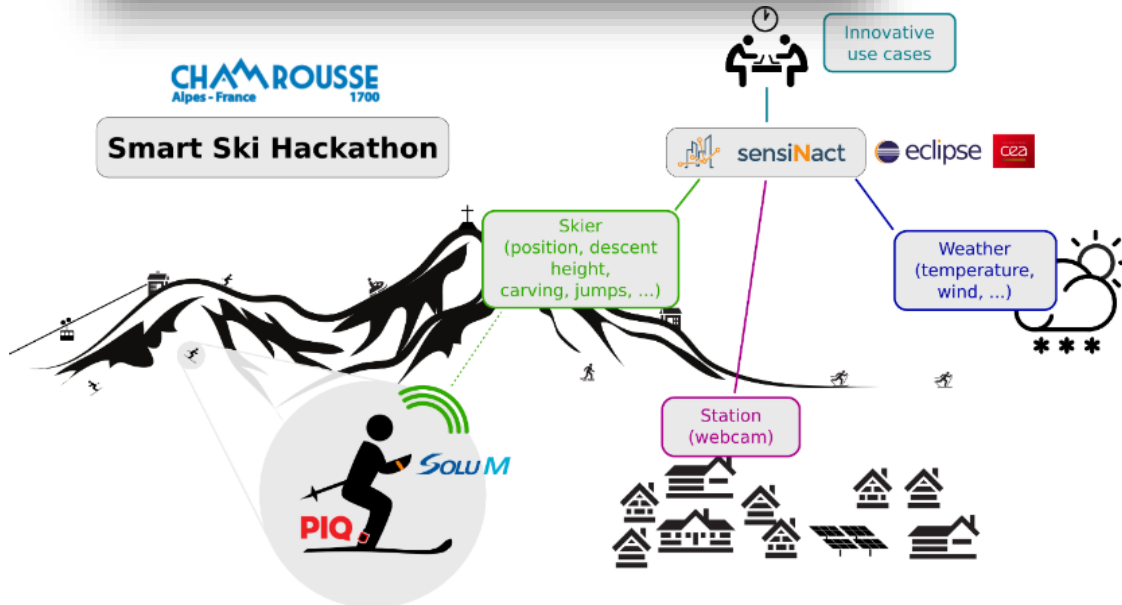
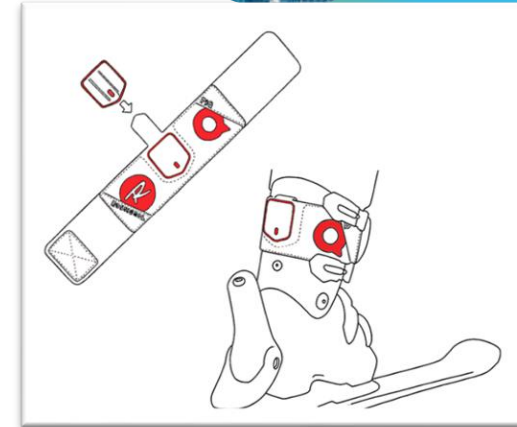
Skiing area status service,
traffic service,
snow quality service

Skiing area status service,
entertainment service,
skier profiling service

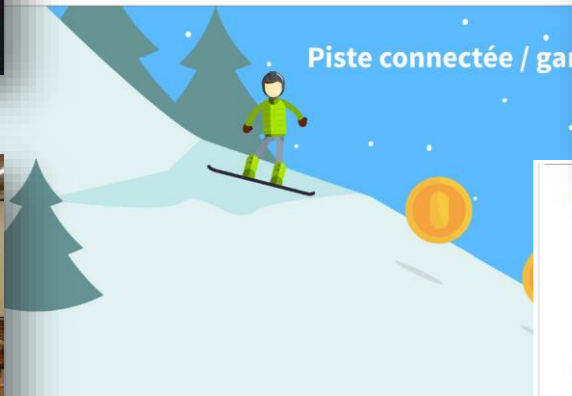
Entertainment service,
skier profiling service



Smart Ski Hackathon



Attracted huge interest at the regional, national and international level



Les 2 ados : une piste connectée spéciale gaming (points de passages, statistiques de performances, ...)

- 6/10 ont expérimenté les nouvelles activités et en sont satisfaits
- Affluence aux remontées & Dysfonctionnement
- +10% par rapport au week-end précédent
- 3/10 départs de secouristes ont été lancés par les bracelets connectés

+10% de clients par rapport au week-end précédent
6/10 ont expérimenté les nouvelles activités et en sont satisfaits
3/10 départs de secouristes ont été lancés par les bracelets connectés
Affluence aux remontées et dysfonctionnements du jour

And many others...



" WHAT IS
THE CITY
BUT THE
PEOPLE? "

W. Shakespeare

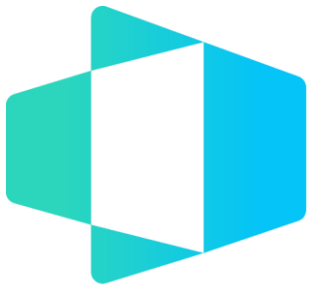
Thank you for your attention!

www.urbantechnologyalliance.org

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

contact@urbantechnologyalliance.org



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