

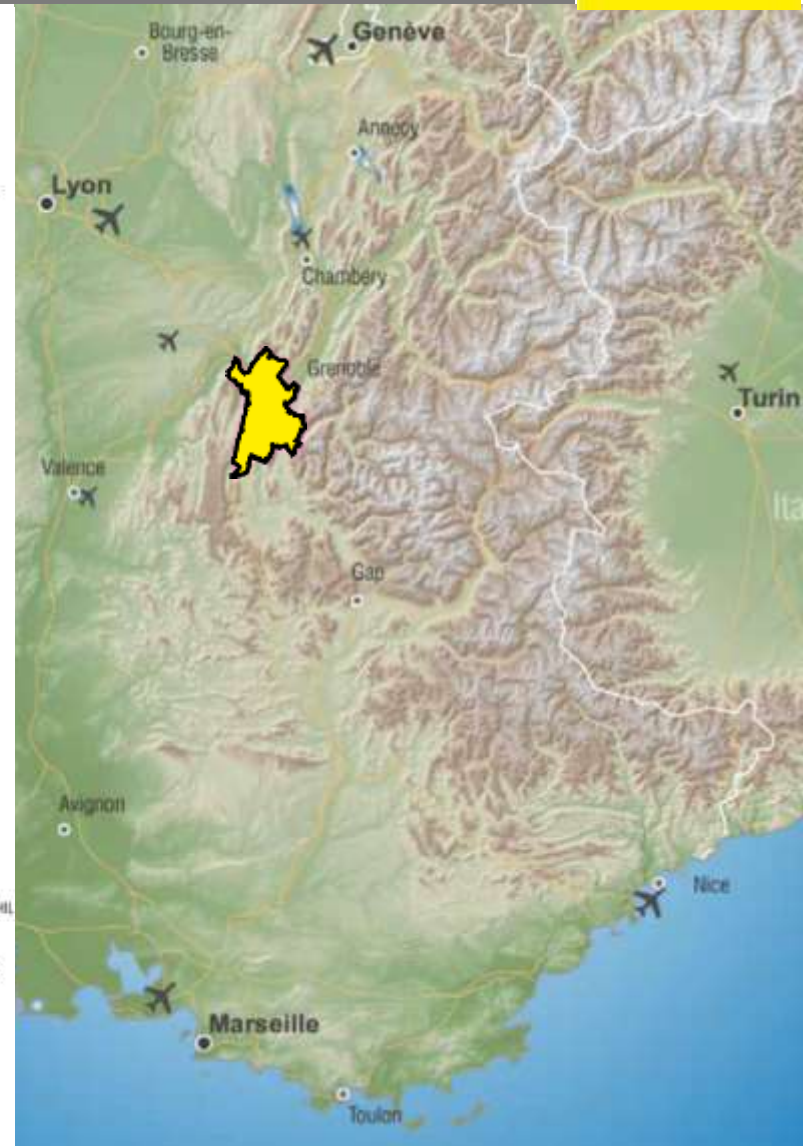
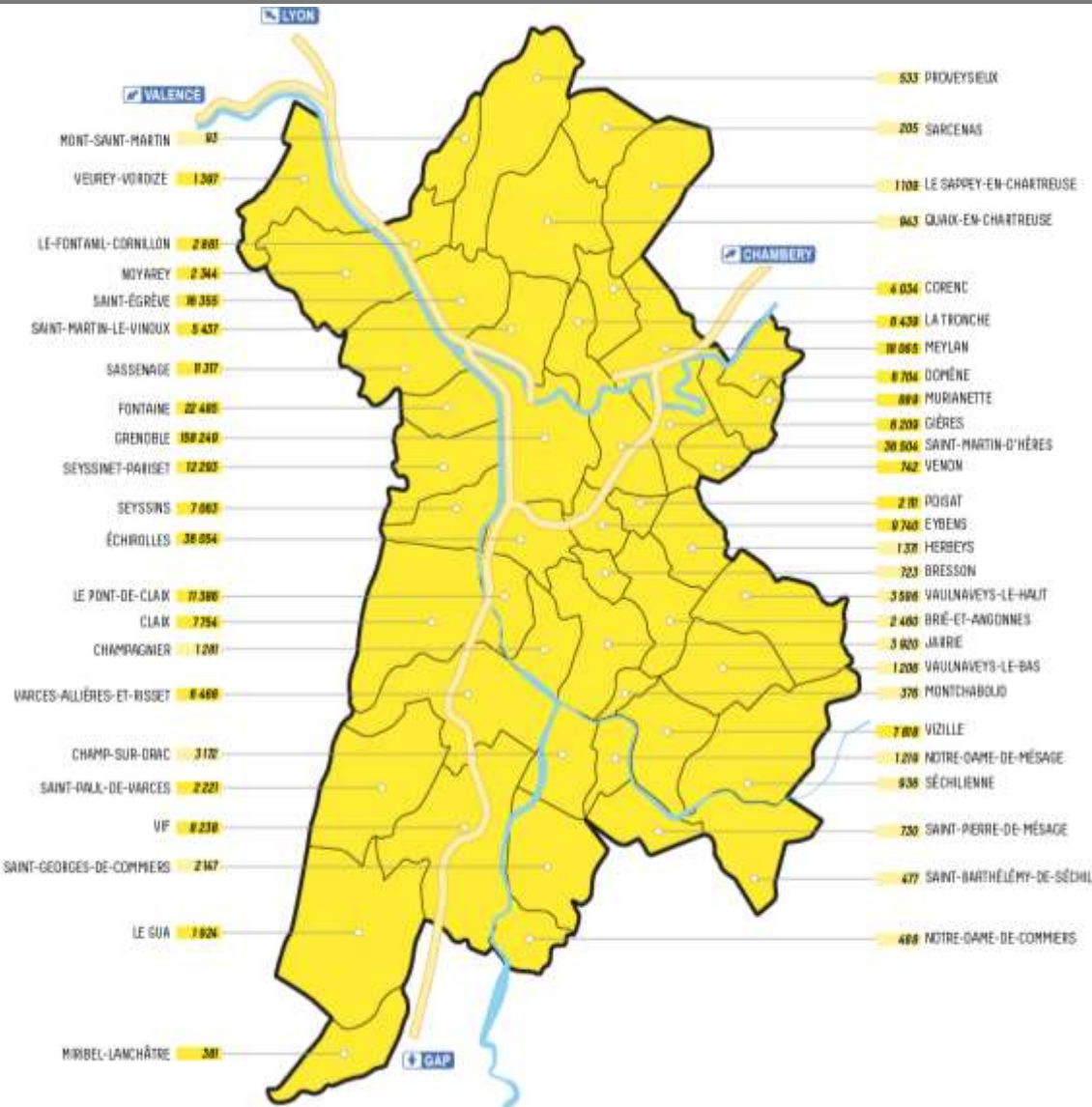
Constructing a Sustainable Smart City Development

**Grenoble-Alpes
Metropole**

Toyota City

17 May, 2019 Metropole Grenoble-Alpes — Toyota

GRENOBLE METROPOLITAN COMMUNITY



GRENOBLE-ALPES METROPOLE



**450,000 inhabitants – 220,000 jobs
within an urban area of 700,000
inhab.**

**A YOUNG AND EDUCATED
POPULATION:**

- 33% is under 25
- 30% has completed at least 2 years of higher education

63 500 STUDENTS

10.6% of them are international

INNOVATIVE & ATTRACTIVE

QUALITY OF LIFE



Toyota City



- Area : 918 km²
- Population : 420,000
- Automobile industry flourishes
- Value of manufactured shipments is No.1 in Japan
- 70 % is forests areas



SDGs future City(2018~)



- Everybody is connected To be connected to Future Smart City



Study Tour of Toyota in Grenoble-Alpes Metropole (1)

from 3 October to 5 October , 2018



Study Tour of Toyota in Grenoble-Alpes Metropole (2)

from 3 October to 5 October , 2018



For development of Action plan - Views for Toyota

- (1) More Convenient Public Transportation**
- (2) Production and Use of Local Energy**
- (3) Citizens' Behavior Change**

Study Tour of Grenoble-Alpes Metropole in Toyota

from 14 to 16 May, 2019

**Key Learnings: *Toyota's Good Practices from
the viewpoint of Grenoble-Alpes***

1. Hydrogen

2. Citizen's Participation

3. Urban-Rural Nexus

Toyota: Sustainable Model District (2012~)



Smart House



Food Production in the Urban Area



Smart house made of local wood



Experience of personally mobility



FCV



Hydrogen Station



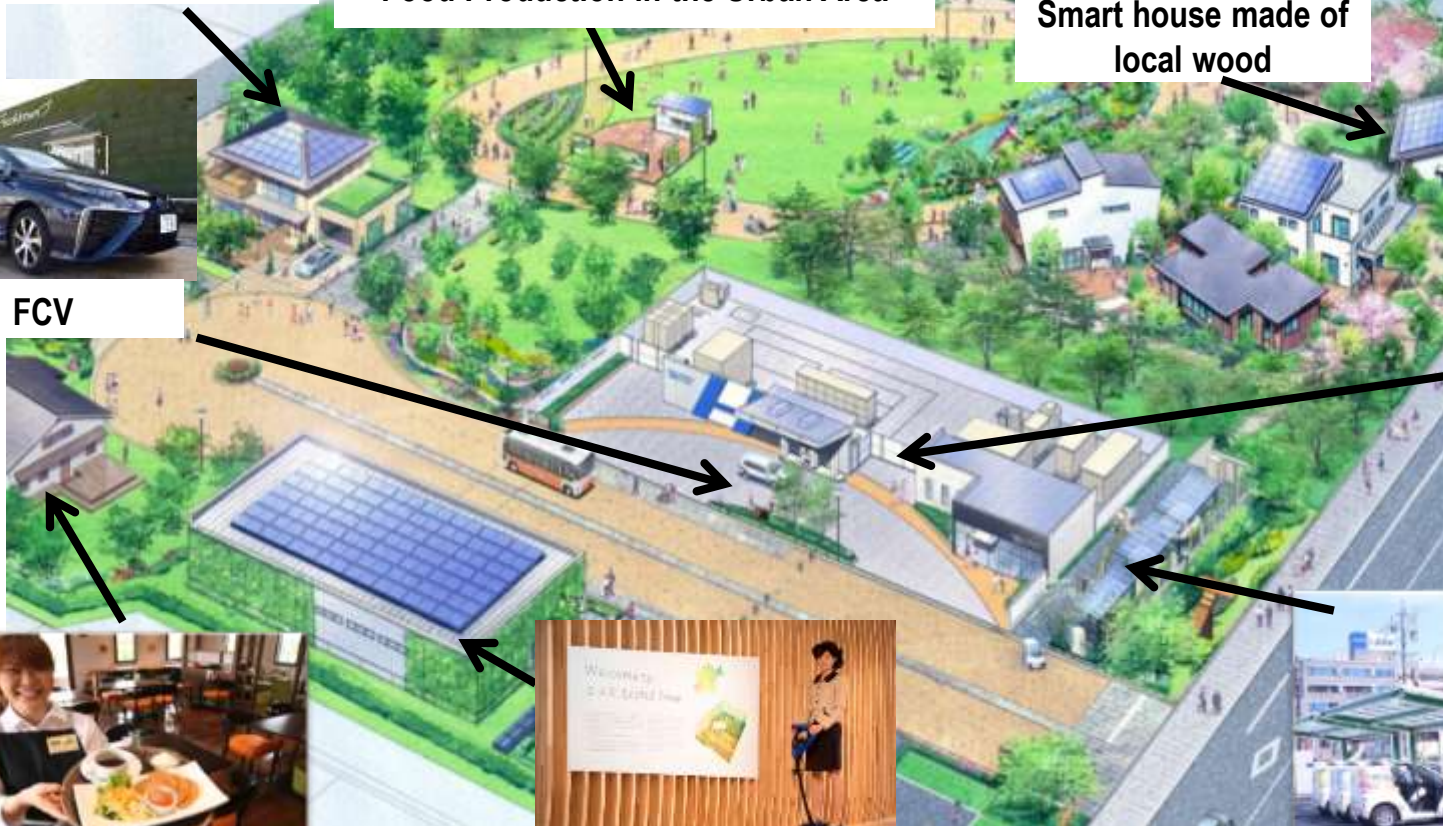
Farm-to-table restaurants



A object in pavilion

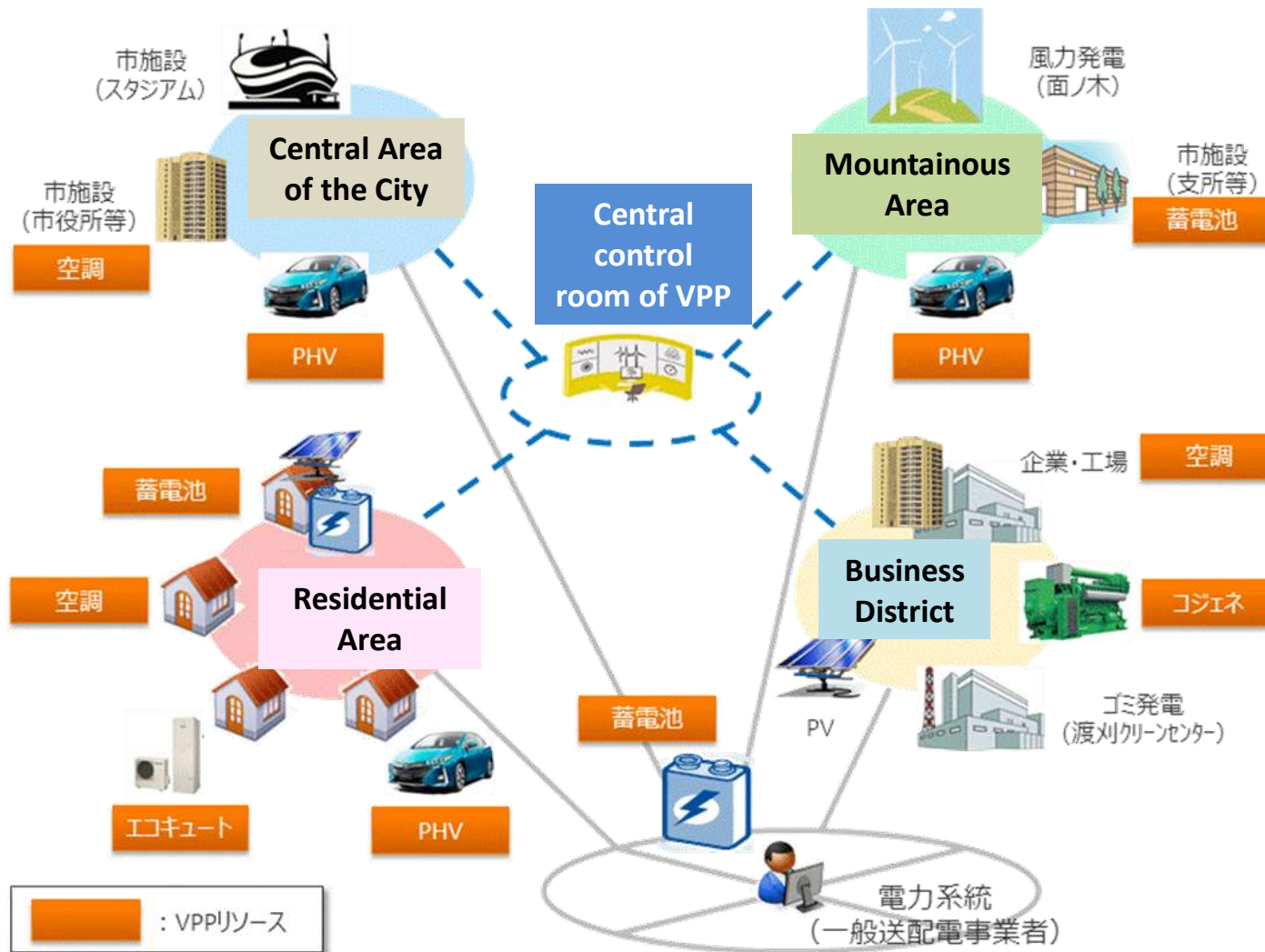


Smart Mobility Park



Toyota:Virtual Power Plant (VPP) Project (2017~)

- Contents:** Making a network of decentralized power generating units such as wind farms, incinerator plant, smart houses, PHVs, heat pump boilers, batteries, etc.



『Toyota City
“Connecting” Society
Verification Promotion
Council』

Object: Solving multiple local challenges

Project participants: 46

VPP Project Partners:

- Chubu Electric Power Company
- Denso Corporation
- Toyota Motor Corporation
- Toyota Turbine and Systems Inc.
- Toyota City

68% of Toyota is forestry

Urban - Rural Nexus

City of Car Manufacturing - Agriculture and Forestry

Ecoful Town – Oiden Center

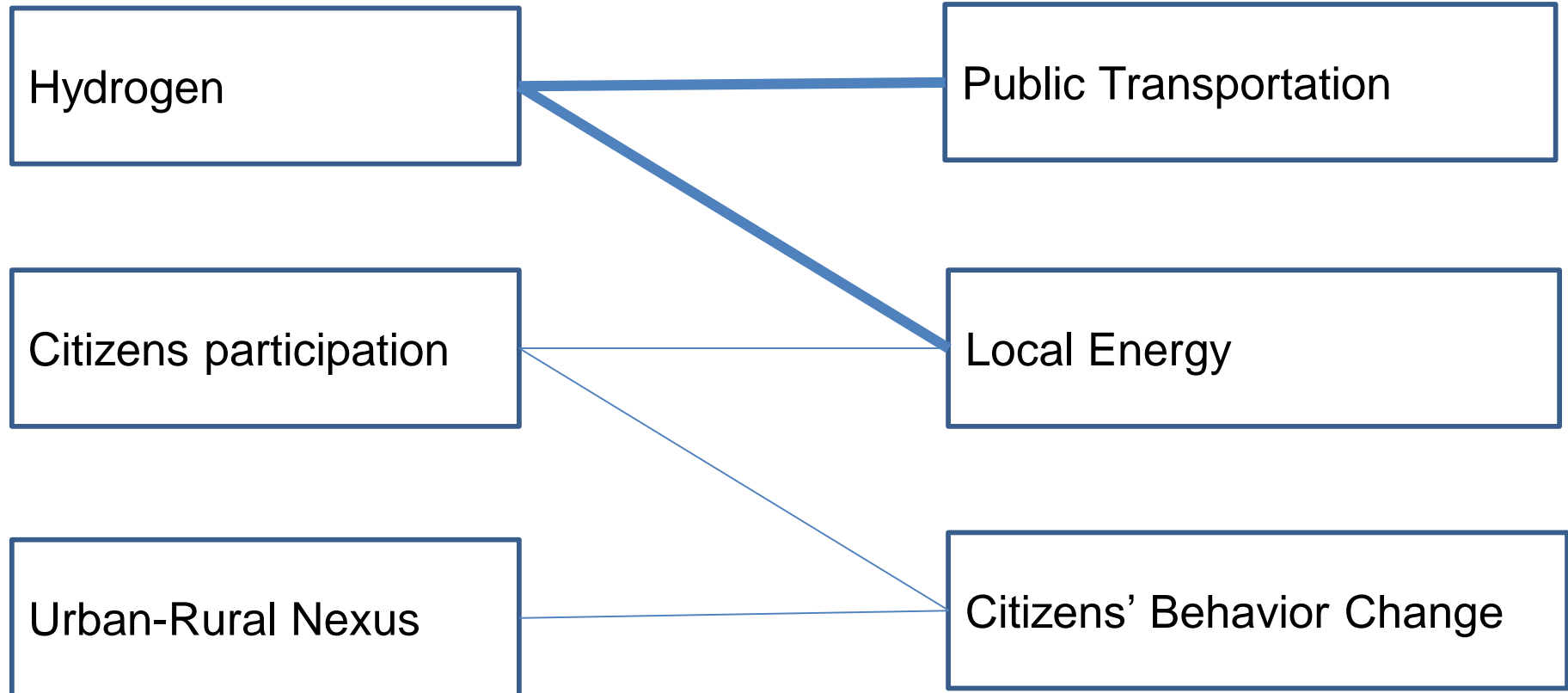
SENTAN – Tsuku-rassel



Action Plans: Objectives and Activities

Interested Issues for Grenoble-Alpes
to learn from Toyota

Interested Issues for Toyota
to Learn from Grenoble-Alpes



Thank you