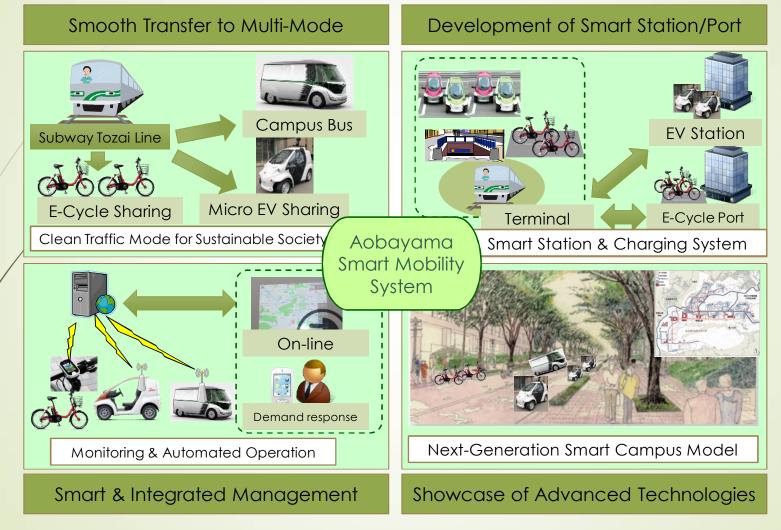
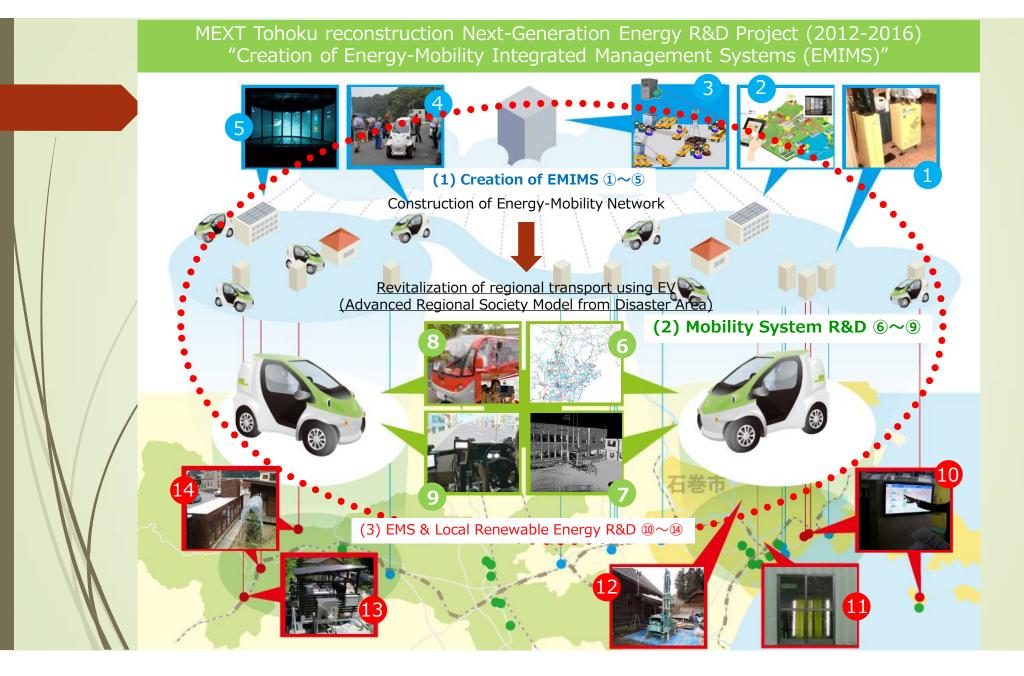
Next-Generation "Regional" Transport using Automated Driving Technology and Special Ward for Field Practice

> Takahiro SUZUKI NICHe, Tohoku University



# Aobayama Campus Smart Mobility Vision (Planning)





Inspections inside and outside of the country to Miyagi Reconstruction Park (Tagajo city)



Shinzo Abe, Prime Minister (Dec. 2013)



T. Nemoto, Minister of Reconstruction Agency (Sep. 2013)



Shinziro Koizumi, Reconstruction Parliamentary Secretary (Aug. 2014)



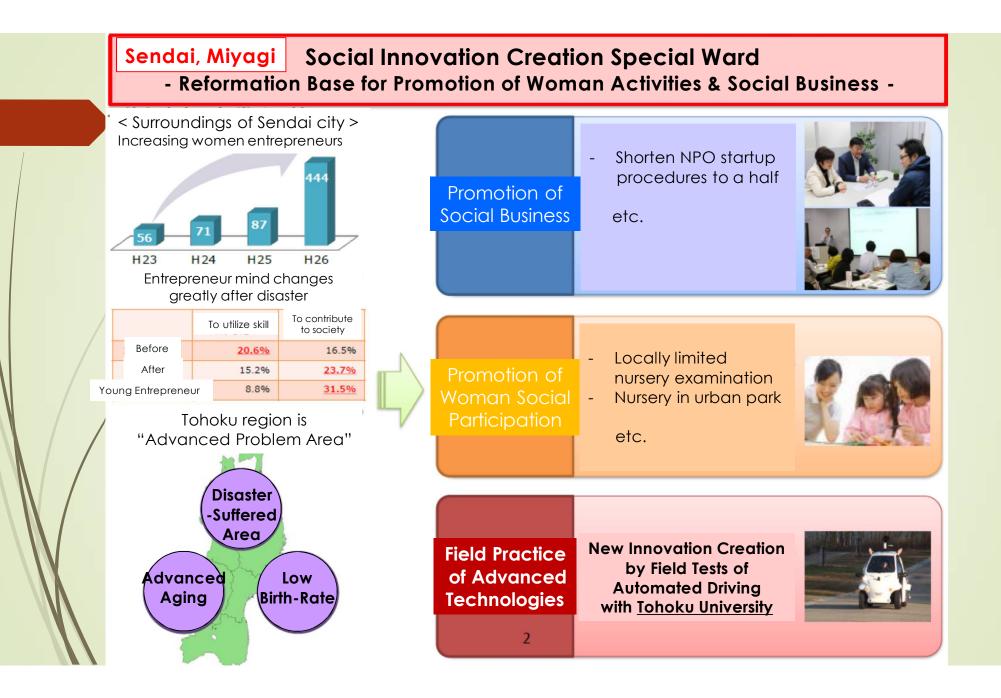
Sadayuki Sakakibara, Chairman of Keidanren (Jul. 2014)



Shoichiro Toyota, President Emeritus of Toyota Motors (Nov. 2014)

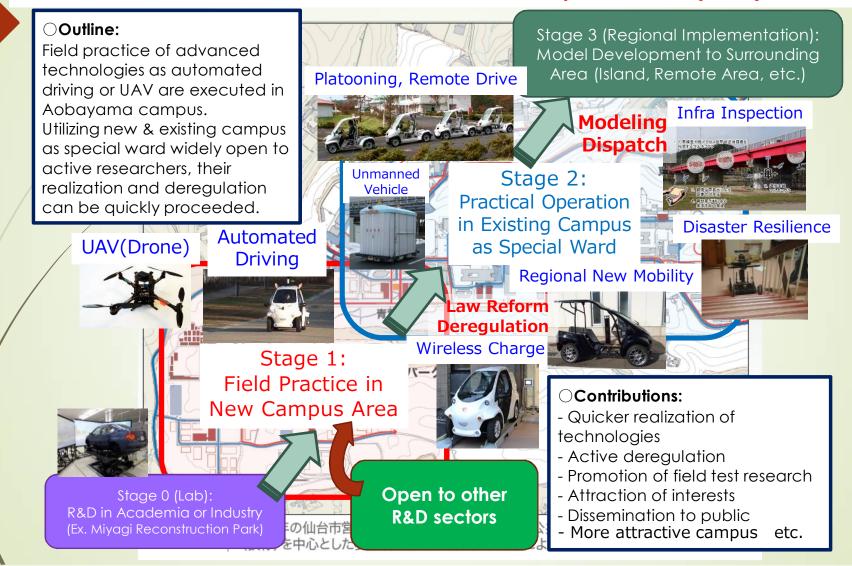


Mali Republic (Africa) (May, 2014)



#### Advanced Technology Field Practice Special Ward :

"Creation of Aobayama Campus Next-Generation Advanced Mobility System Practice Field" => Authorized as "Sendai Social Innovation Creation Special Ward" (2015)



## Advanced Mobility System Practice Field Plan

Advanced Mobility System <u>Practice Field</u> (Open Practice Field / Demonstration Field)

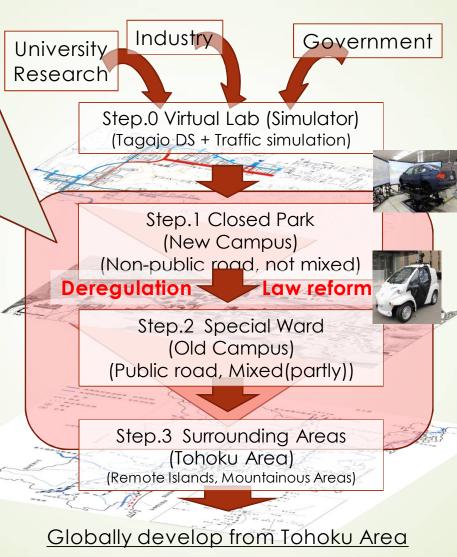
#### For Researcher :

- Hatchery / Nursery / Practice Field
- Utilize Closed Park / Open Road
- Verification of Social Receptivity
- Dissemination to Public
- Advanced Marketing
- R&D considering Practical Needs

#### For Users & General People :

- Attraction of Advanced Technology, Experience of "Near-Future"
- Improvement of Understanding
- Creation of Near-Future Image
- Participation to Near-Future R&D
- Human Resource Creation

Conventional closed R&D Field



#### <u>R&D Support</u>

- Practice Field Operation Real & Virtual Proving Ground
- Open Lab (PJ Space) widely open to other sectors
- MICE function (seminars)
  Public Relations
- Global Cooperation Hub Tele-Conference, Travel Support, Accomodation

#### **Supporting Dissemination**

- Showcase & Demonstration cooperate w/ top researchers
- Correspondence to Inspection
- Human Resource Development
- Experience Lab

#### Incubation

- Support Industry-Academic
- Collaboration
- Industrialization Support
- VC

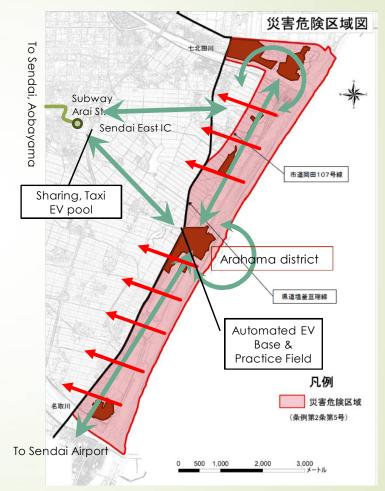
# Ex. Jeju Global Smart Grid Platform



## Field Practice in Disaster Damaged Area for Reconstruction

### Automated Driving Practice Field Plan

- Reform the coastal disaster-damaged area to a practice field for automated driving to solve problems of regional public transport
- Propose a model of "Last-One-Mile" new mobility system and demonstrate field practice
- Area : Arahama district (disaster-damaged area)
- /Future Plan
  - Ordinary : Transport in area and connecting to transport hub
    - (Last one mile, Robot taxi, etc.)
    - => making workable area in the district
  - In Emergency : Smooth evacuation to higher place
- Unmanned inspection, surveillance for evacuee (Utilize autonomous vehicle, drone, etc.)

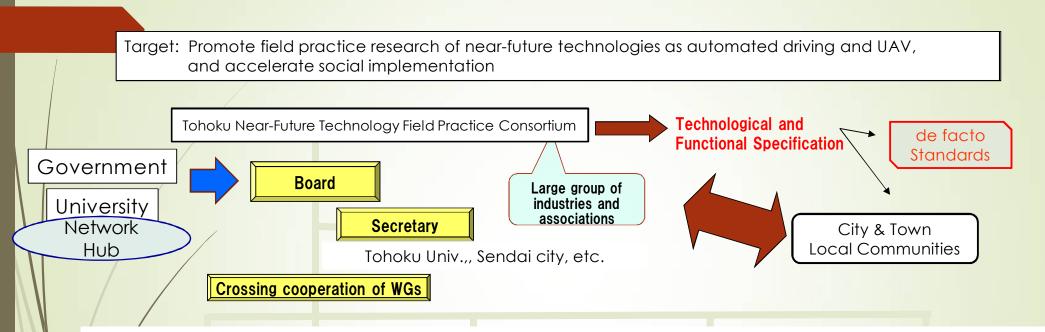


# "Car-sharing" to create "community" (in Ishinomaki)



Japan Car-Sharing Association: http://www.japan-csa.org/

## "Tohoku Near-Future Technology Field Practice Consortium"



- Workgroups for Automated Driving, UAV, or other technical fields
- Workgroup for legal and social issues (supporting law reformation and deregulation by national government) etc.

