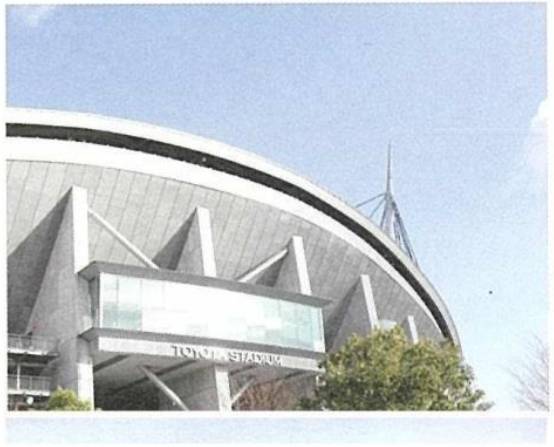


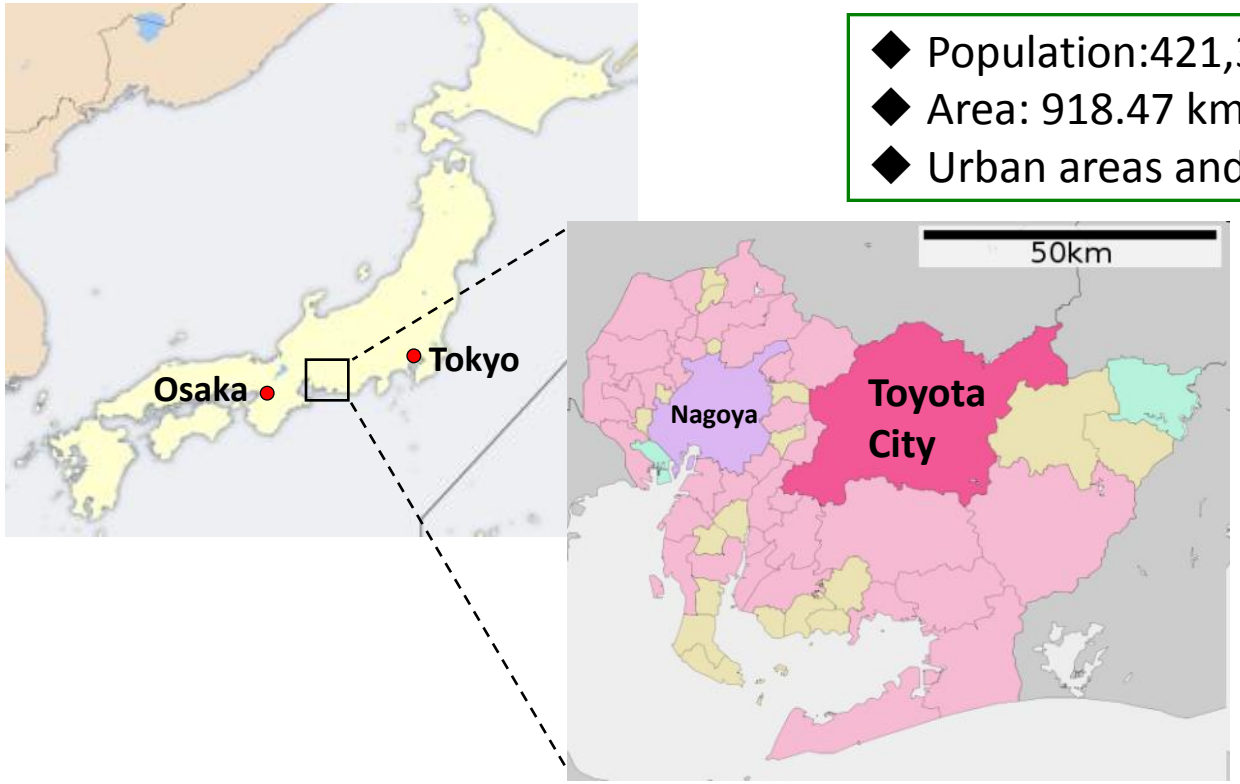

# Community Planning Towards an Eco & User- Friendly Transportation System

**Toyota City**

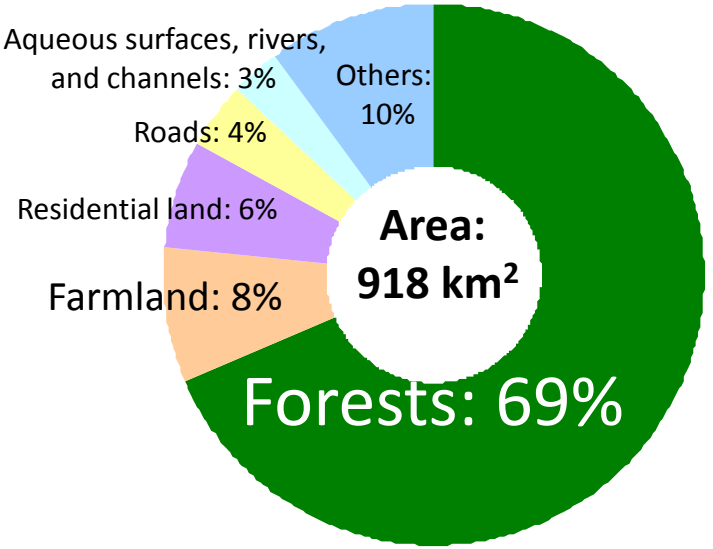




# Overview of Toyota City

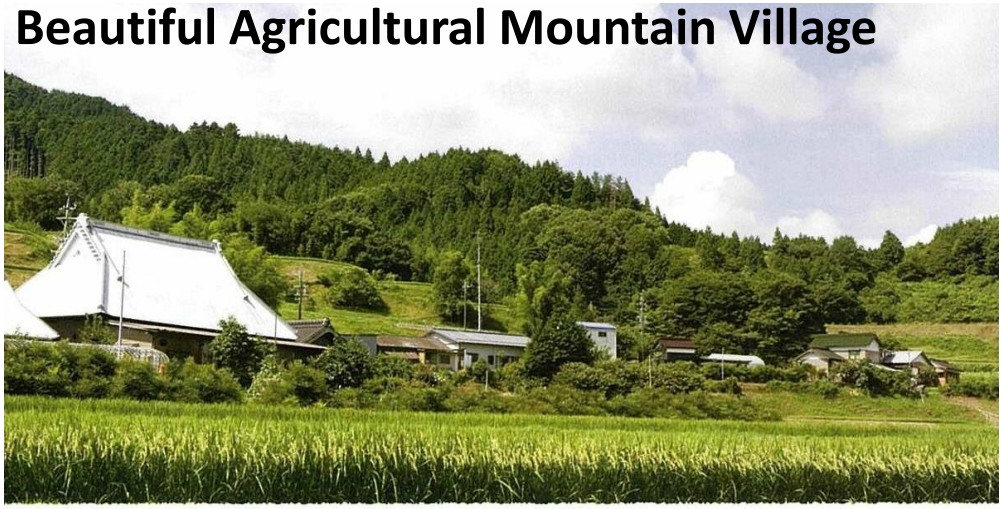



- Population:421,316 (as of March 1, 2015)
- Area: 918.47 km² (18% of Aichi Prefecture)
- Urban areas and hilly & mountainous areas coexist.

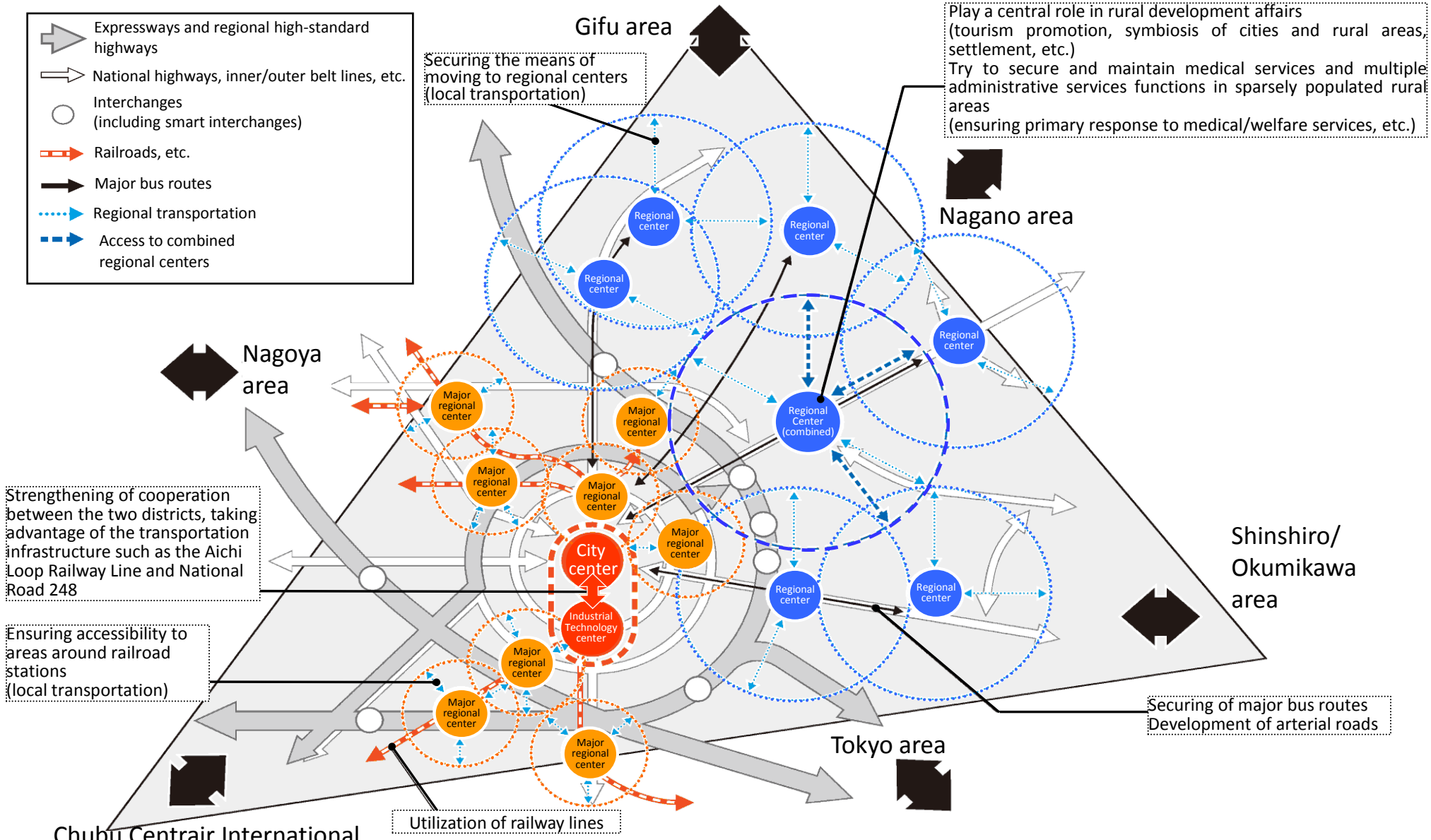



## Toyota Motor Corporation Head Office

## Beautiful Agricultural Mountain Village

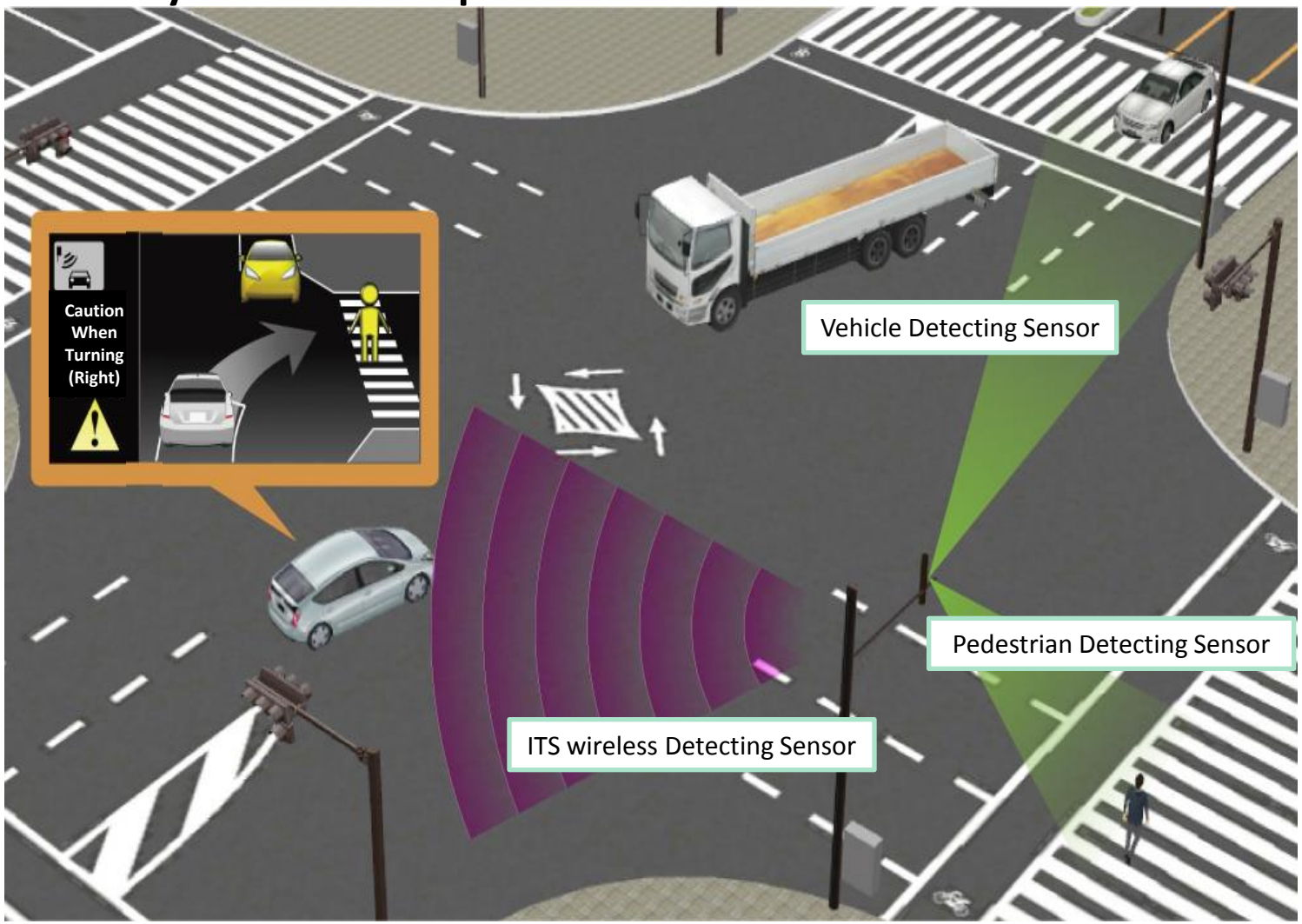


# Illustration of the future city structure (a multi-core networked city)

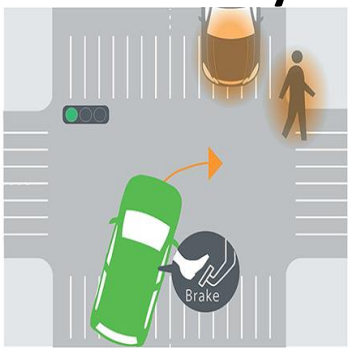


# Driving Support System Utilizing ITS

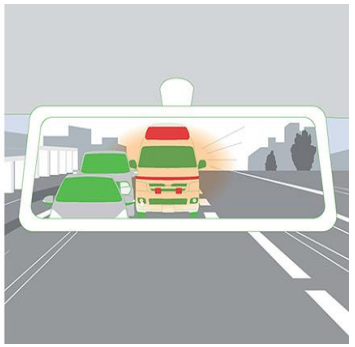
- **Support safety driving by collecting data such us people or cars in blind spots, traffic signals, etc. with wireless connection**
- **Toyota Motor Corporation started ITS Connect service in the central area of the city**









# Construction of a Public Transportation Network

## Construction of a citywide bus network


**Number of bus users (FY2014)**

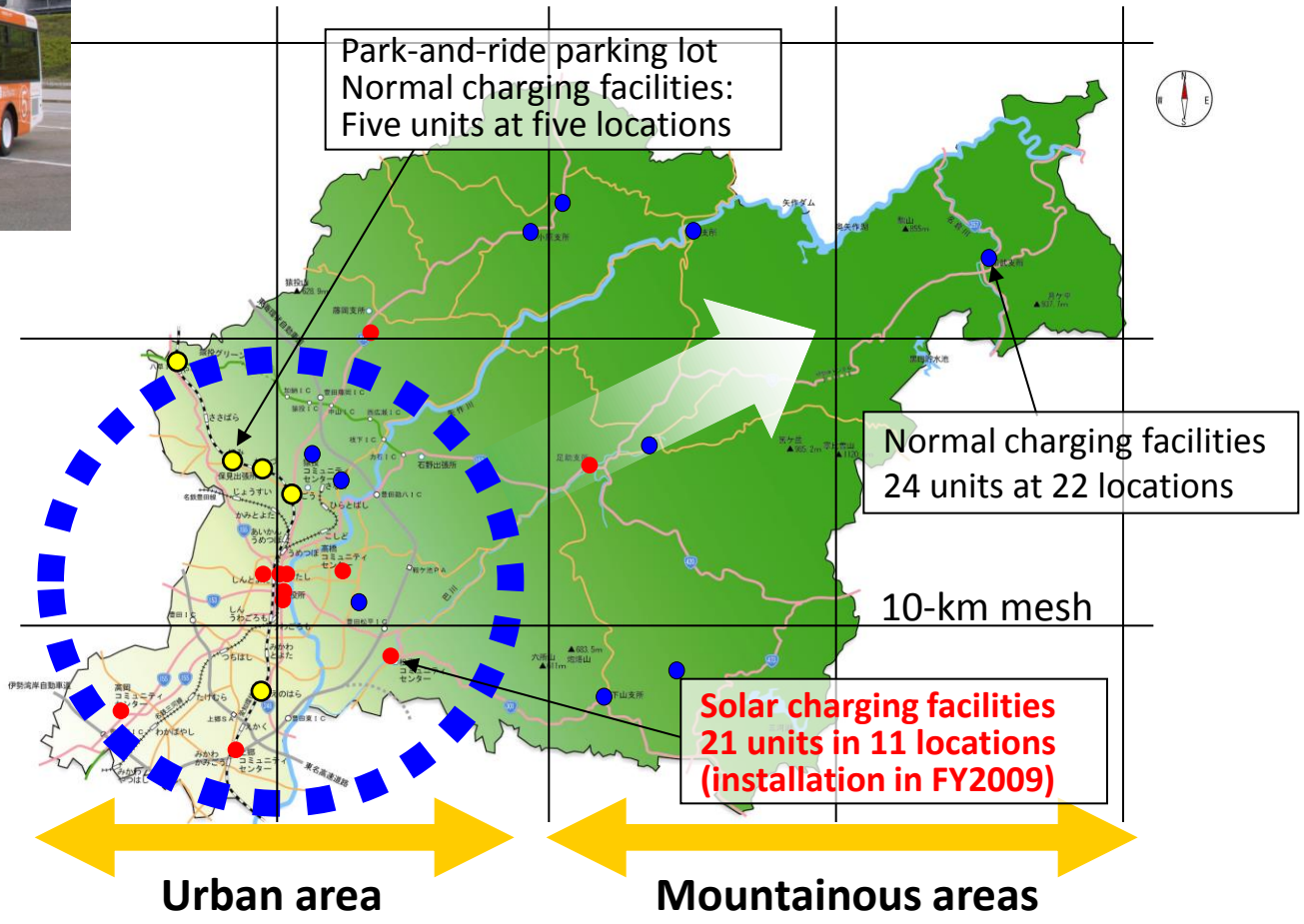
**About 2.44 million people**

Major buses: 2.16 million people
Local buses: 280,000 people

**Solar charging facility**

**Subsidies for purchases of next-generation automobiles (Maximum of ¥150,000 for EVs and PHVs)**
**Subsidies for installation of charging facilities (additional ¥50,000)**

**Construction of public charging facility networks (33 units in 22 locations)**
**Development of rapid charging and normal charging equipment by private companies**



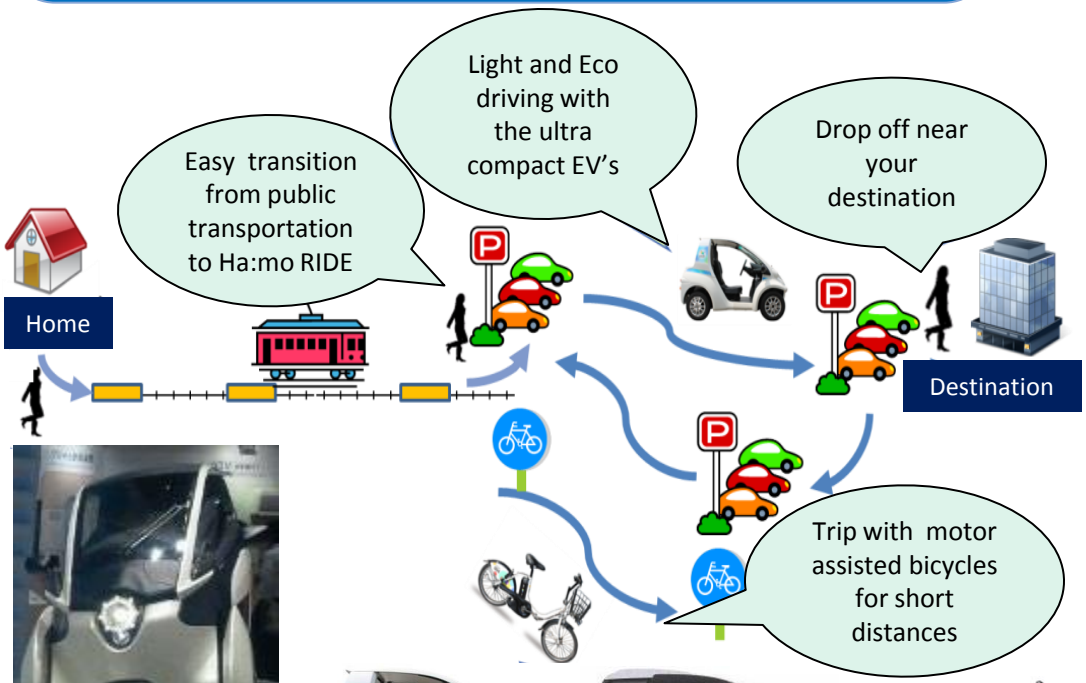
# Ha:mo RIDE

link

# Ha:mo NAVI

<Target>
1.Promote public transportation use while ensuring the convenience of users
2.Contribute to community energy management by controlling battery charging

<Target>
1. Connect transportation services according to the traffic situation
2. Support realizing a low-carbon & a seamless transportation system



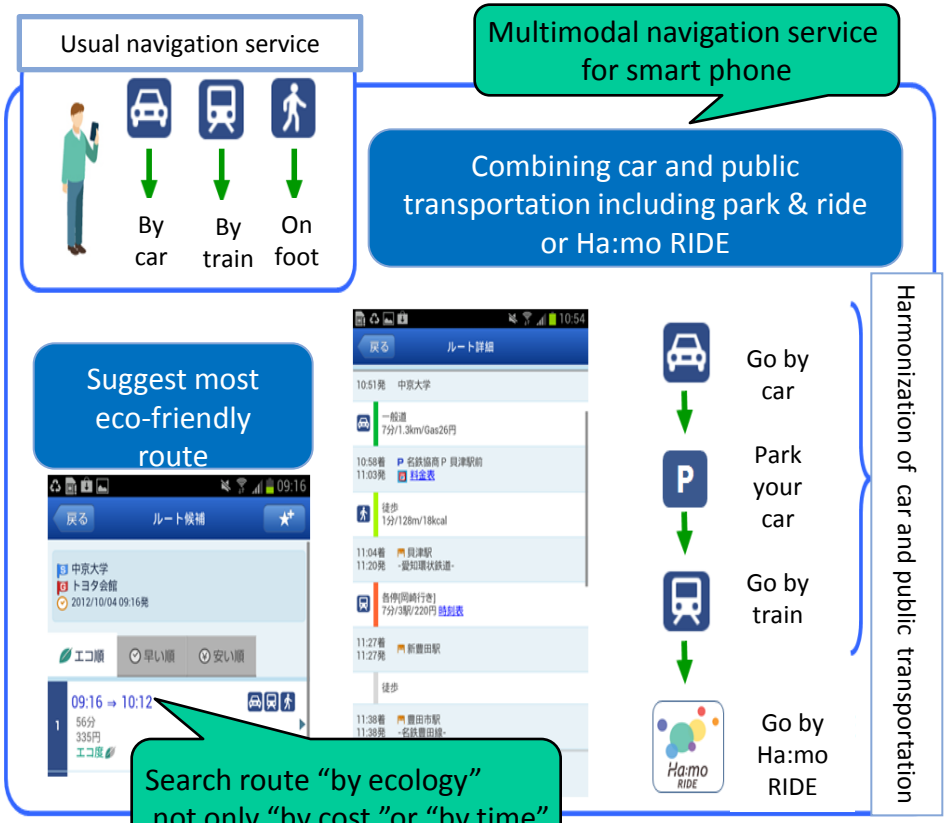



i-ROAD

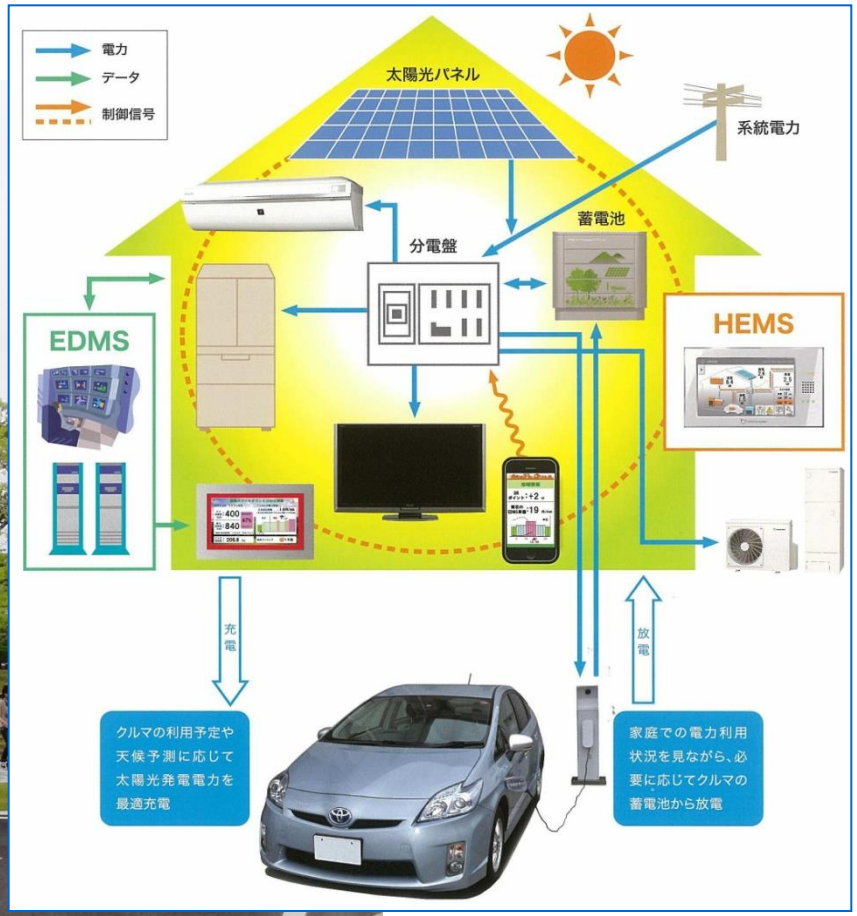
P-COM

T-COM

PAS



# Optimization of Energy Use at Home



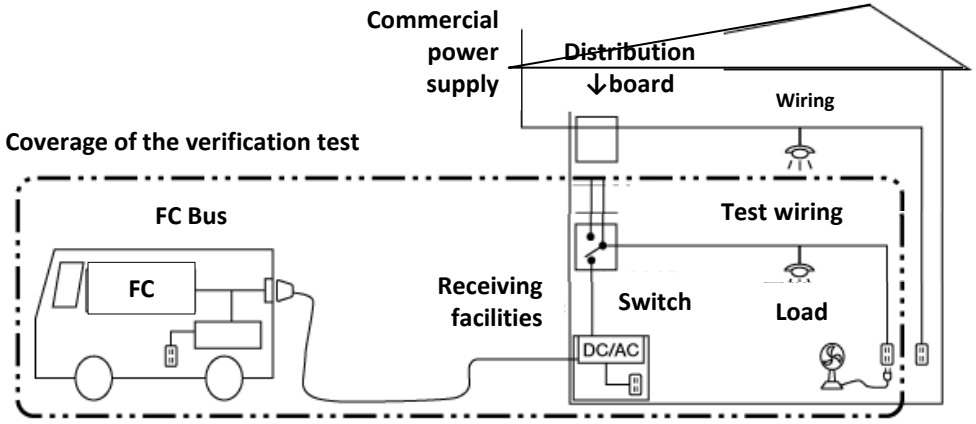

**Demonstration Area**

**(Higashiyama Housing Development)**

$CO_2$ Reduction Target: 70% cut per household (comparing with 2005)

# Optimization of Energy Use for Commercial & Public Facilities





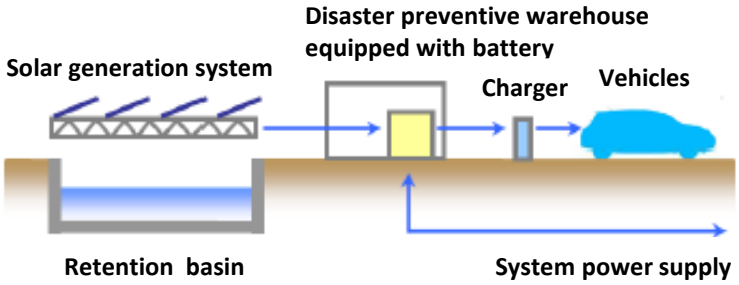

**FCV's are expected to play an active role as a running power station when natural disasters strike or at the peak of electricity demand**

# Start a New Community Planning Utilizing the Result of the Verification Test

- Start constructing the “Smart Eco Town Toyota Kakimoto” utilizing the result of the verification test
- Realization of a *Net Zero Energy Town* with 21 houses and 27 apartment houses
- Scheduled to start occupancy by the end of 2016


■Visualization of energy use of the whole living sphere

■Energy supply to security lights from the solar power generation system or EVs



**Thank you for your kind attention!**