

***EST Plenary Session 1:Decarbonizing Transport Sector towards Net Zero
by 2050***

Aichi's Measures for Realizing Sustainable Cities and Transport

~ Environmentally Sustainable Transport ~



High-Level Intergovernmental 14th Regional Environmentally Sustainable Transport Forum in Asia



Tuesday, October 19, 2021

Aichi Prefecture's Regional Features

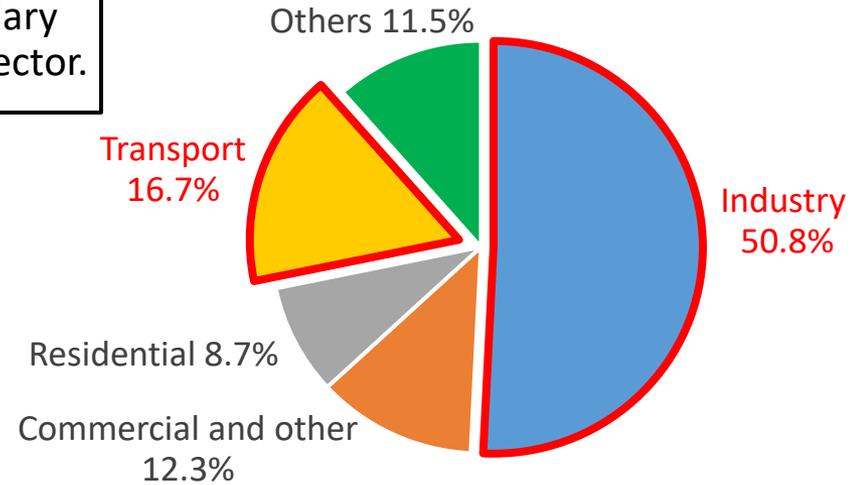
- Located almost in the center of Japan, Aichi Prefecture has excellent transport links by land, sea and air, encompassing expressways, Shinkansen bullet trains, Nagoya Port, and Chubu Centrair International Airport. In addition, the Linear Chuo Shinkansen, expected to connect Tokyo and Nagoya in 40 minutes, is scheduled to start services.
- Aichi is the No.1 prefecture in Japan in terms of industrial clusters and trade surplus.



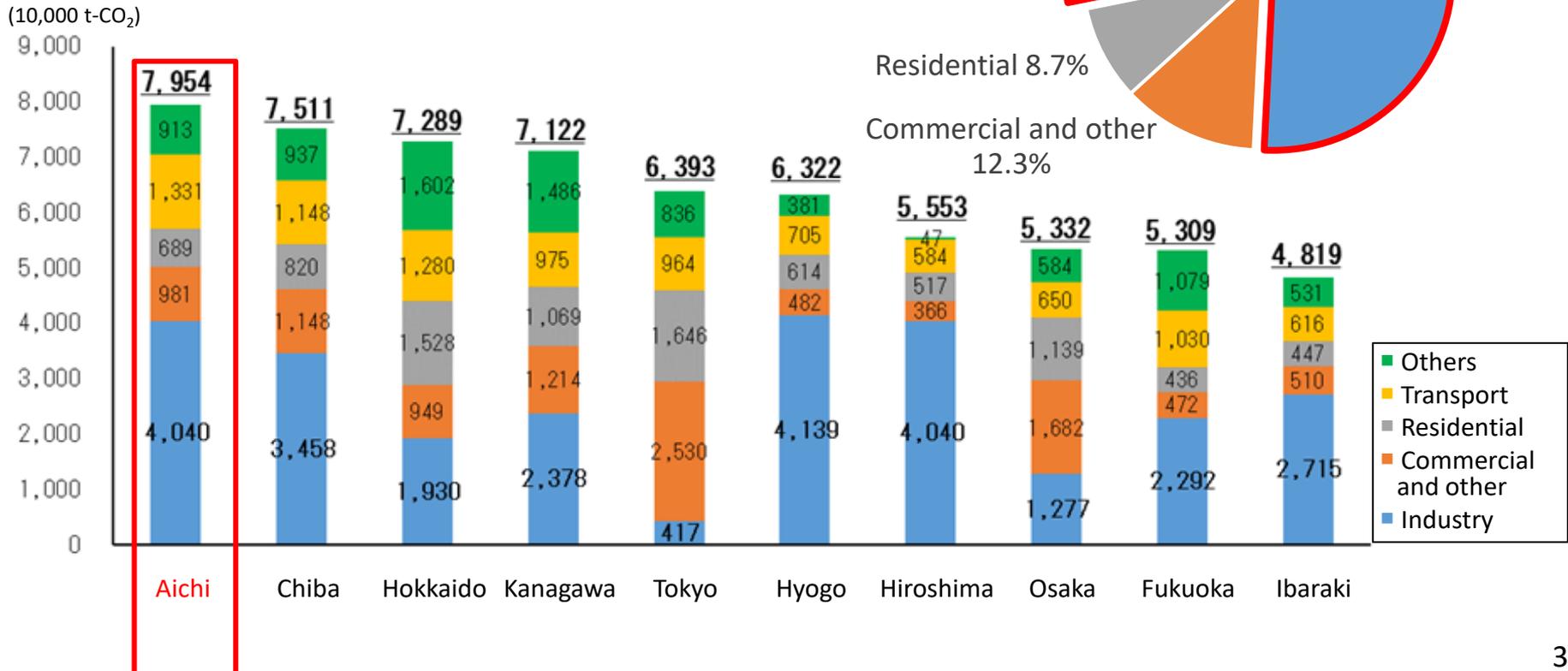
Aichi Prefecture's CO₂ Emissions

- Aichi Prefecture is Japan's largest CO₂ emitter.
- Of the prefecture's total CO₂ emissions, approx. 50% comes from the industrial sector (primary and secondary industries), while approx. 20% is from the transport sector.

<Aichi Prefecture's CO₂ Emissions>



<CO₂ emissions (of the 10 largest CO₂ emitting prefectures)>



Sources: Documents released by the relevant local governments (FY 2018 figures are used for Aichi Prefecture.)

Measures for Land Transport

○ Aichi Prefecture is striving to achieve sustainable and smart forms of transport by, for example, encouraging the widespread use of FCVs, EVs and PHVs, spreading the use of low-speed electric carts, performing demonstration tests of automated driving and MaaS toward societal implementation, and promoting Eco-Mobility Life to enable smart and appropriate use of automobiles and means of public transport depending on the situation.

<FCV (MIRAI)>



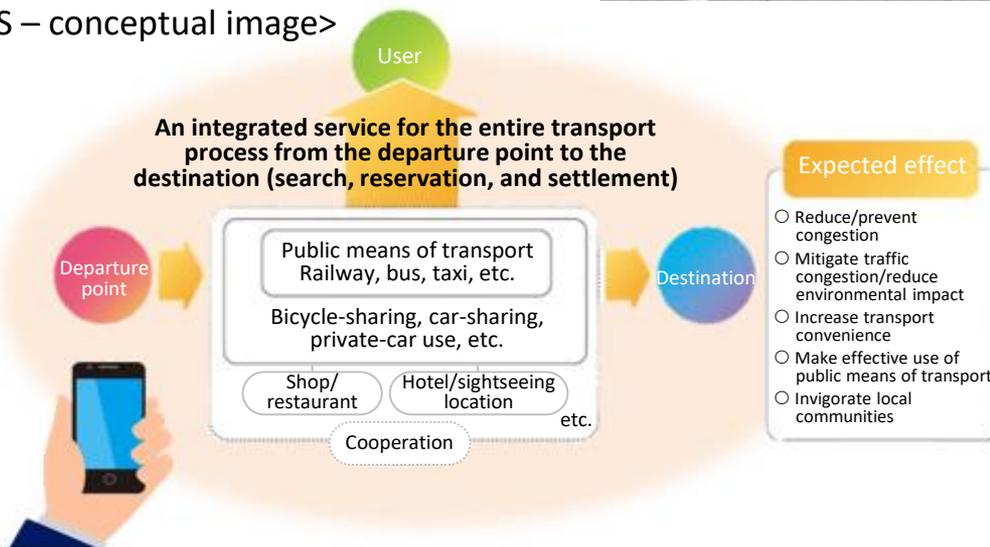
<Low-speed electric cart (on Himakajima Island, Minamichita Town, FY2020)>



<Vehicle of a demonstration test for automated driving (airport island)>



<MaaS – conceptual image>



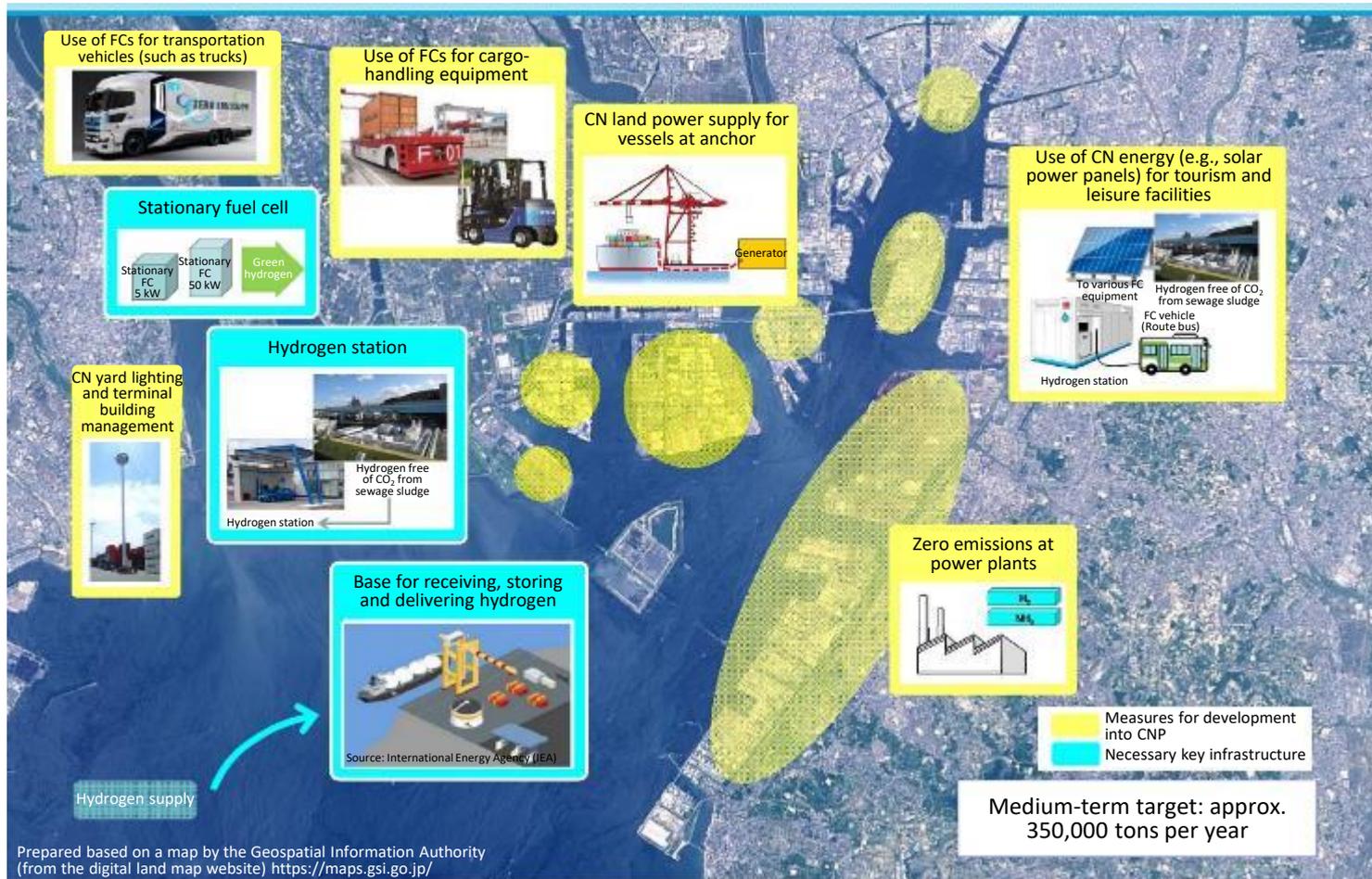
<Eco-Mobi: symbol logo>



Measures for Ports and Other Seaside Areas

- Aichi Prefecture is striving to develop Nagoya Port, Kinuura Port and Mikawa Port into carbon-neutral ports.
- Private companies are cooperating with one another in considering the use of hydrogen, which is expected to serve as a next-generation energy source.

<Conceptual image of a carbon-neutral port>



Measures for Airports

- Central Japan International Airport Co., Ltd. has announced the Centrair Zero Carbon 2050 Declaration to realize virtually zero emissions of CO₂ from its land facilities at the airport by 2050. The company is working on various measures, such as solar power generation and replacement with LEDs.

<Chubu Centrair International Airport>



<Solar power panels (in Terminal Building 1)>



<LED aeronautical ground lighting>



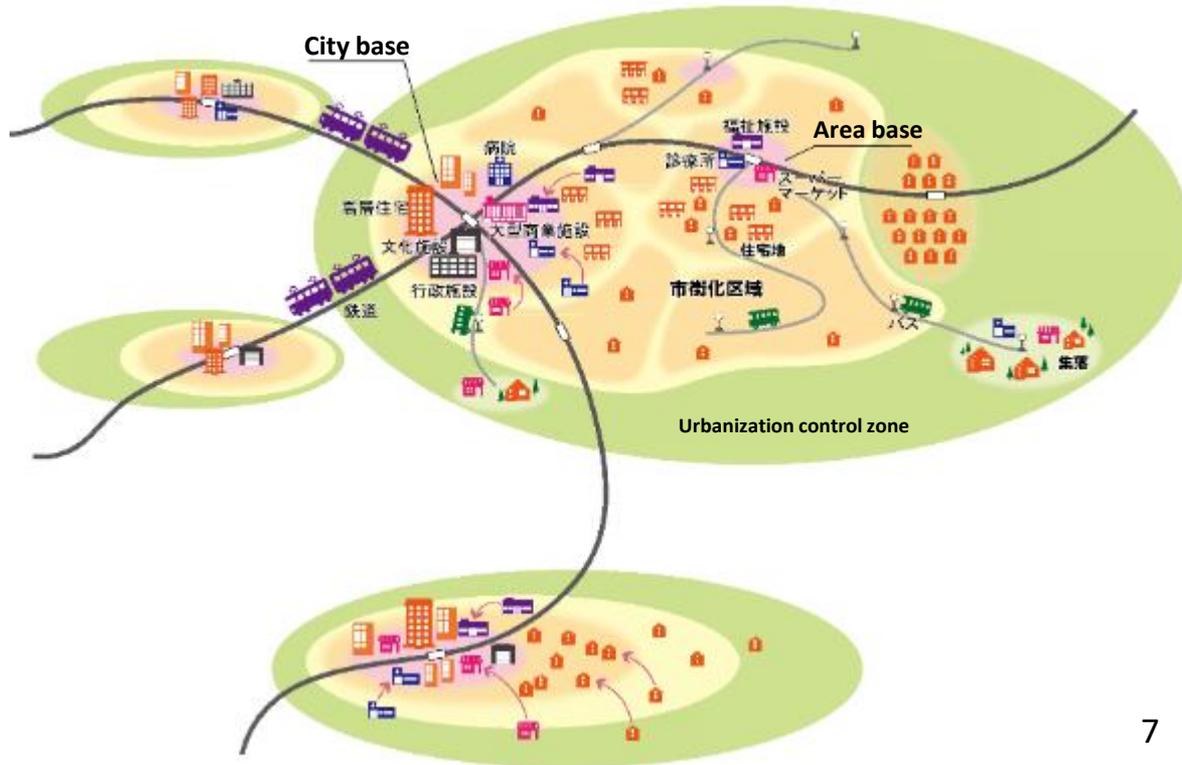
Measures Linked with Community Development

- Aichi Prefecture is working on CO₂ reduction while ensuring a link between community development and transport, mainly by proceeding with continuous multi-level crossings near railway stations and forming Compact Plus Networks in cities.

<Continuous multi-level crossing>



<Compact Plus Network>



Opening of Ghibli Park

○ To hand down the philosophy of EXPO 2005 Aichi, which was held based on the theme of the environment, to the next generation, Ghibli Park is scheduled to open in the autumn of 2022 in EXPO 2005 Aichi Commemorative Park.

<Area in Ghibli Park (conceptual picture)>

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<To Ghibli Park by maglev train (Linimo) or Aichi Loop Railway>



As an SDGs Future City, Aichi Prefecture is striving to realize a sustainable society.