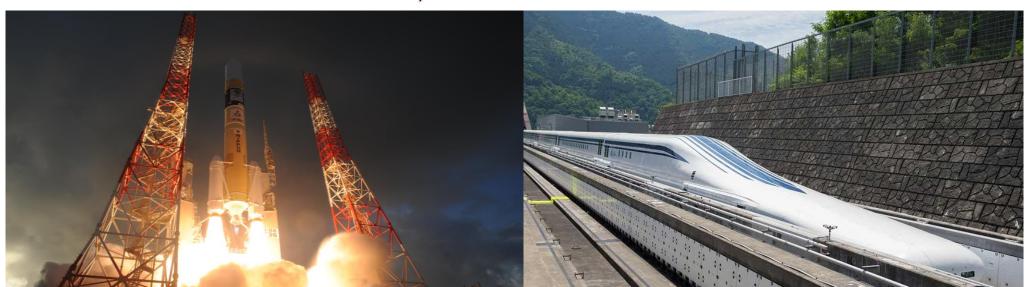


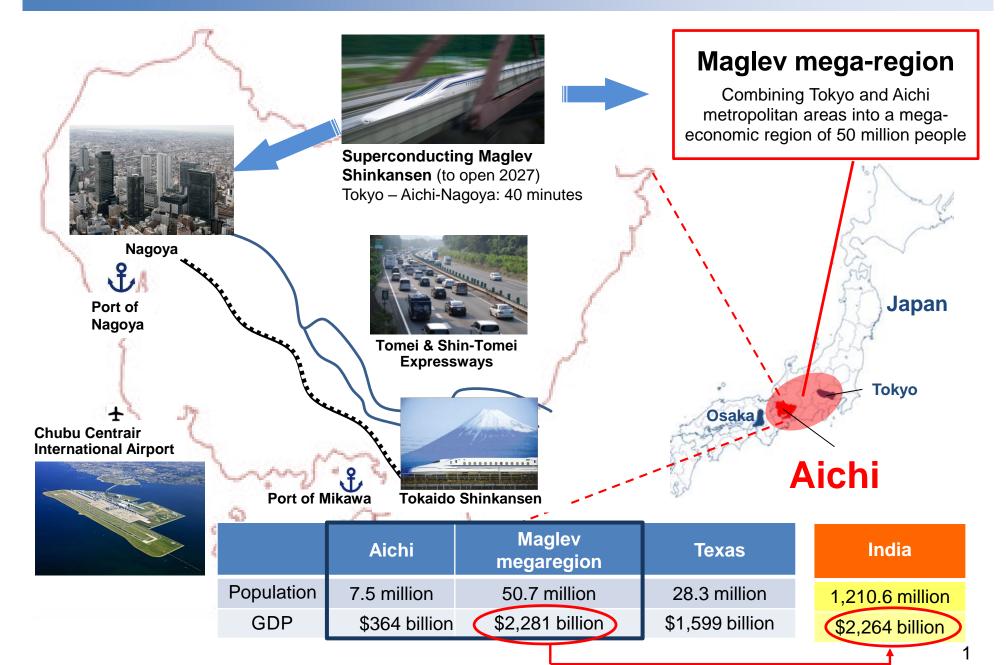
Flourishing Economic Ties between Aichi and Texas

Crafting a Better Growth Model

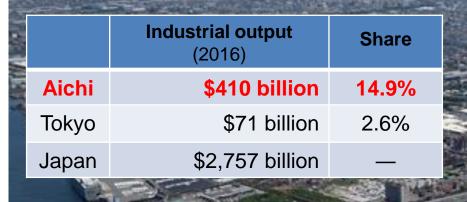
Hideaki Ohmura, Governor of Aichi Prefecture



Center of Japan, Heart of Japan



Largest industrial cluster in Japan



| | Exports and imports (2017) | | |
|-------|----------------------------|---------------|---------------|
| | Exports | Imports | Trade balance |
| Aichi | \$137 billion | \$60 billion | \$77 billion |
| Tokyo | \$56 billion | \$112 billion | ▲\$56 billion |
| Japan | \$698 billion | \$672 billion | \$27 billion |

Major industries in Aichi (2016) (Largest share in Japan)

Transportation machinery \$231 billion

Domestic share: 38.9%



Steel \$19 billion

Domestic share: 13.5%



Electric machinery & appliances \$19 billion

Domestic share: 12.9%



Machine tools \$19 billion

Domestic share: 11.4%



Metal products

\$14 billion

Domestic share: 10.4%



Office machinery & appliances

\$10 billion

Domestic share: 15.6%



Aichi growth model

H-IIA (2001)



MRJ (2020)

FCV

YS-11 (1964)



HV PRIUS (1997)



FCV MIRAI (2014)





Superconducting Maglev Shinkansen (series L0, 2027)



Toyoda AA (1936)



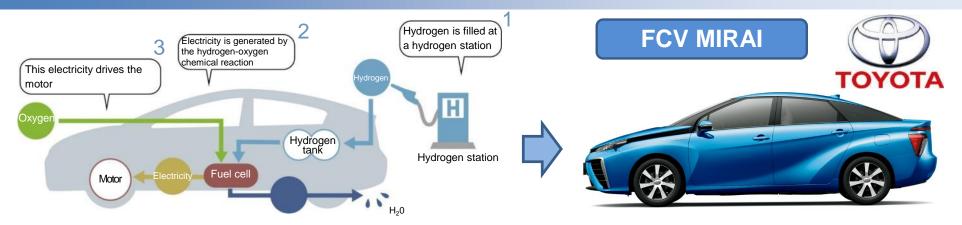
Tokaido Shinkansen (Series 0, 1964)



Tokaido Shinkansen (Series N700, 2007)

Clustering drives more clustering drives innovation

Fuel cell vehicles powering a hydrogen society





Cutting-edge automated driving field tests

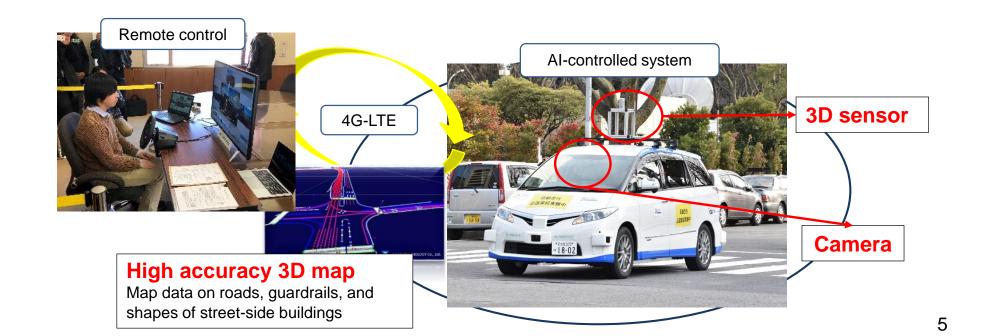
Japan's first field tests of remote-controlled automated driving system underway in Aichi

Unmanned automated driving (Level 4) on public roads

- 3D sensor to monitor vehicle environment
- High accuracy 3D map to locate vehicle position
- Camera to obtain visual information (traffic lights, signs, etc.)
- Al to identify and avoid hazards (remote control also possible)



Automated driving in operation (No one behind the wheel)



Robotics industry cluster and applications

Industry cluster

Aichi's robotics industry holds the largest share of the Japanese market

| | 2014 | Share |
|---------------------|-------------|-------|
| Industrial output | \$1 billion | 21.7% |
| Number of companies | 64 | 15.1% |



Industrial robots in operation on a car production line

Practical use

Robotic smart home

Living spaces designed for the use of robots and the safety and comfort of senior citizens



Living assistance robots



World Robot Summit 2020

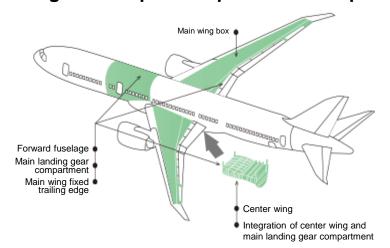
Competitions and exhibitions featuring state-of-the-art robotics technologies from around the world.

| Date | Early October 2020 | |
|--------|--|--|
| Venue | Aichi International Exhibition Center* | |
| Events | Competitions: Manufacturing, service, infrastructure, disaster response, etc. Exhibitions: State-of-the-art robots | |

^{*} Aichi International Exhibition Center will open September 2019 and plans to utilize service robots for information, security, and cleaning using advanced telecommunication technologies.

Japan's largest aerospace industry cluster

Boeing 787 components produced in Japan



■ = manufactured by major aircraft manufacturers in Aichi (35% of aircraft)

H3

MRJ, the first jet airliner manufactured in Japan



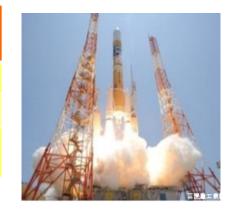
| | Seating capacity | Range | Takeoff weight |
|-------|------------------|-------------------|----------------|
| MRJ90 | 88 | 1,300–2,300 miles | 43.7–47.2 tons |
| MRJ70 | 76 | 1,200–2,300 miles | 40.7–44.3 tons |



| | Geostationary satellite load | Launch cost | Launch success rate |
|-------|------------------------------|---------------|---------------------------|
| H-IIA | 4.4-6.6 tons | \$100 million | 97.4% |
| H-IIB | 8.8 tons | \$150 million | 100% |
| НЗ | 7.2 tons | \$50 million | Under development |

H3, Japan's new flagship rocket

- Launch cost half of H-IIA
- Prototype to launch 2020



H-IIA rocket (Tanegashima Space Center)

Ghibli Park Project

Ghibli Park to share the philosophy of Expo 2005 Aichi Japan

Expo 2005 Philosophy = Studio Ghibli Message





©Studio Ghibli



Love for humanity, flora and fauna, and the Earth

Ghibli Park Project

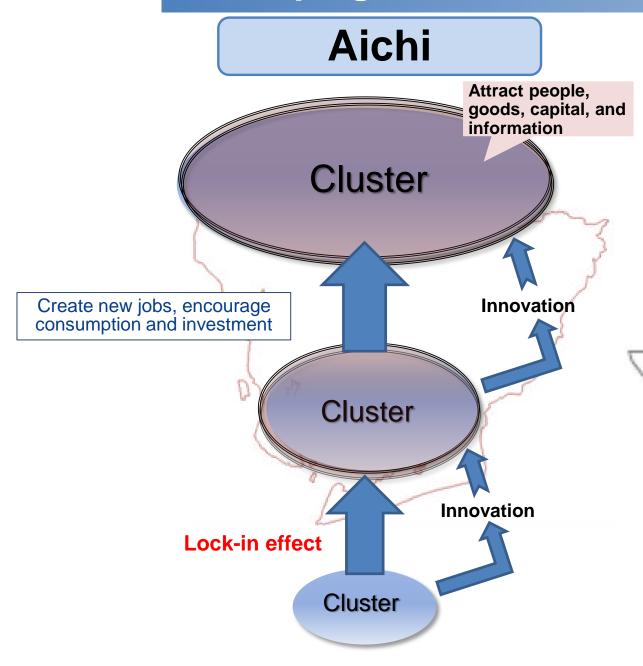
- Expand the world of Ghibli at Expo 2005 Aichi Commemorative Park
- Spread the Expo 2005 philosophy via Ghibli productions



Projected opening in 2022



Developing cities with unique methods of growth



Texas

Austin

- Large companies and research institutes
- Positive cycle of corporate spin-offs



"Silicon Hills"

Houston

- NASA's Johnson Space Center
- Texas Medical Center



Core institutes attract more institutes, cluster expands

(Aerospace industry, medical services)

San Antonio

- Abundant young labor force
- Low-cost, stable energy supply



Favorable conditions attract companies
Automakers (e.g. Toyota), IT, aerospace, etc.

Economic ties between Aichi and Texas

Aichi-based companies in Texas: 22 companies in 41 locations

Central Japan Railway Company

Technical assistance for high-speed railway project between Dallas and Houston



Toyota Motor Corporation

North American headquarters in Plano



Chubu Electric Power Co., Inc.

Investing in LNG project in Freeport



Memorandum of Understanding on Friendship and Mutual Cooperation



Signing ceremony, Texas Governor's Mansion (April 2016)

Aichi - US MOUs

| State | Date signed |
|------------|--------------------|
| Texas | April 22, 2016 |
| Washington | October 18, 2016 |
| Indiana | September 15, 2017 |
| Kentucky | October 23, 2017 |

Building closer relationships

Business exchange



Gov. Ohmura at Toyota San Antonio plant (April 2016)



Texas delegation at Aichi Prefectural Government Office (October 2016)



San Antonio delegation at Aichi Prefectural Government Office (March 2018)

Young people's exchange



San Antonio high school students at Aichi Prefectural Government Office (June 2017)



Aichi high school students at Clements High School, Houston (February 2018)

Aichi students to South by Southwest (March 2019)

Students and researchers from universities and graduate schools in Aichi will join the Interactive Festival to present their research.