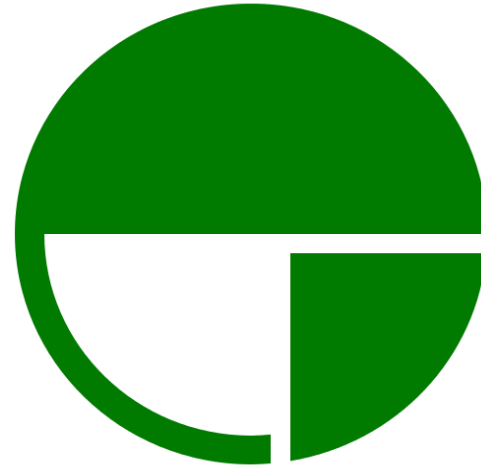


IUC city pairing, as of Autumn 2019



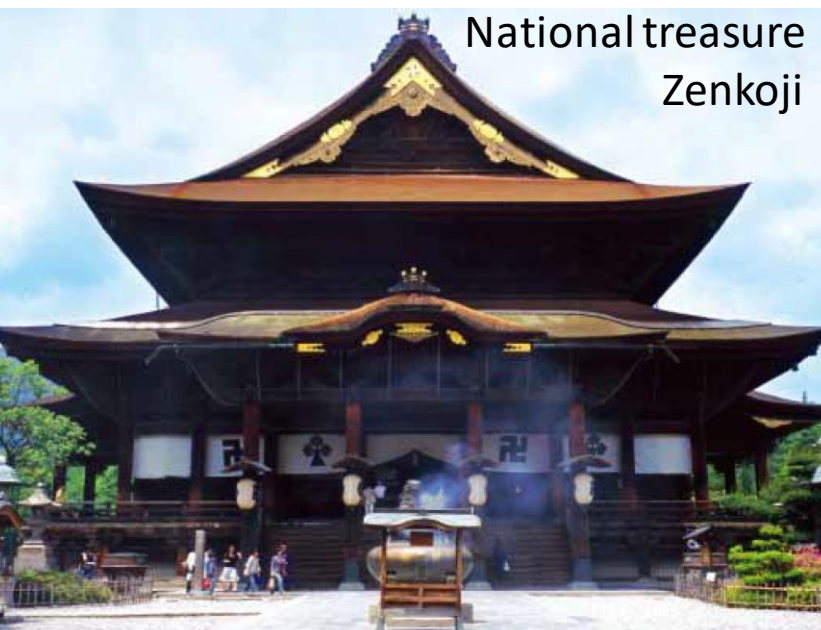
City of Turku



City of Nagano



Town of Obuse



National treasure
Zenkoji

City of Nagano



Town of Obuse



Picture by: Tim Bird

City of Turku

Integration of urban-rural circular economy in water-food-energy nexus



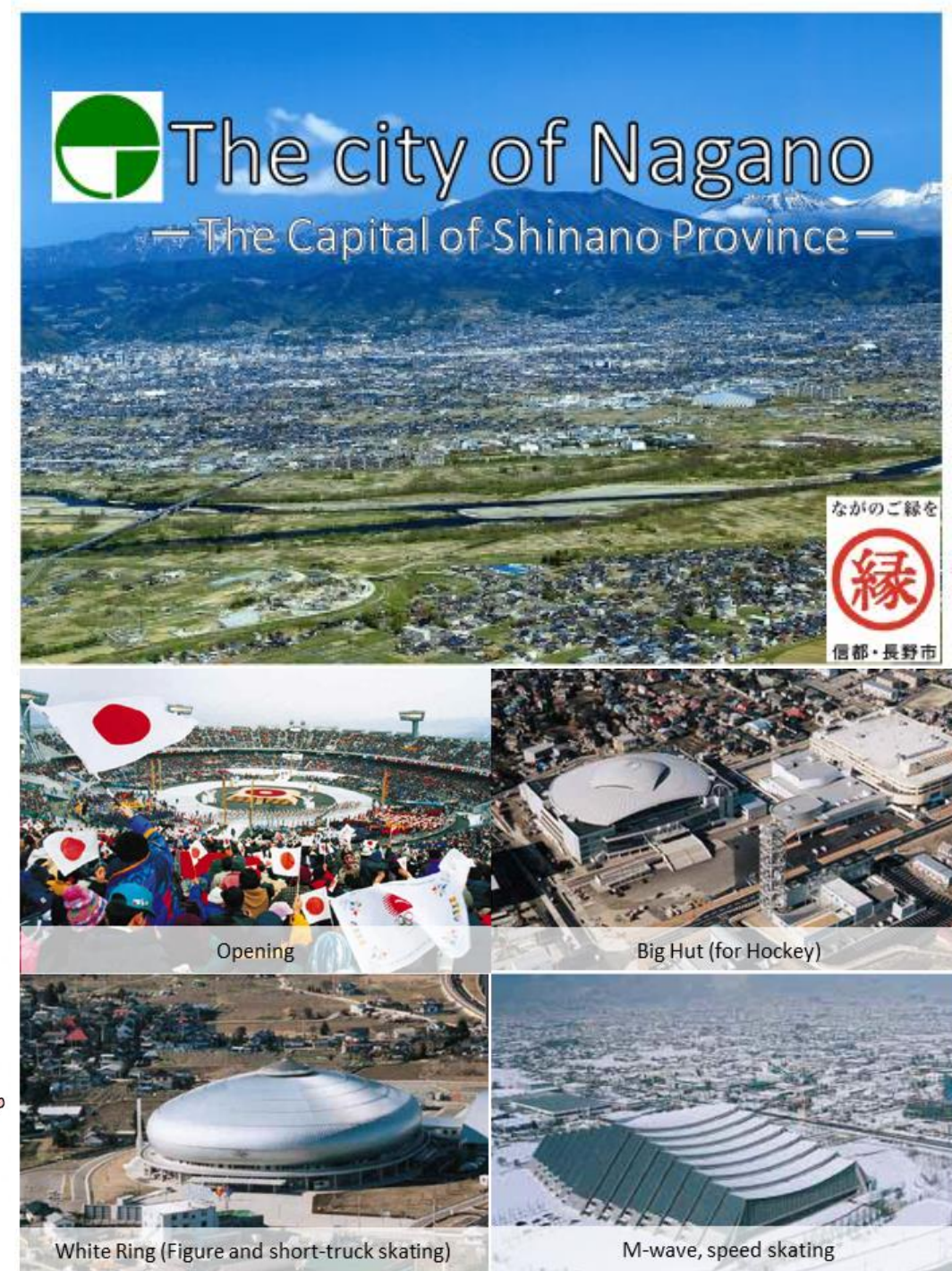
EU - 日本 国際都市間協カプロジェクト
INTERNATIONAL URBAN COOPERATION
European Union - Japan



欧州連合

City of Nagano

- Located at the northern part of Nagano Prefecture in the middle of Japan
- 18th Winter Olympic Games held in 1998. High-speed transportation networks established. Easy connection to Tokyo and other major cities in Japan
- [Eco-Conscious Olympics] Basic Vision of Nagano Olympic: Coexistence with Nature, Peace and Friendship
- Forests occupy 60% of the city area, fruit tree production is thriving, and there are abundant biomass resources.



City of Nagano

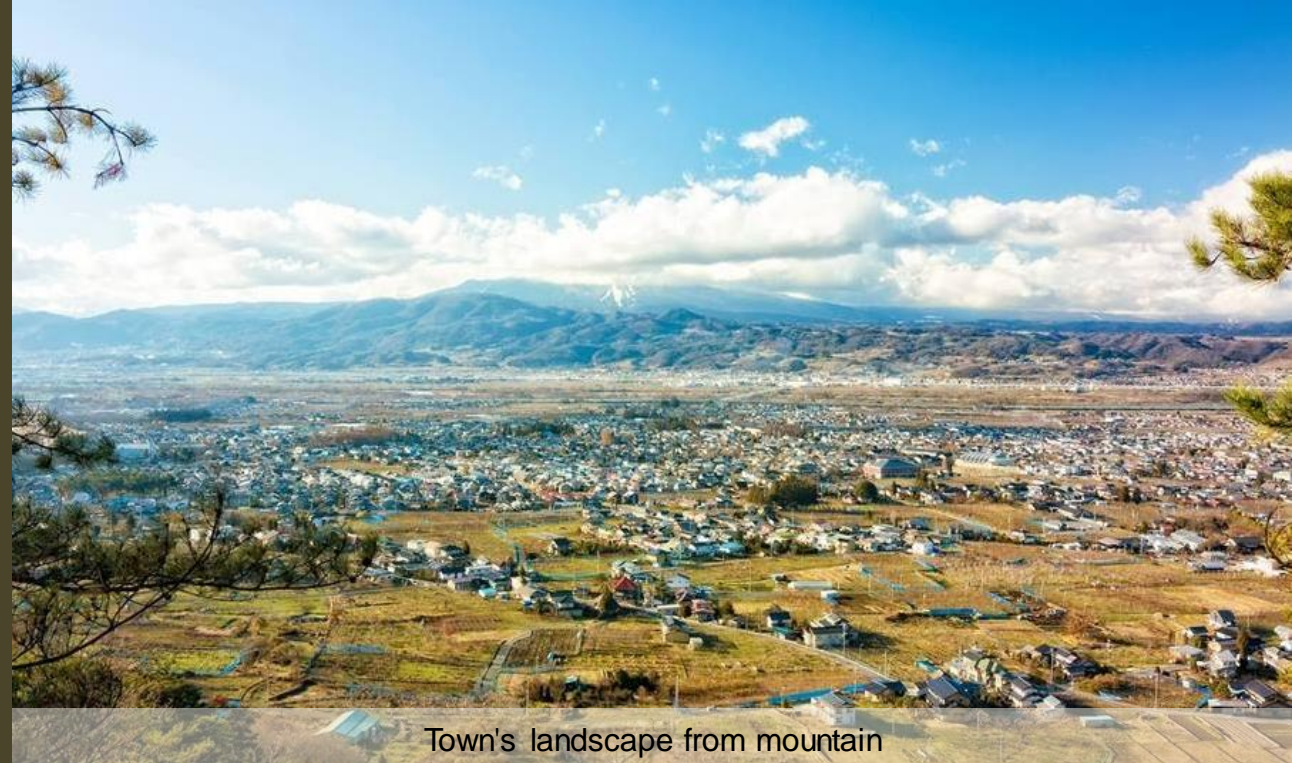
- Nagano City has Global Warming Prevention Countermeasures Promotion Plan, 2017-2050, and Biomass Town Vision.
- We work on Project to Promote the Local Use of Woody Biomass available in the region.
- And We work on Grow Sorghum on the abandoned farmland, Purchase of Electricity derived from Waste Incineration- Schools in Nagano buy electricity generated from waste incineration
- In this way, we are tackling global warming countermeasures with a focus on biomass.



Row of cedar trees in Togakushi Shrine

Town of Obuse

- Located next to Nagano city, about 11,000 citizens live within 19.12km².
- Town has attracted various Artists since Edo Period (1600-1800s) such as Hokusai Katsushika, one of the most influential painters in the world.
- Famous for its fruit products, especially chestnuts and apples.
- "Landscape Beautification Project", renovating old buildings has been led by collaborative group of people since 1980s.



Town's landscape from mountain



Landscape Beatification area



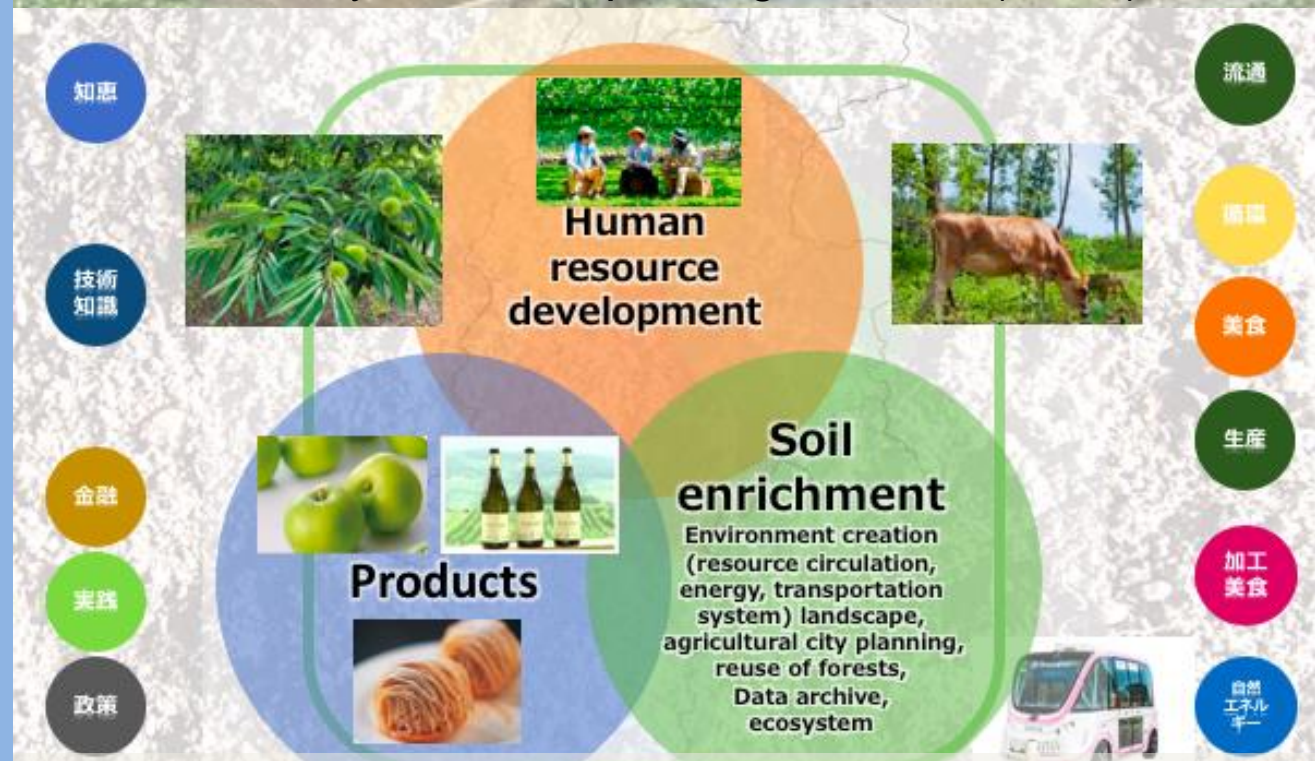
Apple farmers

Actions for sustainability in Obuse

- Started research for our potential of generating renewable energy since 2012.
- Constructed and have operated small hydroelectric power generation which can supply for one-tenth household in Obuse since 2018.
- In cooperation with the Ministry of the Environment, we started our discussion for action plan to promote circular economy this year(2019).



Small hydroelectric power generation (2018-)



Conceptual diagram for circular economy (2019-)

City of Turku

- Turku was founded in 1229, which makes it the oldest city in Finland
- Third largest urban area in Finland, close to 350 000 inhabitants
- A city of universities, science and education
- A national and international leader in manufacturing, maritime and creative industries
- Southwest Finland is undergoing a positive structural change



Photo by: Vesa Aaltonen

Resource-wise Turku

Climate-positive by 2029

- Turku Climate Plan (Covenant of Mayors, SECAP, City Council 11 June 2018)
- Carbon-neutral urban area by 2029

Resource-wisdom by 2040

- Sustainable use of natural resources
- Zero waste
- Zero emissions (2029)
- Sustainable Development Goals

Towards circular economy

- Circular solutions in all municipal sectors and public services
- Co-creation with civic society, businesses, universities and partners



Photo by: Seilo Ristimäki

1st learning exchange in Turku

13th to 15th November 2019

Getting to know circular solutions in the Turku region

- ✓ Cities' climate and sustainability policies
- ✓ Circular waste water treatment plant in Turku
- ✓ Textile recycling and circular economy hubs
- ✓ Renewable district heating and the multi-fuel power plant
- ✓ Finnish archipelago and medieval surroundings



