

'Nunobiki Plateau Wind Farm': boasting 33 wind turbines with the height of roughly 100 meters, one of the largest scale wind farms in Japan



**International Urban Cooperation  
: Sustainable and Innovative Cities  
and Regions Asia and the Americas  
(IUC) JAPAN**

**2<sup>nd</sup> EU-Japan Cities Exchange Meeting  
Monday, April 23<sup>rd</sup> 2018**

**Greetings from Koriyama City**



**-Toward a future-oriented and mutually-beneficial  
relationship between the cities of Essen and Koriyama-**

**Masato SHINAGAWA**

**Mayor of Koriyama City**



# Geographical Features of Koriyama City

## -Two Cities of Essen and Koriyama-

- ✓ 2<sup>nd</sup> most populous in Fukushima Prefecture and 3<sup>rd</sup> most populous in Tohoku Region
- ✓ 'Economic Capital City in Fukushima Prefecture', boasting its biggest retail sales and largest number of retail businesses in the prefecture
- ✓ Largest number of agricultural households in Fukushima Prefecture, boasting biggest rice production in the prefecture





# Strengths of Koriyama City

## -Rich urban resources and its connectedness to Europe-



✓ **'BIG i', the highest building in Fukushima Prefecture**, with the height of 104.25 meters above ground level, recognized in the Guinness Book of World Record for the planetarium located at the highest point in the world



✓ **'Koriyama Kenshin Cultural Center'** one of the largest concert halls in Tohoku Region, boasting 2,004 seats for its main hall



\*Dinner with Prime Minister Abe in February 2015

✓ **Bandai-Atami Hot Springs**, accommodated the Emperor and Prince William, boasting 800-year of history, 'Barden-barden of Koriyama'



✓ **Two private broadcasting companies located in Koriyama City**, Koriyama is the only city in Japan where the two broadcasting companies are headquartered except for capital cities of prefectures



✓ **Lake Inawashiro**, the fourth biggest lake in Japan with the area of 103.24km<sup>2</sup>, surface elevation of 514m, maximum water depth of 94.6m and underwater visibility of 12.0m, designated as one of Japan Heritage sites related to Asaka Canal and Asaka Land Development, Koriyama citizens' source of water for drinking and agriculture



✓ **'High School of Robotics' the computer club of Koriyama Kita Technical High School**, won the prizes in four consecutive year until 2016 at the International Contest of Applications in Nano-micro Technology (iCAN), won the first prize at "Pro ROBO" in 2014





# Strengths of Koriyama City

## -Rich urban resources and its connectedness to Europe-



✓ **Beer Festival**, 2017 marked the 23<sup>rd</sup> beer festival, welcoming a band called 'Die Lustigen Partnachtaler' from Garmisch-Partenkirchen (Germany)



✓ **'Nunobiki Plateau Wind Farm'**, the largest scale wind farm in Japan adopting the wind turbines made by ENERCON (Germany)



✓ **'City of Music, Music Loving City'**, high school students in Koriyama City attended the performance in Europe organized by the Fukushima Prefectural Choral Association



✓ **'Falling in love with carp in Koriyama'** project, newly-launched collaboration projects with Hungary, Koriyama City is the largest producer of carp in municipalities in Japan, working on the new project to import live 'Mangalica' pigs Hungarian national treasure pork to Koriyama City



✓ **EU-related enterprises with foreign capital**, Novo Nordisk (Denmark), UD Trucks (Sweden), Siemens Japan (Germany), DHL Japan (Germany), Novartis (Switzerland), Randstad (the Netherlands), etc.  
✓ **Joint venture between NITI-ON Co., Ltd. and AT-OS (Italy)** on washing machines for medical devices  
✓ **Joint venture between Nippon Zenyaku Kogyo Co., Ltd.(ZENOAQ) and Vetoquinol (France)** on animal health products



# History of the Development of Koriyama City - Transition from a city of power generation to city of renewable energy and medical devices -



Oyasuba Burial Mound, built in the early Kofun Period (250 AD-538 AD)



Numagami Hydroelectric Power Station, laid the foundation of Koriyama's development

**5.** Great East Japan Earthquake and Nuclear Accident at Fukushima Daiichi Nuclear Power Station in 2011



Building with its first floor collapsed due to the fierce earthquake

**4.** People gathered, schools and banks established, railroaded to become the center of Fukushima Prefecture

**3.** New industry revolution, cotton and chemical industries flourished by hydro electric power generation, Hodogaya Chemical Co., LTD. and Nitto Boseki Co., LTD.

**2.** Modernization by Asaka Canal and Asaka Land Development (1882), paddy rice, silk and carp cultivation flourished

**1.** Post Station at Oshu Kaido [Edo Period (1603-1868)]



Fukushima Renewable Energy Institute, AIST (FREA) opened in April 2014

**6.** Restoration from the disasters, promoting renewable energy and medical device development



Fukushima Medical Device Development Support Center (FMDDSC) opened in November 2016



# Good Practices of Koriyama City

-Focusing on the hub among industry, academics and government and International Safe Community by WHO-



✓ Collaboration with Fukushima Renewable Energy Institute, AIST (FREIA), hub for the research and development on renewable energy



✓ Operating Hydrogen Refueling Station and Fuel Cell Vehicle (FCV), toward a front-runner in using hydrogen as power source



✓ Fukushima Medical Device Development Support Center (FMDDSC), support for the development and business of Medical Device



✓ Collaboration of research on geothermal with the College of Engineering, Nihon University, providing abolished school in Konan-machi which located at the south bank of Lake Inawashiro as a test bed, <http://mech.ce.nihon-u.ac.jp/~oguma>



✓ Certified as one of the International Safe Communities sponsored by WHO in February 2018, 1<sup>st</sup> city in the prefecture, 15<sup>th</sup> in Japan and 391<sup>st</sup> in the world to become the International Safe Community, aiming at realizing a safe and secure community



✓ Asaka Canal, one of the ICIID Heritage Irrigation Structures, designated by International Commission on Irrigation and Drainage (ICID) in November 2016

# Good Practices of Koriyama City

-MOUs intensifying the efforts and networking academic research institutes in the area to address local challenges-



✓ MOU concluded with the City of Essen, Germany in December 2017, in the fields of renewable energy and medical device industry



✓ MOU concluded with Novo Nordisk on the countermeasures against diabetes, working together against the local problems of diabetes



✓ MOU concluded with Japan Patent Attorneys Association (JPAA), providing support on patent, trademark and intellectual property to the SMEs in the city



✓ Newly-published brochure to promote investment in the city, publishing a new brochure in German for the first time to promote investments from Germany

Main Facilities of the Koriyama Area Research Institutes Networking Consortium (Tentative Name)

- 1 Fukushima Renewable Energy Institute, AIST (FREI): Koriyama City
- 2 Fukushima Branch, National Institute for Environmental Studies: Miharu Town
- 3 Fukushima Environmental Safety Center, Sector of Fukushima Research and Development, Japan Atomic Energy Agency (JAEA): Miharu Town
- 4 Fukushima Office, Japa Technology Agency (JST): City
- 5 Koriyama Area Technopolis Promotion Organization
- 6 Fukushima Prefectural Center for Environmental Creation: Miharu Town
- 7 Fukushima Technology Centre: Koriyama City
- 8 Energy Agency Fukushima: Koriyama City
- 9 Fukushima Prefectural Forestry Research Centre: Koriyama City
- 10 Fukushima Agricultural Technology Centre: Koriyama City
- 11 Fukushima Prefectural Forestry Research Centre: Koriyama City
- 12 Fukushima Prefectural Koriyama Technical Academy: Koriyama City
- 13 Koriyama Area Technopolis Promotion Organization
- 14 Fukushima Office, Japa Technology Agency (JST): City
- 15 Fukushima Office, Japa Technology Agency (JST): City
- 16 Fukushima Office, Japa Technology Agency (JST): City
- 17 Fukushima Technology Centre: Koriyama City
- 18 Fukushima Office, Japa Technology Agency (JST): City



✓ 18 academic research institutes in Koriyama area (including 5 universities) Networking Meeting in February 2018, forming a network of academic research institutes and aiming at addressing the challenges in the area



# Exchange Activities in Koriyama City

## -Visit to research institutes and universities and hold a seminar at Koriyama City Hall-

\*Visit to FREA by the delegation led by Mayor of Essen City in December 2017



✓ **Fukushima Renewable Energy Institute, AIST (FREA),** visiting to the world-leading institute of renewable energy

\*Visit to FMDDSC by the delegation led by Mayor of Essen City in December 2017



✓ **Fukushima Medical Device Development Support Center (FMDDSC),** visiting to the first center in Japan which supports the development and commercialization of medical device

\*Seminar at Essen City Hall organized by the State of NRW and Fukushima Prefecture in August 2017



✓ **Essen-Koriyama Joint Seminar,** lecture presentations given by the delegation members from Essen City for businesses and research institutes in Koriyama City



\*College of Engineering, Nihon University (LOHAS and Medical Engineering)



\*Ohu University (Medicine)



\*Fukushima Prefectural Technology Centre

✓ **Fukushima Prefectural Technology Centre,** visiting to the testing and research institute



✓ **The Southern Tohoku General Hospital,** collaboration with the Essen University Hospital, the cutting-edge Boron Neutron Capture Therapy (BNCT) research





# Planned Activities (Potential Collaboration)

-Toward a future-oriented and mutually-beneficial relationship-

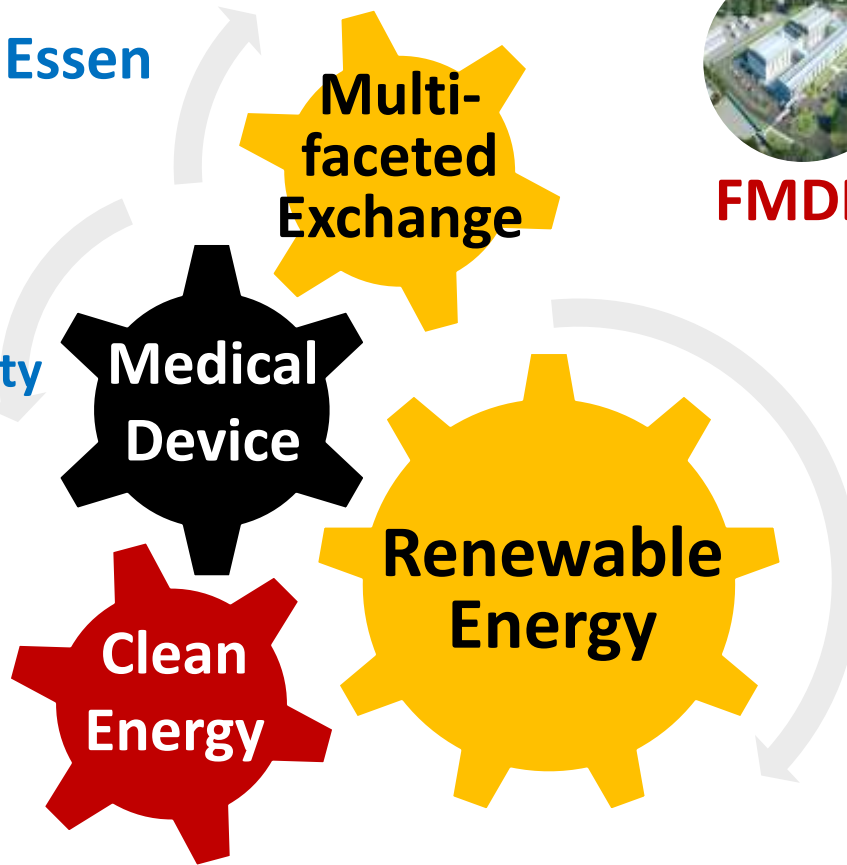
Industrial Circle of Essen



Hospital at the University of Duisburg-Essen



City of Essen



Industrial Circle of Koriyama

FMDDSC



FREA



Medical Institutes



City of Koriyama

*City-to-city events in Brussels and study tours of Japanese cities in October 2018*

Thank you for your attention! / Danke für Ihre Aufmerksamkeit. / Σας ευχαριστώ για την προσοχή σας. / Gracias por su atención. / Grazie per l'attenzione.