

*Breakout Room 1*

# Ecological Transition and Green Development



*Milan, Italy*

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***Moderator: Pablo Gándara, Team Leader IURC Asia & Australasia***

# Global Thematic Networks Cooperation

## TH-NW. 1 – ECOLOGICAL TRANSITION- GREEN DEAL A Greener Future for Cities in Europe and Asia / Australasia

**CIRCULAR ECONOMY**  
Waste Management

**GREEN INFRASTRUCTURE**  
Nature Based Solutions  
Water Management

**SUSTAINABLE AGRICULTURE**  
Food systems,  
Urban Gardens

**RENOVATION WAVE**  
Decarbonized &  
energy efficiency in  
buildings

## CROSS CUTTING OVERALL CHALLENGES



**POST COVID RECOVERY IN CITIES**

**CLIMATE CHANGE & ENERGY TRANSITION**

**SMART CITY & DIGITAL TRANSITION**

## TH.NW. 2 – URBAN RENEWAL & SOCIAL COHESION A Sustainable Future for Cities in Europe and Asia / Australasia

**URBAN AGENDA/PLANNING**  
SUD Strategies,  
Public Space,  
Urban Model: 15 min. Vision

**MOBILITY & TRANSPORT**  
Street 4 people -  
Superblocks – Metropolitan  
Connections

**URBAN POVERTY**  
Deprived neighbourhoods,  
social housing, cohesion

## TH.NW.3 – INNOVATIVE, SUSTAINABLE & CARBON NEUTRAL ECOSYSTEMS & STRATEGIC SECTORS A Smarter Future for Cities in Europe and Asia / Australasia

**TOURISM & CULTURE**  
Sustainable Tourism,  
Cultural Heritage

**HEALTH & LIFE SCIENCES**  
Ageing Society,  
Biotechnology

**EDUCATION, JOBS & SKILLS,**  
Clusters, Innovation  
Centres

# Thematic Network 1:

## ECOLOGICAL TRANSITION- GREEN DEAL (a greener Europe)

- **Circular Economy**, waste management, plastic
- **Nature Based Solutions**, greening, water management,
- **Sustainable urban agriculture**, healthy food, urban gardens
- **Renovation Wave**, decarbonized & energy efficiency in buildings

Synergies

- **Sustainable urban agriculture**, Agrofood Chain, Foods Systems, Technologies 4,0



CITY- TO - CITY

REGION- TO - REGION

# Thematic Priorities Identified in IURC Cities' Meetings

**Thematic Network Series**  
N° 2 - Achieving Carbon Neutrality in Cities  
Thematic Network Series: Ecological Transition and Green Deal, Urban & Regional Renewal and Social Cohesion, Innovative sustainable and carbon neutral ecosystems and strategic sectors

The cooperation will be organized along the following **Thematic Networks**.

- A. Ecological Transition & Green Deal**
  - A1. Circular Economy
  - A2. Nature Based Solutions
  - A3. Sustainable urban agriculture
  - A4. Renovation Wave
- B. Urban & Regional Renewal and Social Cohesion**
  - B1. Urban Agendas and Urban Planning
  - B2. Mobility & Transport
  - B3. Urban Poverty, Displaced Neighbourhoods, Housing, Social Cohesion
  - B4. Industry 5.0
- C. Innovative sustainable and carbon neutral ecosystems and strategic sectors**
  - C1. Tourism & Culture
  - C2. Health, Life science
  - C3. Education, Jobs & Skills
  - C4. Innovation systems, Business Clusters, Regional Innovation (RES)

Tackling three of the cross-cutting challenges of our times.

- Digital Transition & Smart City
- Energy Transition & Climate Change
- Post Covid Recovery

**IURC COOPERATION**

- Flood Resilience
- Dublin District Heating
- Nature – Dublin Bay Biosphere
- Air Quality and Noise
- COVID Response
- **Data, Data, Data**

**Key Areas**

**Decarbonizing the Heating Sector and Energy Efficient Buildings**

- ▶ Retrofitting of non-residential buildings - extension of support measures
- ▶ Roadmap for building sector in cooperation with the housing industry
- ▶ High efficiency standard for new public buildings from 2022 (energy demand 40 % of legal requirement)
- ▶ Solar mandatory on new buildings

HAMBURGER KLIMAPLAN

**Travel habit survey**  
What if men travelled like women?

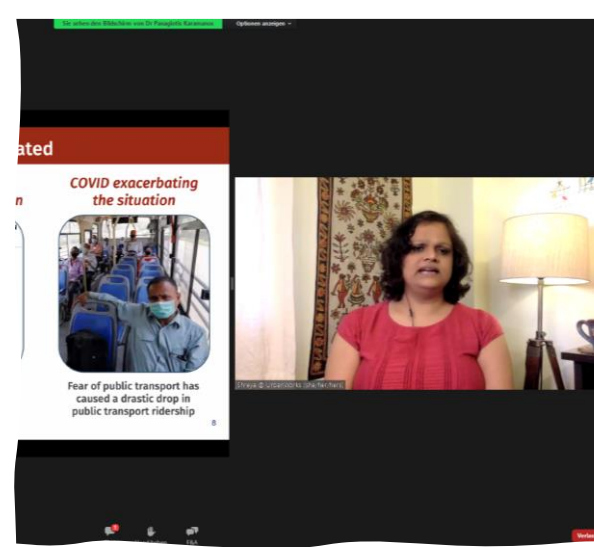
## Priority N°1 - Green Deal

Topics include:

- Decarbonising cities,
- Hydrogen technologies,
- Energy efficiency in buildings,
- Urban regeneration (retrofitting),
- Circular economy,
- Adaptation measures to climate change (green infrastructure, NBS)
- Sustainable food systems (relevant for the “from farm to fork” EU strategy).

16.11.2021

# Cross-Country Cooperation: Thematic Webinars



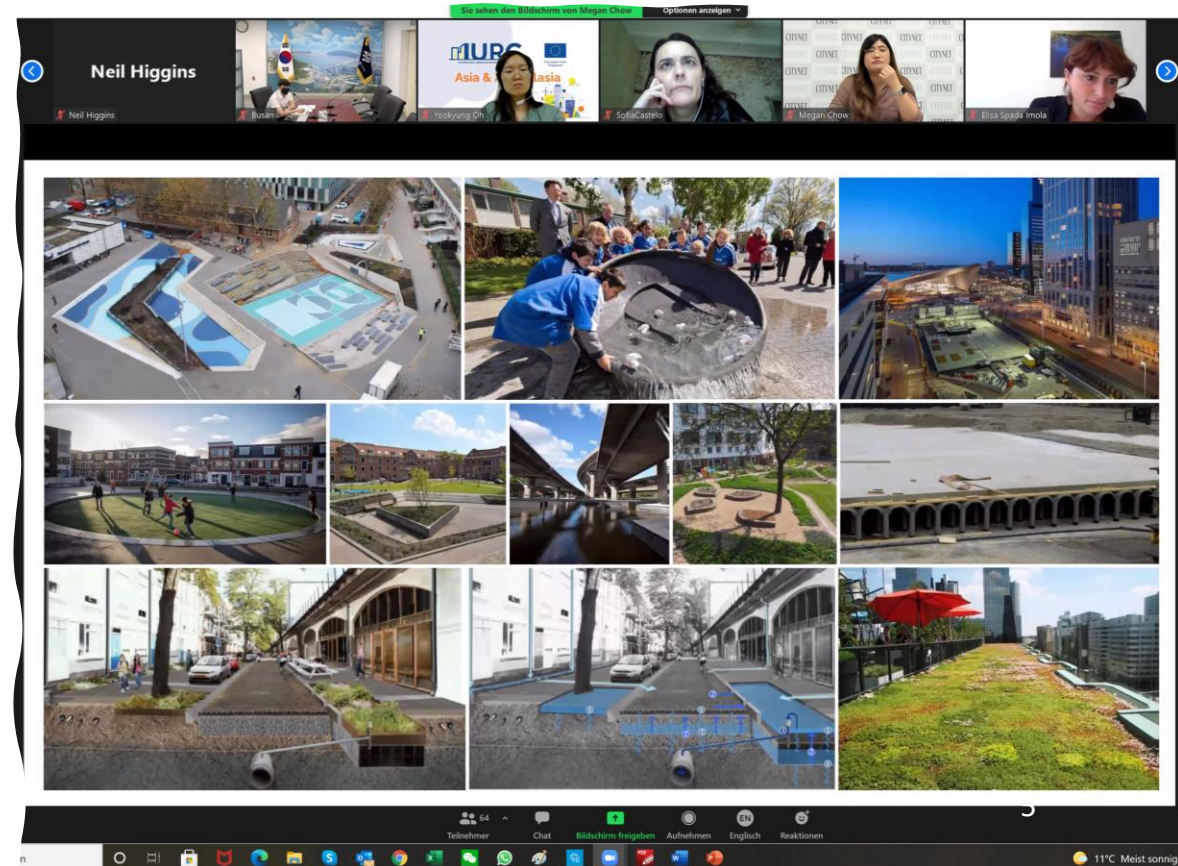
Three webinars implemented so far

- Green Infrastructure & NBS (05.10.2021)
- Decarbonising Cities (19.10.2021)
- Post Covid-19 Mobility (11.11.2021)

Over 200 participants, including many from at least 48 of the 85 IURC pilot cities.

Thematic priorities identified

Follow-Up Activities with Cities establishing Pioneers & Followers



# Follow-Up Matrix

## Next steps: Survey of Interested Cities



Thematic Network: Ecological Transition & Green Deal

**Thematic Cluster: Energy Transition and Climate Change**

Possible Pilot Area	Interested (Y/N)	Possible Contribution	Expected Output	Best Practices	Potential Stakeholders	Coordinator	Participant
Decarbonization Roadmap / Planning		Share your city challenge, present a solution./best practice, deliver expert time during a city mission, contribute to a concept note, present the project in IURC or external events, etc.	Please insert a possible output that you think could or should be achieved. This could be a joint campaign, a joint research project, a joint technical solution, etc...			Please insert the name of your city in case you would like to coordinate a joint pilot action. The coordination role doesn't mean any financial commitment, but you may support the project team in sharing experiences, revising factsheets, identifying potential synergies or implementation opportunities.	Please insert the name of your city in case you would prefer to participate but not to coordinate a joint pilot action. This means less mentoring work, but diminishes the chances for your city to define the pilot action.
Renovation Wave: Energy efficiency in buildings							
Smart mobility: digitalization							
Maas (Mobility as a service)							
Renewable energy –solar, wind, biomass, etc.							
Hydrogen deployment							
Consumption / Lifestyles							
Decarbonization by waste reduction							
Stakeholders' participation / collaboration						<b>Cluster Manager: IURC Helpdesk Japan</b>	



❑ These cluster meetings **complement** the bilateral exchanges, which are the core of the **city-to-city cooperation**.



❑ At this thematic cluster level, cities **exchange knowledge** and identify possible flagship **pilot actions** to be replicated / transferred to several cities in the same area.

# Feedback from Cities: Rome

Thematic Network:	Ecological Transition / Green Deal		Cluster Manager:	Pablo Gándara			
Thematic Cluster:	Green Infrastructure and Nature Based Solutions						
City:	Rome						
Event date:	05.10.2021						
Possible Pilot Area	Interested (Y/N)	Possible contribution	Expected output	Best practices	Potential stakeholders	Coordinator	Participant
Visualisation tools for green infrastructure (apps, maps, software)	Y	Smarticipate web GIS tools	new applications for local initiatives	<a href="https://www.smarticipate.eu/category/rome/">https://www.smarticipate.eu/category/rome/</a>	Roma Capitale - Fraunhofer Inst	TBD	TBD
Citizens' engagement formats for greening cities (pocket parks, tree planting, campaigns, etc).	Y	Community Gardens, Urban Agriculture	Municipal regulations / Learn by experiences	R-Urban - Rome EU projects ; other international projects	Roma municipality and other EU cities Partners / grassroots association as Legambiente	(Bordi or Ecca) TBD	TBD
Grants and public subsidy schemes for roof gardens in cities	Y	public subsidies in Italy for green roofs (NZEB with GSE; Ecobonus with ENEA)	recent subsidies results analysis	TBD	CITERA Sapienza - GSE - ENEA	TBD	TBD
Developing specific measures for vulnerable communities	Y	Sun4ALL - energy communities for a fair energy transition - PV energy to tackle energy poverty	Reduction of Energy Poverty / improvement of Energy Communities / Citizen engagement	4 pilots and 8 replication sites/cities	Roma Capitale - CITERA Sapienza + other 3 european pilots	Patrick Maurelli; Flavio Rosa	11 EU partners
Experiences on institutional capacity building (including a knowledge management platform)	Y	Smarticipate web GIS tools	new applications for local initiatives	<a href="https://www.smarticipate.eu/category/rome/">https://www.smarticipate.eu/category/rome/</a>	Roma Capitale - Fraunhofer Inst	TBD	TBD
Greening public schools with citizens engagement	Y	Rome municipality - gardening in schools / PV plants on schools	community engagement & capacity building centered on schools	two past experiences in RC / Sun4All H2020 project ongoing	Rome Municipality / sapienza CITERA	TBD	TBD
Greening industrial parks/areas	Y	APEA - Ecologically Equipped Productive Areas" (EEPAs)	many APEAs have been launched in Region Lazio and other EU and ITA regions	TBD - many use cases to select (Urbact, H2020, EU indirect funds)	Regione Lazio - Lazio Innova / other EU players	TBD	TBD
River basin management approaches to catch benefits of renaturation	Y	Starcities - Interreg on Rivers in urban contexts and Riverside cities	to create innovative solutions for sustainable tourism development	7 EU pilots / Riverside Cities European network -- <a href="https://www.interregurope.eu/starcities/">https://www.interregurope.eu/starcities/</a>	Region Lazio - Roma Capitale (District X) + other EU pilots	Alessandro Drago	TBD
	16.11.2021	CHECKING WITH COLLEAGUES IN					

# Register and Access Information

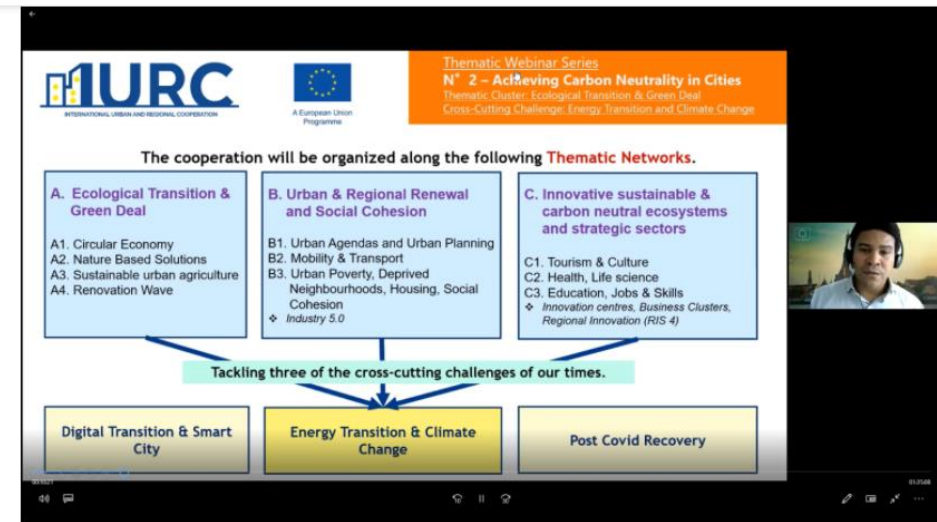


## 1st Thematic Webinar – Addressing Climate Change Effects in Cities

Categorized as [Ecological Transition](#), [Green Deal](#), [News from Asia & Australasia](#), [News from IURC](#), [Thematic Network](#)

Over 80 representatives from IURC pilot cities in 20 countries participated in the 1st thematic webinar "Addressing Climate Change Effects in Cities". The event focused on nature-based solutions (NBS) and green infrastructure measures implemented by cities in Europe, Asia and Australasia to mitigate heat island and heavy rainfall events. It was moderated by Megan Chow, Country Coordinator of the IURC team in Korea.

The webinar took place against the background of severe climate change effects around the world, from the unprecedented, deadly flooding in parts of



## 2nd Thematic Webinar – Decarbonising Cities in Asia-Pacific and Europe

Categorized as [Ecological Transition](#), [Green Deal](#), [News from Asia & Australasia](#), [News from IURC](#), [Thematic Network](#)

### IURC cities engaged in "Race to Zero" dialogue

The IURC Asia & Australasia continued to engage the project's pilot cities in the Thematic Network of "Ecological Transition & Green Deal", this time focusing on the topic of decarbonisation. The second thematic webinar for the project team organised by the help desk in Japan, which is provided by IGES, "Achieving Carbon Neutrality in Cities" aimed to share how cities are transforming themselves to be carbon neutral and to stress the power of city-to-city cooperation in



# Next Thematic Webinar – Next Monday!



## Thematic Webinar Series

### N°4 – The Role of Municipalities in Promoting the Renovation Wave

Thematic Cluster: Ecological Transition & Green Deal  
Cross-Cutting Challenge: Energy Transition and Climate Change

Monday, 29 November 2021  
18:00-19:00 (JST)/10:00-11:00 (CET)



## PROGRAMME

Time	Programme
10:00 am (CET) 18:00 pm (JST)	<b>Opening Remarks and Background to the webinar</b> <ul style="list-style-type: none"><li>Prof. Hidefumi Imura, IURC Asia-Australasia, Key Expert for Japan</li></ul>
	<b>Group Photo Session</b>
10:05 am (CET) 18:05 pm (JST)	<b>Setting the scene: EU's policy on "Renovation Wave" and the role of municipalities</b> <ul style="list-style-type: none"><li>Dr. Paolo Bertoldi, Senior Expert, Joint Research Center of the EU Commission</li></ul>
10:15 am (CET) 18:15 pm (JST)	<b>City Panel</b> <ul style="list-style-type: none"><li>Mr. Jon Gastanares (Head) and Mr. Iker Mardaras Larrañaga (architect), Energy Efficiency Section, the City of Donostia-San Sebastián, Spain</li><li>Mr. Masayuki Fujita, Environmental Policy Department, Kyoto City Government, Japan</li><li>Ms. Brigitte Köhnlein, Deputy Head, Department of Federal, European and International Affairs, Free and Hanseatic City of Hamburg</li></ul> Moderator: Dr. Ryoko Nakano, IURC Asia-Australasia, Japan
10:40 am (CET) 18:40 pm (JST)	<b>Discussions</b>
10:55 am (CET) 18:55 pm (JST)	<b>Summary, next steps and closing remarks</b> <ul style="list-style-type: none"><li>Mr. Pablo Gandara, Team Leader, IURC Asia-Australasia</li></ul>
11:00 am (CET) 19:00 pm (JST)	<b>Closure of Meeting</b>



# IURC Annual Event 2021 – Ecological Transition & Green Deal

- Presenter: Filippo Gavazzeni (Municipality of Milan)
- Date: 24/11/2021 – 11:00 - 12:00 CET

**MILAN**



**FILIPPO GAVAZZENI**

**HEAD OF THE MUFPP SECRETARIAT – MAYOR'S OFFICE**

# JOINT COMMITMENT OF MAYORS

Launched by the **Mayor of Milan** as legacy of **Expo Milan 2015 "Feeding the Planet"**, it is a global joint cities declaration to promote Urban Food Policy.

Milan Pact defines **sustainable food systems** as inclusive, resilient, safe, diverse and healthy and promote a set of **37 recommended actions** to define food policies clustered in 6 categories:

1. **GOVERNANCE**
2. **SUSTAINABLE DIETS AND NUTRITION**
3. **SOCIAL AND ECONOMIC EQUITY**
4. **FOOD PRODUCTION**
5. **FOOD SUPPLY AND DISTRIBUTION**
6. **FOOD WASTE**



# The MUFPP in a nutshell



**6**  
years of  
activities

**217**  
Signatory  
Cities

**6**  
MUFPP  
Regions

**7**  
Global  
Fora

**15**  
Regional  
Fora

**13**  
SC  
members

**370**  
Practices  
collected

# Europe

99 Signatory Cities

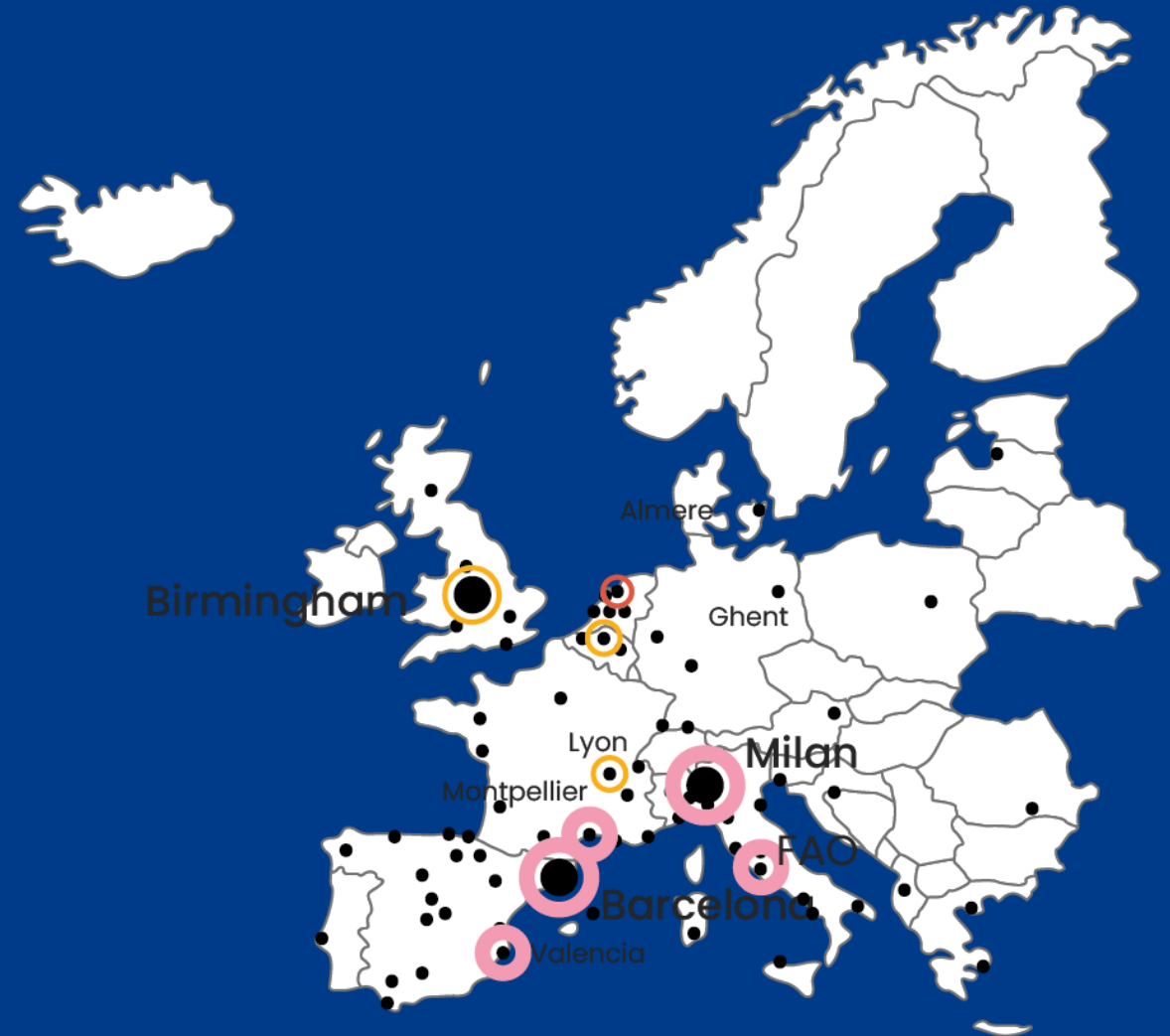
5 Global Fora

10 Regional Forum

154 Food Practices submitted

1 Awards Winner

10 Awards Special Mentions



# Asia Pacific

18 Signatory Cities

1 Regional Webinar

19 Food Practices submitted

2 Awards Special Mentions



# Filippo Gavazzeni

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[www.milanurbanfoodpact.org](http://www.milanurbanfoodpact.org)



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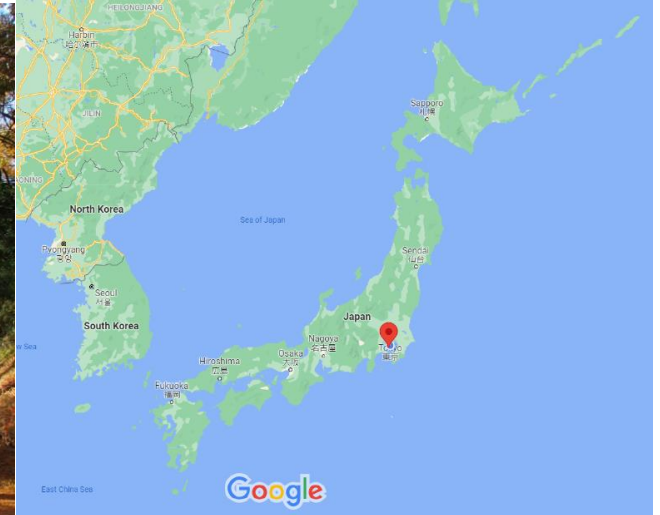
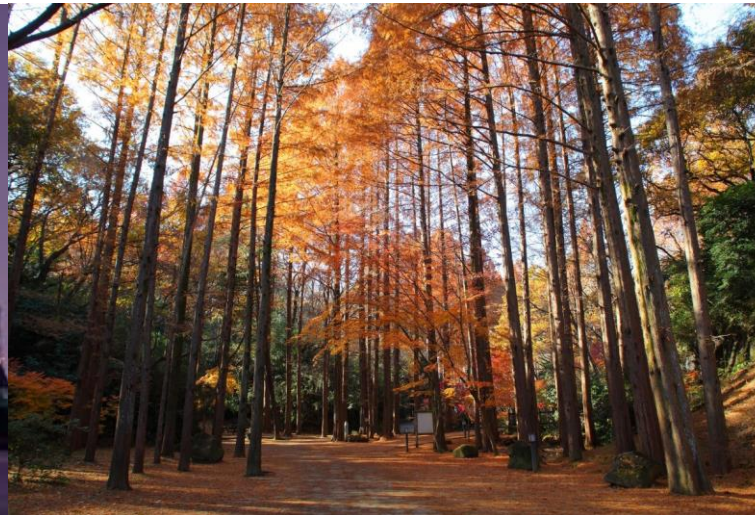


# Kawasaki city's green recovery and strategy for climate neutrality

IURC Annual Event 2021

Tetsuro Yoshida

Kawasaki Environment Research Institute (KERI)



# Kawasaki City has overcome serious environmental problems

- Kawasaki drove Japan's high economic growth in the 1960s and 1970s as an industrial center but as a result, there was a sudden degradation of the environment and serious pollution problems including air pollution and water contamination.



Billowing smoke from factories along the coast spread over the city.

1960s



The city took various measures to restore the city's clean air. In winter on a clear day, Mt. Fuji can be seen in the distance.

2014

# Accumulated environmental technology and expertise

- The Tokyu REI hotel uses hydrogen energy from waste plastics to supply about 30% of its energy needs.
- H2One™, an autonomous hydrogen energy system, is now in operation at a railway station in Kawasaki City. In emergencies, it will provide off-grid energy supply. In peacetime, it supplements main electricity.



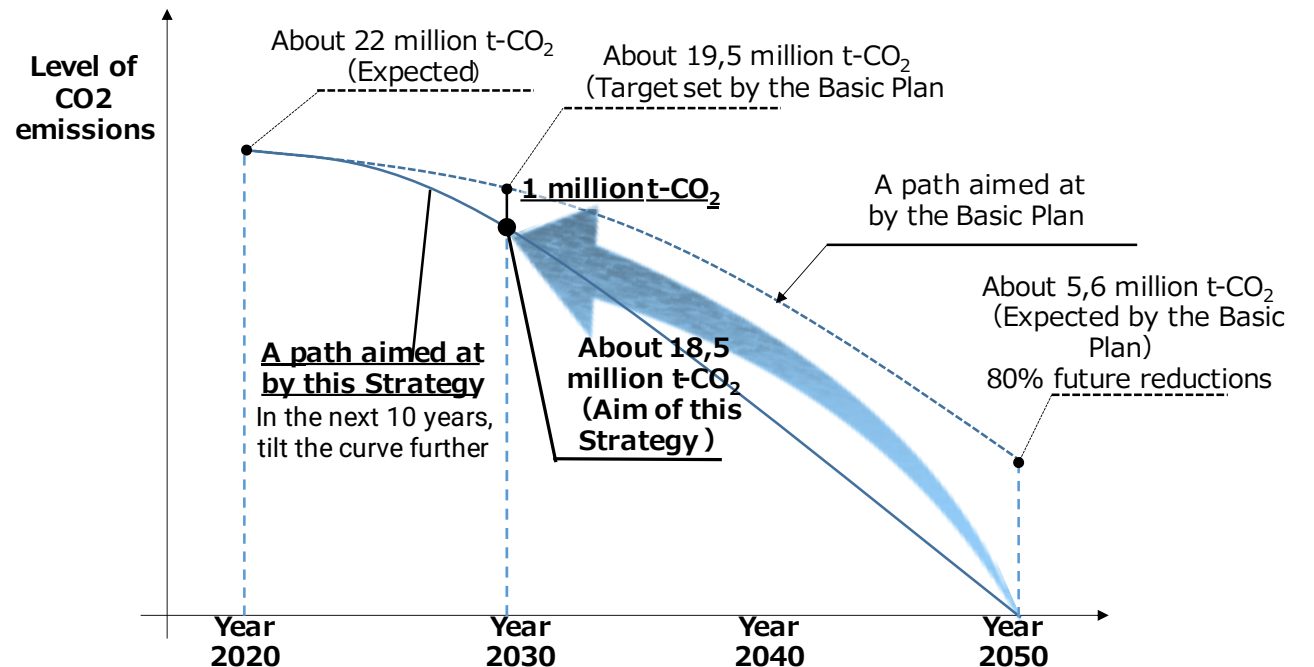
# Kawasaki's strategy for climate neutrality

- The City focuses on the "movement of consumer behavior" which means that each citizen and business operator consider the environment and dramatically increase the demand for goods and services which contribute to decarbonization.
- To "move society" means to promote the supply of products and services that contribute to decarbonization, and to create new innovations.
- Kawasaki needs know-hows from EU peers to achieve this challenging target.

## ■ 2030 Milestone (Intermediate Target)



In addition to the current target, it will make its best effort to reduce additional 1 million tons of CO<sub>2</sub>.



# update from the Rotterdam front



IURC Regional Meeting | November 24,2021 | Jos Streng and Richard van der Wulp



Gemeente  
Rotterdam

# A) Focus Areas and Expectations

## Topics

- Sustainable city logistics
- Traffic Models as tools for policy development and evaluation ([www.harmony-h2020.eu](http://www.harmony-h2020.eu))
- Smart Mobility

## Hopes and expectations

- Share ideas and expertise, stimulating discussion
- Find out points of sufficient common interest for a future project or research
- That our language barrier will not frustrate the ambition and enthusiasm

## B) Progress with Korean Counterparts

### In contact with Busan, Sejong and Seoul

- Busan: local contact with Busan Technology Park established, first 1-on-1 contact expected Q1-2022 due to seasonal workload
- Sejong: planning for a video meeting in december
- Seoul: received expression of interest (city logistics, smart mobility)

## C) Plans and expectations for 2022

- Hopefully, the world will get to grips with COVID-19
- We hope and trust that we will be able to set up relations with 2 (perhaps all 3) cities
- We are confident that we will be able to identify feasible ideas to be developed into a project
- We hope for balance in the relations to be established  
inspiring ↔ being inspired, knowledge ↔ action, seriousness ↔ humor





# Rotterdam. Make.It.Happen.

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## Guangzhou Development District - A Brief Introduction to Ecological Transition and Green Development 广州开发区——生态转型和绿色发展简况

LIU Jiangguang, Development and Reform Bureau, GDD

刘江广（广州开发区发展和改革局）

24/11/2021



广州开发区 / 中国

Guangzhou Development District / China



刘江广

**LIU JIANGGUANG**

广州开发区发展和改革局国际合作处处长

**DIRECTOR OF INTERNATIONAL COOPERATION**

**DEPARTMENT, DEVELOPMENT AND REFORM BUREAU**



Area: **484 Square kilometers**  
占地面积: **484平方公里**

Total GDP: **366.2 billion Yuan**  
GDP总产值 **3662.67亿元**

Annual GDP Increase  
during 13th 5-Year plan  
“十三五期间” GDP年均增长: **7%**

Decrease in energy consumption  
能源消费强度下降 **20.02%**

Greenery coverage **42.76%**  
绿化覆盖率 **42.76%**

Population: **1.3 million**  
常住人口: **约130万**

**National Circular Economy  
Demonstration Zone**  
国家循环经济示范园区

**The 1st national green  
production base**  
全国首批绿色生产基地

For 4 consecutive years  
**Best Practice Zone for  
Green Development  
among National-level  
Development Districts**

连续4年国家级开发区绿色发展  
最佳实践园区





通过四个举措推进经济社会全面生态转型和绿色发展  
Promote comprehensive economic and social  
ecological transition and green development  
through four initiatives

1. 强化政策引导，支持绿色产业集聚

Strengthen policy guidance and support green industry  
clustering

- ✓ 从支持循环经济、节能降碳、绿色品牌建设、能源管理、新能源和可再生能源推广应用、重点项目配套、优化绿色产业发展环境等维度构建绿色发展生态体系。
- ✓ Supporting circular economy, energy saving and carbon reduction, green product branding, energy management, new energy and renewable energy promotion and application, key project support, optimization of green industrial development environment to build a green development ecosystem
- ✓ 发布“氢能十条”2.0版，推动氢能产业全链条发展
- ✓ Release the "Ten Incentives on Hydrogen Energy" version 2.0 to promote the whole chain development of hydrogen energy industry
- ✓ 出台全国力度最大的地方绿色金融政策“绿色金融10条”
- ✓ The introduction of the country's strongest local green financial policy "green finance 10"
- ✓ 推出全国开发区首个碳中和奖励政策“低碳十六条”
- ✓ Launched the first carbon neutral incentive policy "Low Carbon Article 16" in China's development districts



广州开发区绿色政策新闻发布会现场  
Green Policy Press Conference, Guangzhou Development District



通过四个举措推进经济社会全面生态转型和绿色发展  
Promote comprehensive economic and social ecological transition and green development through four initiatives

## 2. 实施能耗双控，打造循环经济链条

Implement double control on energy and consumption as well as create a circular economy chain

- ✓ 聚焦节能环保、清洁生产、清洁能源、生态环境、绿色服务等细分领域，培育龙头企业和领军企业
- ✓ Focus on energy conservation and environmental protection, clean manufacturing, clean energy, ecological environment, green services as well as cultivate leading enterprises and leading enterprises
- ✓ 支持企业开展设备升级替换、工艺技术提升、公辅设施节能改造等，打造一批资源节约型环保企业
- ✓ Support enterprises to carry out equipment upgrades and replacements, process technology upgrading, energy-saving transformation of public facilities, as well as help establish resource-saving & environmental protection enterprises



Bus of hydrogen fuel cell 氢燃料电池公交车



New Energy Vehicle Charging Station 新能源汽车充电站



通过四个举措推进经济社会全面生态转型和绿色发展  
Promote comprehensive economic and social  
ecological transition and green development  
through four initiatives

### 3. 优化用能结构，建设高效清洁能源体系

Optimize the structure of energy consumption and build  
an efficient and clean energy system

- ✓ 推进能源体系清洁低碳发展，大力推动集中供热
- ✓ Promote clean and low-carbon development of the energy system and vigorously promote centralized heat supply
- ✓ 推进屋顶分布式光伏开发试点，提高光伏发电建设积极性
- ✓ Promote the development of pilot rooftop distributed photovoltaic, and boost photovoltaic power generation construction
- ✓ 强化重点用能单位监管，开展精细化能源管理
- ✓ Strengthen the supervision of major energy-consumption units and carry out refined energy management



Rooftop Distributed Photovoltaic Power Project  
屋顶分布式光伏发电项目



通过四个举措推进经济社会全面生态转型和绿色发展  
Promote comprehensive economic and social  
ecological transition and green development  
through four initiatives

#### 4. 鼓励绿色创新，加快技术成果转化

Encourage green innovation and accelerate the transition of technological achievements

- ✓ 推动绿色技术创新链、产业链和资金链深度融合，健全绿色技术转移和成果转化体系
- ✓ Promote the deep integration of green technology innovation chain, industry chain and capital chain, as well as improve the green technology transfer and results transformation system
- ✓ 鼓励企业开展绿色技术创新投入，加强节能减排和低碳技术研发与转化应用
- ✓ Encourage enterprises to carry out green technology innovation investment, strengthen energy saving and low carbon technology research and development as well as result transformation







谢谢  
Thank you



广州开发区发展和改革局

Development and Reform Bureau, Guangzhou Development District



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