Sustainable Cities and Communities



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Grade up slam by helping inhabitants

04NATURAL DISASTER

Here you could describe the topic of the section

02

TRANSPORT SYSTEMS

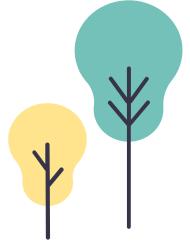
Transport and Mobility, central to sustainable development.

05
PLANS AND POLICIES

Here you could describe the topic of the section

03
URBANIZATION

Change the way of dispose garbages



OT SAFE AND AFFORDABLE HOUSING



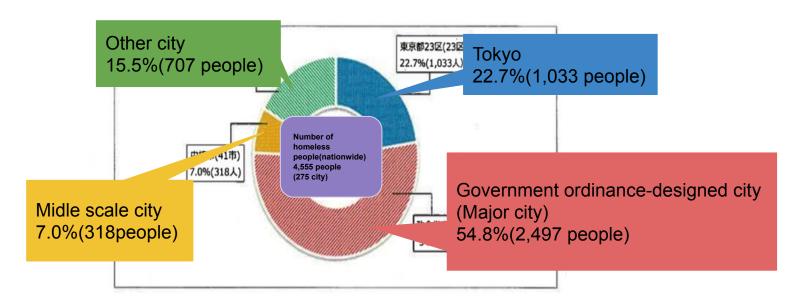
SAFE AND AFFORDABLE HOUSING

By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums.

source: The Global Goals For Sustainable Development

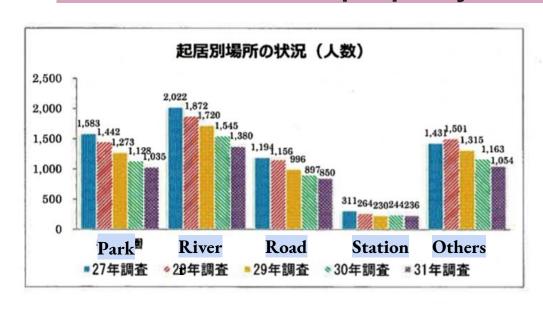
How to upgrade?

Distribution of homeless people throughout Japan (2015~2019)



How to upgrade?

Number of homeless people by location





Shinjyuku station



Upgrade the slam

- The slum population will reach <u>2 billion</u> by the 2030s.
- Not only external support
- Resident participation type

We need to have a sense of ownership



AFFORDABLE AND SUSTAINABLE TRANSPORT SYSTEMS

Safe, affordable, accessible and sustainable transport systems for all.

Sustainable transportation can enhance growth and improve accessibility.

Better integration of the economy while respecting the environment.







Improving social equity.

Improving road safety.

Expanding public transport.

Attention to the needs of persons with disabilities and older persons.

Aim: Global greenhouse gas emissions.



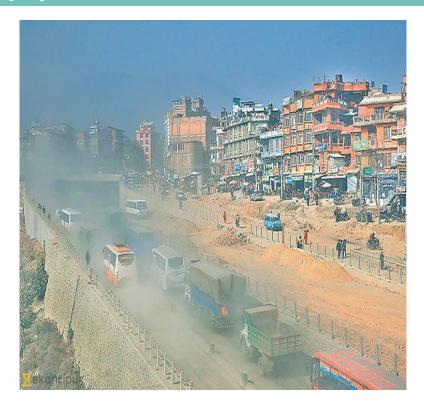


REDUCE THE ENVIRONMENTAL IMPACT OF CITIES (11.6)

Special attention to air quality and municipal and other waste management.

Clean energy, committed to cut CO2 by 40%.

Construction and Demolition waste- Concrete, bricks, gypsum, wood, glass, metals, plastic, solvents, asbestos and excavated soil to recycle.



Green public Procurement, choose environmentally friendly goods, services and works.

Landfill waste for hazardous, non- hazardous and inert wastages.

Management of environmental noise.



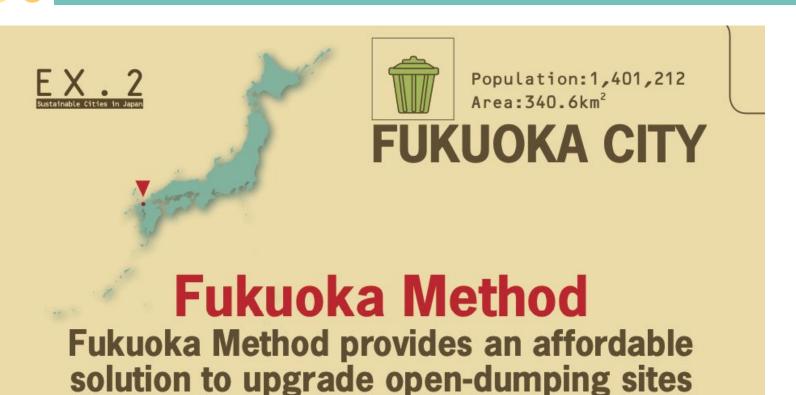
03 URBANIZATION

TARGET 11.3



INCLUSIVE AND SUSTAINABLE URBANIZATION

FUKUOKA CITY



Source: Sustainable Cities In Japan

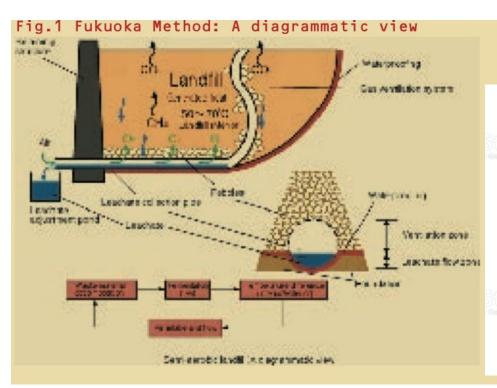
How to dispose of garbage



Make a clear city.



Fukuoka method



70% of city introduce "FUKUOKA Method"



05 Reduce the Adverse Effects of Natural Disasters

TARGET 11.5



By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.

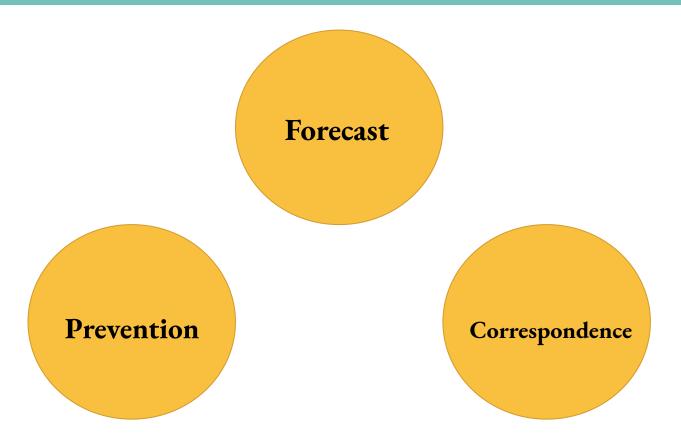
Necessity of international cooperation in disaster prevention fields.

Sendai Framework for Disaster Risk Reduction 2015-2030

→It is a disaster prevention framework adopted internationally.

In this disaster prevention framework, we aim to reduce the risk and loss of disaster in all aspects of disasters.

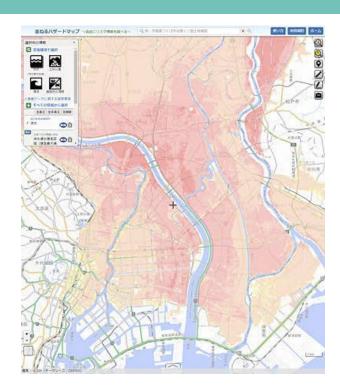
Disaster prevention measures



Forecast

Hazard map





Hazard map is a map of damage caused by a disaster and a map of the extent of damage.



Minimize the risk of disaster

Replace old concrete-block walls with fences that are unlikely to fall.







Seismic strengthening in a house.



Fixing furniture and appliances for fall-prevention.

TARGET 11.7

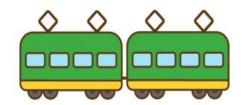


PROVIDE ACCESS TO SAFE AND INCLUSIVE GREEN AND PUBLIC SPACES

Promotion of public transportation.

Many older people can't drive their own car, so there are many situations where they feel inconvenient in their daily life, such as shopping and hospital visits.







Creating a town to live on foot.

→Maintenance of sidewalk and bicycle roads and barrier-free.







Bicycle-only road

Braille block

PLANS AND POLICIES











ACCESS TO PUBLIC RESOURCES

Access to quality education, public transportation, safe health care centres, safety and good air quality

URBAN RENEWAL ACTIONS

Renovation of public spaces into self sustained ecosystem as well as modern irrigation and waste management practices

FAVOURING ETHICAL CONSUMPTION

Promote and encourage ethical consumption, local food production and fair trade that both supports local supply chains and are environmental friendly

REDUCTION OF CO2 EMISSION

Long term shift towards using renewable energies, vertical gardens, alternative means of transport and house hold committment to water and energy saving

REDUCE, REUSE AND RECYCLE

Raise awareness about the importance of recycling and responsible consumption, and create

Infrastructure that allows for minimal waste.

THANKS