



スリランカ・分別回収  
photo: JICA/Yusuke Abe



ネパール・フェワ湖



メキシコ・大気汚染

# JCCI

## ~JICA Clean City Initiative~

To benefit **500 million** citizens in **50** countries by **2030**

JICA addresses waste, water and air pollution, and other environmental problems that cause health problems to create clean cities.



SUSTAINABLE  
DEVELOPMENT  
GOALS



Japan International Cooperation Agency (JICA) supports Sustainable Development Goals (SDGs).

Cover Photo — Waste segregation in Kataragama, Sri Lanka.  
Sorting out fruit and other food waste that can be turned into compost quickly.  
Photo: Yusuke Abe

Twenty cooperation strategies for global issues in four categories

**Prosperity**

- 1 Urban and Regional Development
- 2 Transportation
- 3 Energy and Mining
- 4 Private Sector Development
- 5 Agriculture and Rural Development (Sustainable Food Systems)

**Peace**

- 11 Peacebuilding
- 12 Governance
- 13 Public Finance and Financial Systems
- 14 Gender Equality and Women's Empowerment
- 15 Digital for Development

**People**

- 6 Health
- 7 Improving Nutrition
- 8 Education
- 9 Social Security, Disability, and Development
- 10 Sport and Development

**Planet**

- 16 Climate Change
- 17 Natural Environment Conservation
- 18 Environmental Management
- 19 Sustainable Water Resources Management and Water Supply
- 20 Disaster Risk Reduction through Pre-disaster Investment and Build Back Better

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**Climate Change**

**Confronting the threat of climate change with partner countries**

The global community must mitigate climate change—which has an enormous negative impact on the economy and society—by drastically reducing greenhouse gas emissions. At the same time, it must also adapt to climate change. JICA will contribute to solving global issues in cooperation with partner countries that face the daunting task of addressing development and climate change simultaneously.

**APPROACHES**

1. Promoting the implementation of the Paris Agreement
2. Promoting the co-benefits approach to climate change countermeasures

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**Natural Environment Conservation**

**Inheriting the bounty of nature to the future generations**

JICA is committed to conserving the natural environment, which is important for local communities and for a sustainable global environment. Based on scientific evidence, JICA identifies natural assets that should be protected and assesses their value and current status. It also works with local communities, and utilizing traditional knowledge, aims to balance environmental conservation with human activity [ → see page 34].

**APPROACHES**

1. Protecting the richness of nature on the land
2. Protecting the richness of nature in marine and coastal areas

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**Environmental Management: JICA Clean City Initiative**

**Prevent environmental pollution to create clean cities for healthy lives**

In many partner countries, industrialization and urbanization are progressing without environmental measures, causing serious contamination of water, air, and soil and damaging people's health. Through measures such as waste management and the prevention of water and air pollution, JICA cooperates in creating clean cities and aims to build sustainable societies.

**APPROACHES**

1. Improving waste management and promoting a sound material-cycle society
2. Promoting a healthy environment through appropriate environmental regulations and pollution-control measures

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**Sustainable Water Resources Management and Water Supply**

**For a society with safe water for all people**

JICA helps strengthen the organizations responsible for managing water resources and establish mechanisms for democratic consensus-building among stakeholders in order to resolve issues on water resources in the field. JICA creates "growing water utilities" capable of self-sustaining expansion and improvement of water supply services [ → see page 35].

**APPROACHES**

1. Resolving issues on water resources in the field through integrated water resources management
2. Supporting the growth of water utilities

20

**Disaster Risk Reduction through Pre-disaster Investment and Build Back Better**

**Building nations' resilient foundation for saving lives and developing economy**

Disaster risk reduction (DRR) is the basis for development as it saves people's lives and livelihoods. JICA supports programs on strengthening the capacity of partner countries to augment pre-disaster investment in DRR for the future. By 2030, JICA aims to bring about a downward global trend in the number of deaths, people affected, and economic losses caused by natural hazards.

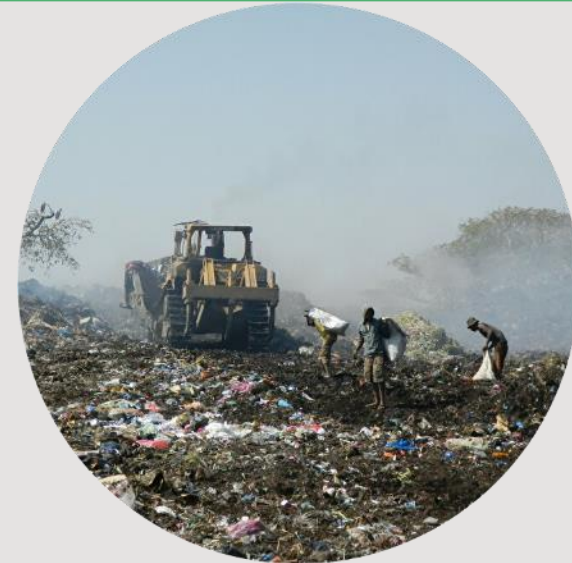
**APPROACHES**

1. Promoting structural measures to support the nation's development foundation
2. Strengthening overall governance for DRR, including nonstructural measures
3. Promoting "Build Back Better"



Piles of waste that keep increasing and plastic waste in the ocean

In Sub-Saharan Africa,  
**70%** of waste is **left**  
in uncontrolled disposal sites



Residential and industrial wastewater released to the environment is causing serious health problems

**3.6 billion people** live  
without **adequate hygiene services**  
such as toilets



Fourth biggest cause of death in the world is  
air pollution caused by industrial activities and cars

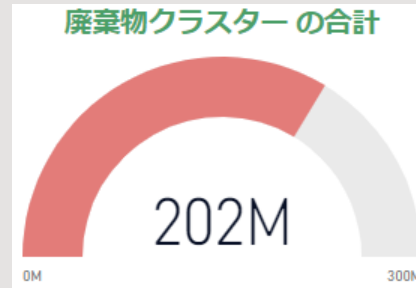
According to data released in 2019,  
**6.67 million** people **died** from Air pollution



JCCI Target (Beneficial Population)



Waste Management



Clean Air & Water



## JICA Clean City Initiatives (JCCI)

● JICA Offices

● Waste Management

● Water Contamination

● Air Pollution

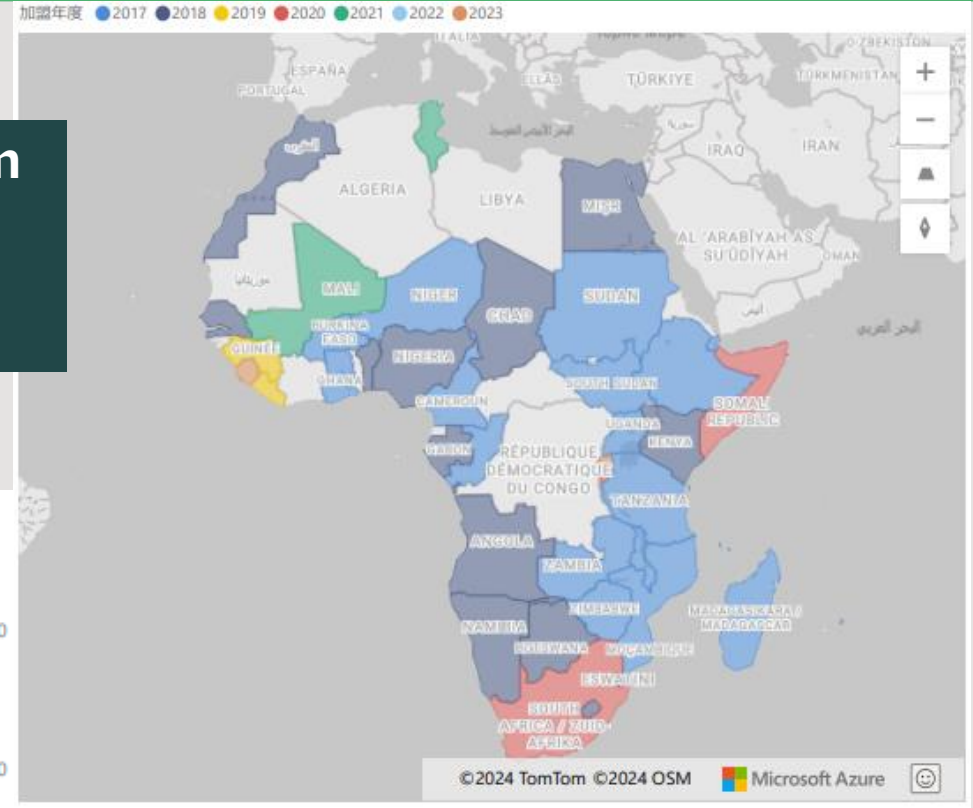
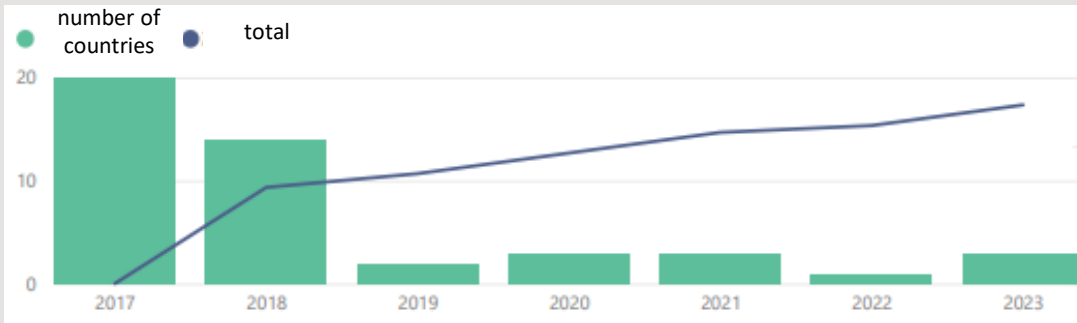
● Misc. Environmental Administration, etc.

44 Countries

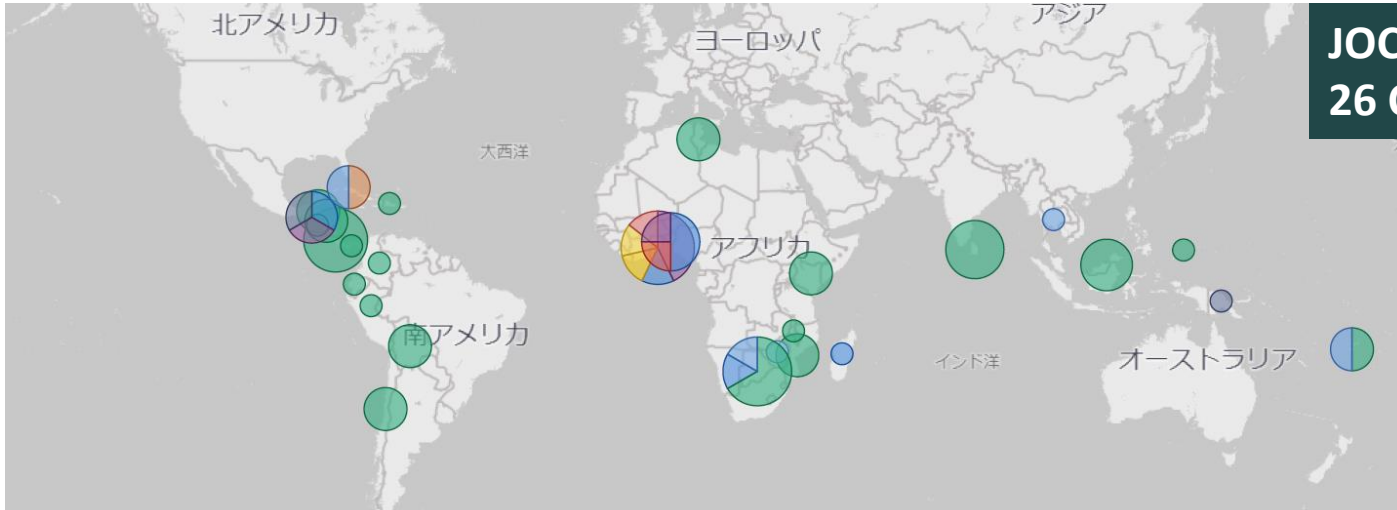
- 35: Waste Management
- 4: Air Pollution
- 8: Water Contamination
- 5: Env. Policy & Administration

**African Clean Cities Platform**  
47 Countries, 175 Cities

**9 JICA Projects in Africa**



- コミュニティ開発 ●マーケティング ●学校保健 ●感染症・エイズ対策 ●環境教育 ●観光 ●自動車整備 ●小学校教育 ●廃棄物処理 ●野菜栽培 ●理科教育 ●理学療法士



**JOCV-Clean City Promotion Team**  
26 Countries, 62 JOCVs

## Highlighting Topics

1

**G7 Ministers' Meeting on Climate, Energy and Environment  
Annex: G7 Roundtable on Subnational Climate Action**

2

**Cluster 2: To realize Clean Air and Water (Jan 2024)**

3

**JICA's Co-Benefits Approach to Climate Change for  
Climate Resilient and Sustainable Development  
(COP28)**

4

**JOCV-Clean City Promotion Team (Collaboration with JOCV)**

5

**Project Formulation (New concept: Regional Approach-9  
countries, Integrated Synergy projects (Bangladesh, Vietnam,  
etc.,))**

## Cluster 1

Improve **waste disposal** structures to create a **recycle-oriented society**

**1** Create and implement a system to collect, transport, and dispose of waste

**2** Reduce waste by introducing segregation and recycling

**3** Support policies that reduce waste generation and promote effective use of resources

## Cluster 2

New

Create a healthy **water, air** through environmental **regulations** and **pollution prevention measures**

**1** Enhance the ability to analyze pollutants to understand the current problems

**2** Develop and implement counter-pollution measures based on scientific evidence

**3** Strengthen controls over pollutant generation while promoting investments in environmental measures

## Steps toward Clean Air & Water

### 1<sup>st</sup> stage

Grasp the current condition, and Information disclosure

- ✓ Data Collection
- ✓ Pollution Monitoring
- ✓ Inventory on Air & Water
- ✓ Assessment on Pollution
- ✓ Information Disclosure

### 2<sup>nd</sup> stage

Consider counter measures, and Actions to prevent pollution

- ✓ Establish law and regulations
- ✓ Action Plan to prevent pollution
- ✓ Law enforcement
- ✓ Public awareness with citizens and business

### 3<sup>rd</sup> stage

Strengthen Pollution control, And Enhance Green Growth

- ✓ Strengthening pollution control
- ✓ Legal framework dev. For Green Growth



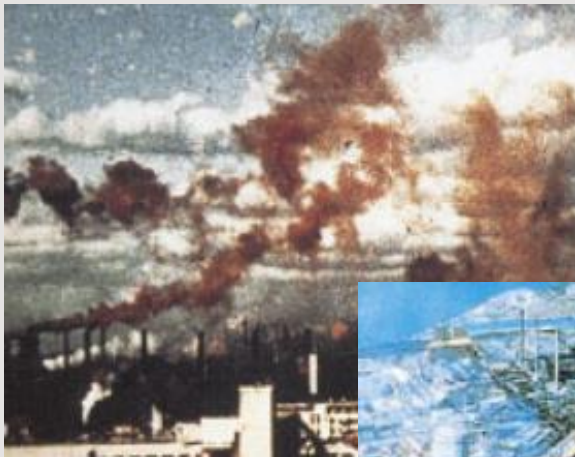
## Environmental Problems

**Air Pollution**

**Water Pollution**

## Overcome Problems

- Collaboration among (Central & Local) Gov., Industry, academia, and the Public
- Innovative & Technology measures
- Finance & Economical incentives
- Awareness on Environment



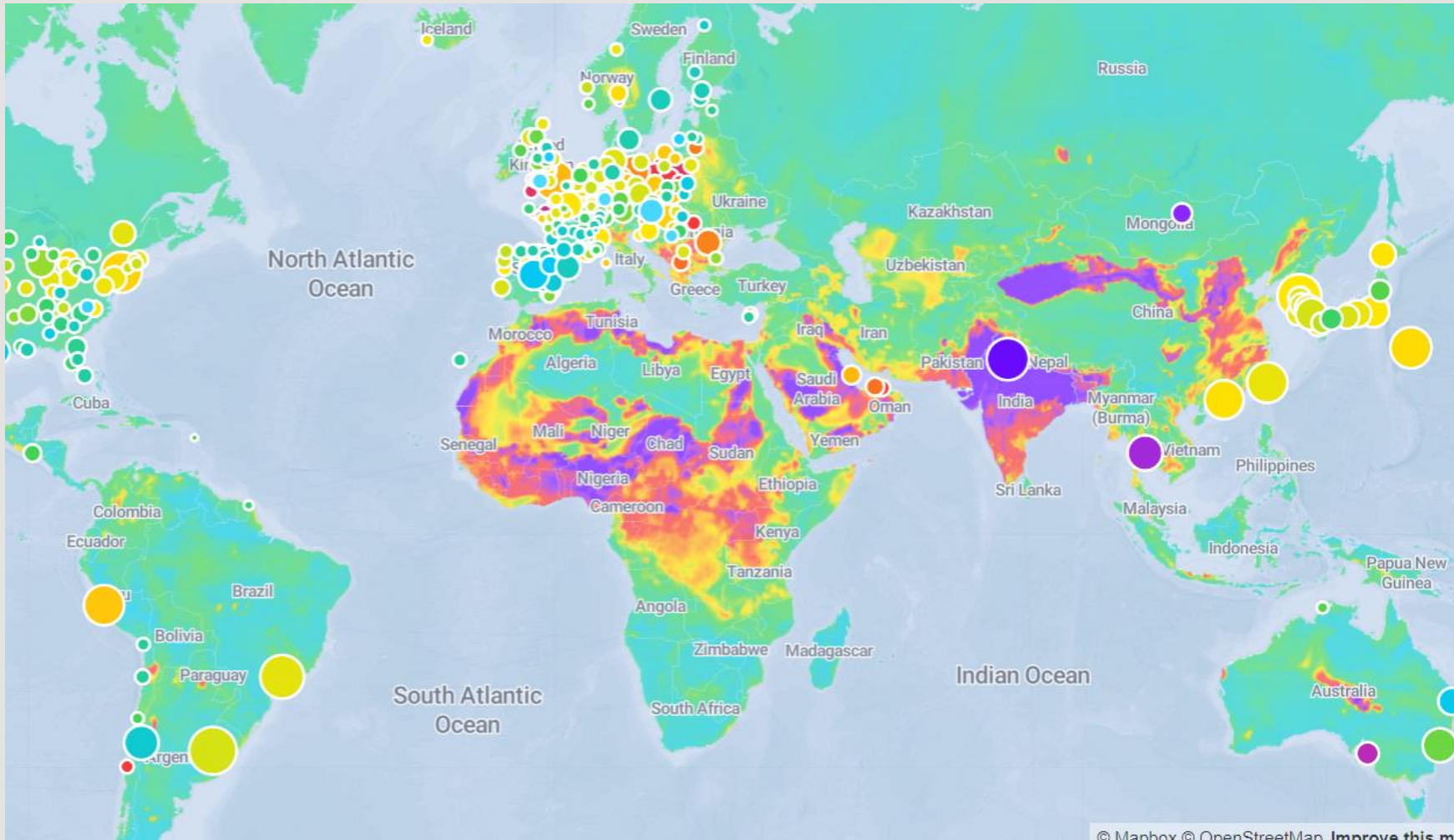
1960'



Now



Source: Kitakyushu City "The resurgence which is miracle from the sky of smoke and a mortal sea



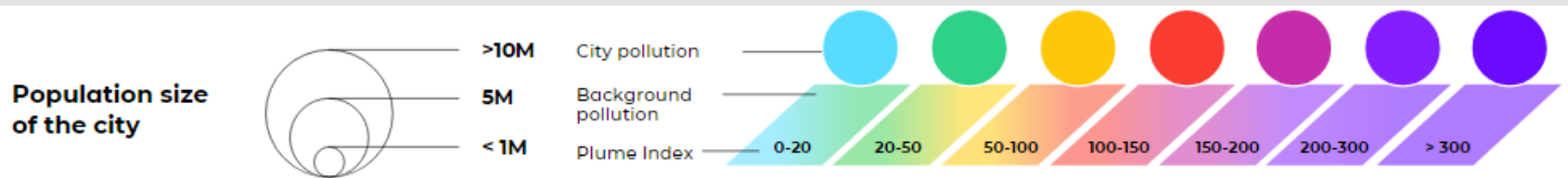
## Air Pollution

Severe Pollution in some part of Asia, Africa

## Health Problems

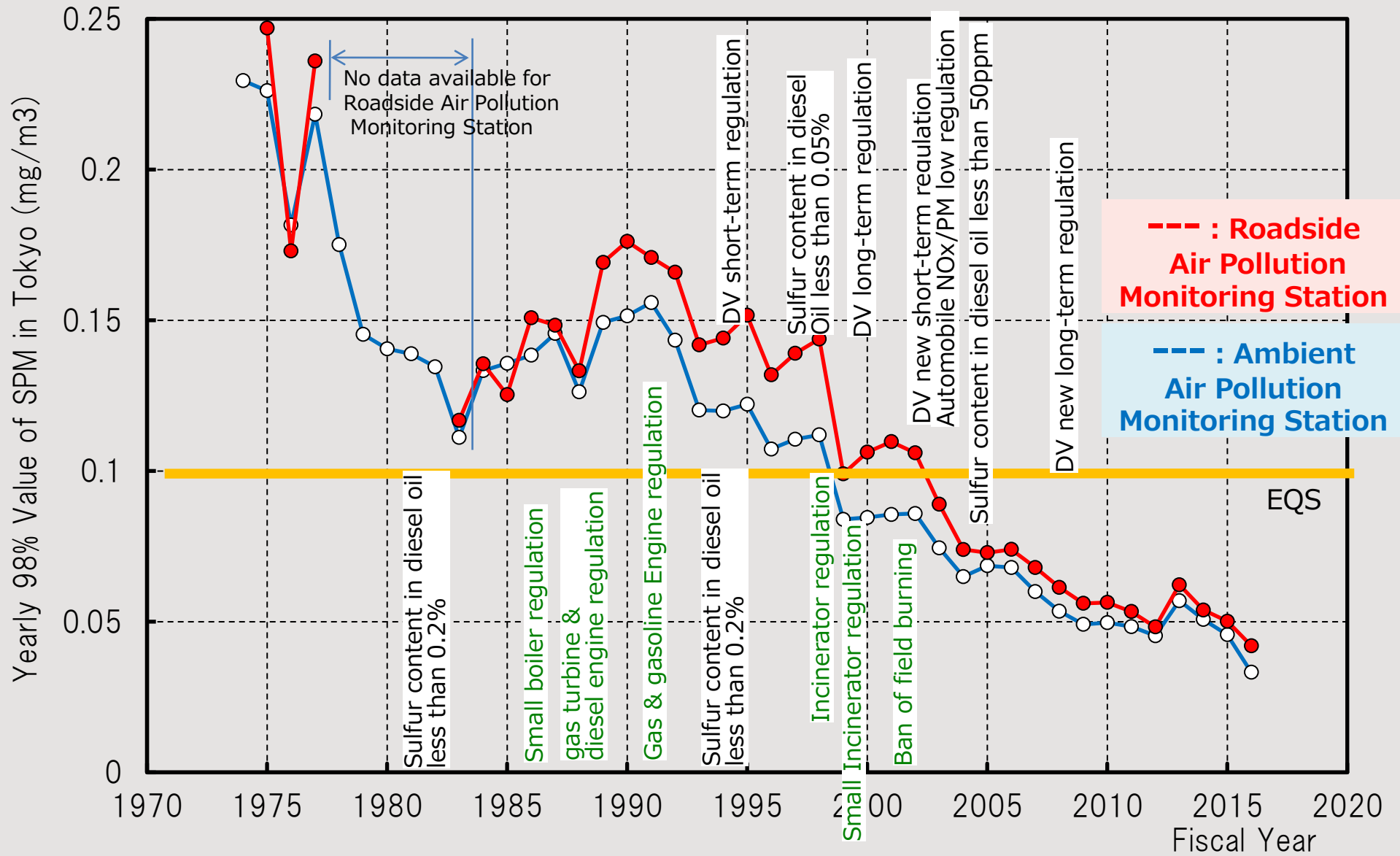
Chronic bronchitis, Bronchial Asthma, etc.,

6.67mil people died from air pollution



Source: World Air Map: Live air quality everywhere in the world (plumelabs.com)

\*SPM: Suspended Particulate Matter

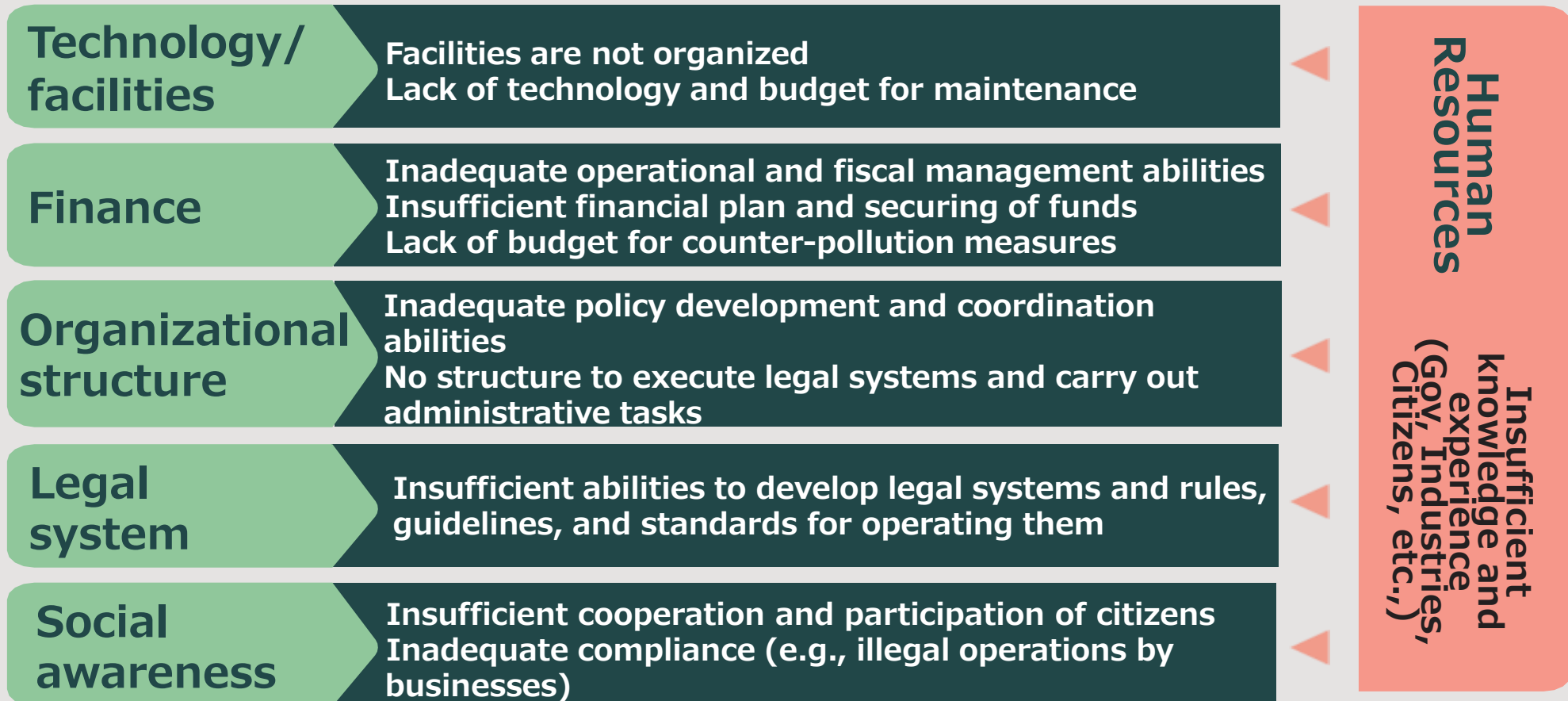


Sources: Shinji Wakamatsu "AQM Conference 2018 ,TEHRAN, 23~24 January 2018  
History of countermeasures against air pollution in Japan~Air pollution trends and related research programs"

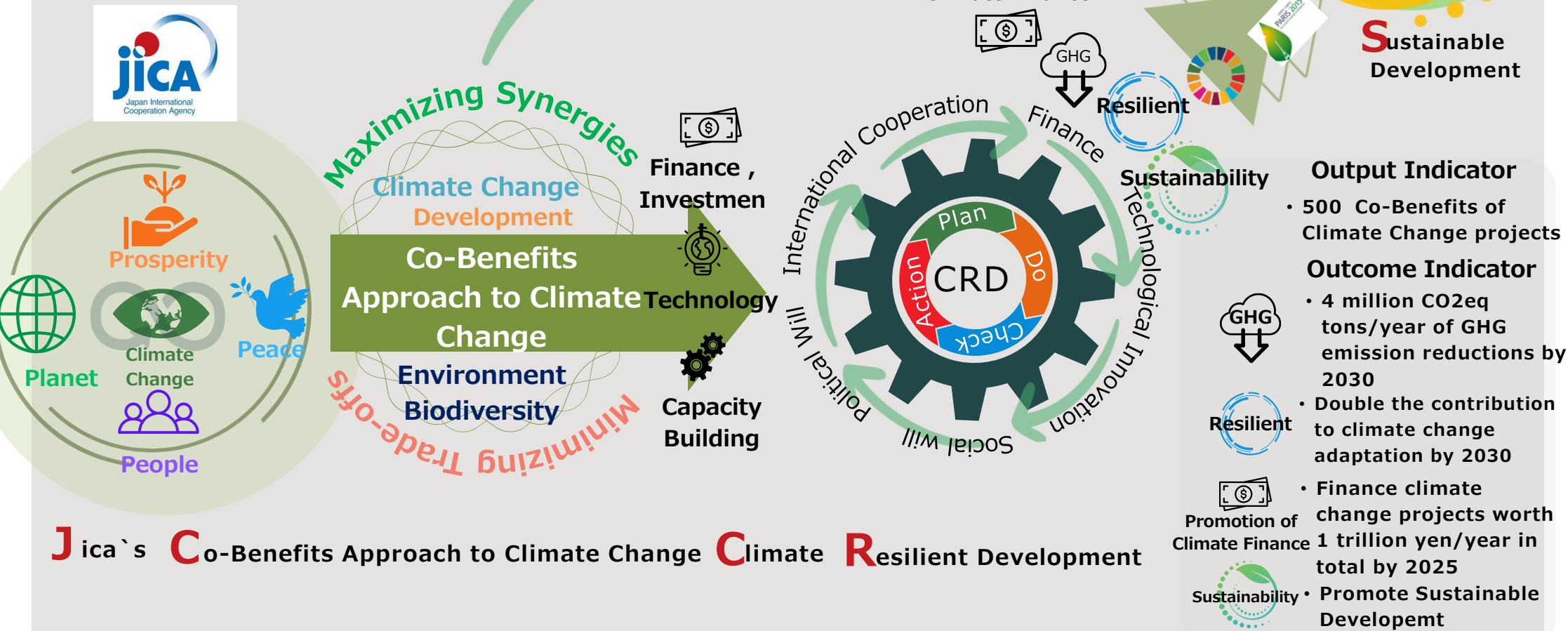
## Basis for common initiatives

Develop human resources who will be in charge of actions ranging from organizing facilities and legal systems to raising social awareness

## Challenges in developing countries



# JCCRS: JICA's Co-Benefits Approach to Climate Change for Climate Resilient and Sustainable Development



Jica's Co-Benefits Approach to Climate Change Climate Resilient Development

# SDGs: Synergies and Tradeoffs

	1. No Poverty	2. Zero Hunger	3. Good Health and Well-being	4. Quality Education	5. Gender Equality	6. Clean Water and Sanitation	7. Affordable and Clean Energy	8. Decent Work and Economic Growth	9. Industry, Innovation and Infrastructure	10. Reduced Inequalities	11. Sustainable Cities and Communities	12. Responsible Consumption and Production	13. Climate Action	14. Life Below Water	15. Life and Land	16. Peace, Justice and Strong Institutions	17. Partnerships for the Goals
Climate Action by Sector																	
Urban and Regional Development																	
Transportation																	
Energy and Mining																	
Private Sector Development																	
Agricultural and Rural Development																	
Health																	
Improving Nutrition																	
Education																	
Social Security / Disability and Development																	
Sport and Development																	
Governance																	
Public Finance and Financial Systems																	
Gender and Development																	
Digital for Development																	
Water Resources and Water Supply																	
<b>Environmental Management</b>																	
Natural Environment Conservation																	
Disaster Risk Reduction																	

## Analysis of Synergies and Tradeoffs

- JICA climate actions has great potential of Synergies
- Tradeoffs can be minimized by existing Guidelines
- Synergies and Tradeoff relationship are context specific
- There are still challenges on how to harness synergies and minimize tradeoffs

■ Synergy  
■ Synergy and Tradeoff

To benefit **500 million** citizens in **50** countries by **2030** !

## To Developing Countries;

- ◆ **Human Security:** Ensure **safe and healthy living environment**
- ◆ **Quality growth:** Realize economic growth which is inclusive, sustainable and resilient
- ◆ **Synergy with SDGs:** Synergies and Tradeoff relationship are context specific

## To Global Environment;

- ◆ **Climate Change:** Prevent the generation of greenhouse gas (e.g. methane) through proper waste treatment
- ◆ **Marine Plastic Pollution:** Prevent the discharge of plastic waste into rivers / oceans, toward realization of **“Osaka Blue Ocean Vision”** (aims to reduce additional pollution by marine plastic litter to zero by 2050 )
- ◆ **Biodiversity:** Prevent further environmental pollution thereby conserving ecosystems



**Thank you  
for your kind attention**

The JCCI logo consists of the letters 'JCCI' in a large, white, bold, sans-serif font, centered over a collage of images. The collage includes a person carrying a blue bucket on their head, a sea turtle swimming underwater, an aerial view of a coastal town, a factory with smokestacks, a man in a blue cap and gloves handing a white bag to a child, and a scenic view of a bay with limestone karsts.

**JICA Clean City Initiative**

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