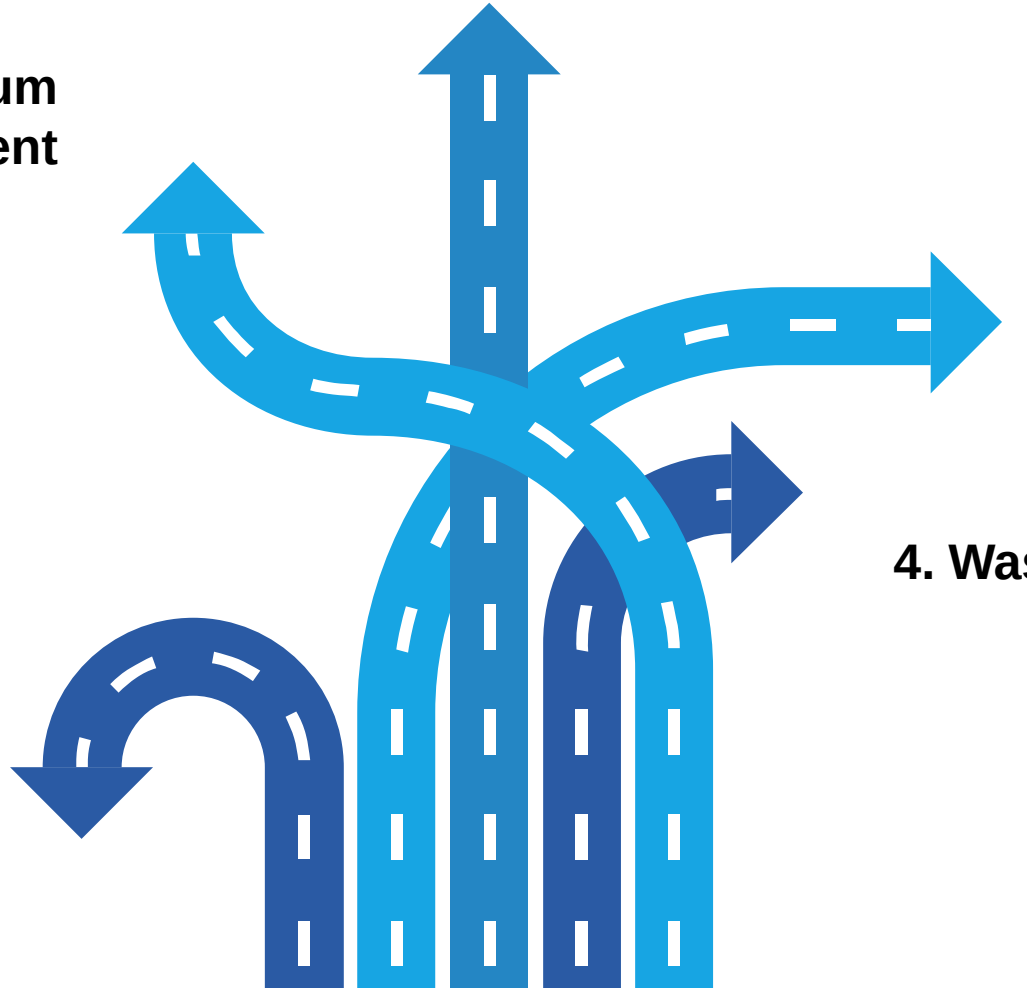
Regional cooperation and environment and health issues of concern

5. Going Forward

1. Asia Pacific Regional Forum on Health and Environment



3. Antimicrobial Resistance with global and regional cooperation

4. Waste management in time of COVID

2. Air quality with global and regional cooperation

ASIA-PACIFIC REGIONAL FORUM ON HEALTH AND ENVIRONMENT

- **Established in 2007** with 14 member countries. In 2016, membership has been expanded to 51 countries and areas. “To create a platform for national and regional policy and action to enhance and safeguard health and environment towards the achievement of SDGs”.

- **Structure:** Meeting of Ministers (highest body); High-level officials meeting; Thematic working groups, and Secretariat composed of UNEP Asia Pacific Office and WHO SEARO and WHO WPRO.

- **Five (5) Thematic Working Groups with chair**
  - i) **Air quality and health** (Republic of Korea and Thailand)
  - ii) **Water, sanitation and hygiene** (Pakistan)
  - iii) **Chemicals, waste, and health** (Japan and Thailand)
  - iv) **Climate change and health** (Philippines)
  - v) **Health impact assessment** (Thailand)

Other topics considered for TWG establishment: Ecosystem and health; Sustainable and healthy cities; Workers’ health

APRFHE INDONESIA 2020-2024

Theme : The Role of Strategic Health and Environment on National Development to Achieve SDGs Goals

Sub-Theme:

1. Climate Change and Health
2. Environment, Healthy and Smart City
3. Environment and Efforts to Reduce Mortality and Morbidity
4. Environment and Intervention to Reduce Stunting
5. Environment and Tuberculosis

Focus Activities:

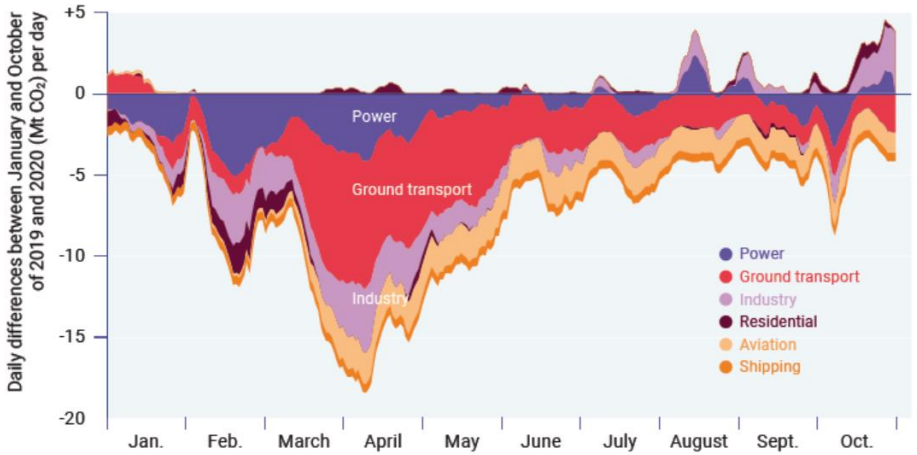
1. Access to safely drinking water
2. Community based-total sanitation
3. Management of hazardous chemical in environment, industry, food and agriculture
4. Wastes management
5. Building healthy public facilities and workplaces
6. Action in climate change, ozone depletion and ecosystem change
7. Contingency planning, preparedness and response in Environmental Health emergencies
8. Reducing environmental risk factors associated with stunting
9. Health Impact Assessment

UNEP's Emission Gap Report 2020

https://www.unenvironment.org/emissions-gap-report-2020

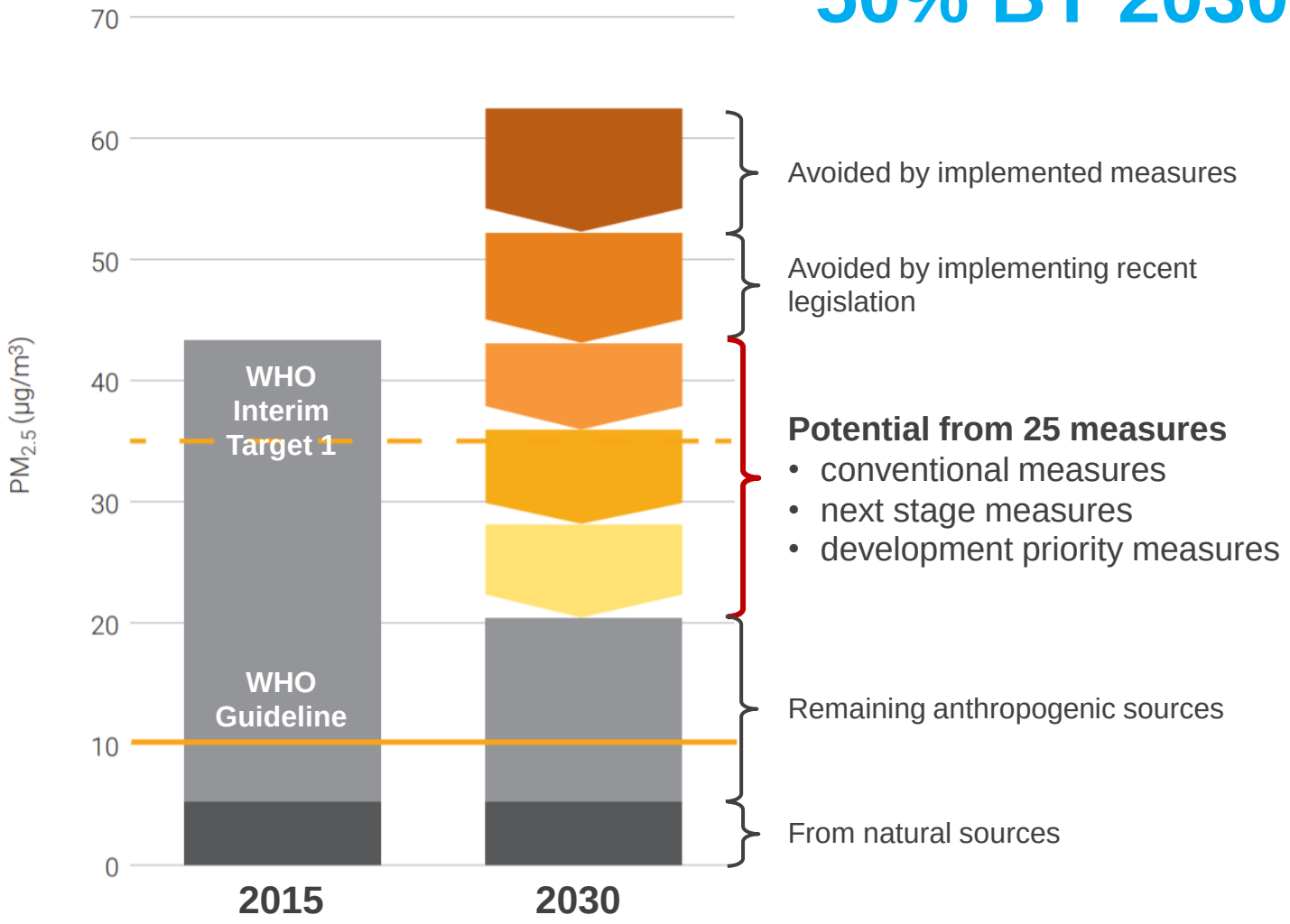
- Despite a brief dip in carbon dioxide emissions caused by the COVID-19 pandemic, the world is still heading for a temperature rise in excess of 3°C this century – far beyond the Paris Agreement goals of limiting global warming to well below 2°C and pursuing 1.5°C.
- Fiscal COVID-19 spending has so far primarily supported the global status quo of high-carbon economic Production.

Figure 2.5. Reduction in emissions in 2020 relative to 2019 levels due to COVID-19 lockdowns



Source: Liu *et al.* (2020)

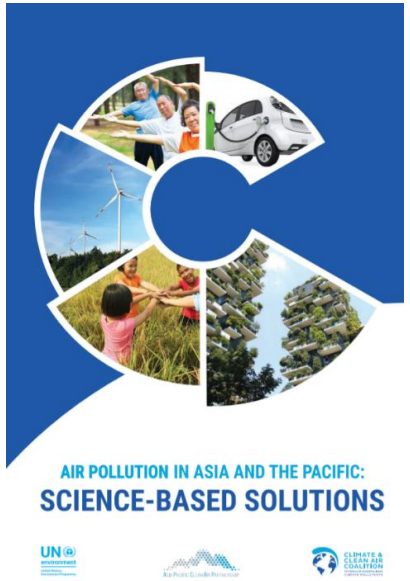
WITHOUT POLICY INTERVENTIONS, EXPOSURE TO PM2.5 WOULD INCREASE BY 50% BY 2030



Measures contribute to SDGs and climate action

	SDG benefits	Climate forcers		
		CO_2	CH_4	BC
Post-2015 legislation relative to 2015	Goal 3	+16%	+17%	-24%
Conventional measures relative to 2030 baseline	Goal 3, 15	0%	0%	-8%
Next-stage measures relative to 2030 baseline	Goal 2, 3, 15	0%	-29%	-56%
Development priority measures relative to 2030 baseline	Goal 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15	-19%	-44%	-72%

UN environment programme



REGIONAL ASSESSMENT

Air Pollution in Asia Pacific: Science-based Solutions

The report identifies a solutions package with 25 cost-effective policy and technological measures and developed in collaboration between UNEP, APCAP, and CCAC.

https://ccacoalition.org/en/solutions

The 25 measures can be summarized in 3

01 FULL APPLICATION OF CONVENTIONAL MEASURES

- Strengthen emission standards for industrial process and vehicles
- Improve post combustion controls
- Control dust from construction and roads; increase green space

02 NEXT STAGE MEASURES NOT YET COMPONENTS OF CLEAN AIR POLICIES

- Properly manage agricultural residues and municipal waste
- Properly manage livestock manure and nitrogen fertilizer application
- Improve solvent use and refinery controls
- Introduce efficient brick kilns technology

03 MEASURES WHICH CONTRIBUTE TO DEVELOPMENT PRIORITIES WITH AIR QUALITY BENEFITS

- Clean cooking and heating
- Promoting use of electric vehicles
- Renewables for power generation
- Improved public transport
- Energy efficiency for households and industry

Overview of selected cooperation frameworks on air pollution

Source: Adapted from Elder, 2014 (IGES)

	Framework/ Secretariat	Focus/ Functions	Focus/ Pollutants	Scope
Intergovernmental	**Acid Deposition Monitoring Network in East Asia (EANET)/ UNEP**	Monitoring, research, cap. bldg., awareness raising	Acid deposition (expansion under discussion)	13 East Asian countries
	ASEAN Haze/ ASEAN Secretariat	Information sharing, capacity building, monitoring	Haze	ASEAN member states
	NEASPEC / ESCAP East and NorthEast Asia	Capacity building, Research, Policy Development	Transboundary	North east Asian countries
	Asia Pacific Regional Forum on Health and Environment (APRFHE)	Knowledge sharing platform	Environment and health	Member states of UNEP Asia Pacific, WHO SEARO, WPRO
	Male Declaration	Monitoring, research, cap. bldg., awareness raising , policy support	Criteria pollutants	South Asian countries
Networks/partnerships	**Asia Pacific Clean Air Partnership (APCAP)**	Knowledge sharing platform science-policy, capacity building,	Air pollution and impacts, solutions	16 countries 20 networks
	North-East Asia Clean Air Partnership / ESCAP East and North East Asia	Science-based, policy-oriented cooperation	Air pollution	North east Asian countries
	Breathelife campaign	Campaign	Air pollution	Global
	Clean Air Asia	Knowledge, promoting policy & action	Air quality management	General Asia
	Climate and Clean Air Coalition (CCAC)	Knowledge sharing, awareness raising, capacity building	Short-lived climate pollutants	Global

Overview of organizations / networks working on air pollution in Asia Pacific

UN environment programme

World Health Organization

UNITED NATIONS ESCAP
Economic and Social Commission for Asia and the Pacific

unicef

THE WORLD BANK

ADB

SACEP

EANET

ASIA PACIFIC CLEAN AIR PARTNERSHIP

asean
Transboundary Haze Pollution Agreement

ICIMOD

NEASPEC

CSE

C40 CITIES

CLIMATE & CLEAN AIR COALITION
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS

ACP ASIAN Co-benefits Partnership

Vital Strategies

teri

CLEAN AIR ASIA

AIR QUALITY ASIA
www.AirQualityAsia.org

BREATHE LIFE
Clean Air. Healthy Future.

ICLEI Local Governments for Sustainability East Asia

EACAC
EAST ASIA CLEAN AIR CITIES

Partnership for Clean Fuels and Vehicles

URBAN emissions .info

GREENPEACE

MONITORING

Acid Deposition Monitoring Network in East Asia (EANET): established in 2001 as an intergovernmental initiative in East Asia to **create common understanding** on the state of acid deposition problem in East Asia, **provide scientific-based reference** for governmental decision-making process, and **encourage cooperation** among participating countries.

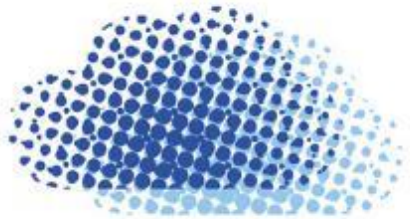
Participating countries: Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Mongolia, Myanmar, Philippines, Republic of Korea, Russia, Thailand, and Viet Nam. **UNEP serves as Secretariat for EANET.**

Major activities: acid deposition monitoring, data compilation and analysis, promotion of quality control & assurance, technical support & capacity building, research, public awareness, and cooperation & information exchange with other initiatives.

Current Development: EANET is currently finalizing its third Medium-Term Plan (2021-2025), with a strong willingness to **expand the scope of activities from acid deposition to include air pollution.**

Read the RPM4 Report

Awareness Forum on Prevention of Air Pollution, Bangkok 2019



International Day of Clean Air for blue skies

Clean air commitments at the 2019 UN Climate Action Summit

40 national and 70 city governments committed to achieving air that is safe to breathe by 2030, through implementing air quality and climate change policies.

Adoption of the International Day on Clean Air for Blue Skies on 7 September

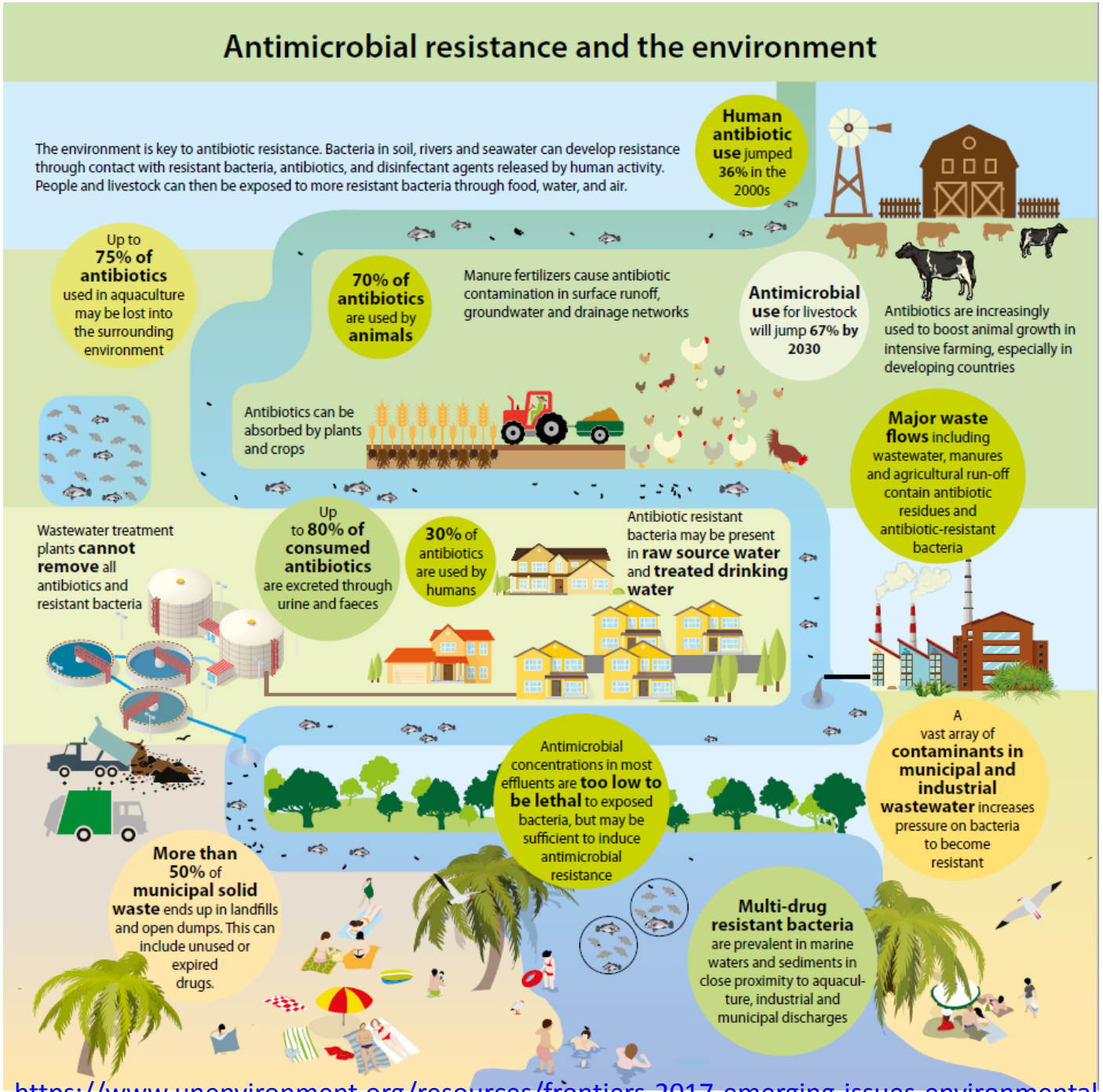
Ground-breaking protocol in place with targets to reduce air pollution

In October 2019, an updated Gothenburg Protocol entered into force. First established in 1999, the protocol sets forth legally binding emissions reduction commitments for 2020 and beyond, for major air pollutants.

Breathelife campaign

BreatheLife campaign mobilizes cities and individuals to protect our health and our planet from the effects of air pollution. The network now includes **26 cities, regions and countries from Asia** Pacific.

Beat Air Pollution | WORLD ENVIRONMENT DAY | CHINA 2019 | UN environment



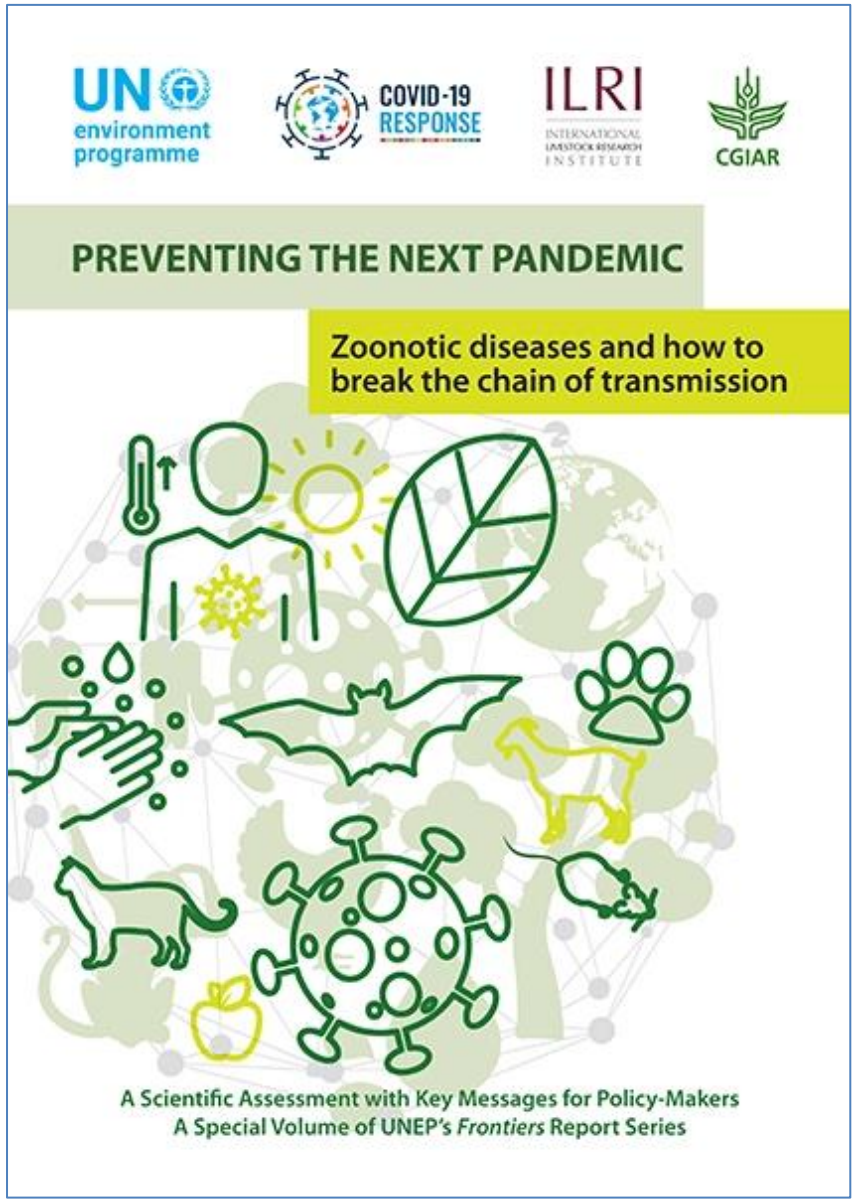
https://www.unenvironment.org/resources/frontiers-2017-emerging-issues-environmental-concern

AMR

- Major Waste flows including wastewater, manures and agricultural run-off contain antibiotic residues and antibiotic-resistant bacteria
- Superbugs, multi-drug resistant bacteria are prevalent in coastal and marine waters and sediments in close proximity to aquaculture, industrial and municipal discharges.
- **Overuse and inadequate use of anti-biotics is a major problem in Asia where solid waste segregation and disposal and wastewater treatment are lacking.**
- **Ownership of AMR is often absent in the environment sector.**

The One Health Approach

- The 'One Health' term refers to the interconnectedness of human, animal, plant and environmental health.
- Addressing **AMR must take a multi-sectoral, multi-disciplinary approach and ensure communication, collaboration, and coordination among all relevant ministries, agencies, stakeholders, sectors, and disciplines, for optimal action.**
- Adopting a 'One Health' approach, which unites medical, veterinary and environmental expertise, helps governments, businesses and civil society achieve enduring health for people, animals and environments alike.



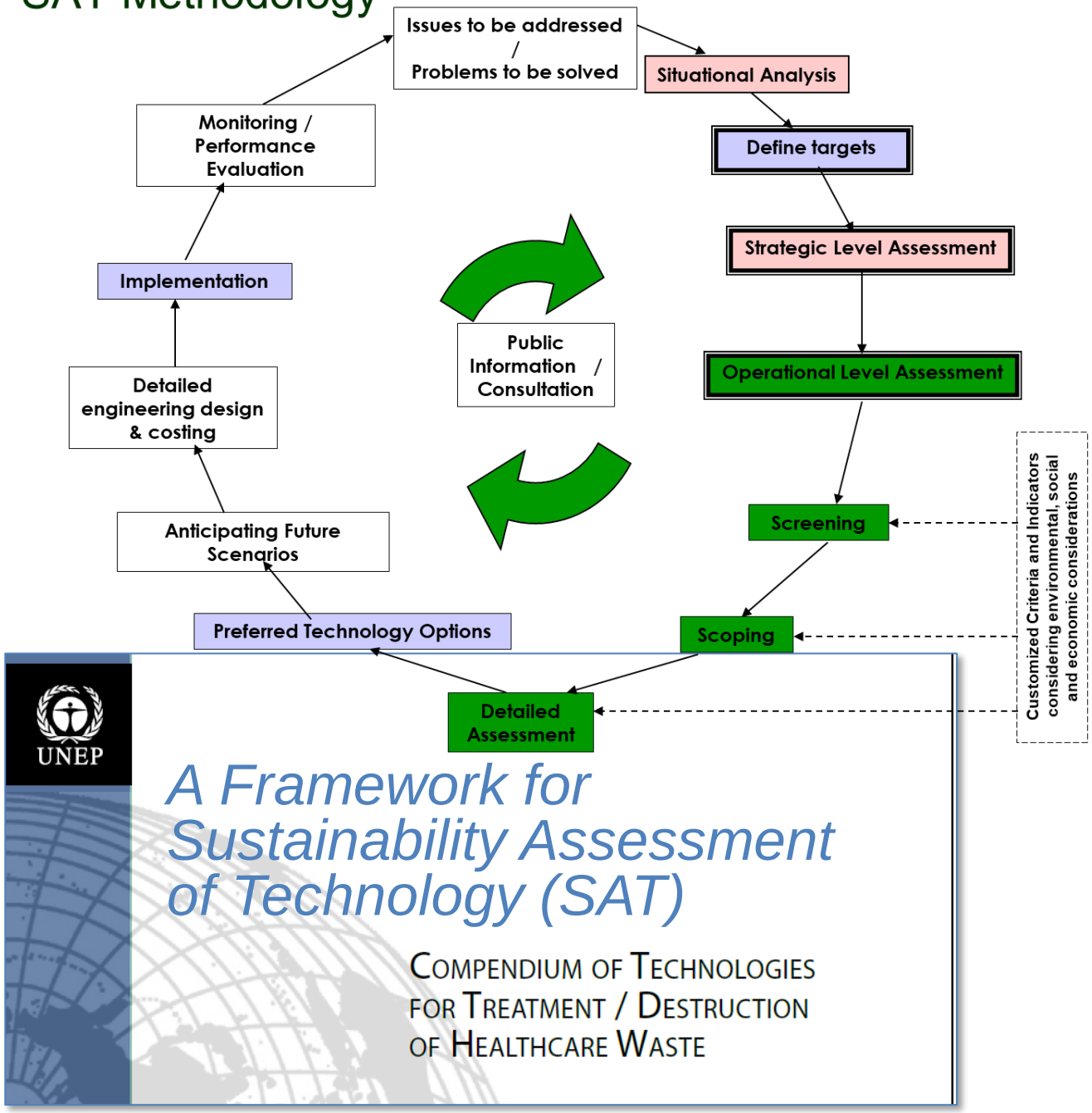
https://www.unenvironment.org/events/webinar/advancing-one-health-response-antimicrobial-resistance-amr
https://www.unenvironment.org/explore-topics/chemicals-waste/what-we-do/emerging-issues/antimicrobial-resistance-global-threat

https://www.unenvironment.org/resources/report/preventing-future-zoonotic-disease-outbreaks-protecting-environment-animals-and

The COVID-19 pandemic is generating more waste

1. Ensuring sound management of infectious waste
2. Maintaining sound waste management and sanitation services in urban settings

A staff member collects and transfers medical waste at the Henan Provincial People's Hospital in Zhengzhou, central China's Henan Province, 3 March 2020. *Xinhua/Hao Yuan via Getty Images*



Police raid factory packing used medical gloves for sale

Bangkok Post. PUBLISHED : 12 JAN 2021 AT 17:40
https://www.bangkokpost.com/thailand/general/2049783/police-raid-factory-packing-used-medical-gloves-for-sale

The COVID-19 pandemic has triggered new waste market

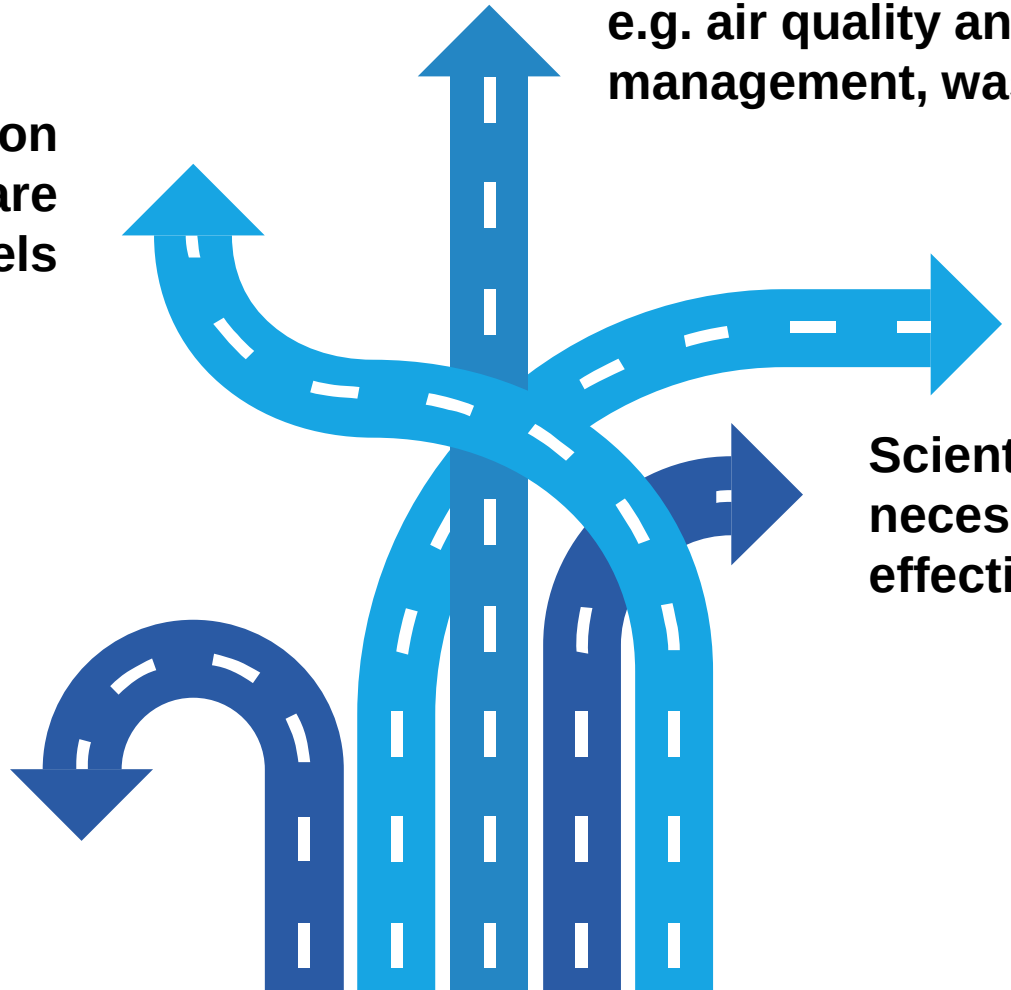
Regional cooperation and environment and health issues of concern

UN environment
United Nations Environment Programme

GOING FORWARD

Prioritize measures with confirmed environment and health linkages, e.g. air quality and climate, solid waste management, wastewater treatment

Inter-sectoral coordination and partnerships are essential at all levels



Scientific assessments are necessary to develop effective action plans

Awareness raising and mainstreaming environment and health in the respective sectors

謹賀新年

Kakuko Nagatani-Yoshida
Regional Coordinator for Chemicals, Waste and Air quality
UN Environment Programme Asia and the Pacific Office
UN Building, Rajadamnern Nok Avenue, Dusit,
Bangkok 10200, Thailand
Tel: +66 2288 1679
Email: nagatani-yoshida@un.org
http://www.unenvironment.org