

Healthy Urban Development

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Asian Development Bank

GMS Regional Health Cooperation Meeting

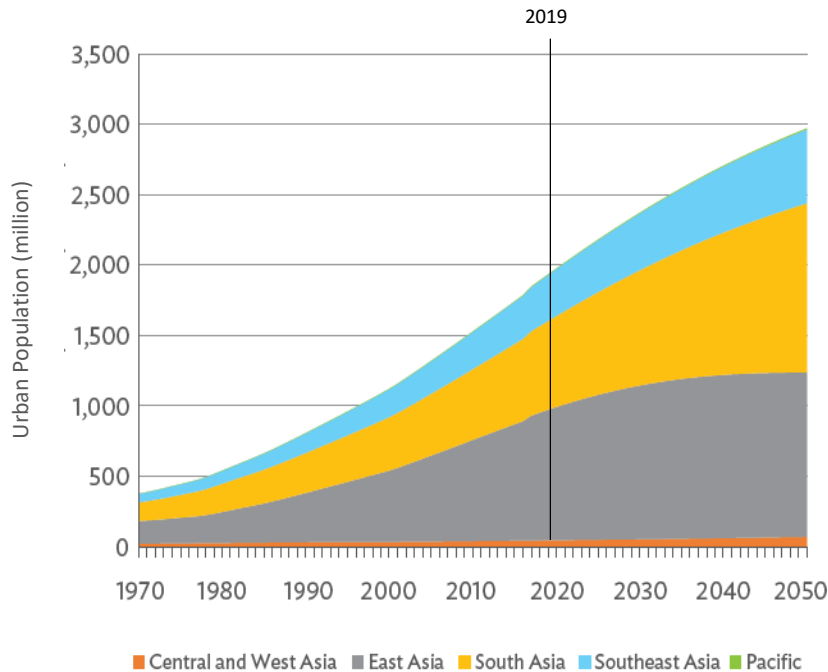
Dec 12-13, 2019

Bangkok, Thailand

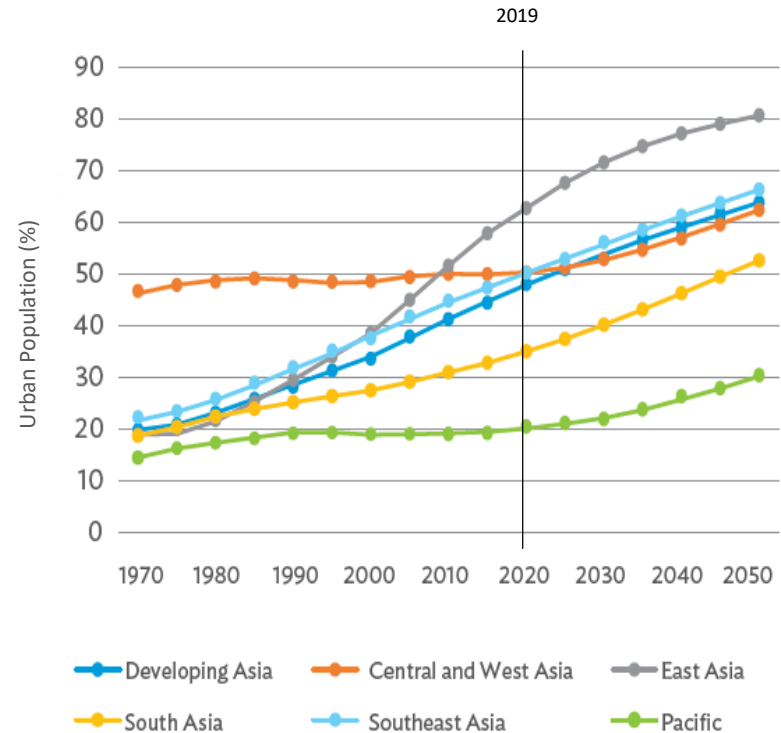


Urbanization Trends in the Region

Region-wise Urban Population



Region-wise Urban Population Trends



54%

Population

The Asia and Pacific region is home to more than **56%** of the world's total population and **54%** of the world's urban population.

20

Global Cities

The region has some of the most populated and densest cities in the world with **20** of **the 33 global megacities** (population of 10 million or more) in the region.

Urban Sector Challenges in the Region



Population

Urban Population Growth

- 1.95 billion (48%) in 2020;
- 2.35 billion (54%) in 2030; and
- 2.95 billion (64%) in 2050.
- About 120,000 migrate daily to Cities

Environment

Environmental Stress and Degradation, Climate Change and Disaster Risks

- 80% of energy consumption is in cities
- 75% of carbon emissions are from cities
- 40% of global disasters and 84% of people affected are in the region
- 4.5 million annual deaths in the region due to air pollution

Governance

Governance and Institutional Capacity

- weak institutional structures,
- lack of coordination,
- poor public services
- lack of revenues
- capacity constraints, despite decentralization

Social

Social Dimensions, Aging Societies, and Labor Market Disparities

- 564 million of the world's slum dwellers (>60%) are in the region
- Many countries will have more than 20% of population aged 65 or older by 2050
- By 2030 about 66% expected increase on people 60+ years old

Infrastructure

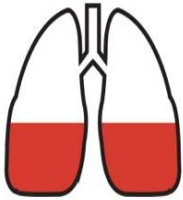
Infrastructure Deficits and Overstretched Public Services

- 75% of municipal waste collected but only > 60% treated
- > 90% people have access to safe water supply
- >20% of wastewater treated



THE INVISIBLE KILLER

Air pollution may not always be visible, but it can be deadly.



36%
OF DEATHS FROM
LUNG CANCER



34%
OF DEATHS FROM
STROKE



27%
OF DEATHS FROM
HEART DISEASE

AIR POLLUTION ISSUE GLOBALLY

Over 80% of urban residents are exposed to air quality levels that exceed WHO limits



BREATHELIFE.

Clean Air. Healthy Future.



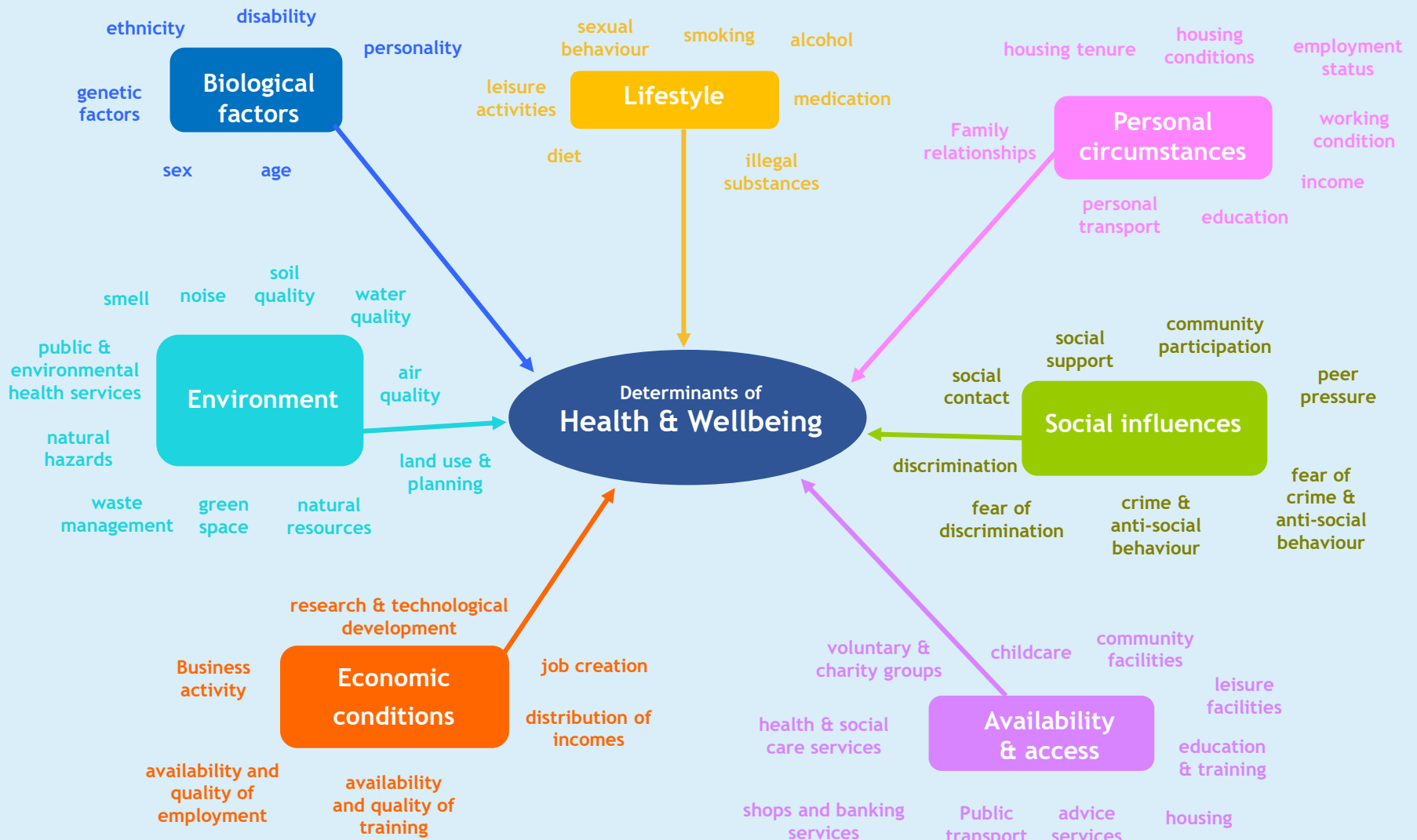
World Health
Organization



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

SEE YOUR OWN CITY'S LEVEL AT: [BREATHELIFE2030.ORG](https://www.breathelife2030.org)

Determinants of Health



Creating Livable Cities: Regional Perspective

The world's urban population has grown tremendously.



1950: **751 million**
(30% of the total population)

2018: **4.2 billion**
(55% of the total population)

2030: **5.2 billion**
(60% of the total population)

2050: **6.7 billion**
(68% of the total population)

Cities across the RDB regions face common urban development issues.



- Infrastructure deficits and overstretched public services
- Environmental stress and degradation
- Increased vulnerabilities to disasters and climate change
- Unequal access and affordability issues
- Labor market disparities
- Social cohesion at risk

Despite their urban development challenges, cities around the world can capitalize on significant opportunities, through:



- Integrated and flexible urban planning
- Data and technology for better-informed decision-making
- Green economies and green finance
- Low-carbon and resilient urban infrastructure and services
- Synergistic investments in city-regions
Localizing global agendas

What can we achieve if we partner with the urban, transport and energy sectors?

PREVENTION

1.35 million deaths due to road accidents and 20-50 million non-fatal injuries

1

REDUCTION

Disease and hospital admissions for the 1.9 billion overweight adults

4

PREVENTION

4.2 million air pollution related diseases

2

PREVENTION

15 million deaths from non-communicable diseases

5

PREVENTION

3.4 million deaths each year from water related diseases

3

CO-BENEFIT

Significant co-benefits of health and climate change, with energy and transport

6



Healthy Solutions for Transport and Energy

Biomass gas



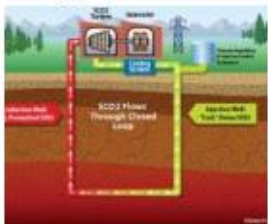
Hydrogen fuel-cell buses



Smart grids for industrial



Deep well geothermal



Supporting super ESCOs Coke oven gas to LNG



E-Vehicle



NG filling and E-V charging stations



Distributed solar PV



Combined biomass heating and power generation



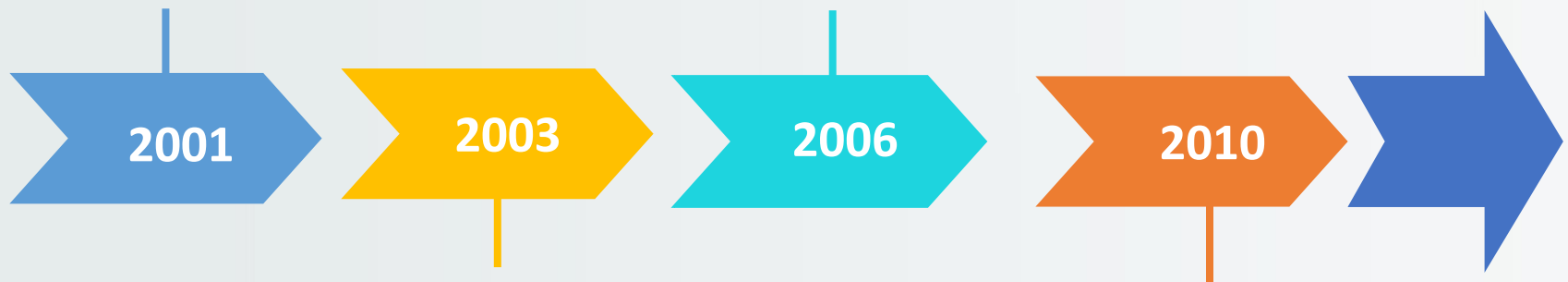
Clean district heating and cooling



Example in Taiyuan, China

- increasing levels of PM, SO_x, NO_x, CO, Ozone
- **PM10 : 196 µg/m³**
- Supportive national policies on pollution control

Supportive national policies energy reduction



- **Cost of pollution was USD 1.1 billion (3.7% of Taiyuan GDP)**
- Industrial restructuring
- Regulation audits
- Emission abatement programs declared coal free areas

- **PM10 : 89 µg/m³**
- Prevented :
 - 2810 premature deaths
 - 951 new cases of chronic bronchitis
 - 141,457 cases of outpatient visits
 - 969 cases of emergency room visits



High Impact Solutions



Greening public buildings and roofs

Universal access to clean and affordable fuel



Mass public transport



Emission testing of vehicles before registration



Energy-efficient power generation



What can we do now?



Leadership in the health sector

Health in All policies: How can this project improve quality of life and community well-being?



Resilient Cities

1. Is the health system prepared for the inevitable climate related disasters such as warming and flooding?
2. Do we have the tools and capacity to be resilient?



Clean the Air

How can the transport, energy and urban sectors provide essential services without harming people and the environment?



Thank you!

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