Updates from ADB's health impact assessment and healthy project design initiative

Gene Peralta
HIA Adviser (Consultant)

SDCC: TA 8763

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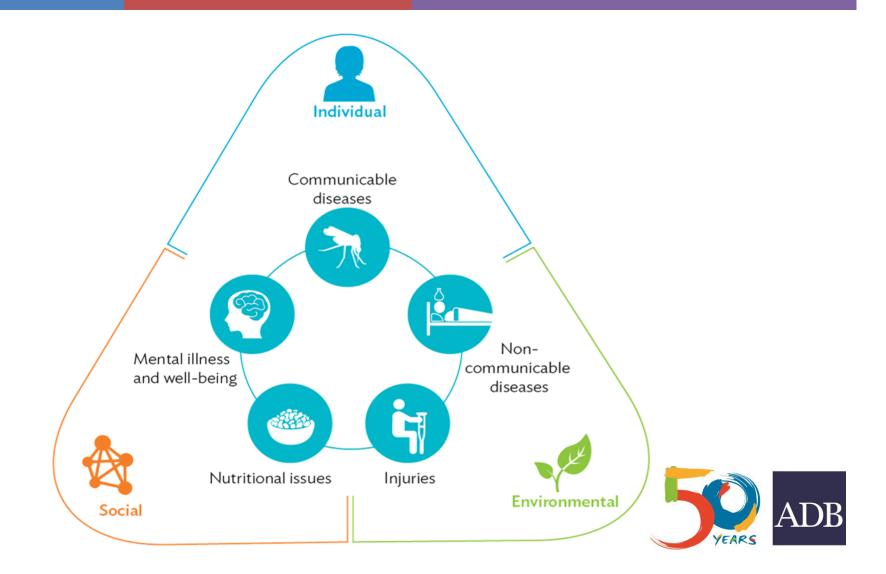
TA 8763 Outcome 6: Promotion and Prevention

Increased capacity to apply health impact assessment to consider determinants of health and communicable diseases in infrastructure projects

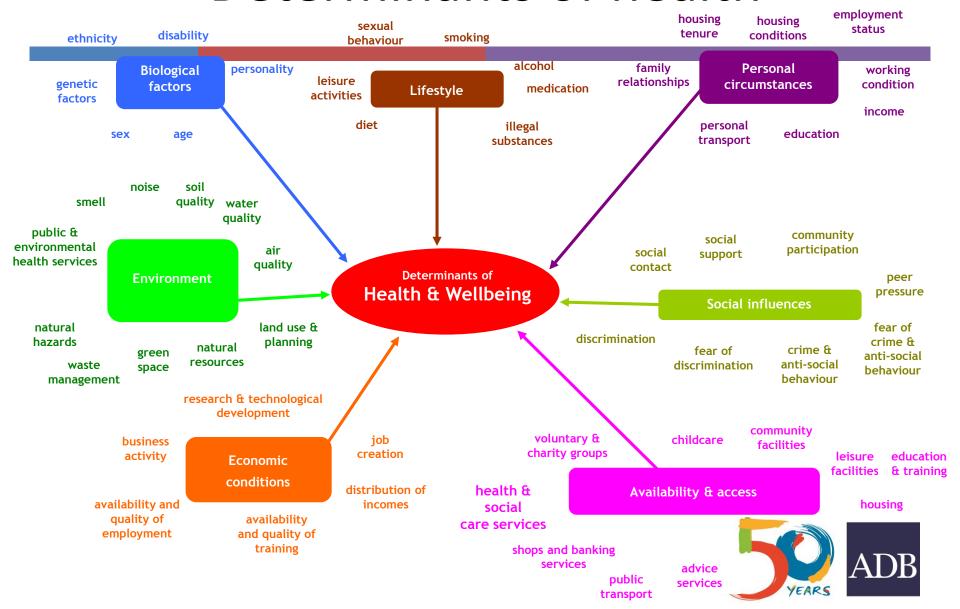
Outcome 6.1: Application of HIA in infrastructure projects at country level

Outcome 6.2: Increased capacity to apply HIA at ADB

5 health outcomes and 3 determinants



Determinants of health

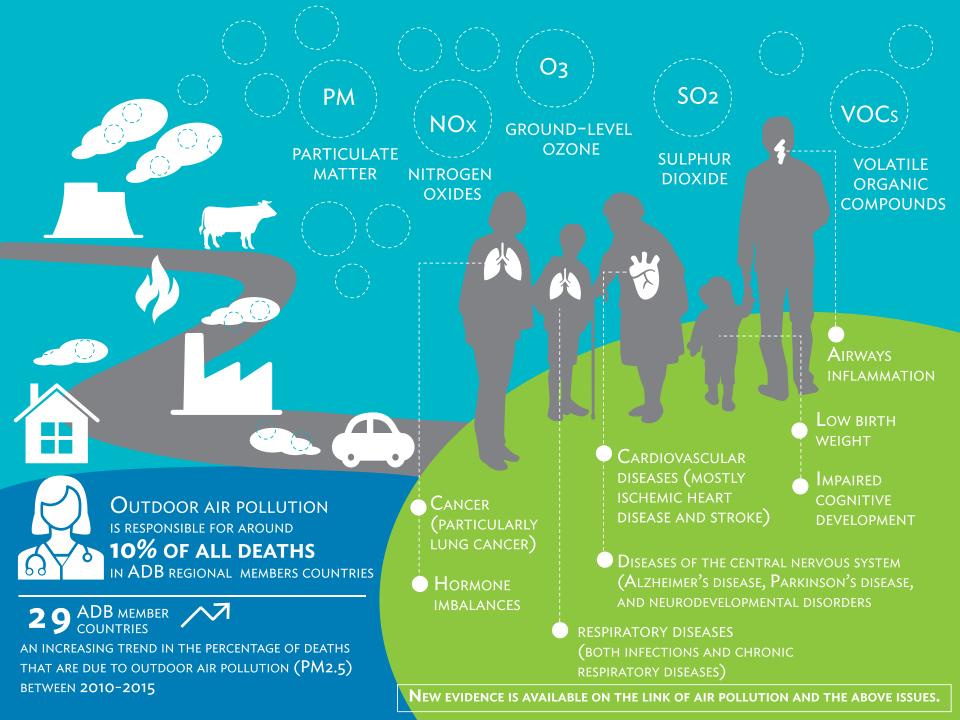


Air Quality and Health

Resource persons on health for the SDES training course on Air Quality on April 4-6, 2017 at ADB HQ

- Human Health Consequences from Air Pollution Susann Roth
- Air Quality in Health Impact Assessment Gene Peralta
- Quantitative Risk Assessment of the health effects from exposure to air pollution-Filipe Silva
- Air pollution, health effects and economic valuation -FS
- Health co-benefits and wider benefits of development projects that reduce air pollution – Salim Vohra





TA 8763: ADB HIA initiative

- 1. Capacity Building
- 2. Tools & Guidelines
- 3. Demonstration Projects
- 4. Partnership & Networking
- 5. HIA in Universities



Capacity Building

Workshops

Training

Regional meetings

National meetings

HIA Conference / Forum

K-learn

Development. Asia



Capacity Building - CAM

HIA Training last 27-28 April 2017 held in Phnom Penh, Cambodia





Capacity Building - MYA

HIA Training last 9-11 May 2017 held in Mandalay, Myanmar





Capacity Building - VIE

2nd Asean HIA Conference last 20-21 April 2017 held in Hue,
 Viet Nam



2nd ASEAN HIA Conference 20-21 April 2017 Hue, Viet Nam





Tools and Guidelines



7 Demonstration Projects

*with transboundary & cross-border impacts

CAM (1)

 Rural water supply and sanitation sector project

LAO (2)

- -Savannakhet Special Economic Zone*
- -Hongsa Thermal Power Project*

MYA (2)

- Urban Development
- Road Project

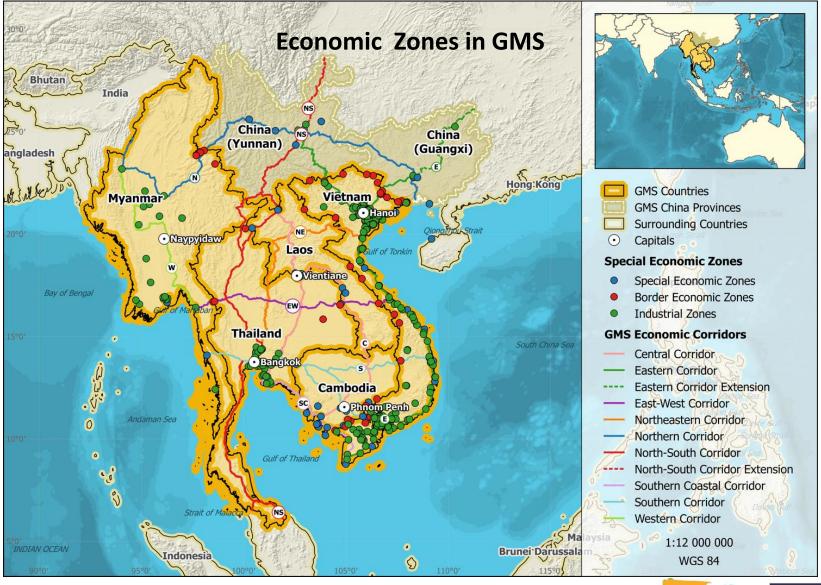
THA (1)

- Mukdahan Special Economic Zone*

VIE (1)

Drainage and wastewater collection







HEALTH IMPACT ASSESSMENT OF SPECIAL ECONOMIC ZONES

WELL FUNCTIONING

SPECIAL ECONOMIC ZONES

Zoning

- · proper zoning of residential, commercial, recreation, leisure, and industrial areas
- buffer zones around industrial developments

Well functioning health services

- · universal health coverage for workers and community members
- · harmonized health information and surveillance system

Emergency preparedness and response sector has the capacity to respond

Worker accommodations

- · in good safe conditions
- located strategically

Community and wellbeing

- · Workers and community members get along
- Culturally and spiritually significant locations are preserved

Waste

management

 industrial and public waste managed appropriately and separately

Traffic management

industrial traffic

- has designated routes
- safe roads

Safe workers

- · good personal protective equipment
- · safe behaviours on and off-site

Resettlement

· Resettlement is strategically planned to ensure it only happens once and infrastructure is complete

Access to basic essential needs

- · clean water · shelter
- · sanitation · security
- food safety

POOR FUNCTIONING

SPECIAL ECONOMIC ZONES

No zoning Health issues

- Environmental issues · dust, airborne, particulate matter is high
- · noise, light and vibration impacts
- · polluting water-e.g. dead

- · poor health services
- increase in vector-borne and communicable diseases—e.g.TB
- · increase in sexually transmitted infections and red light districts
- increased stress-mediated disorders (community members have depression and anxiety)



Chaotic traffic

· mix of industrial, local, livestock

Garbage

Worker accommodations in poor condition

Unfinished resettlement infrastructure

Lack of cohesion between workers and community members

Protests



Unsafe workers

- increased drugs and alcoholism
- · human trafficking • impoverishment







LAO – THAI Demo Projects

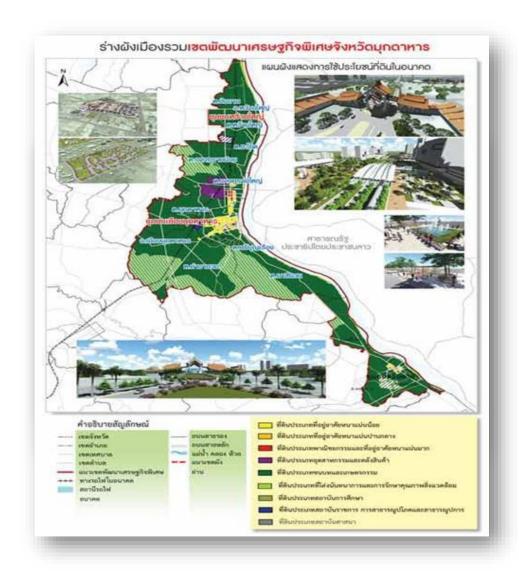
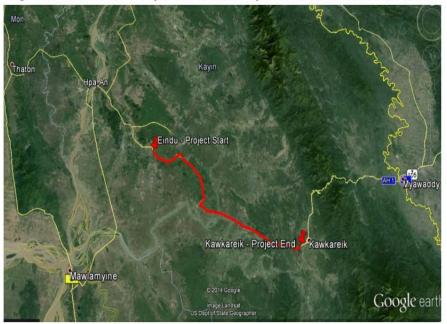




Figure 3: Location of GMS EWEC



Figure 4: Location of Component 1, Road Improvements Eindu to Kawkareik

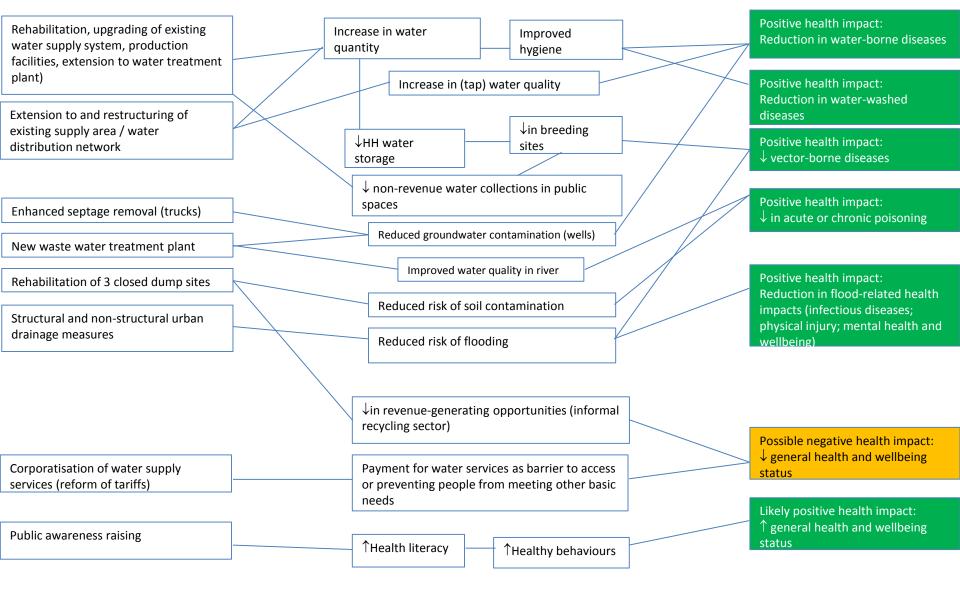


MYA Road Project

Rapid HIA Scoping:

- Malaria resurgence
- Air pollution (dust, noise, emissions)
- Vulnerable communities near the road
- Road accidents
- Population influx from Thailand
- Human trafficking





MYA Health benefits of MUSIP1



Second Rural Water Supply and Sanitation CAM





Rapid scoping example in VIE

Project overview	Drainage and Wastewater Collection Project in Ho Chi Min City
Does the project have an explicit health objective?	Read project description and find objectives
Geographical and temporal scope	 Identify all localities affected by project Include construction and operation phases Determine if there is a rehabilitation component
Community scope and stakeholders	 Differential exposure by gender, age, location, other Identify resettlement, professional stakeholders, workforce, fishing folk, peri-urban users of wastewater, other
Health opportunities, reduction in	 Water-borne diseases associated with pathogen contamination Vector-borne diseases: lymphatic filariasis Poisoning associated with chemical pollution Drowning, other





HIA DEMONSTRATION PROJECT



MANDALAY URBAN SERVICES IMPROVEMENT PROJECT (MUSIP)

MUSIP IS A MULTI-COMPONENT WATER SUPPLY AND WASTE WATER MANAGEMENT PROJECT IN MANDALAY CITY, MYANMAR.

PROJECT OUTPUTS



IMPROVING WATER SUPPLY SYSTEMS



IMPROVING WASTE WATER AND DRAINAGE MANAGEMENT



STRENGTHENING INSTITUTIONAL
CAPACITY AROUND WATER SUPPLY,
WASTE WATER, DRAINAGE AND SOLID
WASTE MANAGEMENT



HIA SCOPING ANALYSIS OF COMMUNITY HEALTH IMPACTS CONSULTATION

HEALTH

HEALTH CONCERNS

ANALYSIS

DISCUSSION WITH
THE PROJECT TEAM

A SITE VISIT

DOCUMENT

 ———
OPTIONS FOR MITIGATION
AND HEALTH ENHANCEMENT

ACCEPTABILITY OF THE PROJECT

DURING PROJECT DESIGN

 Minimize temporary land occupation, utilizing government-owned land

• Ensure access to houses and temples.

 Optimize design and location of the waste water treatment plant

• Ensure public information disclosure

DURING PROJECT CONSTRUCTION

- Development of plans for:
 air and dust control; noise
 control; dredging and
 cleaning management;
 traffic management;
 waste management; and
 health and safety
 management compliant
 with lenders'
 requirements and
 Myanmar labor
 regulations
- Provide compensation to affected people
- Inform residents before starting creek and canal dredging

HIA forward plan recommends measures to protect and enhance community health, building on preliminary identification, analysis and prioritization of health impacts, and original project plans

HIA FORWARD PLAN

COMMUNITY **HEALTH MONITORING**

 Develop intersectoral working group involving sub-national or local public health institutions, and water supply, wastewater and solid waste management providers

DURING PROJECT OPERATION

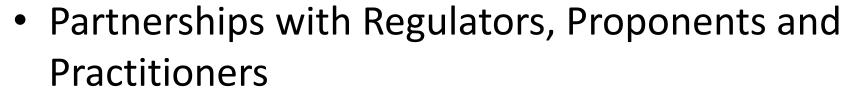
- Water quality monitoring, including residual chlorine and coliforms
- Integration to the city's medium term urban development
- Design of the wastewater treatment plant
- Consider a closed building for the pumping station
- Include digestion of sludge with methane gas production and electricity co-generation
- Major awareness campaign and capacity building

COMMUNITY **HEALTH MONITORING**

 Create health indicators that can cheaply and effectively monitor ongoing health impacts

Partnership & Networking

- HIA University Network
- Network of HIA Experts



Knowledge and Learning Centers (KLC)





Regional HIA Curriculum Development Workshop 7-8 March 2017, Bangkok







CURRICULUM



ADB IN COLLABORATION WITH THE WHO COLLABORATING CENTRE FOR ENVIRONMENTAL HEALTH IMPACT ASSESSMENT (WHO CC) AT CURTIN UNIVERSITY DEVELOPED AN HIA CURRICULUM OR TEACHING COURSE STRUCTURE AT THE REGIONAL LEVEL AND IN DIFFERENT PUBLIC HEALTH OR ENVIRONMENTAL SCIENCE FACULTIES OF UNIVERSITIES IN THE FIVE GREATER MEKONG SUBREGION (GMS) COUNTRIES (I.E., CAMBODIA, LAO PDR, MYANMAR, THAILAND AND VIET NAM).

- DEVELOPMENT OF HIA CURRICULUM \lnot

ADB ESTABLISHED THE GMS HEALTH IMPACT ASSESSMENT PROJECT TO INCREASE CAPACITY WITHIN THIS REGION TO APPLY HIA TO CONSIDER THE DETERMINANTS OF HEALTH ASSOCIATED WITH COMMERCIAL AND DEVELOPMENT PROJECTS.

It recognised that universities can be major development partners through provision of future HIA experts arising from sustainable HIA training programs.

THREE DRAFT CURRICULA



HIA-STANDALONE

a semester length course which covered all components of the HIA process and its application, targeting health professionals wishing to learn about and apply HIA to proposals.

II 2 III 1

HIA IN EIA

a 3-4 - day professional development course, targeting health professionals as well as those in environmental, planning or associated activities wishing to understand HIA and its application within Environmental Impact Assessment procedures.



HIA IN PLANNING, ENVIRONMENT OR HEALTH COURSES

a short course of 8-10 hours duration, designed to be integrated into relevant university programs to raise awareness about the role of HIA in decision making and its links to these sector's activities

These curricula were discussed in a workshop in March 2017 and Universities and representatives from the ministries of health (MoH) in the GMS were invited to participate. There was widespread agreement and support regarding the need to expand HIA teaching and research in the region. The general consensus on the draft curricula provides a solid foundation for participants to progress toward a more harmonized approach to HIA in the region.

ADB WITH WHO CC AT CURTIN UNIVERSITY WILL CONTINUE TO WORK WITH GMS UNIVERSITIES AND MOH TO PROGRESS HIA TEACHING PROGRAMS.

