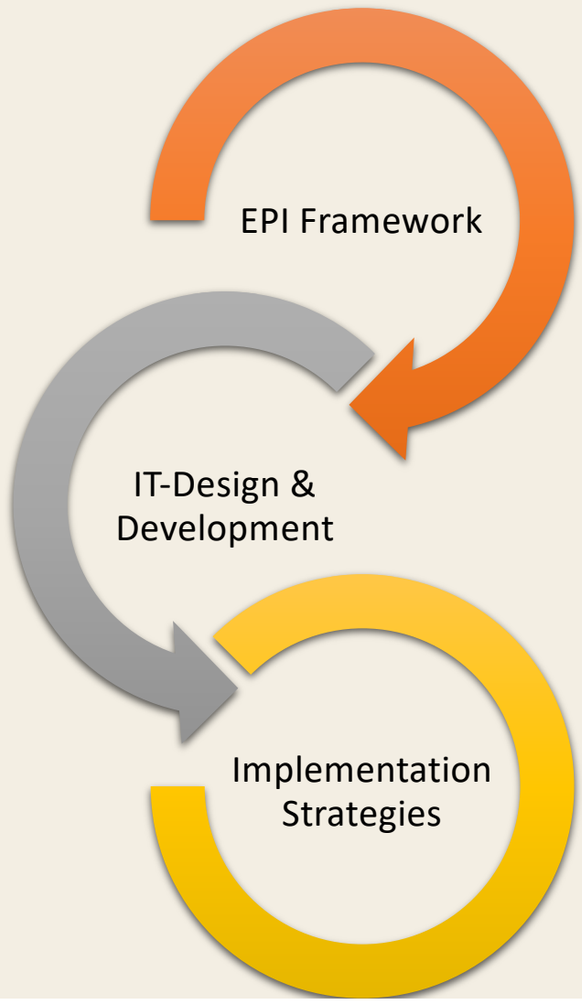
AN INITIATIVE OF
THE NETHERLANDS
RED CROSS

DREAM

EPI-PROJECT

510 AN INITIATIVE OF THE NETHERLANDS RED CROSS

EPIDEMICS RISK AND PRIORITY PROJECT



TRADE-OFF

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The **RISK** on the occurrence and spread of diseases

TRADE-OFF

AN INITIATIVE OF THE NETHERLANDS RED CROSS

The **RISK** on the occurrence and spread of diseases

LIMITED DATA

TRADE-OFF

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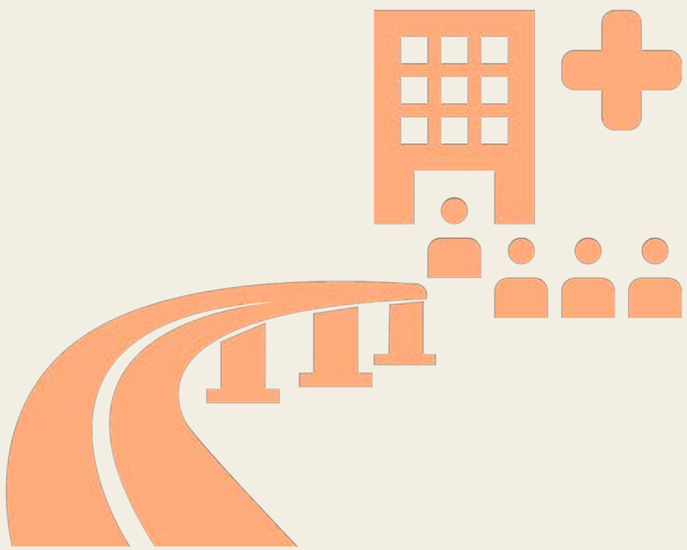
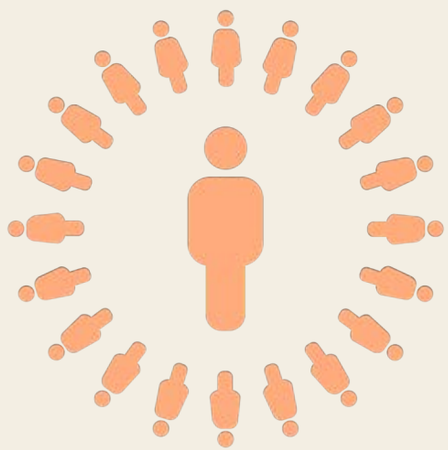
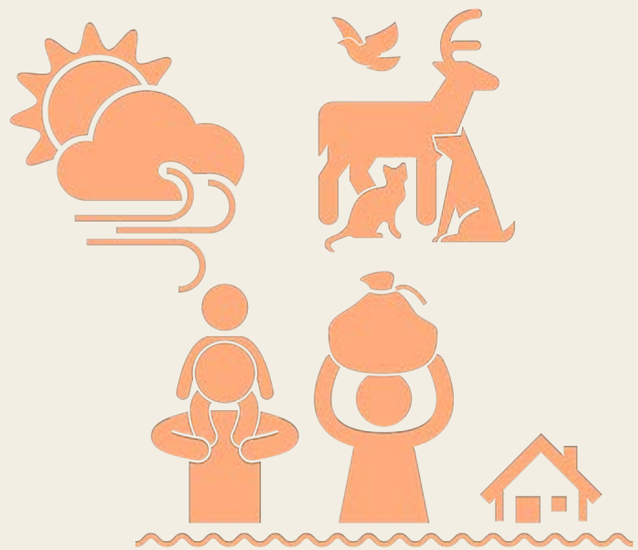
The **RISK** on the occurrence and spread of diseases







HOLISTIC

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The **RISK** on the occurrence and spread of diseases

OBJECTIVE

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EPI: FRAMEWORK

The goal of this project and the Epidemics Risk and Priority Framework is to build a risk assessment for epidemics to increase preparedness and decrease response time at the community level.

EPI FRAMEWORK

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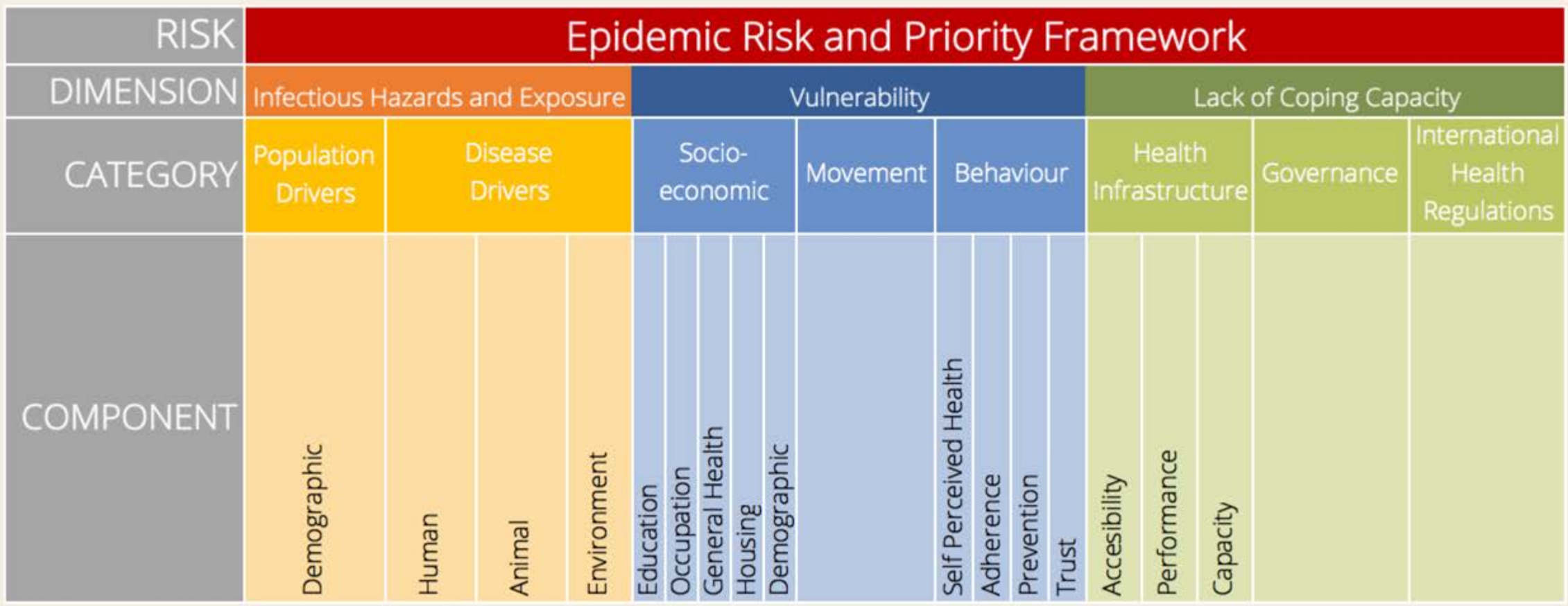

METHODOLOGY

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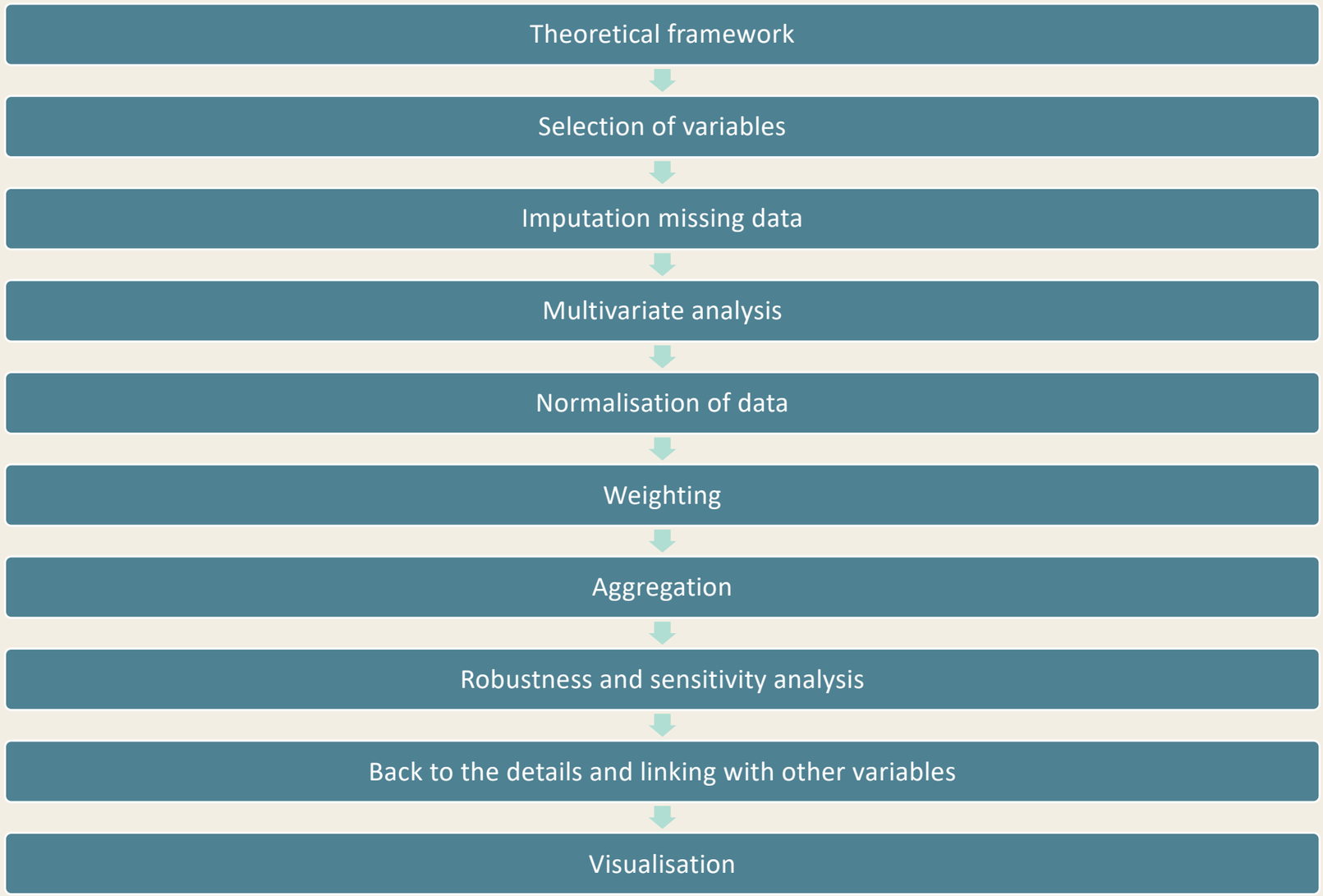

European Commission

Nardo, M., Saisana, M., Saltelli, A., Tarantola, S., Hoffman, A., & Giovannini, E. (2005). Handbook on

DISCLAIMER

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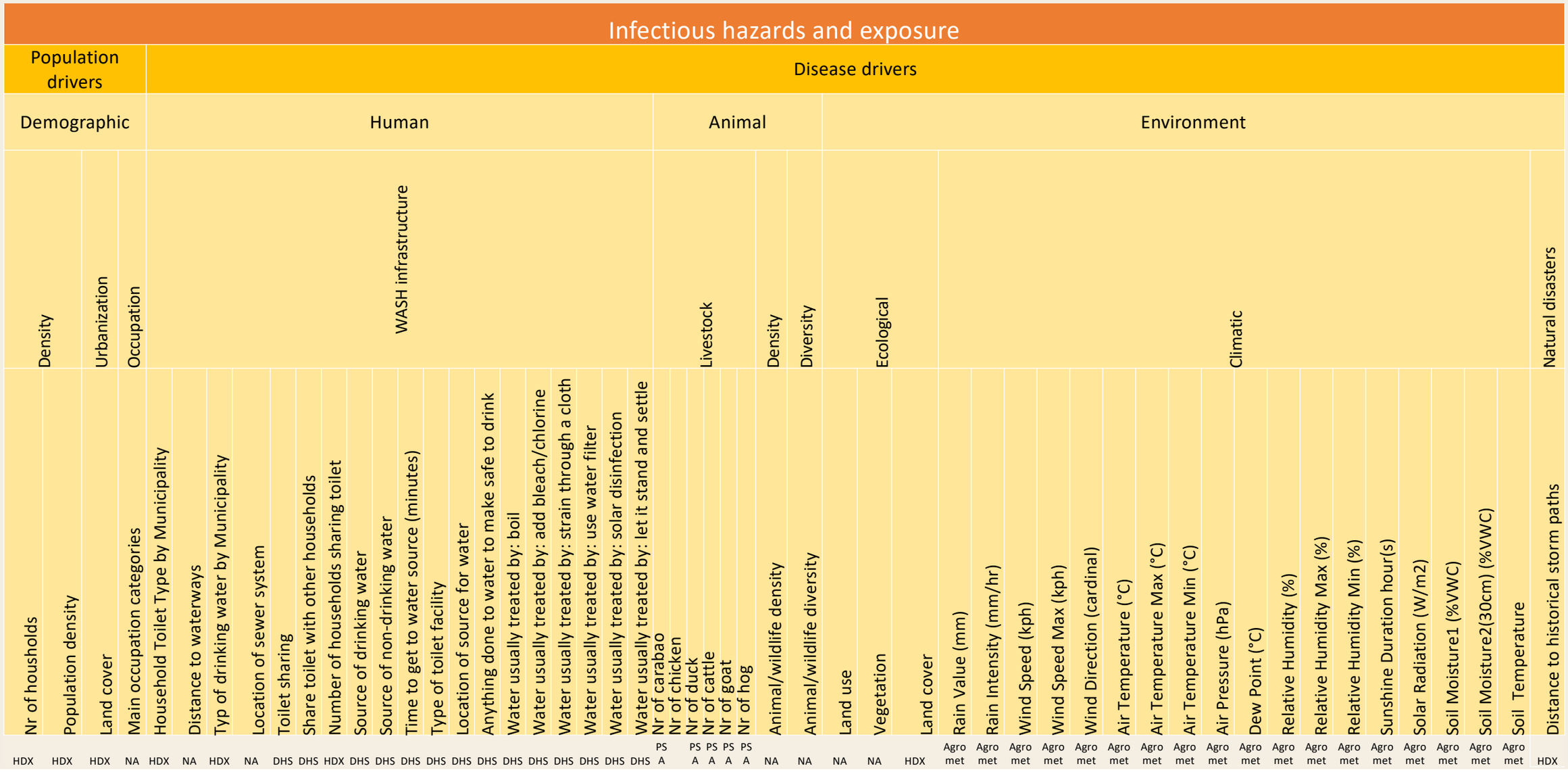
DATA SENSITIVITY

Dengue count data have been marked as sensitive by its provider.

INFECTIOUS HAZARDS POPULATION DRIVERS

RISK	Epidemic Risk and Priority Framework										
DIMESION	Infectious hazards and exposure										
CATEGORY	Population drivers			Disease drivers							
COMPONENT	Demographic			Human	Animal			Environment			
SUB-COMPONENT	Density	Urbanization	Occupation	WASH infrastructure	Livestock	Density	Diversity	Ecological	Climatic	Natural disasters	

INFECTIOUS HAZARDS POPULATION DRIVERS



RESULTS

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NORMALIZED DENGUE INCIDENCE

RESULTS

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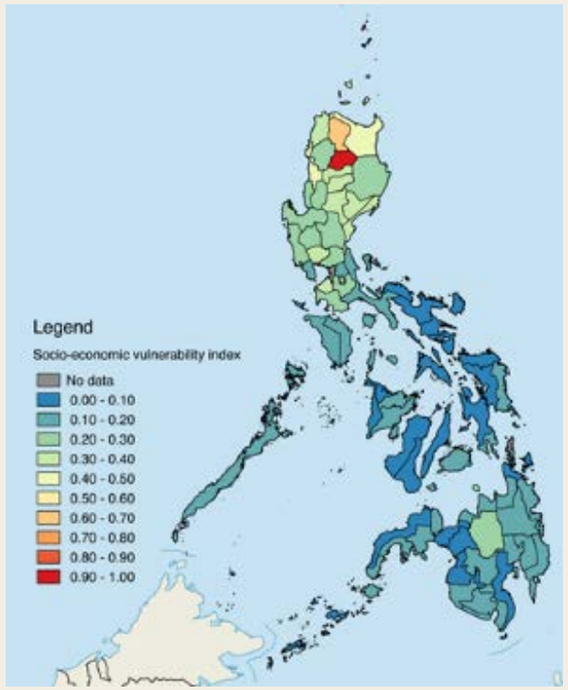

NORMALIZED DENGUE INCIDENCE

VULNERABILITY
SOCIO ECONOMIC

RESULTS

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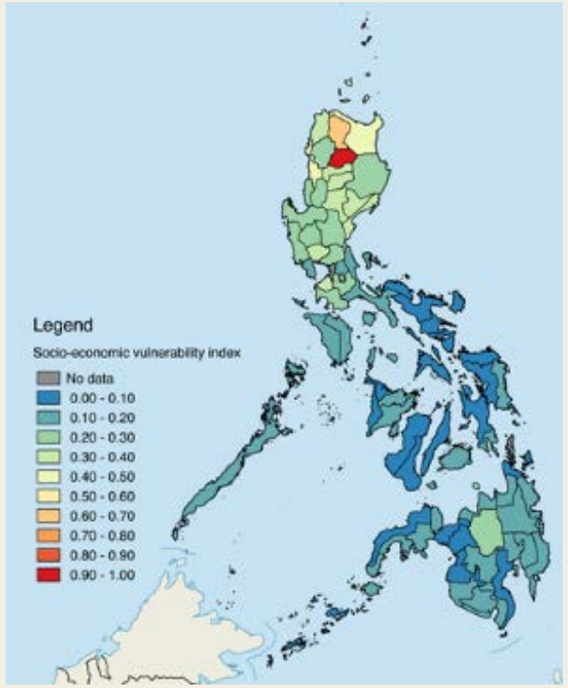
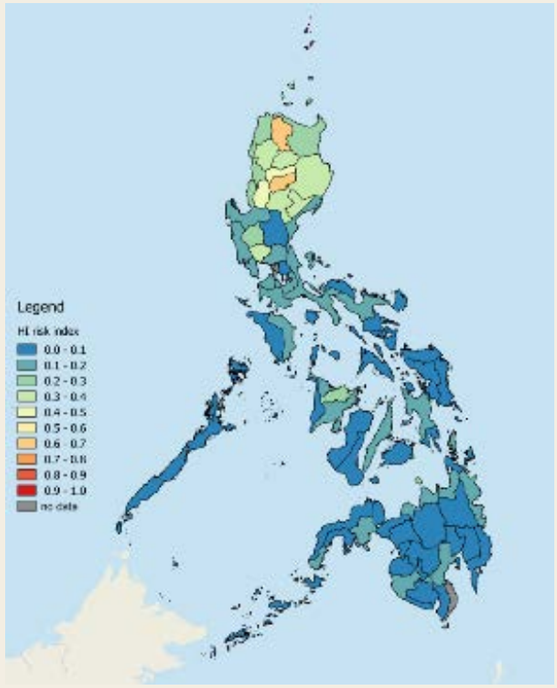
NORMALIZED DENGUE INCIDENCE



VULNERABILITY
SOCIO ECONOMIC



LACK OF COPING CAPACITY
HEALTH INFRASTRUCTURE

RESULTS

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THE NETHERLANDS
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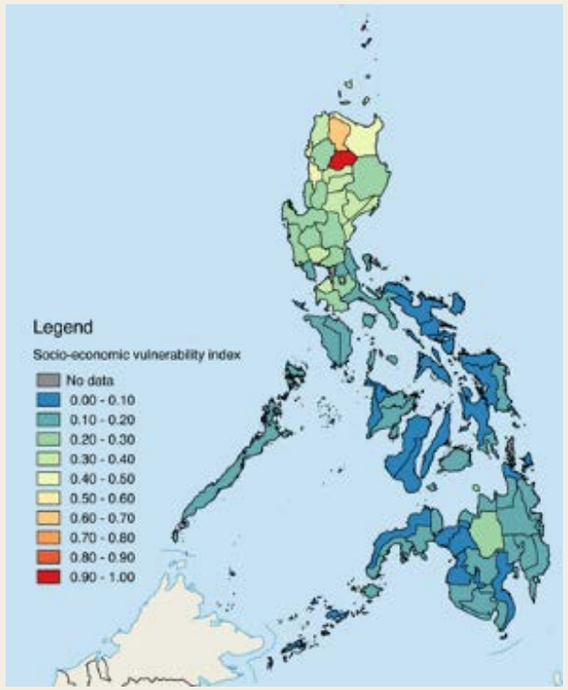
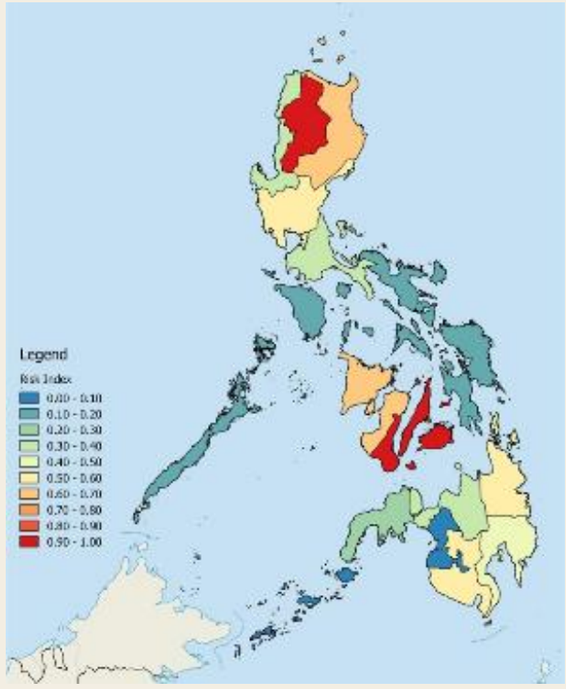
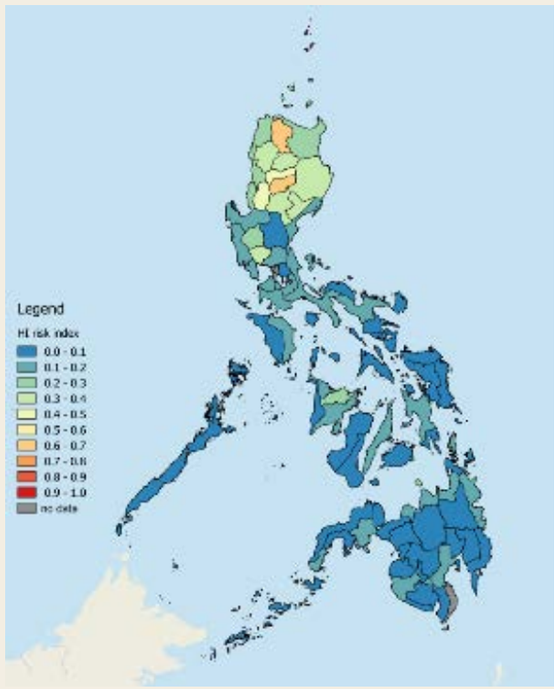
NORMALIZED DENGUE INCIDENCE



VULNERABILITY
SOCIO ECONOMIC



VULNERABILITY
BEHAVIOR



LACK OF COPING CAPACITY
HEALTH INFRASTRUCTURE

EPI FRAMEWORK GAPS

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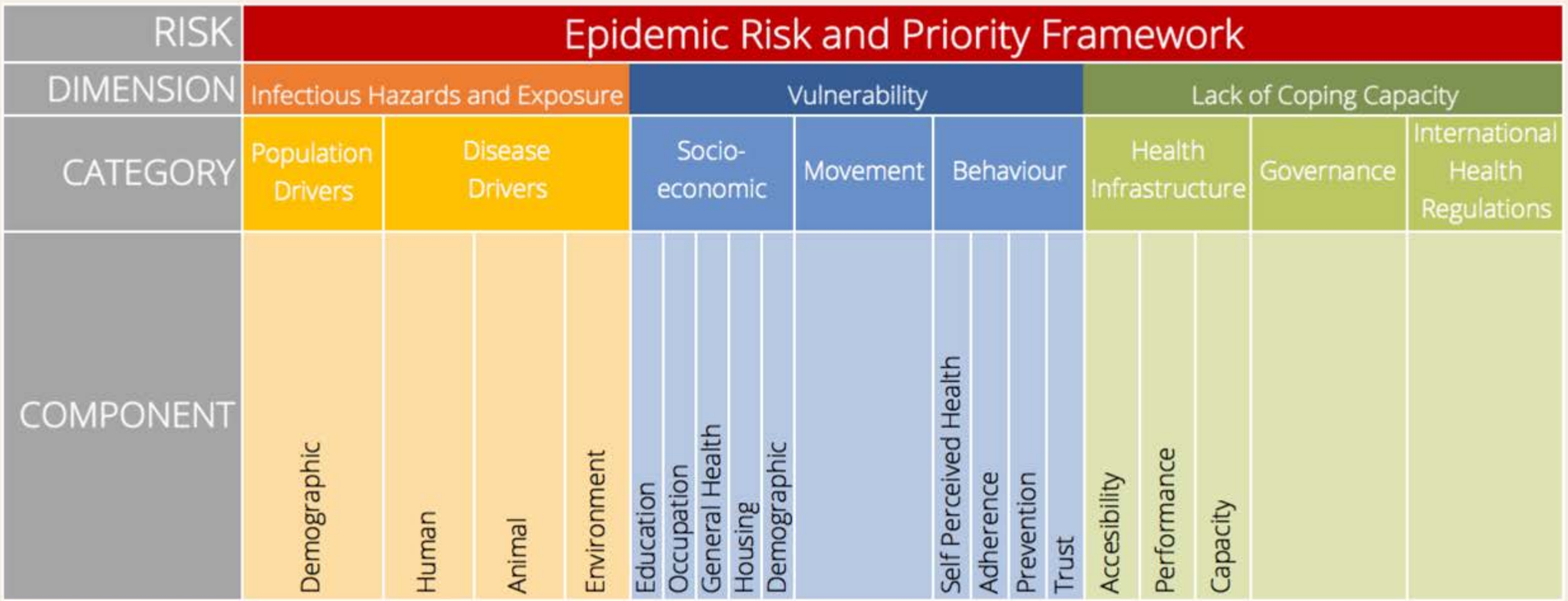

EPI FRAMEWORK GAPS

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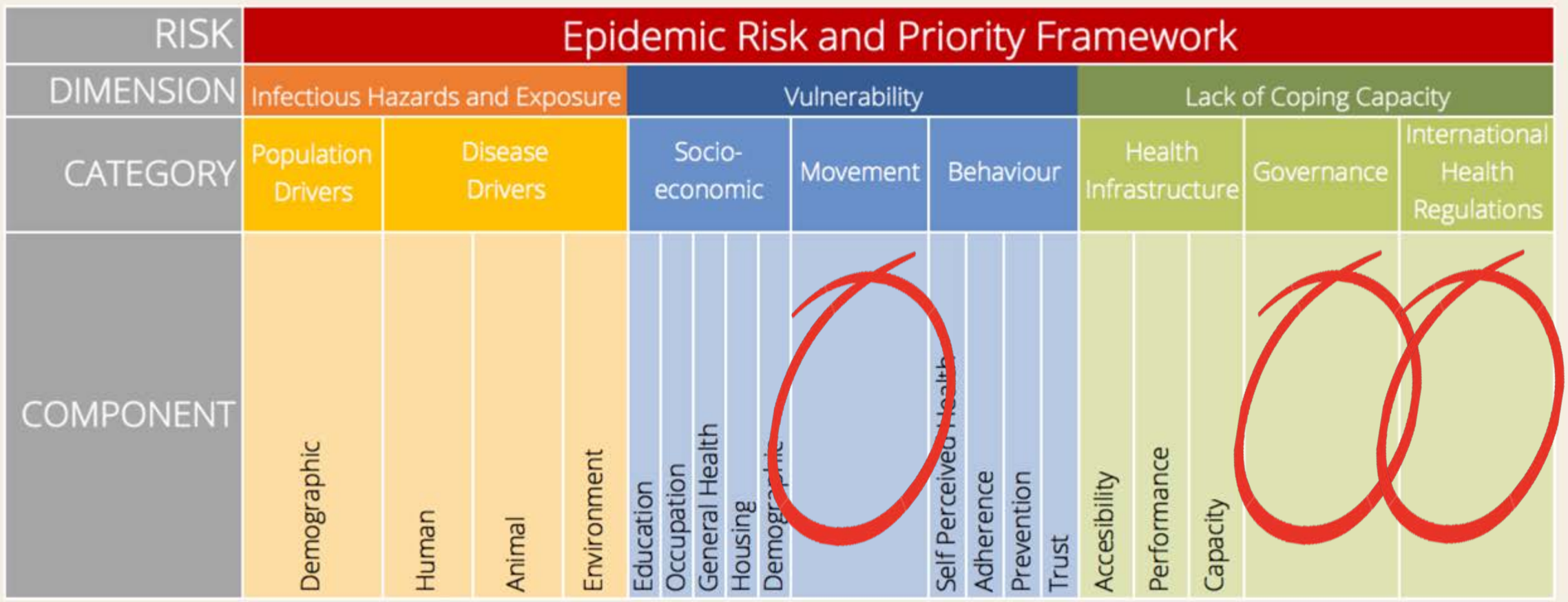

LIMITATIONS

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LIMITATIONS

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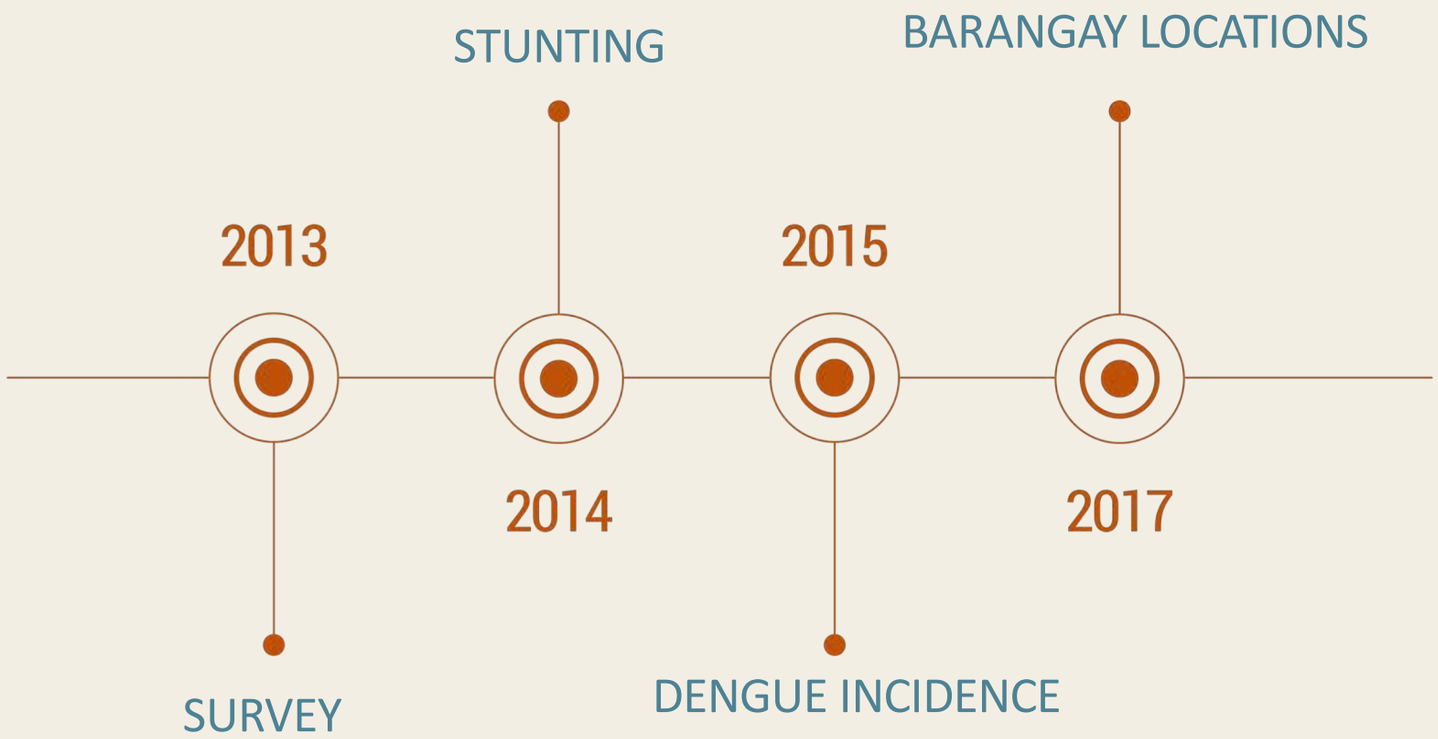

LIMITATIONS

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HOW TO PROCEED?

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- Long-term & sustainable collaborations
  - ✓ Research organizations
  - ✓ Data collecting organizations
  - ✓ Monitoring organizations
  - ✓ Intervention organizations
- Asking **constructive** criticism from ***everyone*** that is eager to contribute disregarding background
- Sharing **EVERYTHING**
- Being fully **TRANSPARANT**

THE COLLABORATIVES

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OCHA

COMITE INTERNATIONAL GENEVE

World Health Organization

PHILIPPINE STATISTICS AUTHORITY
Solid · Responsive · World-class

PHILIPPINE RED CROSS

SCHOLA GENEVENSIS 15 59

UNIVERSITÉ DE GENÈVE

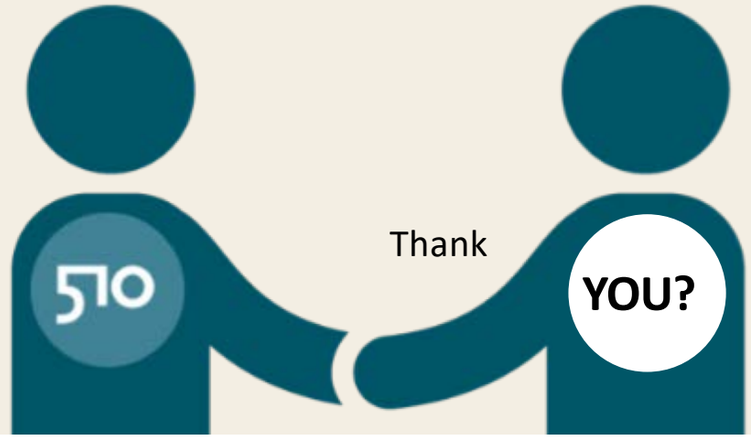
UNIVERSITY OF SURREY

Massachusetts Institute of Technology

Erasmus MC

Maastricht University

EMPOWERMENT

As long as we share *at least one* overlapping objective, please feel free to approach us to explore how we can help each-other.

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