BURDEN of DISEASE

ROBERT KOCH INSTITUTE



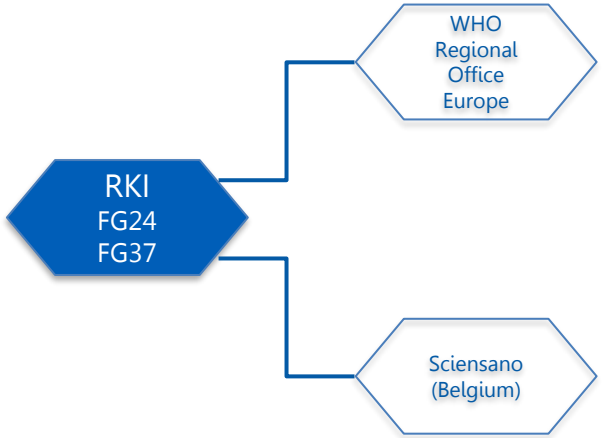
Partnerships to Advance Capacities and Tools in Population Health Metrics (PACT-PHM)

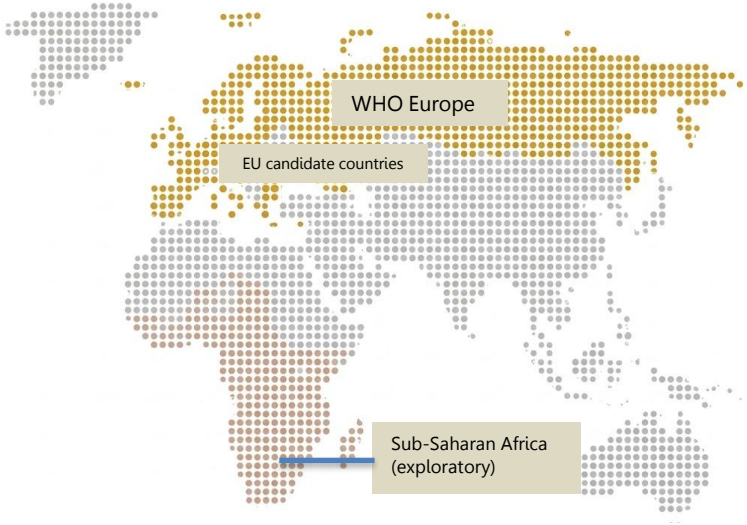
Aline Anton, Alexander Rommel, Thomas Ziese, Janko Leddin, FG37: Annika Meinen, Sebastian Haller

Profile

GHPP Phase III | **2026–2028** | **MoH**

GHPP Global Health Protection Programme





Population Health Metrics (PHM)

- **Life expectancy:** The average life expectancy of a person.
- **HALE (Healthy Life Expectancy):** The average number of years a newborn is expected to live in 'perfect health', adjusted for the time spent suffering from illness or injury.
- **Mortality Rates:** Key indicators include infant mortality, maternal mortality and mortality before the age of 70.
- **DALYs (Disability-Adjusted Life Years):** One DALY corresponds to the loss of one year of life. This includes both years of life lost due to premature death and years not spent in full health.



Challenges & intended output

Fragmented HIS

Uneven expertise & data quality

Inadequate knowledge translation

Limited access to international exchange

Networking

- Maintenance and support of the former Burden-EU-COST network
- Workshops focusing on NCDs/PHM

Capacity building

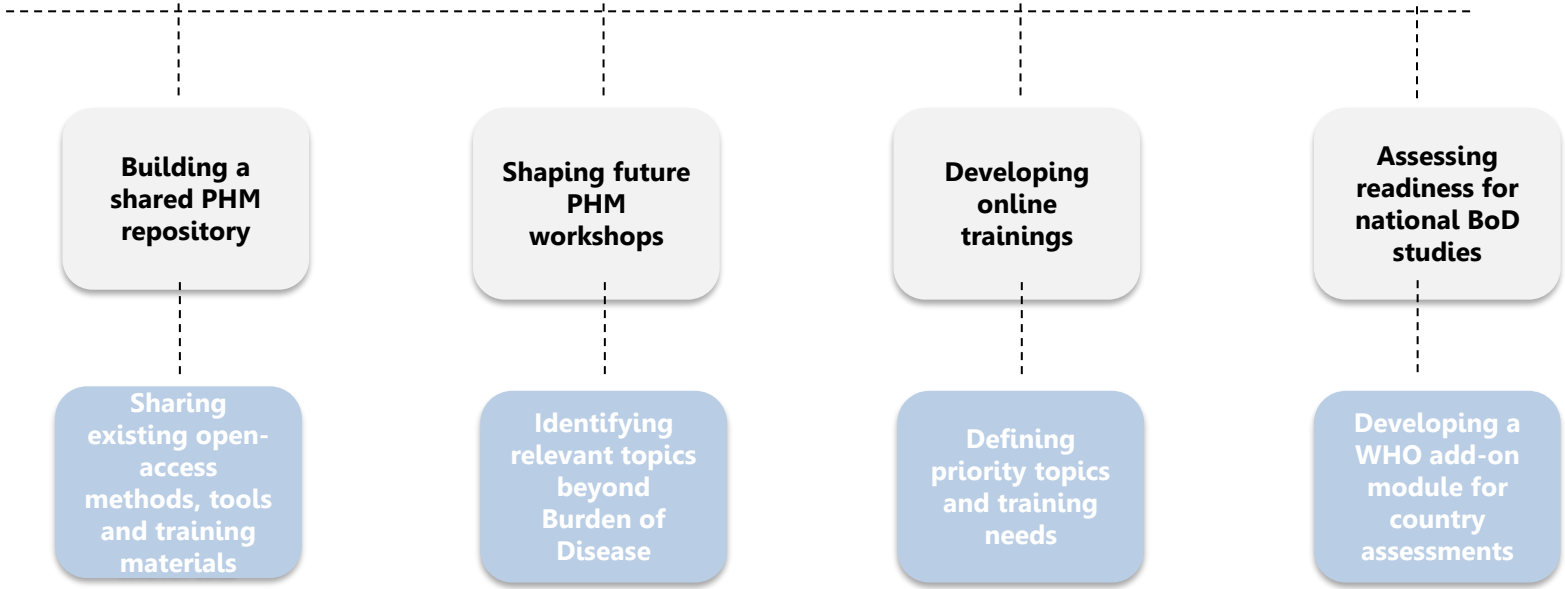
- Supporting the WHO in delivering training; developing modules as part of country assessments and guidelines on data quality
- Development of a PHM training curriculum; Integration within an online learning platform

Data & knowledge translation

- Repository for materials, scripts, etc.
- Supporting the WHO with formats such as 'Data Stories'

Output formats

PACT-PHM as a platform for collaboration



Building a shared PHM repository

Building a shared PHM repository

PACT-PHM aims to establish an open-science repository for Population Health Metrics, providing sustainable access to methods, tools and training resources.

Sharing existing open-access methods, tools and training materials

What could be included?
Methodological guidance and manuals
Training materials and presentations
R scripts, templates and analytical tools
Documentation of national BoD approaches
Good-practice examples and other PHM resources

Make existing expertise easier to find, reuse and adapt across countries.

Repositories

PACT-PHM Resource Hub — Find, use & share
A curated collection of open PHM methods, tools, code, training materials.

Examples:
https://www.healthinnowest.net/our-work/transforming-services-and-systems/evidence-repository/

https://github.com/ihmeuw/lbd

https://www.who.int/tools?utm

PHM beyond Burden of Disease

Shaping future PHM workshops

Burden of Disease is an important component – but PHM starts with the underlying data and health information systems.
We are planning an international PHM workshop in 2027 and would like to develop the agenda together with partners.

Identifying relevant topics beyond Burden of Disease

What could be included?
Mortality and cause-of-death data
Data quality and data gaps
Healthy life expectancy and other summary measures
Integration of different data sources

What PHM topic would be most useful for your institution?

Developing online PHM training

What should a PHM online course cover?
PACT-PHM aims to develop accessible online training for public health professionals, building on existing expertise and training materials.

Developing online trainings

Potential modules could include:
Basics
Methods
Knowledge translation

Defining priority topics and training needs

Where do you currently see the greatest capacity-building need?

Are countries ready to conduct a national BoD study?

Developing a WHO assessment module for Burden of Disease
Together with WHO, PACT-PHM will start developing an additional module for WHO country assessments.
The module shall explore a country's readiness to conduct and sustainably implement national Burden of Disease analysis.

Potential assessment domains:
Data
Methods and capacities
Institutional environment
Use & sustainability

Assessing readiness for national BoD studies

Developing a WHO add-on module for country assessments

Shape PACT-PHM

SHARE
Open-access PHM and BoD resources
SUGGEST
Topics for international PHM workshops
PRIORITIZE
Topics for online training
CONTRIBUTE
Experience relevant to assessing national BoD readiness

THANK YOU