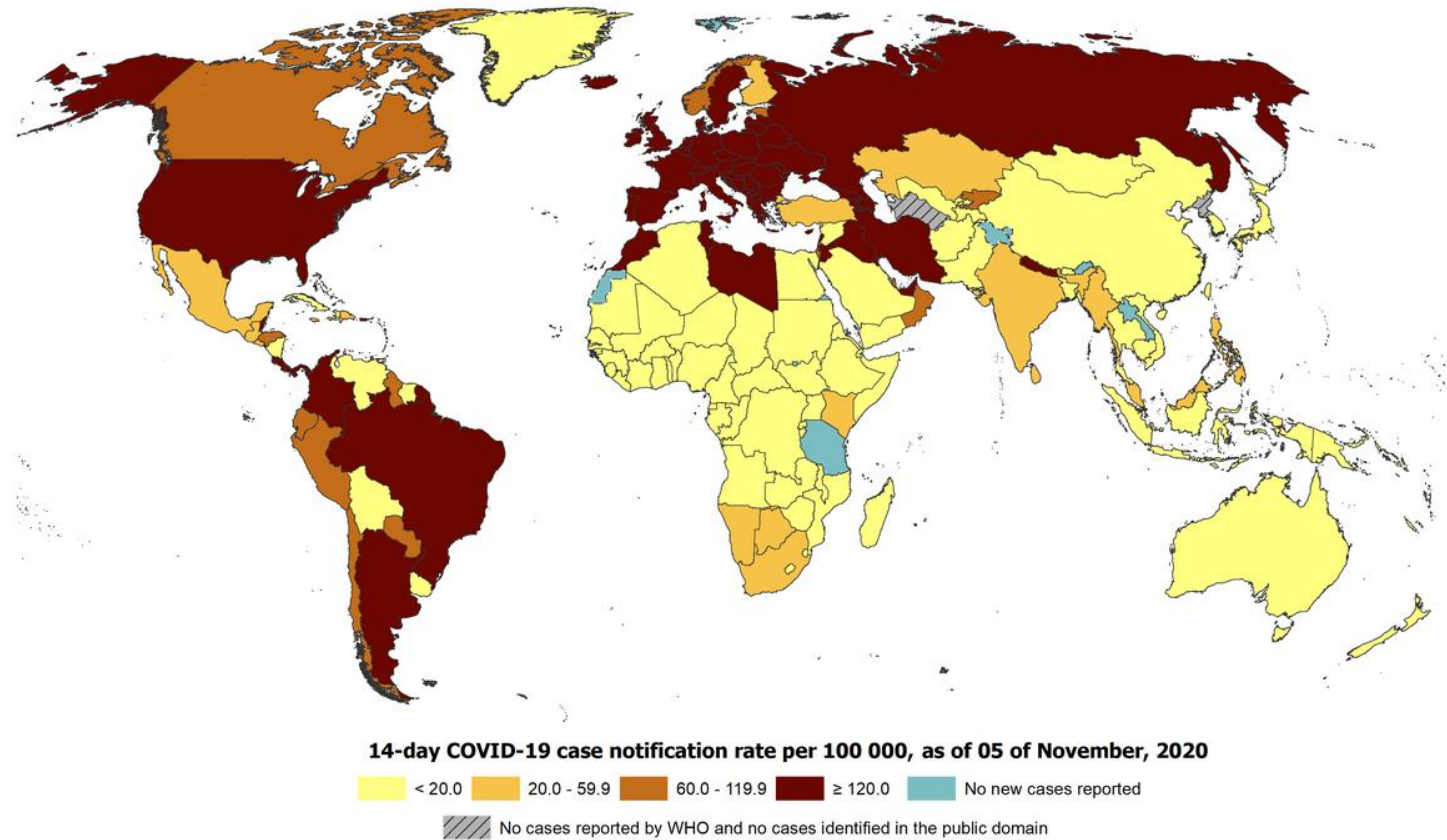


# Knowledge translation of burden of disease studies in the era of Covid-19

Dr Henk Hilderink and Dr Elena Pallari

8<sup>th</sup> and 9<sup>th</sup> of December 2020



Administrative boundaries: © EuroGeographics © UN-FAO © Turkstat.  
 The boundaries and names shown on this map do not imply official endorsement or acceptance by the European Union.

Date of production: 05/11/2020

What does knowledge translation mean to you?



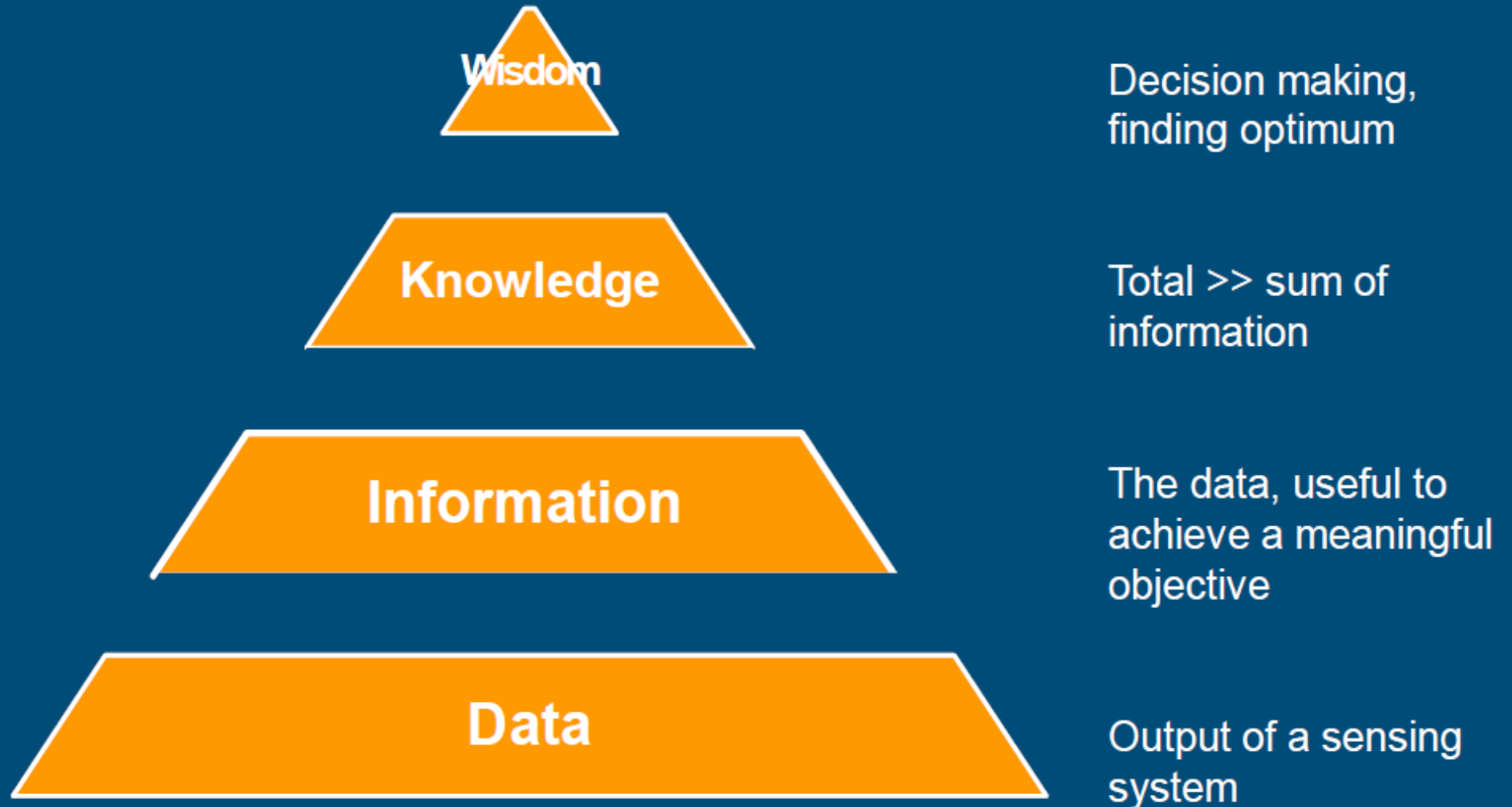
# Bridging the gap between researchers and action / policy makers



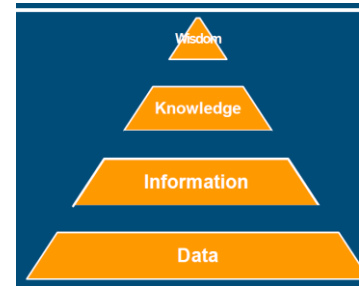
By Frits Ahlefeldt



# DIKW-pyramid (Rowley, 2007)



# Data-Information-knowledge-wisdom



Policy maker

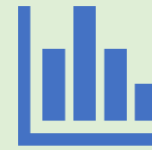


Wisdom



Knowledge

Researcher

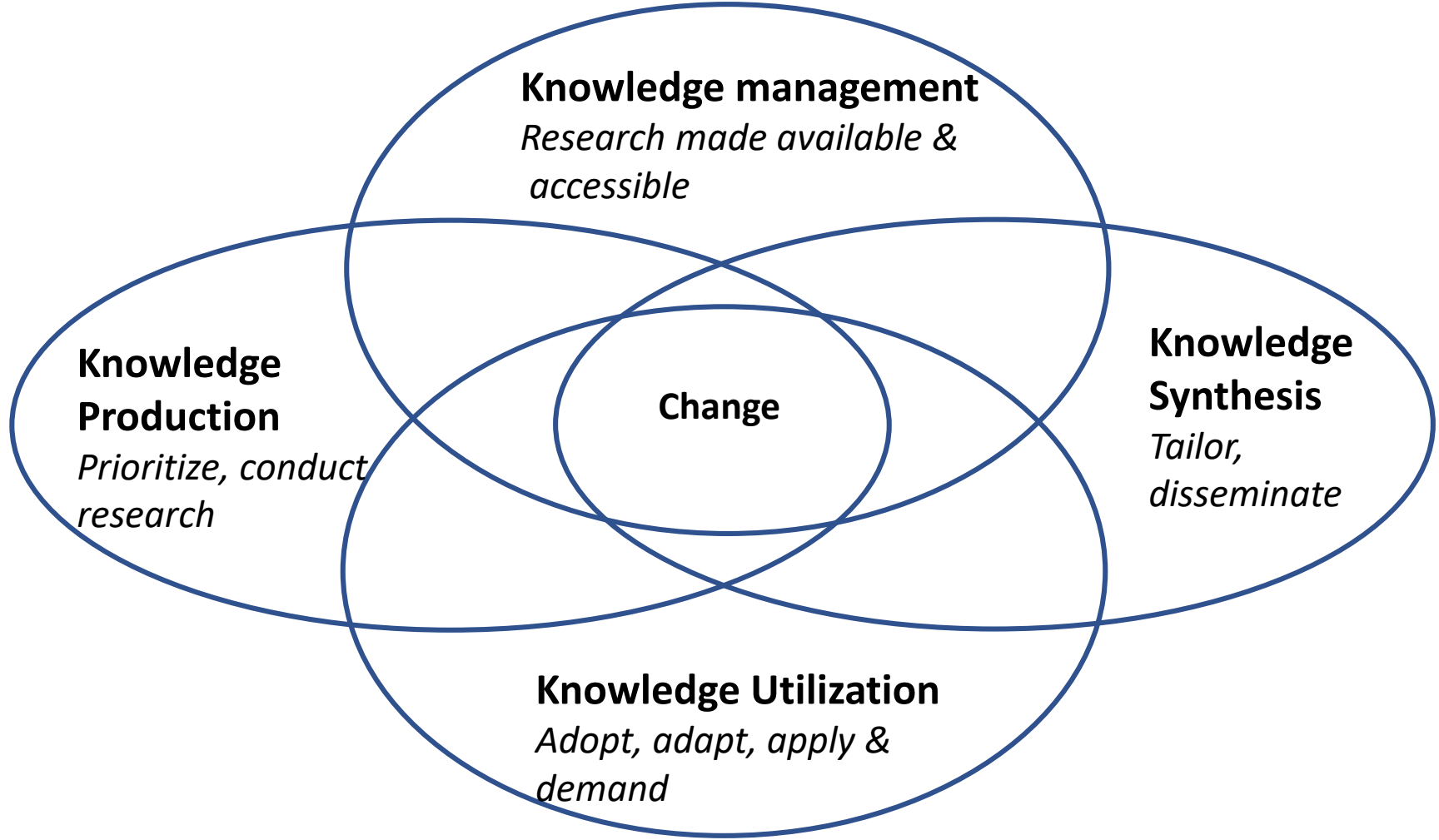


Information



Data

# The Four “Spheres” of Knowledge Translation



# Knowledge translation pathway

## KNOWLEDGE TRANSLATION =

**synthesis**

A fundamental unit of KT that is fulfilled in partnership with CH's Knowledge Synthesis platform. It involves synthesizing results of individual research studies and interpreting findings or results in the context of global evidence.

**exchange**

The two-way sharing of knowledge between research producers and users. It may incorporate "integrated KT", featuring end users as partners in the research process.

**application**

Often called "implementation", application refers to putting research into practice, policy and/or action. Attempts should be made to use theory to inform application.

**dissemination**

Sometimes referred to as "end-of-grant KT", dissemination refers to the communication or sharing of research results.

of **KNOWLEDGE** to **IMPROVE**

health

the  
healthcare  
system

health  
service  
delivery

# Case study GBD

- Data-rich source available for most countries
- Long tradition in BoD estimates
- Learn from users
  - E.g. data-results-collaboration

**IHME GBD Results Tool**

Base: Single Change PoD
 Context: Cause
 Measure: Add/Remove... (2)

Location: Add/Remove... (1)
 Age: Add/Remove... (1)
 Sex: Add/Remove... (1)

Year: Add/Remove... (1)
 Metric: Add/Remove... (3)
 Cause: Add/Remove... (1)

MEASURE	LOCATION	SEX	AGE	CAUSE	METRIC	YEAR	VAL	UPPER	LOWER
Deaths	Global	Both sexes	All Ages	All causes	Number	2017	55,945,729.74	56,516,734.27	55,356,403.54
Deaths	Global	Both sexes	All Ages	All causes	Percent	2017	100.00	100.00	100.00
Deaths	Global	Both sexes	All Ages	All causes	Rate	2017	732.23	739.70	724.52
DALYs (Disability-Adjusted Life Years)	Global	Both sexes	All Ages	All causes	Number	2017	2,499,292,055.68	2,737,391,103.36	2,285,524,566.48
DALYs (Disability-Adjusted Life Years)	Global	Both sexes	All Ages	All causes	Percent	2017	100.00	100.00	100.00
DALYs (Disability-Adjusted Life Years)	Global	Both sexes	All Ages	All causes	Rate	2017	32,711.25	35,827.54	29,913.42

IHME | GHDx | GBD Compare Search


**IHME**  
Measuring what matters

[Home](#)
[Results](#)
[News & Events](#)
[Projects](#)
[Get Involved](#)
[About](#)

## Global Burden of Disease (GBD)

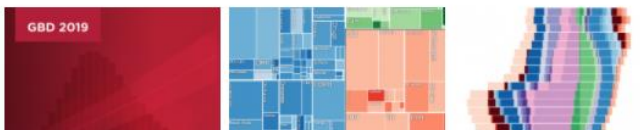
[GBD](#)  
[GBD 2019 Home](#)  
[GBD 2019 Resources](#)  
[About GBD](#)  
[Call for Collaborators](#)  
[Data Resources](#)  
[Data Visualizations](#)  
[Country Profiles](#)  
[Publications](#)  
[Infographics & Briefs](#)  
[News & Events](#)  
[Acting on Data](#)  
[IHME Foundations](#)  
[Training](#)

SIGN UP FOR IHME NEWS



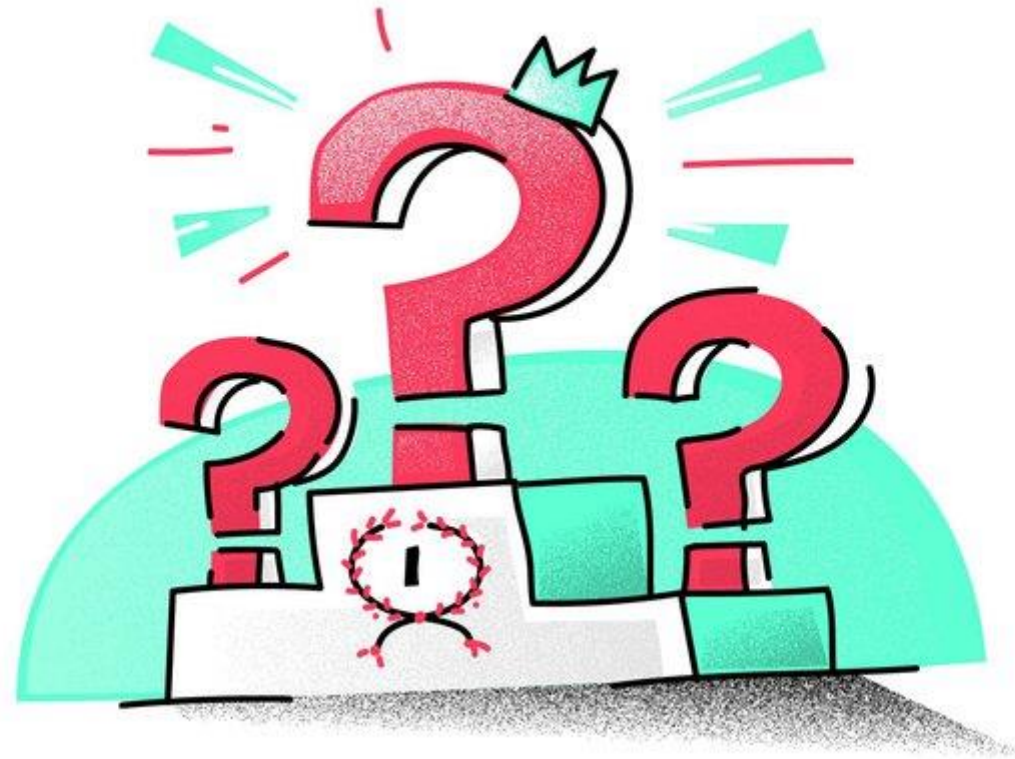
**The Lancet: Latest global disease estimates reveal perfect storm of rising chronic diseases and public health failures fuelling COVID-19 pandemic**

Most comprehensive global study—analysing 286 causes of death, 369 diseases and injuries, and 87 risk factors in 204 countries and territories—reveals how well the world's population were prepared in terms of underlying health for the impact of the COVID-19 pandemic.

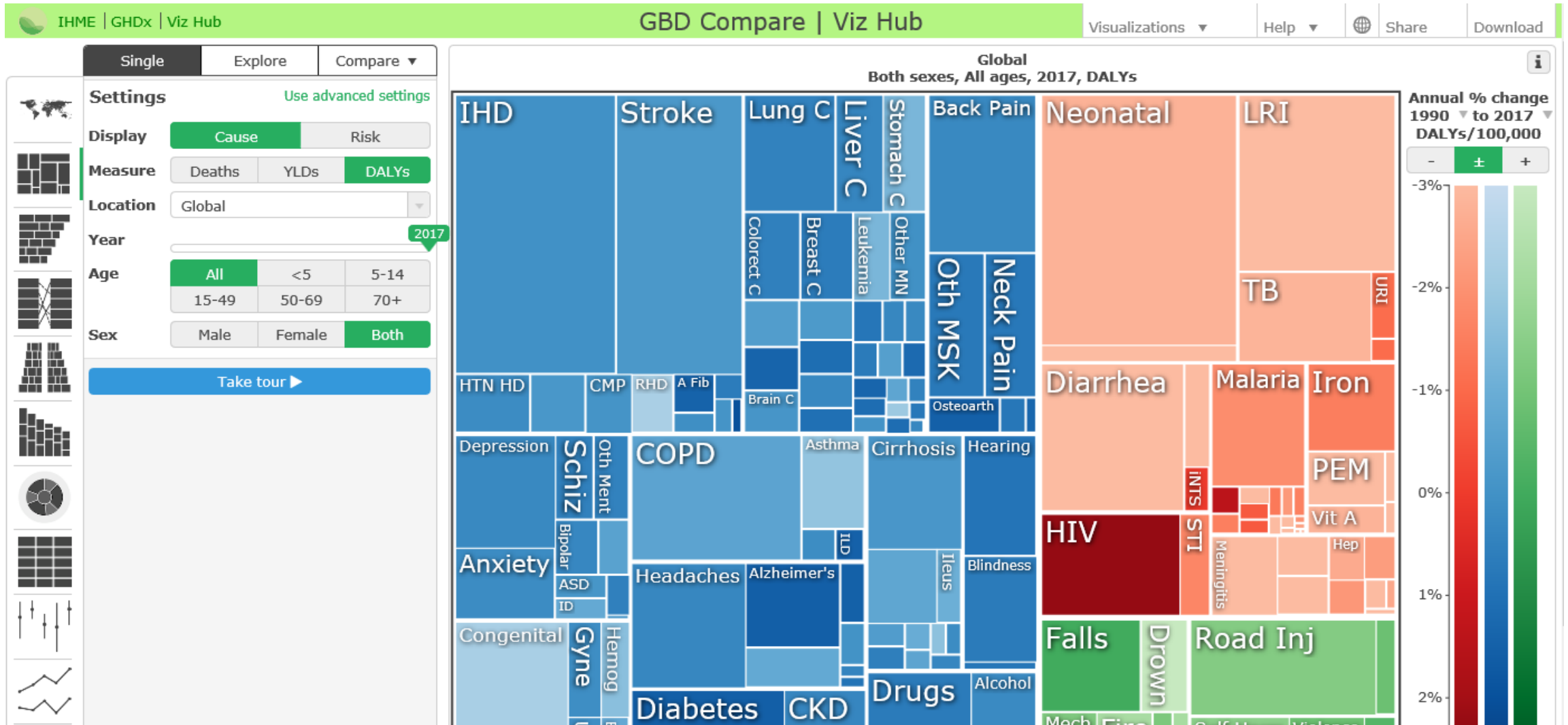




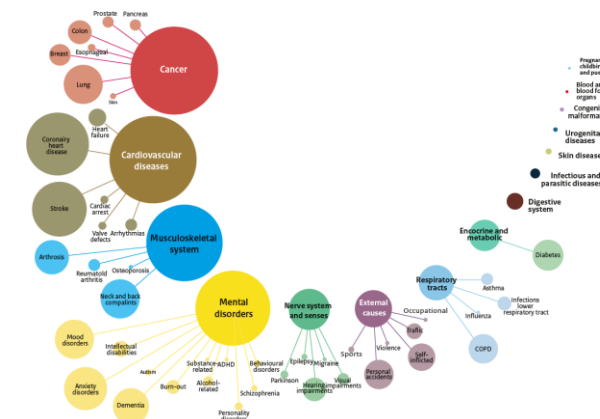
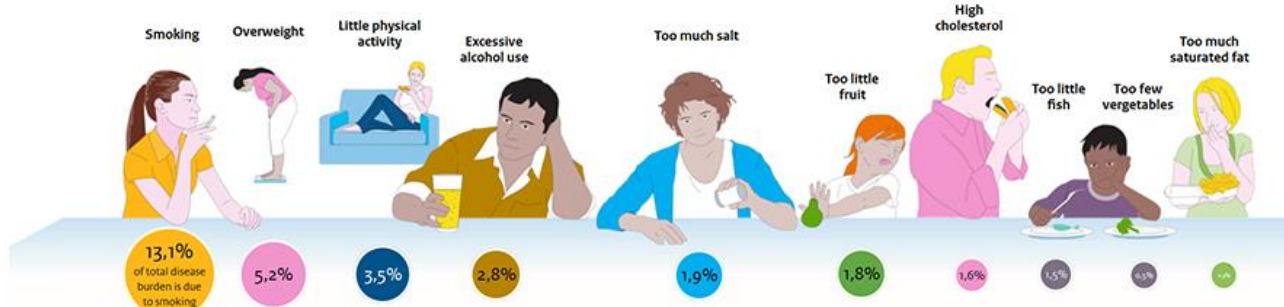
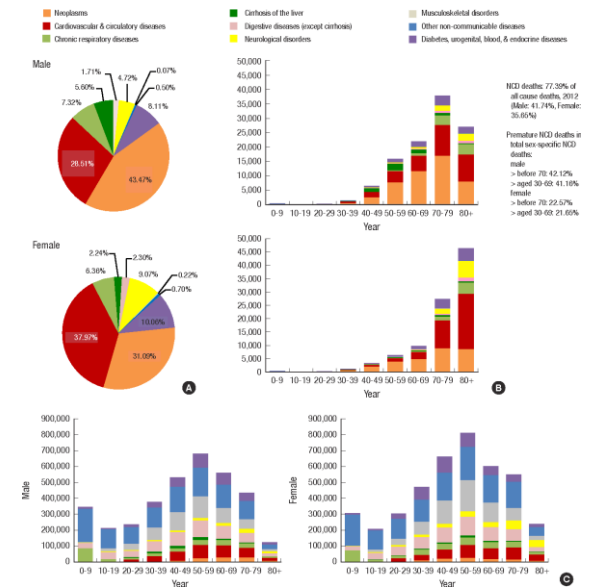
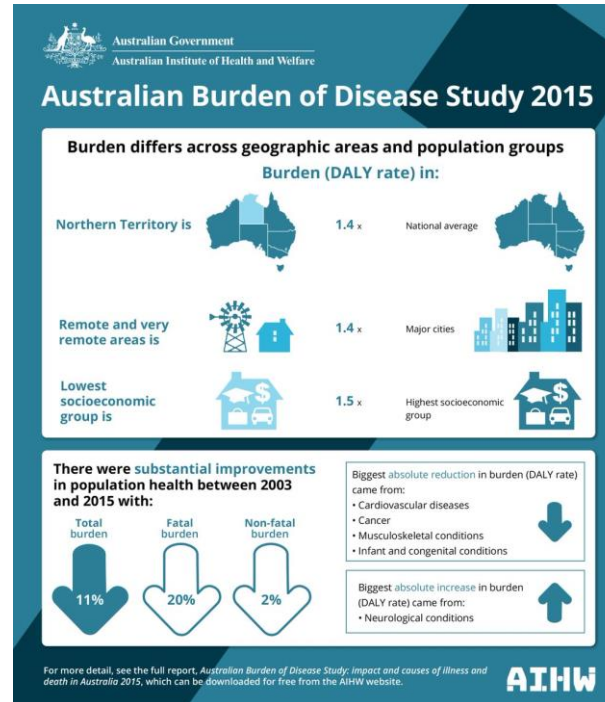
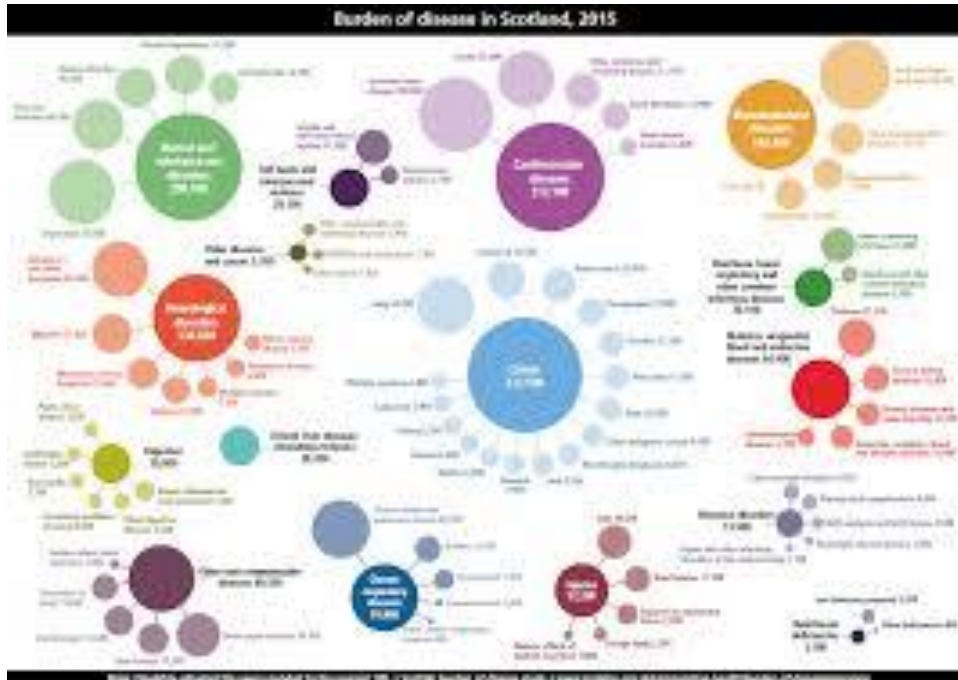
To what extent are GBD results being used in your country for research?



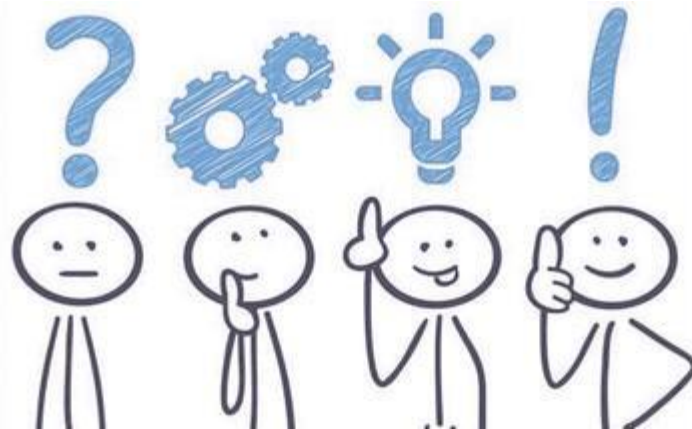
# GBD Visualization tools



# NBoDs examples



How are the GBD results used by policy makers?





Thank you for listening : )

## Acknowledgements

COST Action CA18218 Workshop  
participants and collaborators



Please get in touch:

[info@burden-eu.net](mailto:info@burden-eu.net)

