

INVENTORY OF EXPOSURE-RESPONSE FUNCTIONS FOR HEALTH IMPACT ASSESSMENTS

By the METEOR Working Group 4 members on behalf of the METEOR cluster project teams

Health Impact Assessment (HIA)

What is it and what does it add?

HIA = Estimation of the potential effects of a policy or program on future population health to support policy making.

The choice of the exposure-outcome pairs to be included in a HIA and the respective quantitative exposure-response functions (ERF) is a crucial part of the HIA and requires careful consideration

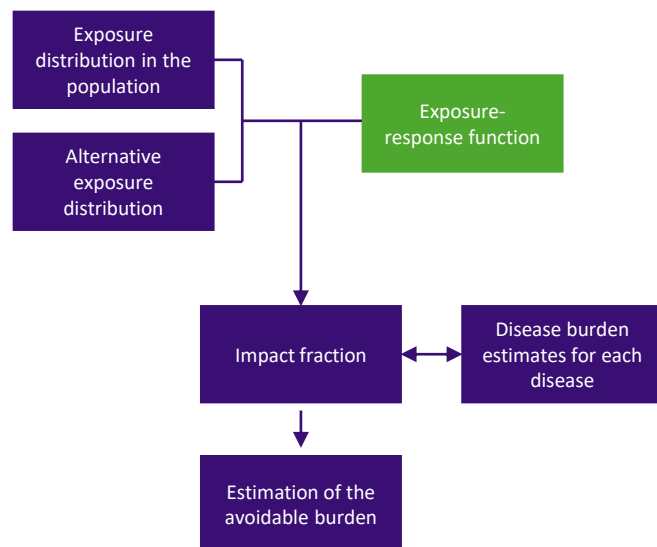


Figure. Schematic overview of Health Impact Assessments.

The METEOR cluster

Five Horizon Europe projects researching the health impacts of environmental stressors and their related socioeconomic costs.



Multiple environmental stressors are covered in these projects *:

	BEST-COST	MARCHES	MISTRAL	URBPOLICY	VALESOR
Air pollution					
PM _{2.5}	✓	✓	✓	✓	✓
PM ₁₀	□	□	✓	□	□
NO ₂	✓	✓	□	✓	✓
O ₃	✓	✓	✓	□	✓
SO ₂ /SO _x	□	✓	✓	□	✓
Noise	✓	□	□	✓	□
Greenspace	□	□	✓	✓	□
Urban heat/temperature	□	□	□	✓	□
Drinking water nitrate	□	✓	□	□	□

* The VALESOR tool (<https://valesor.eu/valesor/the-valesor-tool>) can also handle other pollutants including chemicals and heavy metals

The impacts of these stressors have been estimated for a variety of exposure-outcome pairs including **mortality and morbidity**.

METEOR ERF inventory & document

ERF inventory

WG4 ERF inventory.xlsx



- Excel file with ERFs used in the different METEOR cluster projects
- Choices were made based on the most recent available evidence. As the evidence base continuously grows, these choices may need to be reviewed in the future.

Document

METEOR WG4 ERF.pdf



- Brief introduction to HIA
- Some background to the ERF inventory Considerations for choosing exposure-outcome pairs and ERFs for HIA
- Equity considerations in HIA

Check out the inventory and document at
<https://meteor-research.eu/resources/>

Scan me!

