

THE USE OF HIA TO SUPPORT THE PLAN FOR A CLEANER AIR

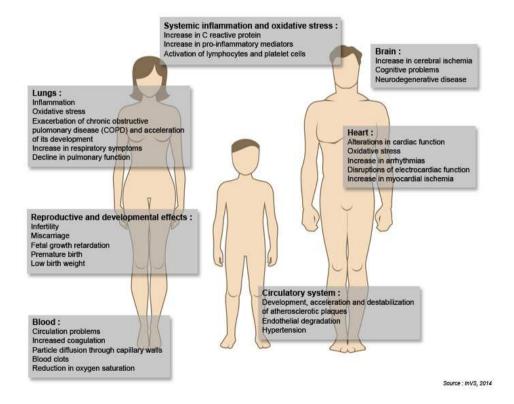
Mathilde Pascal & Sylvia Medina

Health Impact Assessment (HIA) institutionalization and multisectoral collaboration in Europe, Marseille, 20/11/2019

BACKGROUND



Extensive knowledge of the negative impacts of air pollution



• Stakeholders have difficulties to figure out the public health burden Health impact assessment (HIA) = make the invisible killer visible

20 YEARS OF HIA IN FRANCE





AN APPROACH DEVELOPED THROUGH EU **COLLABORATIONS**



• 1999: 3-country HIA

(Austria, Switzerland, France)

1999: APHEIS

=> to provide reliable, up-to-date & easy-to-use information on the health effects of AP to policy-makers, environment and health professionnals, NGOs...



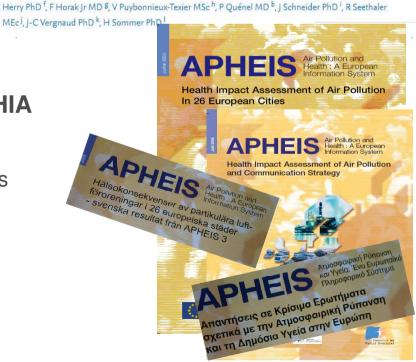


Public-health impact of outdoor and trafficrelated air pollution: a European assessment

N Künzli MD a R Kaiser MD b, S Medina MD b, M Studnicka MD c, O Chanel MD d, P Filliger PhD e, M Herry PhD f, F Horak Jr MD g, V Puybonnieux-Texier MSc h, P Quénel MD b, J Schneider PhD J, R Seethaler

1st guidelines to perform and disseminate HIA

=> summary reports, brochures, FAQ, content and form tailored to the needs of policy-makers

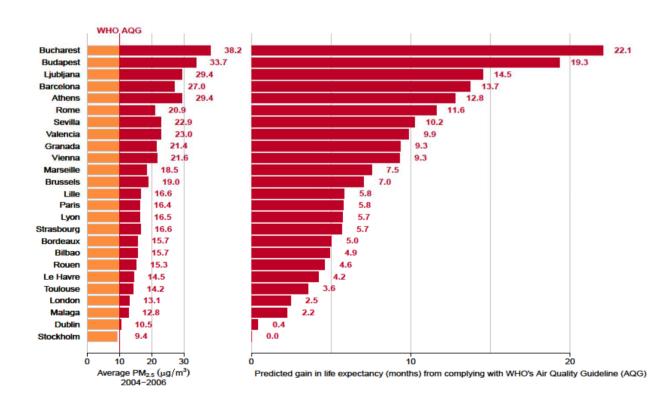


AN APPROACH DEVELOPED THROUGH EU COLLABORATIONS



- 2008-2011: APHEKOM
 - => updated guidelines and training
- Economic valuation

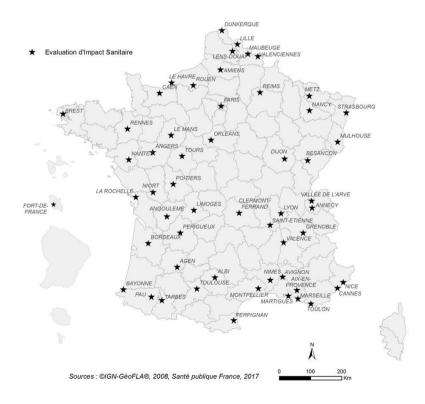
PM_{2,5} >10 μg/m³ = 19 000 deaths per year = 31,5 billions € per year



CITY-LEVEL HIA



- ~ 120 HIA produced between 1999 & 2017
- Based on regularly updated guidelines and Excel tools
- => used to promote local actions and planifications



55 urban areas, 21 millions inhabitants

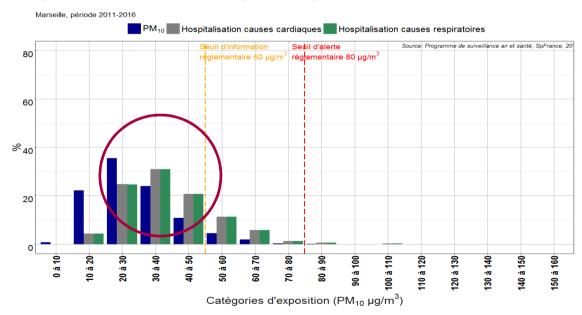
CITY-LEVEL HIA



Acute air pollution episods

=> HIA useful to illustrate that actions targeting acute episodes have a limited public health impact

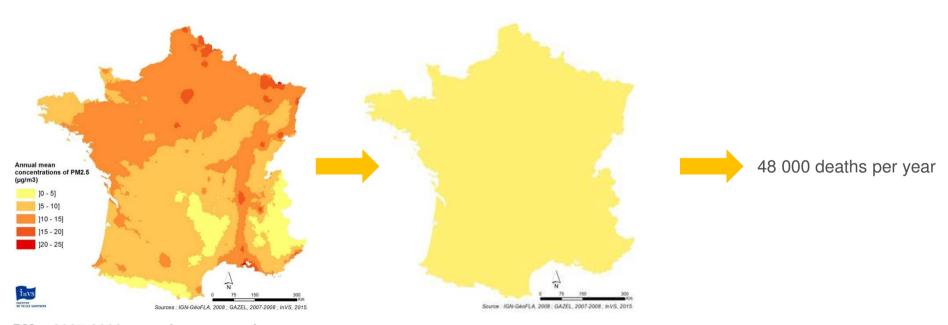
Hospitalisations for cardiac and resp causes by PM10 levels



NATION-WIDE HIA



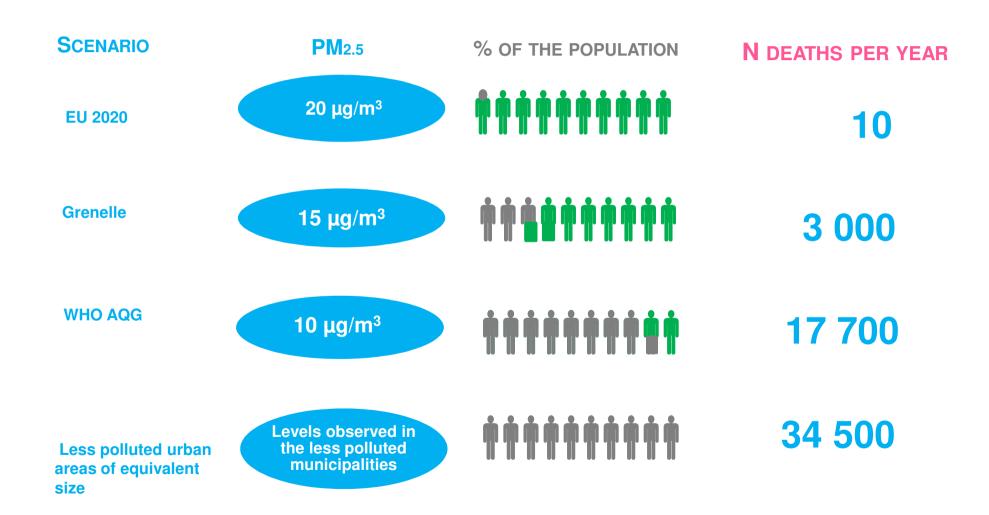
- The literature provides various estimates for France -> highly confusing for decision-makers
- HIA for each of the continental municipalities
 - summary reports by region
 - Results freely available on geodes.santepubliquefrance.fr



PM_{2.5} 2007-2008 annual concentrations

NATION-WIDE HIA

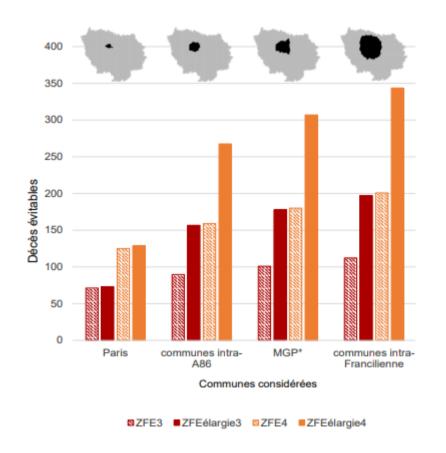


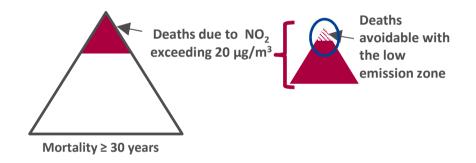


LOW EMISSION ZONE



• HIA of NO₂ associated with a low emission zone in the Paris region











N of deaths avoidable depending on the size of the ZFE

CONDITIONS FOR MEANINGFUL HIA FOR STAKEHOLDERS



- An HIA can be useful to structurate and share scientific knowledge
- 25% of the time = technical aspects, 75% = interface with stakeholders
 - be transparent on the methods and uncertainties, explain them to decision-makers and to their technical advisors
 - dissemination of results through summary reports, FAQ, presentations...

Ways forward

- Empowerment of local stakeholders (e.g. municipalities, NGOs...): publications of 3 updated guidelines to support HIA + translation of AIRQ+ in French





