Landeszentrum Gesundheit Nordrhein-Westfalen



## Health foresight – A survey on quantifying tools

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7<sup>th</sup> EPH Conference Glasgow, 20-22 Nov. 2014



### Context

To improve foresight and "prospective prudence" in PH: evidence-based quantification Existing approaches needing improvement, evaluation

Fehr et al. 2012 JECH 66(12):1088 – 91

Toolmakers survey:

Status quo of model development & availability

- Experiences made with model use
- Priority options for further development



### Methods

Survey aiming at collecting relevant information from the "provider" side (toolmakers)

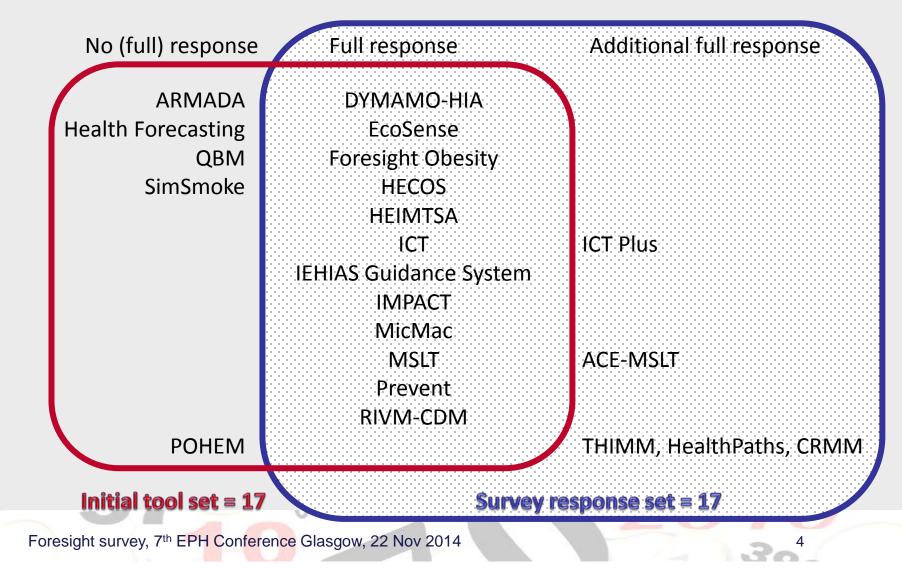
Survey topics:

Status quo of model development and availability

- Experiences made with model usage
- Options for further development
- Options for (comparative) evaluation
- Options for maintenance and continued availability of the tools including their data contents

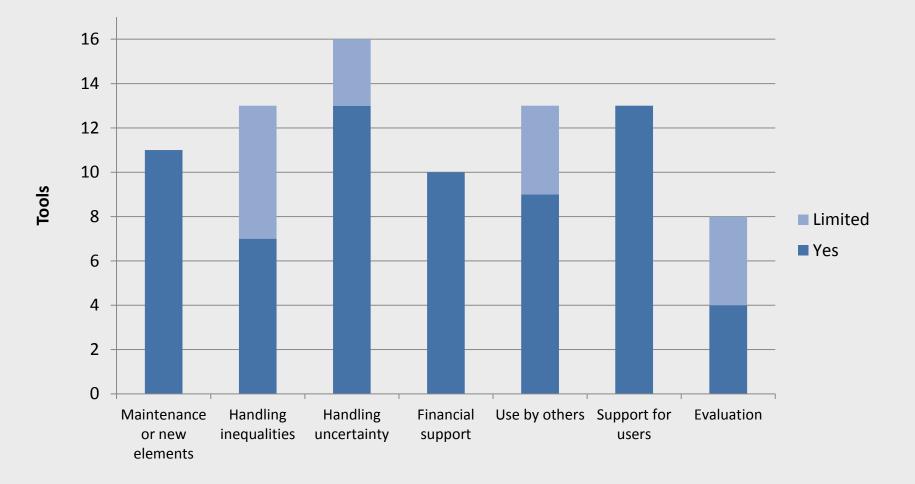


### **Tools / responses**





### Status quo of tool development & use



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### **Tool use** (selected answers)

# For what purposes has the tool been used, since 2011? (Aims)

- Assess the impact of policies, interventions, technologies (incl. costeffectiveness)
- Modeling and simulation research
- "Making scenarios and convincing policy makers"
  (Users)
- Analysts, consultants, academic researchers
- Decision-makers in all jurisdictions across the country
- National cancer league; NGOs
- Subsequent (EC-funded / national) projects



### Tool use (ctd.)

#### (Exposures)

- Tobacco; Blood pressure; Obesity / BMI; Physical activity
- Atmospheric pollution incl. PM2.5; Heavy metals; Arsenic
- Income inequality; Residential segregation

#### (Policies)

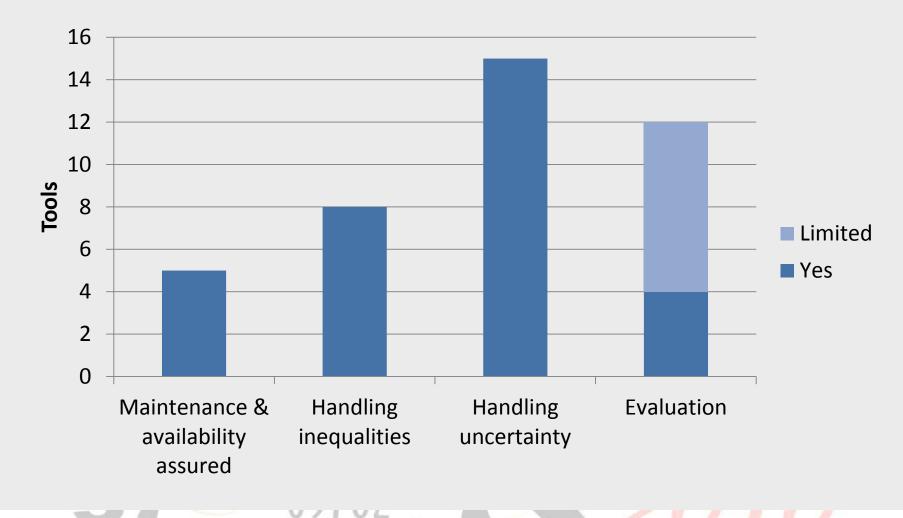
- Smoking cessation; Salt reduction; Air pollution mitigation
- Household heat production and energy efficiency policies
- Colorectal cancer screening; CT screening for heavy smokers
  (Outcomes)
- Deaths averted; Life years gained
- Morbidity cases; Years with and without disability / DALYs
- Spatially resolved individual risk and community impact
- Monetary estimates

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### **Priorities for further development**



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### Conclusions

- Most foresight tools in this study are being maintained and are ready for use; but their future development is uncertain
- These tools are being used for a broad range of exposures, policies, health outcomes; by a variety of users
- Half of the tools is accessible for outside users; practitioners can choose among them



# **Conclusions (2)**

- High agreement on the need to further develop assessment of inequalities and uncertainty
- Interpretation of "tool evaluation" varied a lot among respondents with limited consensus about how to proceed
- There are numerous suggestions concerning future development and use of tools to support policy-making, within health sector and beyond
- Most toolmakers are interested in exchange and cooperation (cf. high response rate to survey request, and answers to explicit question)
- Need to form a community of tool developers that engages with one another as well as with the wider world of actual and potential users

### Acknowledgements

Thanks to all survey participants !

#### This survey is a collaborative initiative of:

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