



Rijksinstituut voor Volksgezondheid
en Milieu
*Ministerie van Volksgezondheid,
Welzijn en Sport*

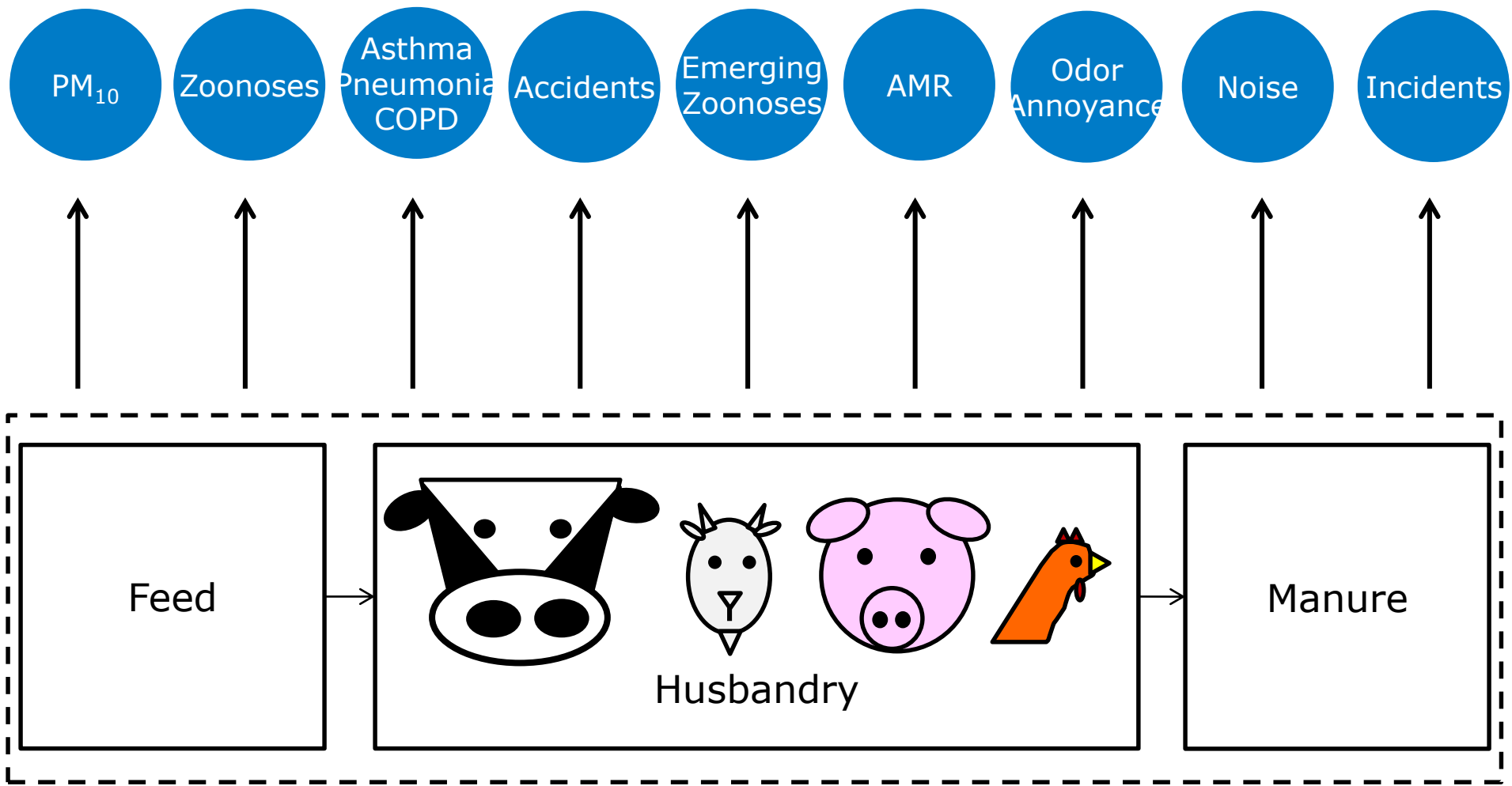
*This research was carried out in the framework
of RIVM Strategic Programme (SPR)*

Impacts of Dutch livestock production on human health

Pim Post

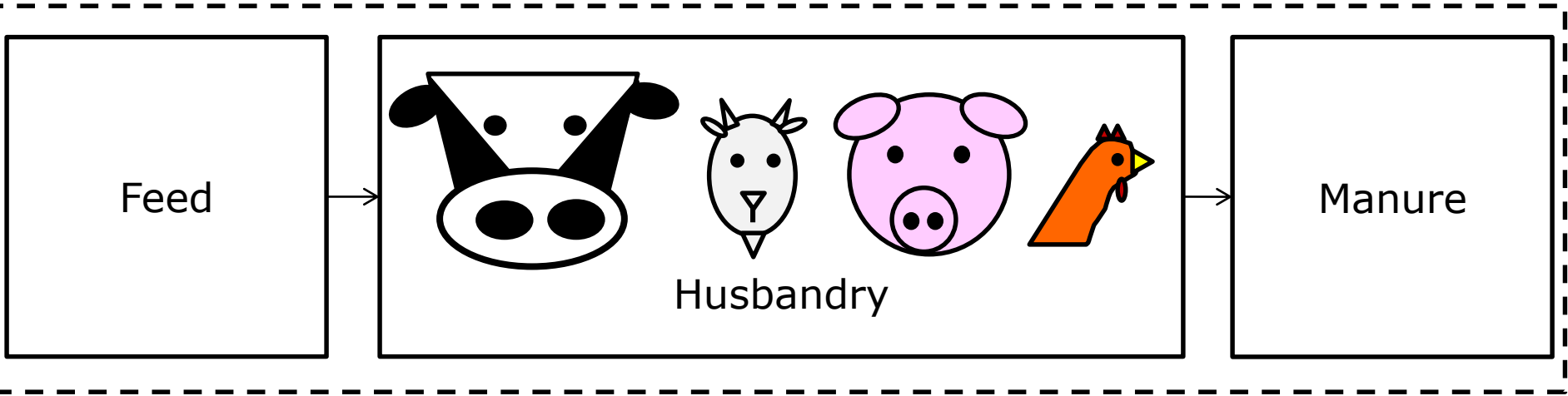
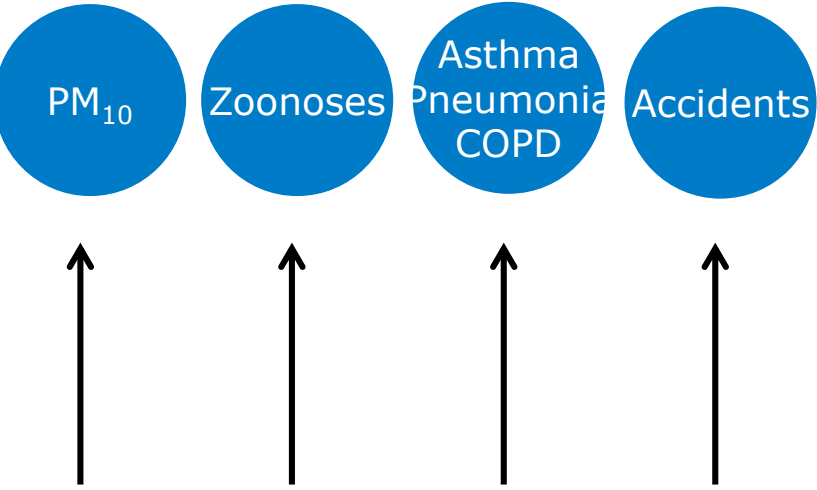
Lenny Hogerwerf (RIVM)
Eddie Bokkers (WUR)
Imke de Boer (WUR)
Erik Lebret (RIVM)
V-OH team (RIVM)





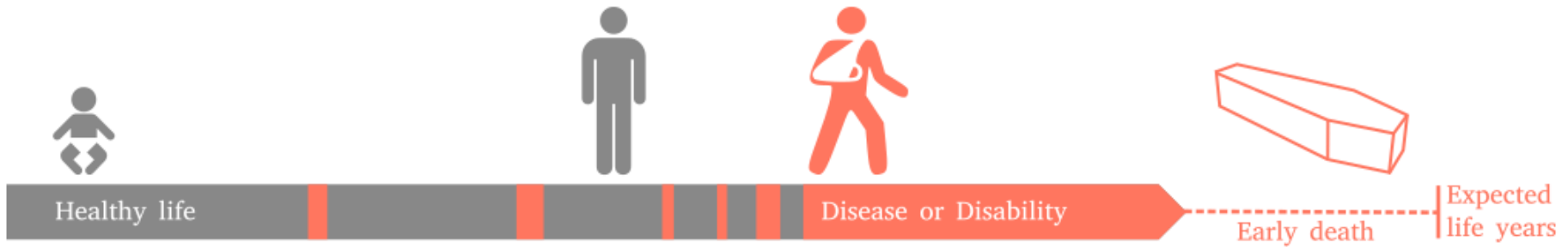


Quantified as DALYs





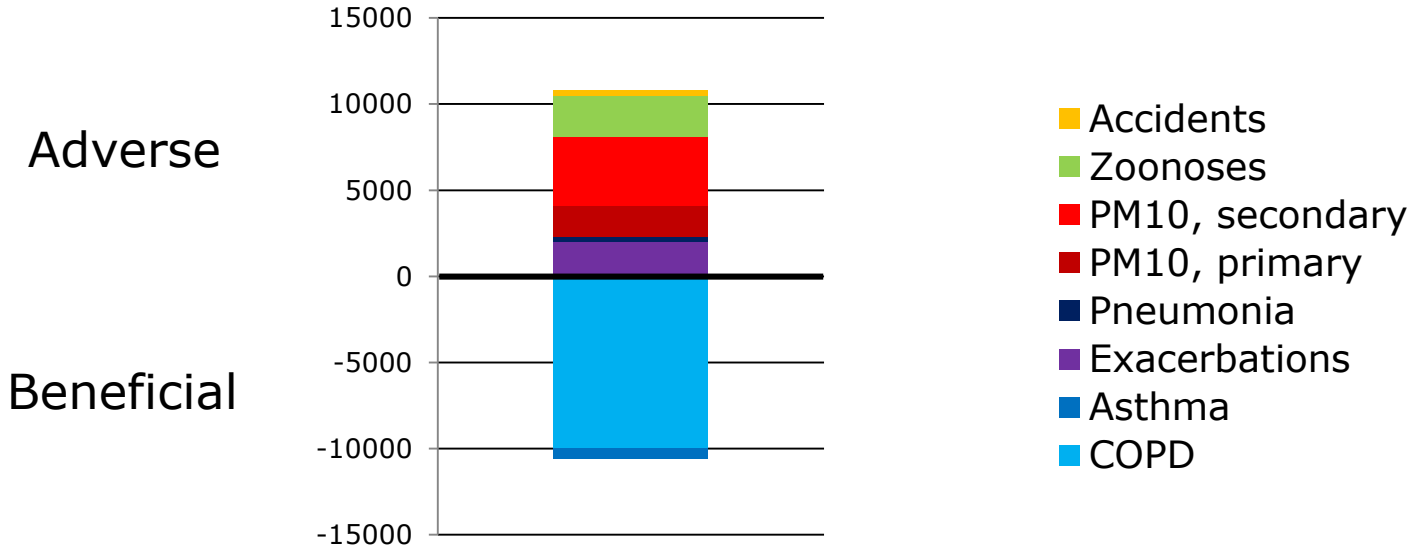
DALY = Years Lived with Disability + Years of Life Lost



Source: Wikimedia Commons



Livestock-related health burden in DALYs





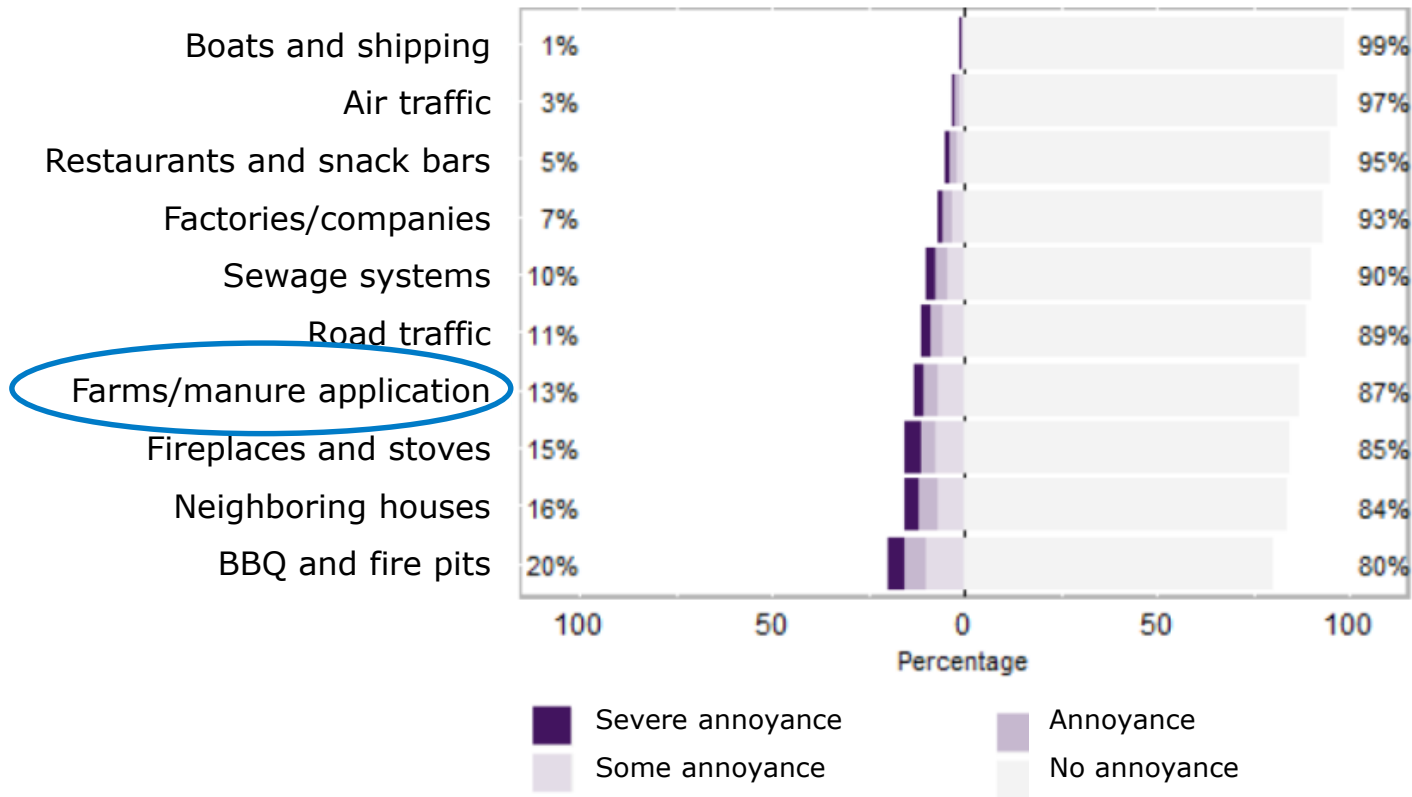
Relative contributions

Particulate Matter	4% of total DALYs related to air pollution
Zoonoses	4% of the total of 38 infectious diseases
Pneumonia	1 % of total LRI DALYs
COPD	5% of total COPD DALYs
Asthma	2% of total Asthma DALYs
Accidents	4% of total occupational accident DALYs



Odor annoyance

Poll et al., 2018






Emerging zoonotic diseases

Adjusted from National security profile (Analistennetwerk Nationale Veiligheid 2016)

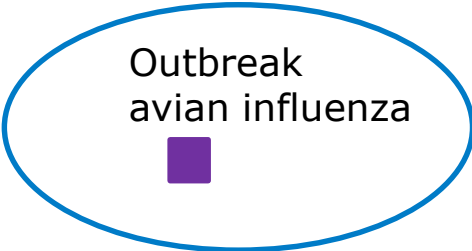
Catastrophic

 Flood – severe (sea)

Very severe

European nuclear accident

Severe



Extreme weather

Considerable



Violent loner

Limited

Very unlikely

Unlikely

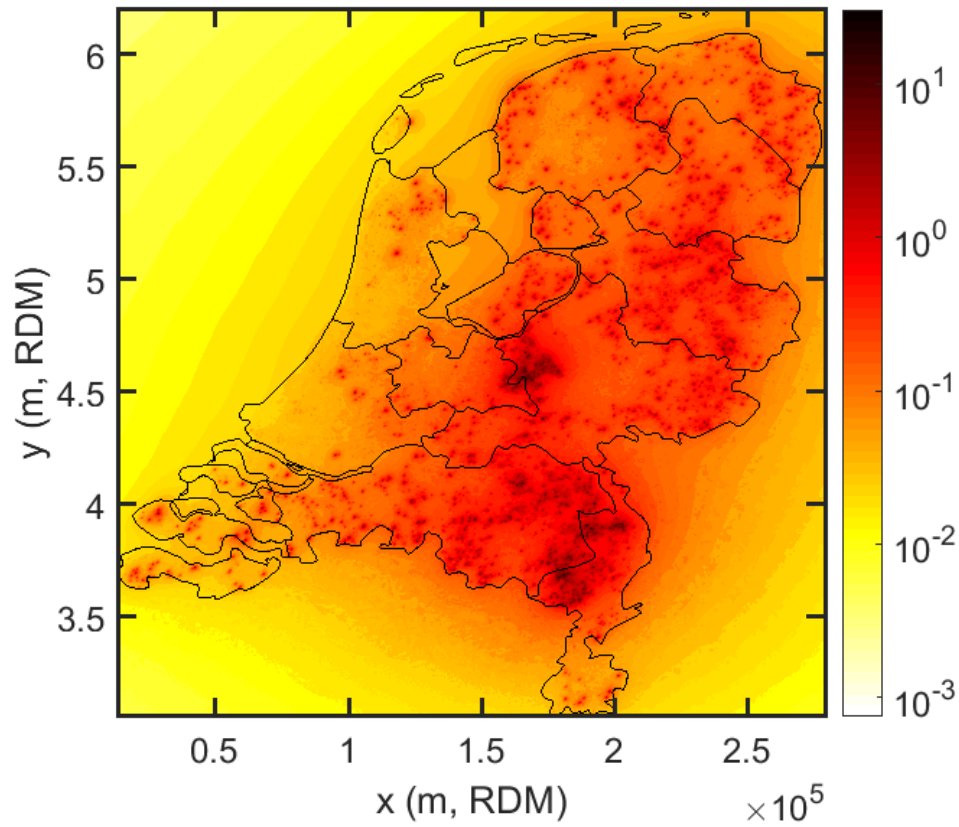
Somewhat likely

Likely

Very likely



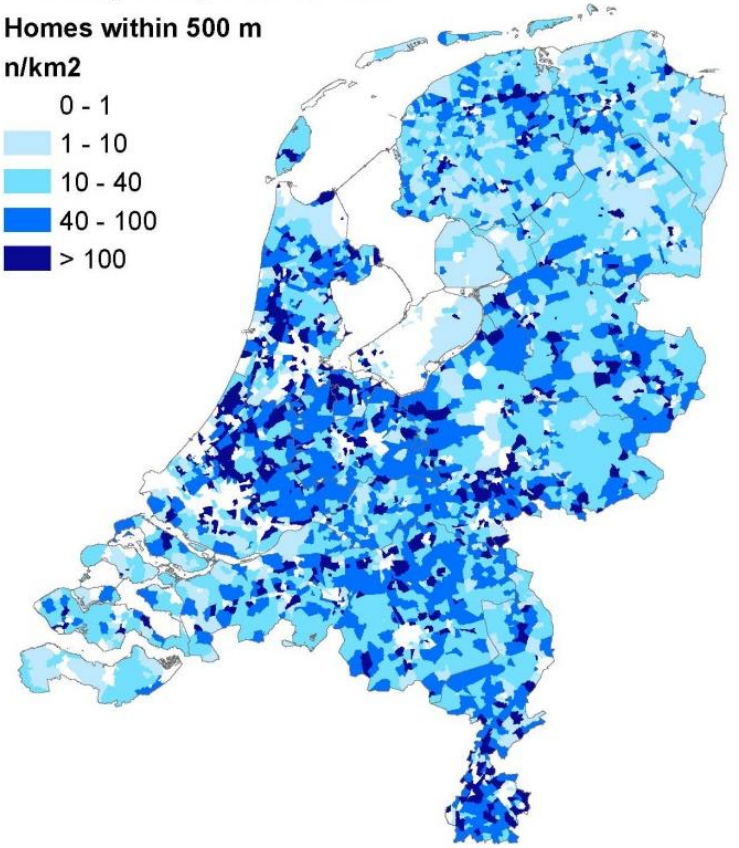
Annual average Local contribution livestock PM₁₀ (µg/m³)

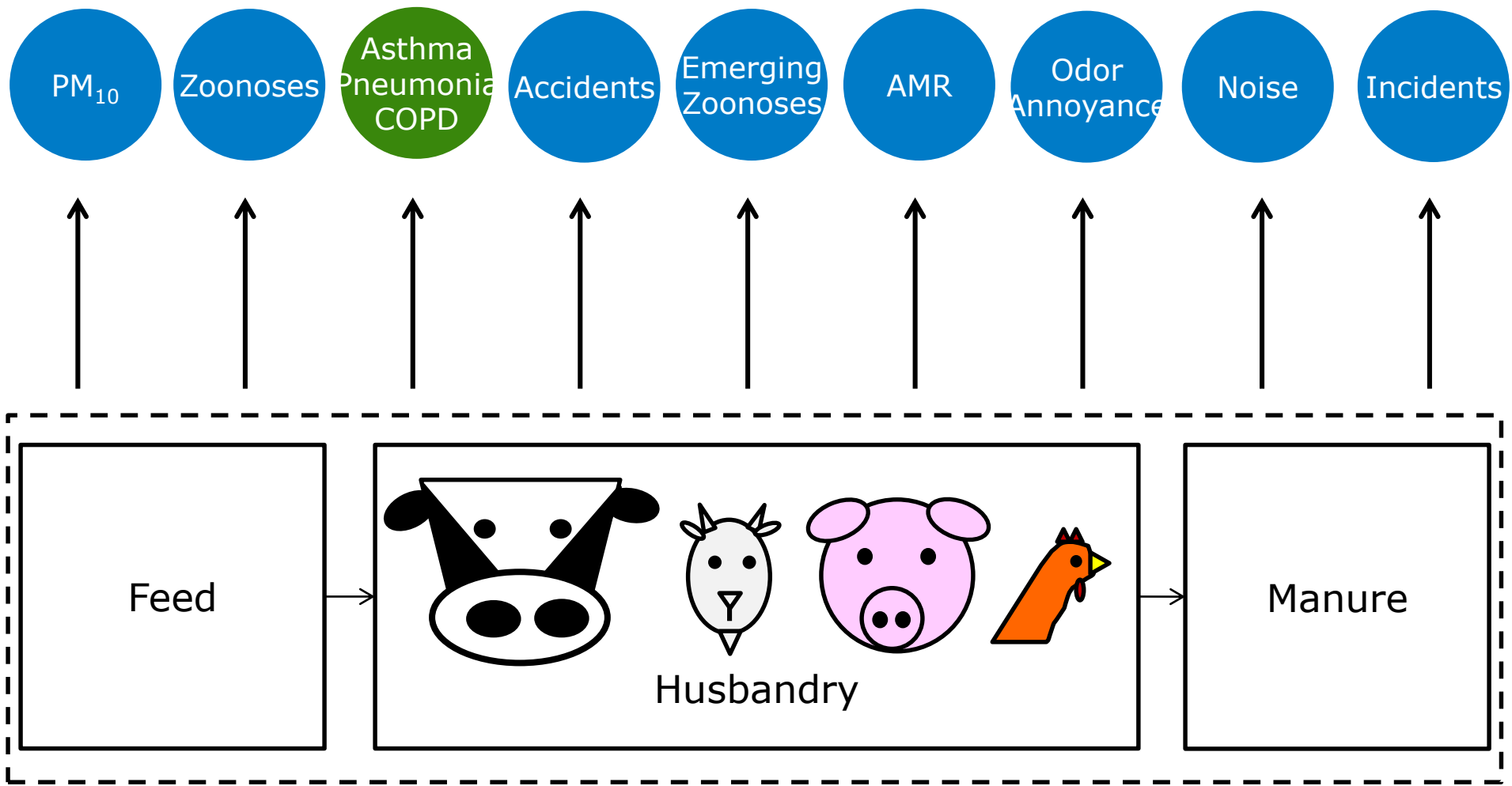


Proximity to any livestock farm

Homes within 500 m
n/km²

- 0 - 1
- 1 - 10
- 10 - 40
- 40 - 100
- > 100







Acknowledgements

V-OH team:

Bert Baumann¹

Paul Fischer¹

Susanna Rutledge-Jonker¹

Henk Hilderink¹

Anne Hollander

Martine J.J. Hoogsteen¹

Marie-Josée J. Mangen¹

Henk Jan Manuel¹

Lapo Mughini-Gras^{1,3}

Ric van Poll¹

Addo van Pul¹

Leo Posthuma^{1,3}

Michiel Rutgers¹

Heike Schmitt¹

Jim van Steenberghe¹

Hendrika A.M. Sterk¹

Anja Verschoor¹

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¹ National Institute for Public Health and the Environment, Bilthoven, The Netherlands

² Institute of Risk Assessment Sciences (IRAS), Utrecht University, Utrecht, The Netherlands

³ Department of Environmental Science, Radboud University, Nijmegen, the Netherlands



References

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