A review of the evidence landscape to parameterize a One Health model of AMR in a Swedish food system context:

Using expert knowledge in the interim?

Is it possible to quantify an existing (1) model of factors deemed important to the emergence and transmission of AMR in the food system of a high-income country?

STEP 1

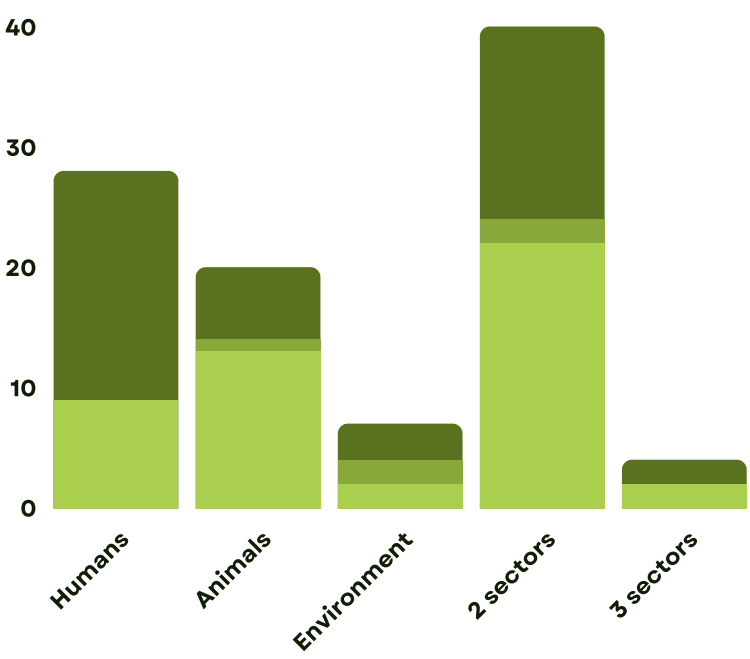
Identify different types of existing models across various parts of the broader OH system in current literature.

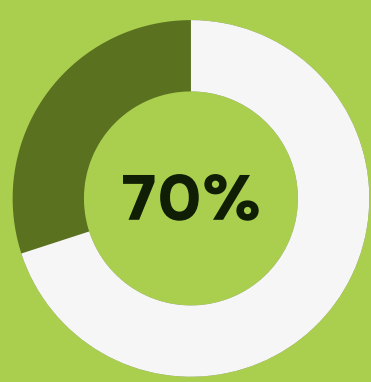
STEP2

Identify data sources and existing evidence in the literature.

ASSESSMENT OF THE EXISTING MODELS

Limited connection between the sectors, nodes on the outer edges of the system were not included.





ASSESSMENT OF THE DATA LANDSCAPE

Evidence landscape was messy and hard to navigate with many data gaps, covering 64 of the 92 nodes.

Purely quantitative model not possible....

Where data gaps exist, experts can provide knowledge from their personal and professional lives (tacit knowledge).

STEP 3

Develop quantifiable data from statements made by a group of experts in food system.

Semi-Quantitative Model?

Future work will combine the data from the literature search and content analysis into a mixed-methods model.

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References

(1) Lambraki, IA et al. (2021). Factors influencing antimicrobial resistance in the European Food System: A participatory, One Health Study. Manuscript submitted for publication to PLOS ONE.

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