




Economic evaluations of One-Health interventions: an antimicrobial resistance case study

We want to assess the impact of different interventions to reduce antimicrobial resistance (AMR).

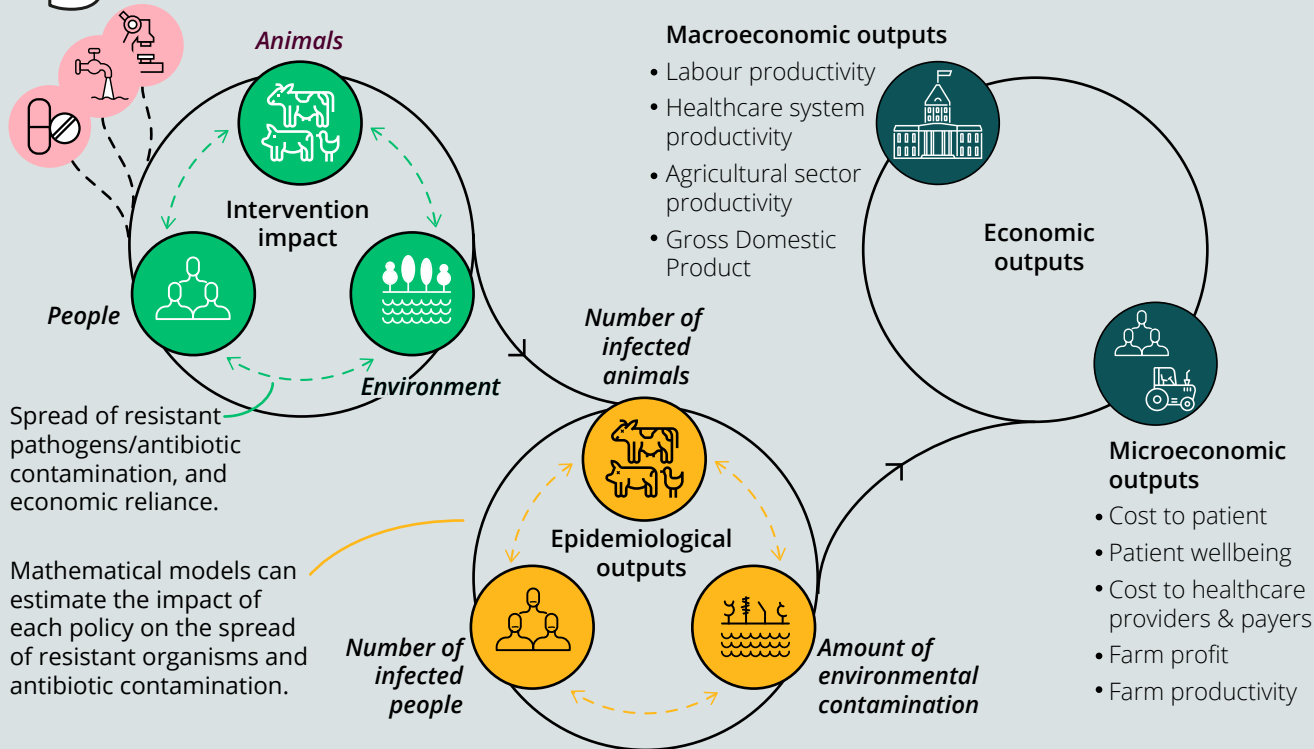
1 Consider the intervention options

-  Eliminate use of antibiotics for promoting growth of animals
-  Rapid and accurate diagnostics for drug-resistant infections in hospital
-  Improved sanitation and hygiene on farms



2 Consider the stakeholders and their objectives



3 Model the impact of intervention options on stakeholder objectives over time



Model outputs*

			
Number of infected people	100,000	150,000	250,000
Number of infected animals	600	700	800
Environmental contamination (mg/kg soil)	0.43	0.58	0.40
Population wellbeing (measured through quality-adjusted life years)	9800	10600	9000
Agriculture sector productivity (\$m)	\$1.2m	\$1.4m	\$1.1m
Gross Domestic Product (GDP)(\$bn)	\$8.7bn	\$10bn	\$9.2bn

A weighted average is calculated according to the specified importance of each output and used to rank the policy options.



*Numbers are for example purposes only, this figure is not a depiction of real data