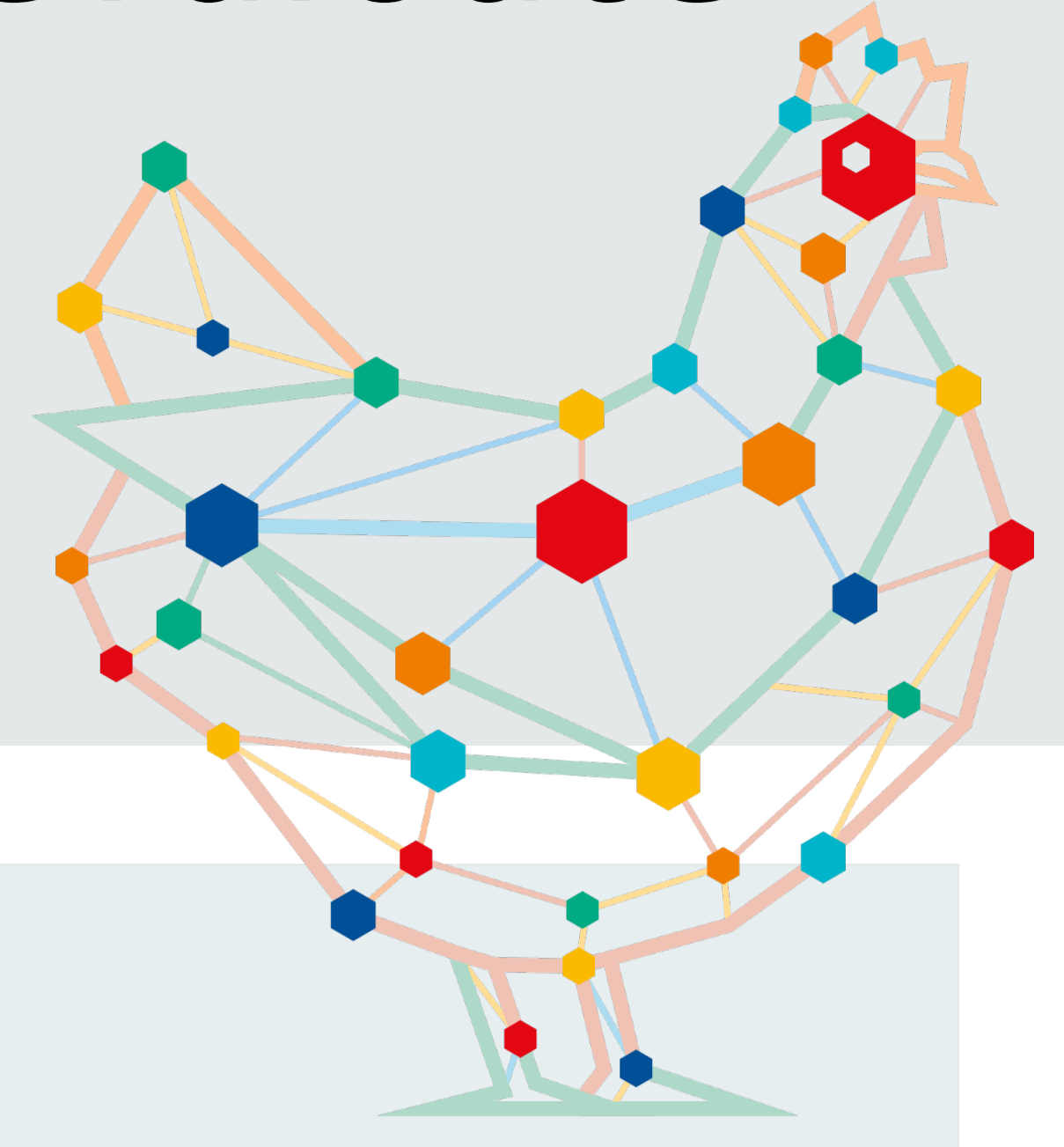




# Developing user-centred surveillance tools to evaluate and improve antimicrobial stewardship

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## Background

- Antimicrobial stewardship (AMS) encompasses a range of actions to improve responsible use of antibiotics
- Information on AMU practices, disease patterns, and farm economics can help inform approaches to improve AMS
- On-farm data management tools could provide this information to inform farmers' AMU decisions and assess for improvements in AMS

## Stakeholder needs assessment for the poultry sector in Indonesia

35 semi-structured interviews in Central Java, West Java, and East Java

-  Farmers and farm managers
-  Associations
-  Poultry shop owners
-  Universities and international organisations
-  Technical services staff

### Thematic analysis of transcripts

- Theme 1: How farmers use information to make decisions on AMU
- Theme 2: The influence of farmers' social and advisory networks
- Theme 3: Farmers' motivations and capacity to change AMU behaviour

### Key findings

Prophylactic AMU is common and often situational (at day old chick arrival or pre/post-vaccination)

Farmers are preferentially engaging with the private sector (technical services and their peer network) over government veterinary services

Farmers are motivated to change AMU to adapt to regulation, maintain drug efficacy, and maintain high farm standards...

... however, they are constrained by rising input costs and lack of affordable and effective alternatives to antibiotics

### Step 1:

Characterise AMU practices and stakeholder needs regarding AMU in chicken production systems in Indonesia

### Step 2:

Develop a methodology to evaluate AMS at farm level

- Define antimicrobial stewardship
- Review existing indicators for assessing AMU
- Propose a methodology for assessing changes in AMS at farm level

### Step 3:

Evaluate the impact of using data tools on AMS over time

- Provide input to develop user-centred data tools on AMU and AMS
- Apply the methodology previously developed to identify baseline data for AMU and AMS
- Evaluate impact of the AMU data tool on AMS behaviours by poultry farmers