



**Food and Agriculture
Organization of the
United Nations**

FAO tools to promote sustainable livestock transformation by reducing the need for antimicrobials on farms

CONTEXT

Antimicrobial resistance (AMR) is a complex threat to public health and agri-food systems, potentially harming food production, safety, and security. FAO is preparing to launch a ten-year global initiative “Reduce the Need for Antimicrobial Use for Sustainable Agrifood System Transformation (RENOFARM)”.

RENOFARM will contribute towards countries’ sustainable agrifood systems transformation through the provision of comprehensive support in the implementation of good production practices that lead to reduced need for antimicrobials in agrifood sectors and to a prudent and responsible use when antimicrobials are needed.

A key intervention area of the initiative is to support sustainable livestock transformation by providing tools and resources that promote health and production, prevent entry and spread of infectious agents, reduce disease incidences, and preserve antimicrobials’ efficacy at the farm level.

FAO has developed various tools for this purpose, such as the following.

Good husbandry practices

- [Small scale poultry production](#)
- [Guide to good dairy farming practice](#)
- [Guide to good farming practices for animal production food safety](#)

Biosecurity

- [Good practices for biosecurity in the pig sector](#)
- [Biosecurity for highly pathogenic avian influenza](#)
- [Improve small and medium scale poultry farms with 3-zone biosecurity implementation](#)
- [Key biosecurity for farmers who are in an area where foot and mouth disease has been confirmed](#)

Vaccination

- [Guidelines for livestock vaccination campaigns](#)
- [Veterinary vaccines, principles and applications](#)

FAO’S WORK ON ANTIMICROBIAL RESISTANCE



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IN NUMBERS

- Over 84 000 tons of antimicrobials used in animals in 2019;
- 41 countries still use antimicrobials for growth promotion in animals in 2021;
- Up to 80 percent of antibiotics consumed by animals are excreted non-metabolized.

Prudent Use

- [Prudent and efficient use of antimicrobials in pigs and poultry](#)
- [How to use antibiotics effectively and responsibly in dairy production](#)
- [How to use antibiotics effectively and responsibly in poultry production](#)
- [How to use antibiotics effectively and responsibly in pig production](#)

Farmer field schools

- [Farmer field schools for small scale livestock producers](#)
- [Decision tools for family poultry development](#)
- [Farmer field schools for family poultry producers](#)

Nutrition alternatives

- [Animal nutrition strategies and options to reduce the use of antimicrobials in animal production](#)
- [Protein sources for the animal feed industry](#)
- [Probiotics in animal nutrition](#)

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