

## PRECAUTIONARY MEASURES

- 1** Implementing hygiene and biosecurity measures.
- 2** Preparing clear protocols for communicable disease prevention and infection control and hygiene.
- 3** Limiting the transport of animals, reducing transport time and ensuring that recommended animal population density is adhered to.
- 4** Zootechnical treatments to minimize disease and reduce antimicrobial use.
- 5** To take effective preventive measures and monitor their susceptibility to pathogens at herd level with the aim of ensuring evidence-based antimicrobial use in herds in line with prudent use.



## MEDICATED FEED

- Prohibition of the use of antimicrobials as prophylaxis and growth supplements in medicated feed.
- Compliance with a **veterinary prescription.**
- Appropriate drug** delivery system.
- Distribution homogeneity** of the drug.
- Safe and clean **clean storage of** medicated feed.

## ANTIMICROBIAL RESISTANCE IN BOVINE AND OVINE ANIMALS



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EU FOOD SAFETY  
AND FOOD QUALITY

# AMR



is the process of microorganisms becoming resistant to antibiotic treatment.

- Used drugs are becoming less effective, meaning more deaths and more complications during treatment.



It is estimated that by **2050** AMR will cause more deaths than cancer.



**33,000**

deaths per year in the EU



**1.5 billion Euro**

loss per year in health and production

## CORRECT IMPLEMENTATION ACTIVITIES

- Avoiding the use of prophylactic antimicrobials in newborn calves and performing good breeding practices instead;
- Antibiotics should not be used in healthy animals for protection purposes;
- Avoiding systematic treatment of cows in the dry period;
- Establish comprehensive hygiene measures, good farm practices and management strategies to reduce the occurrence and spread of mastitis in dairy cows;
- To minimize the use of intramammary antimicrobials in dairy cows and to support the use of rapid diagnostic tests to identify mastitis-causing pathogens;
- Avoiding giving waste milk to calves left over from antimicrobial used cows.



## FACTORS AFFECTING THE FORMATION OF RESISTANCE



Use of **antibiotics** only with a veterinary prescription

- Antibiotics cannot be used in healthy animals for protection purposes.
- Antibiotics cannot be used to accelerate growth and increase yield.



Antibiotics should only be used on **sick animals.**



Need for treatment.

Compliance with dosage and duration of treatment.



Appropriate withdrawal period.

Documentation of treatment.