Antimicrobial agents, including antibiotics, have saved millions of lives, substantially reduced the burden of diseases in people and animals, improved quality of life, contributed to improved food production and safety, and helped increase life expectancy.

The emergence and spread of antimicrobial resistance (AMR) in several microorganisms is complicating the management of many infectious diseases.

AMR is a major threat to human development and the fight against infectious diseases. It endangers animal health and welfare, as well as food production. AMR also adversely affects the functioning of human, animal and plant health systems and economies.

Developing countries, with a greater burden of infectious disease and limited resources, will be the most adversely affected by AMR.

AMR requires a collective and practical response. Global Action Plan to guide countries in developing and implementing national action plans was endorsed by WHO, FAO and OIE in 2015.

For more information on the implementation of the Global Action Plan:
FAO website: www.fao.org/antimicrobial-resistance
OIE website: www.oie.int/antimicrobial-resistance
WHO website: www.who.int/antimicrobial-resistance
**Antimicrobial resistance can affect us all!**

**Take action now**

**To protect human, animal, plant & environmental health**

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### Food Safety
- Implement legislation that is based on the standards of the Codex Alimentarius.
- Source food only from suppliers complying with regulations and using Good Hygiene Practices and HACCP.
- Keep clean, separate raw and cooked, cook thoroughly, keep food at safe temperatures, start with clean water and safe raw ingredients.
- Consumers have the power: support distributors and producers that follow good food safety guidelines and responsible use of antimicrobials.

### Human Health
- Adopt good hygiene habits.
- Ensure antibiotics are only used when necessary and under medical supervision.
- Avoid buying antibiotics from unregulated sources - they may be of poor quality and ineffective.
- Tell your friends, family and colleagues about the appropriate use of antibiotics.
- Adopt sound husbandry practices (biosecurity, hygiene and vaccination protocols). Don’t use antimicrobials for growth promotion purposes.
- Ensure antimicrobials are only used with prescription diagnosis and under supervision of an authorised professional.

### National Authorities
- Regulation is mandatory to promote appropriate use of antimicrobials: make sure legislation is implemented.
- Support and finance the development of methods for the prevention, diagnosis and treatment of disease, to reduce dependence on antimicrobials.
- Strengthen national AMR surveillance systems based on global standards.

### Plant Health
- Always source Plant Protection Products (PPP) through authorised producers and distributors.
- Inform yourself about appropriate use of antimicrobials: you could reduce crop losses and save money and lives.
- Don’t cut corners on waste disposal. Respect regulations and follow guidelines on waste management.
- Use only approved sources of antimicrobials and avoid unregulated sources.

### Animal Health
- Adopt sound husbandry practices (biosecurity, hygiene and vaccination protocols).
- Ensure antimicrobials are used on prescription after diagnostic and under supervision by a veterinarian.
- Use only high quality antimicrobials manufactured according to OIE international standards and sold only by authorised distributors.
- Handle antimicrobials prudently and responsibly by respecting the dosage directions and professional advice.
- Veterinarians should keep their knowledge up to date and raise awareness about antimicrobial resistance.

### Environment
- Implement legislation to reduce the risk of disease and need for antimicrobials.
- Always source Plant Protection Products (PPP) through authorised producers and distributors.
- Treat waste water before release into the environment, follow guidelines for disposal, treatment and spreading of manure, and dispose of antibiotics according to guidelines.
- Learn ways on how you can protect the environment from waste your operations produce.

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*terrestrial and aquatic
**Hazard Analysis and Critical Control Points*