

MINISTÈRE

DE L'AGRICULTURE

ET DE

L'ALIMENTATION

ECOANTIBIO: A SUCCESSFUL PUBLIC POLICY TO FIGHT AGAINST ANTIMICROBIAL RESISTANCE IN THE VETERINARY SECTOR IN FRANCE





CONTEXT IN 2010

- 2 action plans against antimicrobial resistance (AMR) already existing in human medicine
- France was among high antimicrobial users in the veterinary sector in Europe
- Initiatives by some farmers organisations and veterinarians to decrease antimicrobial use
- Awareness needed to be improved

There were assets to lean on:

- Good governance:
- Solid legal and regulatory framework regulating producing, wholesaling, storage, prescription, delivery and use of veterinary medicinal products (VMP)
- Professional organisations well identified and organised
- Distribution channels of VMP well identified
- Experts in labs
- Antimicrobial sales monitoring



- → That is why it was decided to build an action plan to fight against AMR in the veterinary sector
- Monitoring of antimicrobial resistance in animal pathogens (Resapath)
- Monitoring of commensal and zoonotic bacteria

METHODS

STEP 1 Co-construction of the plan with all the stakeholders (2010-2011): working groups between stakeholders and competent authority

- Veterinarians: pets, horses, intensive productions, dairy and suckler cows, fish, beekeeping
- Farmers
- Scientists
- Pharmaceutical laboratories
- \rightarrow Identification of possible actions and knowledge gaps

STEP 2 Framework of the plan

• Duration: 2012-2017

• Objectives:

- Decrease by 25% animal exposure to antimicrobials
- Decrease the use of critically important antimicrobials

• A name and a motto

- Actions:
- Regulatory measures

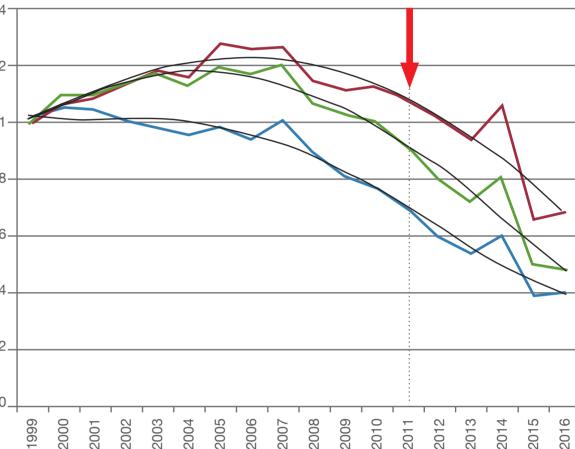


RESULTS SUCCESS!

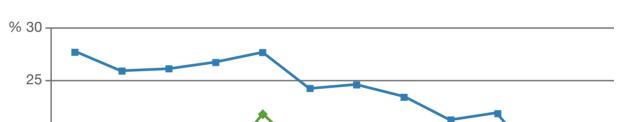
ECOANTIBIO

- All antimicrobials in 2016:
 - \rightarrow -37% exposure reduction vs 2011
- Animal level of exposure to antimicrobials (ALEA) to critically important antimicrobials:
- \rightarrow -75% fluoroquinolones vs. 2013
- → -81% C3/C4 G vs. 2013
- → -55% Colistin vs. 2011
- AMR: downward trend since 2006 to most antimicrobials
- State financial support: 7.7 M € 2012-2016 (research, training, communication)





Evolution of indicators used to monitor antimicrobial use thanks to sales data, in all species, in France, between 1999 and 2016



Example 1: Restrict the use of critically important antimicrobials \rightarrow Legal tools:

- Preventive use of critically important antimicrobials (CIA) is forbidden
- Curative and metaphylactic use possible only after:
- ✓ Clinical examination or necropsy
- ✓ Sampling and identifying the bacteria
- ✓ Sensitivity testing

Example 2: Ban on discounts for antimicrobials sales

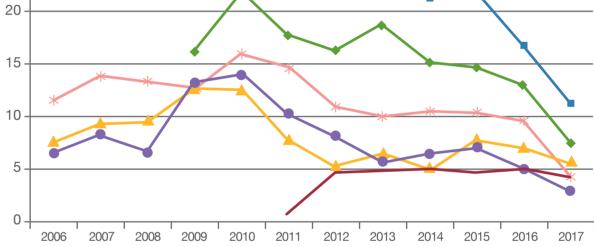
- Incentive measures \rightarrow <u>awareness campaign</u> targeting pet owners and farmers
- Research
- Communication
- Monitoring

ES ANTIBIOTIQUE c'est pas ECOANTIBIO ECOANT

Antibiotics are not automatic for us either »



Exposure of animals to antimicrobials in mg/ PCU in 2015



Resistance to fluoroquinolones in E. coli in 2017 in different animal species. Data from Resapath

• Communicating to all the stakeholders on the results of research

WHAT COULD BE IMPROVED?

- Regulatory measures: not enough controls to ensure correct and full implementation
- Some actions take more time to be implemented
- Not really in a One Health spirit

Main upcoming difficulty: keep farmers and vets involved



RECOMMANDATIONS

- Keep on the efforts and keep all stakeholders involved!
- Ecoantibio 2 was launched in 2017 with the following objectives:
- Less regulatory measures and more incentive measures
- Evaluate Ecoantibio 1 actions
- Consolidate Ecoantibio 1
- Promote Ecoantibio 1 at the national, European and international level
- Ecoantibio 2 aims to promote good husbandry practices and preventives measures for infectious diseases
- Better integration in the spirit of One Health: Ecoantibio 2 is part of the interministerial roadmap for controlling AMR in line with the European Union One Health Action Plan against AMR

2018 communication campaign targetting veterinarians and farmers: « antibiotics, as needed, when needed »



- Relying on political will
- Involving all public and private stakeholders:
- Co-construction \rightarrow confidence relationship \rightarrow stakeholders accept regulatory measures and competent authority accept to delegate
- Make every one feel responsible for the fight against AMR
- Improving husbandry practices i.e. hygiene, farm building maintenance, animal health monitoring
- Reinforcing partnership between prescribers and animal owners
- Promoting prevention and alternatives such as vaccines

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