MEASURES UNDERTAKEN IN EU COUNTRIES FOR ACHIEVING OR MAINTAINING A LOW(ERED) ANTIBIOTIC USE IN ANIMALS
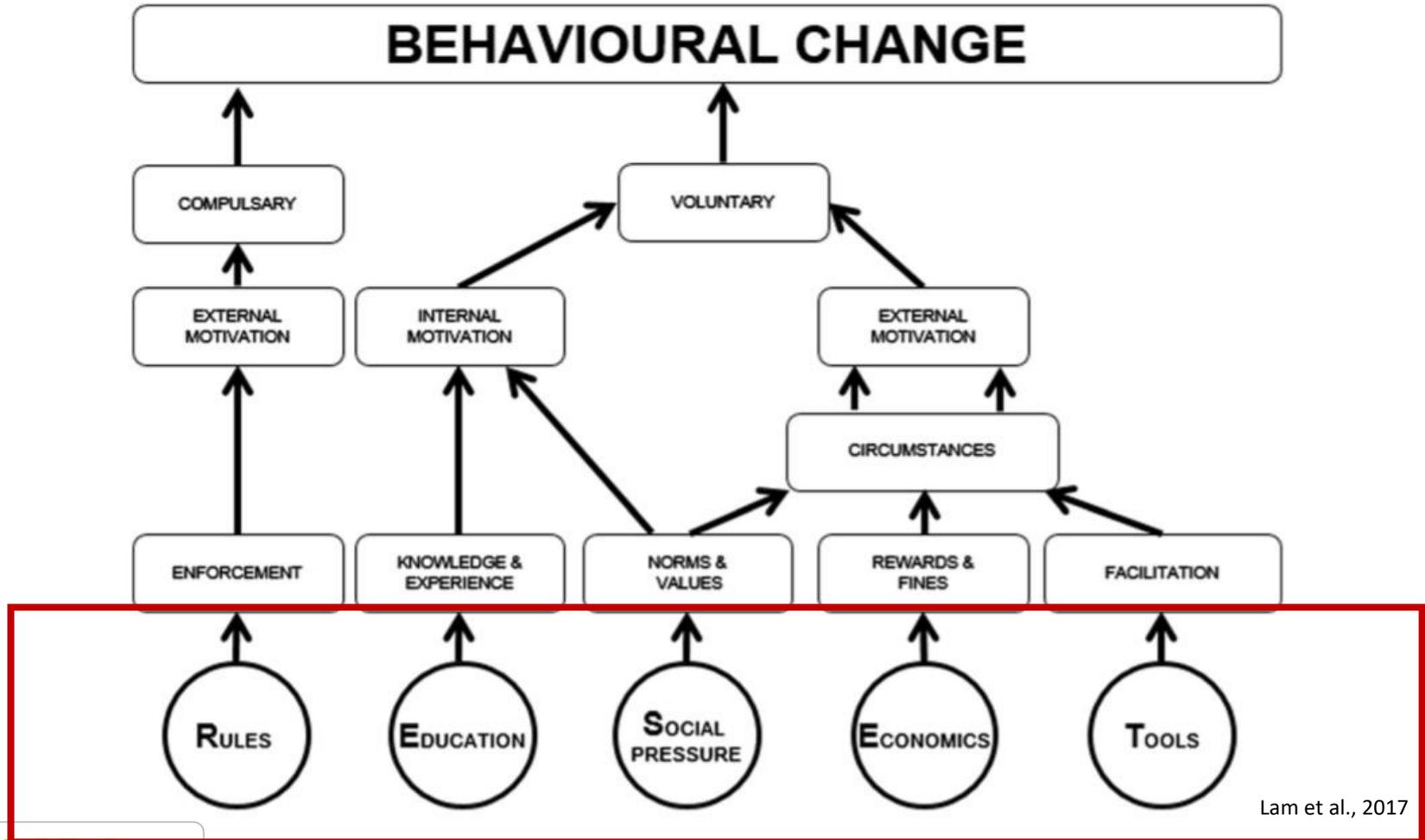
Bénédicte Callens

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Anti**M**icrobial **C**onsumption and **R**esistance in **A**nimals - AMCRA

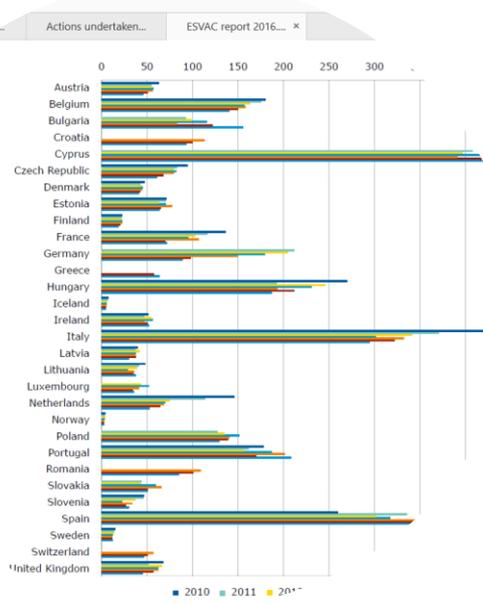# RESET Mɪɴᴅsᴇᴛ Mᴏᴅᴇʟ ᴄᴏᴍᴘʀɪsɪɴɢ ᴛʜᴇ ᴍᴏsᴛ ɪᴍᴘᴏʀᴛᴀɴᴛ ᴅʀɪᴠᴇʀs ғᴏʀ ʜᴜᴍᴀɴ ʙᴇʜᴀᴠɪᴏᴜʀ ᴄʜᴀɴɢᴇ

Lam et al., 2017

INCLUSION OF COUNTRIES

- **having a great reduction of AMU during the last 5-6 years**
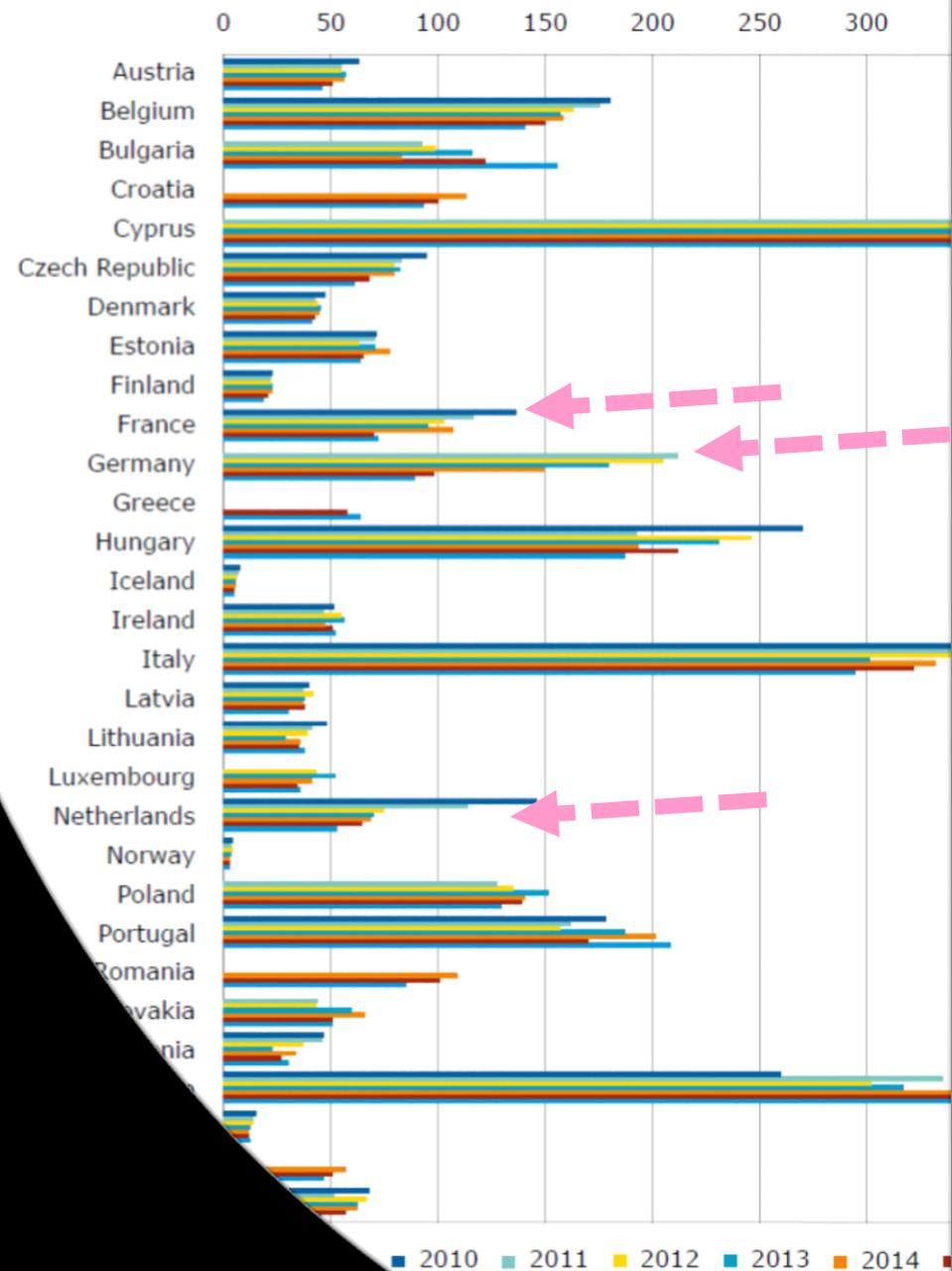
- **having a "historically" low AMU in animals**

Mg active substance per Population Correction Unit (PCU); ESVAC, 2018

HAVING A GREAT REDUCTION OF **AMU** DURING THE LAST 5-6 YEARS

Three countries showed a reduction in AMU of **at least 45% during the last 5** (**Germany**) **or 6 years** (**The Netherlands and France**).

HAVING A HISTORICALLY LOW AMU IN VETERINARY MEDICINE

Defined as **less than 70 mg/PCU during the last 6 years**.

These countries have a **pig and/or poultry production** that is *comparable* **to Belgium in size**; these animal species are *known to be associated with a high AMU in Belgium*.
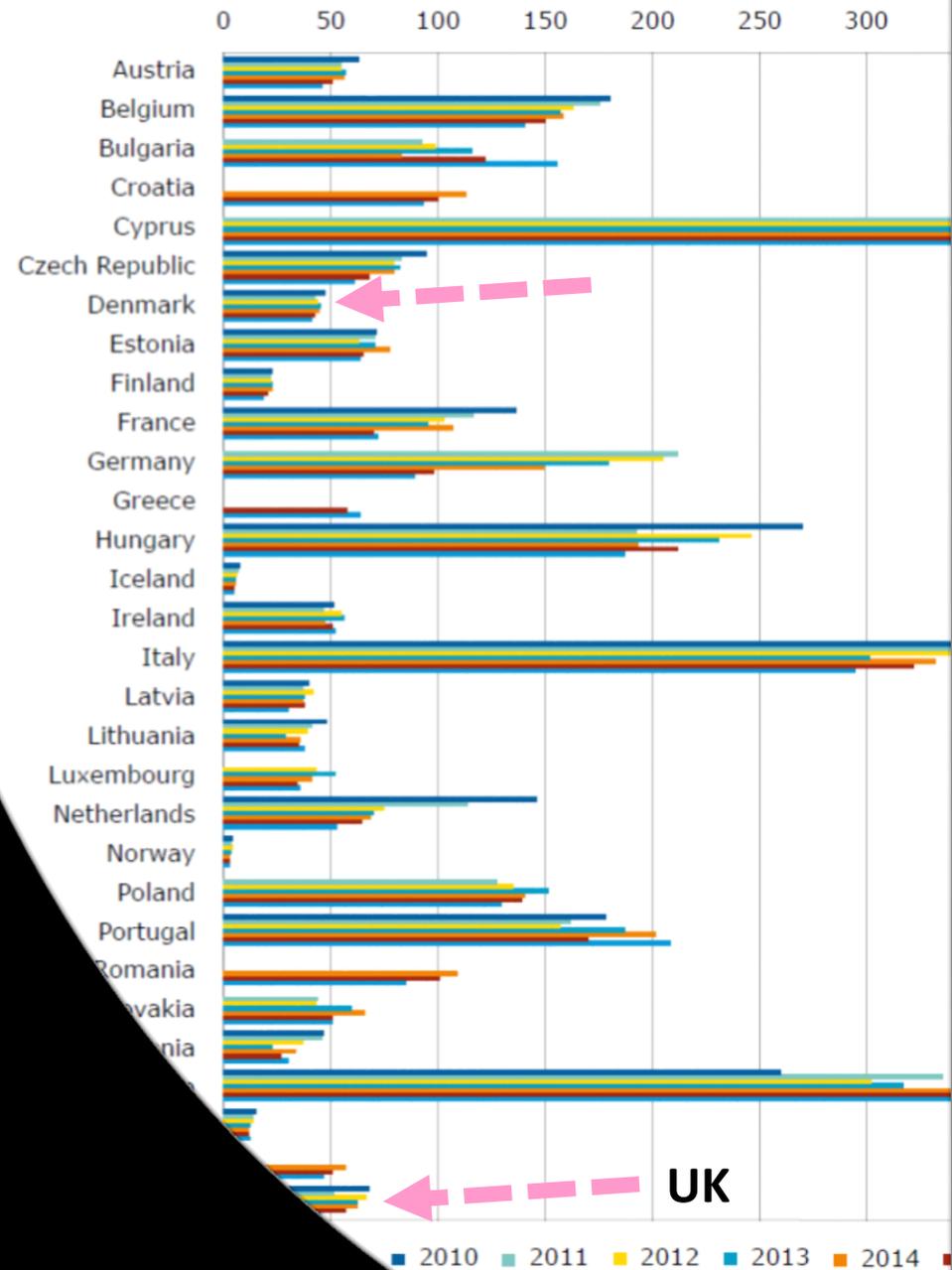
TABLE SUMMARIZING THE IDENTIFIED ACTIONS PER COUNTRY

	Rules	Education	Social pressure	Economics	Tools
The Netherlands	Autoregulation and new legislations	Reports on AMU and AMR; creation of SDa; Guidelines for veterinarians;	Reduction targets; Covenant;	Benchmarking farmers and veterinarians	Guidelines for veterinarians; Benchmarking farmers and veterinarians
France	Autoregulation and new legislations	Reports on AMU and AMR; reinforcement of diagnostic labs; trainings for veterinarians; research and development;	Reduction targets	Benchmarking farmers (not in all sectors and mostly voluntarily based)	Reinforcement of diagnostic labs;
Germany	New legislations	Report on AMU and AMR; reinforcement of diagnostic labs; Guidelines for veterinarians;	Interministerial working group on AMR; common goals in human and veterinary medicine	Tax on medicated feed	Reinforcement of diagnostic labs; Guidelines for veterinarians;
Denmark	New legislations	Report on AMU and AMR; Guidelines for veterinarians;	Reduction targets	Benchmarking of farmers; Tax on antimicrobials	Guidelines for veterinarians; Benchmarking farmers
United Kingdom	Autoregulation	Guidelines for veterinarians; creation of RUMA; Reports on AMU and AMR	Action plan common in human and veterinary medicine; Reduction targets	Publication antibiotic policy by UK main distributors	Guidelines for veterinarians;

AMCRA, 2019

RULES →
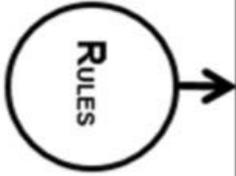
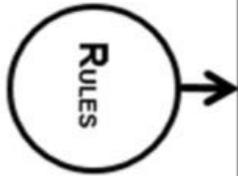# RD 21/06/2016:

- conditions for use CIAs

Evolution total consumption of red molecules in reference to 2011 (AMCRA 2020 plan)

Royal Decree on conditions for use of CIA's
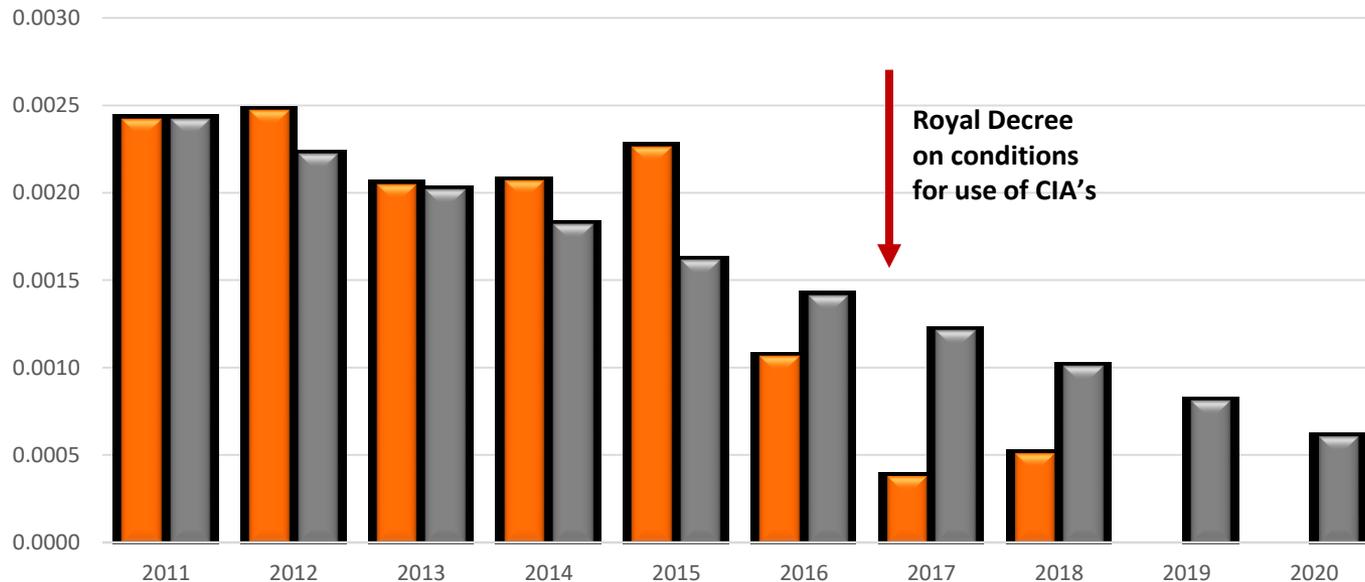
2011 -> 2018: -79,1%

realisation · goal

B E L G I U M

RD 21/06/2016 and 31/01/2017:

- conditions for use CIA's

- registration antibiotic use

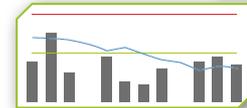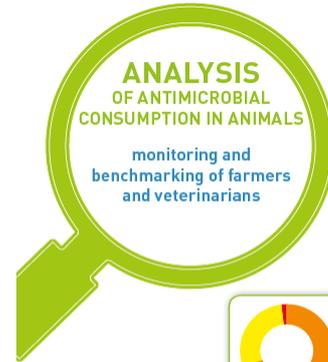**BELGIUM**

RD 21/06/2016 and 31/0

- conditions for use CIA's

- registration antibiotic use

Communication and awareness

Benchmarking reports for farmers and vets
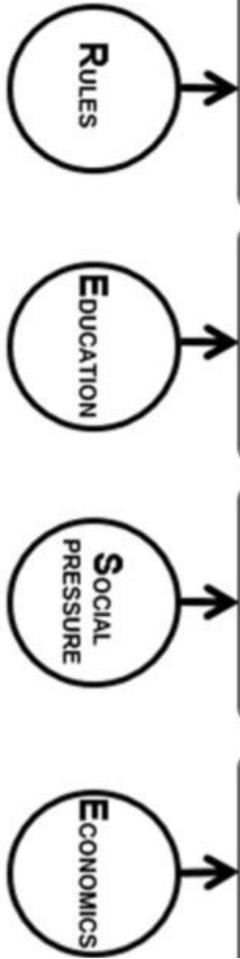
ADVISING AND RAISING AWARENESS

FOR A SUSTAINABLE ANTIBIOTIC USE IN VETERINARY MEDICINE

ANALYSIS OF ANTIMICROBIAL CONSUMPTION IN ANIMALS

monitoring and benchmarking of farmers and veterinarians

SANITEL-MED

AB Register

BIGAME

BELGIUM

RULES

RD 21/06/2016 and 31/0?

- conditions for use CIA's

- registration antibiotic use

EDUCATION

Communication
and awareness

SOCIAL PRESSURE

Benchmarking reports
for farmers and vets

ECONOMICS

Antibiotic tax

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BIGAME

famhp
federal agency for medicines and health products

AMCRA
IMPROVE HEALTH, REDUCE RESISTANCE

BELGIUM

RULES

RD 21/06/2016 and 31/0...

- conditions for use CIA's

- registration antibiotic use

EDUCATION

Communication
and awareness

SOCIAL PRESSURE

Benchmarking reports
for farmers and vets

ECONOMICS

Antibiotic tax

TOOLS

E-formularia,
Plan of Approach,
Herd Health Plans

ADVISING AND RAISING AWARENESS
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BIGAME

famhp
federal agency for medicines and health products

www.e-formularium.be
Uw leidraad in gerichte antibioticatherapiekeuze

AMCRA

PLAN VAN AANPAK (PvA)
VOOR
REDUCTIE ANTIBIOTICAGEBRUIK
OP BEDRIJFSNIVEAU

IMPROVE HEALTH, REDUCE RESISTANCE

ANTIMICROBIAL CONSUMPTION IN ANIMALS in Belgium in 2018
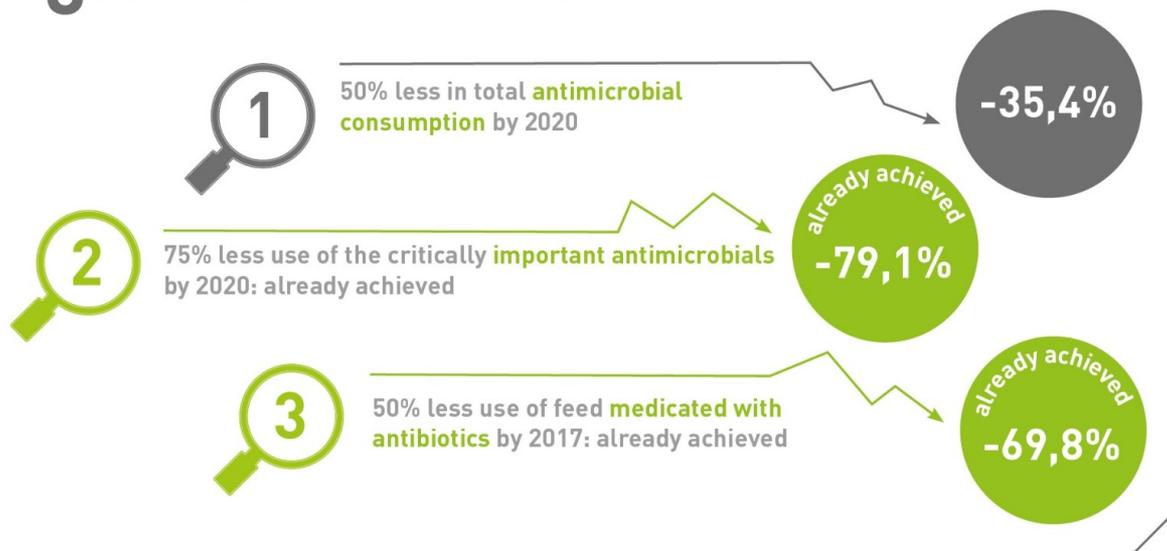
! **TOTAL REDUCTION IN ANTIMICROBIAL CONSUMPTION OF 12,8% IN 2018 COMPARED TO 2017**

-12,8%

3 **REDUCTION GOALS COMPARED TO 2011**

1 50% less in total **antimicrobial consumption** by 2020

-35,4%

2 75% less use of the critically **important antimicrobials** by 2020: already achieved

already achieved **-79,1%**

3 50% less use of feed **medicated with antibiotics** by 2017: already achieved

already achieved **-69,8%**

AMCRA
IMPROVE HEALTH, REDUCE RESISTANCE

Center of expertise
Antimicrobial Consumption and Resistance in Animals

CONCLUSION

- Changing human behaviour is very **challenging**.

- No magic formulae for success!

- Countries with a reduced / low AMU were successful due to **combined actions on the different drivers of human behaviour change**.

- **Different parties** are therefore addressed otherwise, and this will help to advance a more sustainable animal husbandry.

- AMU in **Belgium** decreased significantly by intense collaboration of the most important stakeholders and the authorities, applying different drivers for changing human behaviour.

- Understanding how 'drivers' work, to implement them well!

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IMPROVE HEALTH, REDUCE RESISTANCE

THANK YOU!

QUESTIONS?