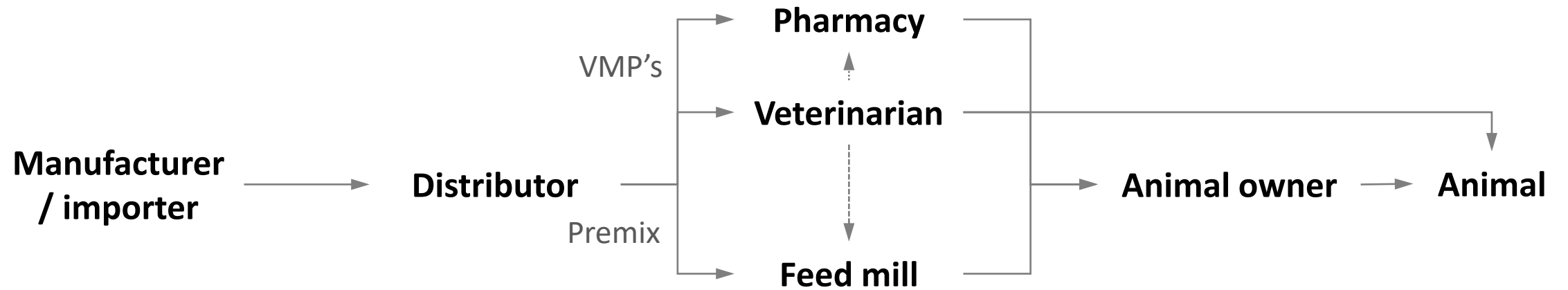


# The consumption of veterinary antibacterial products in Belgium in 2022 and its evolution since 2011

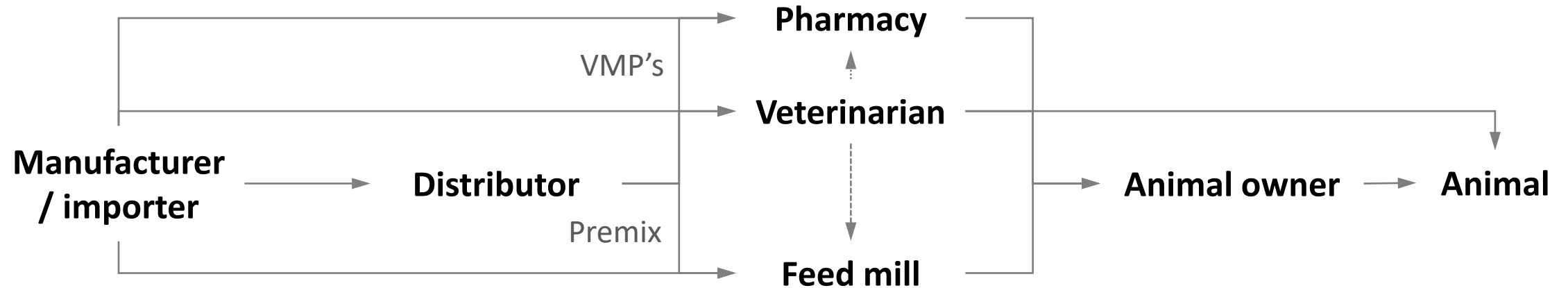
MARIES LISSENS

[maries.lissens@amcra.be](mailto:maries.lissens@amcra.be)

# COLLECTION AND REPORTING OF AMU IN ANIMALS IN BELGIUM



# COLLECTION AND REPORTING OF AMU IN ANIMALS IN BELGIUM

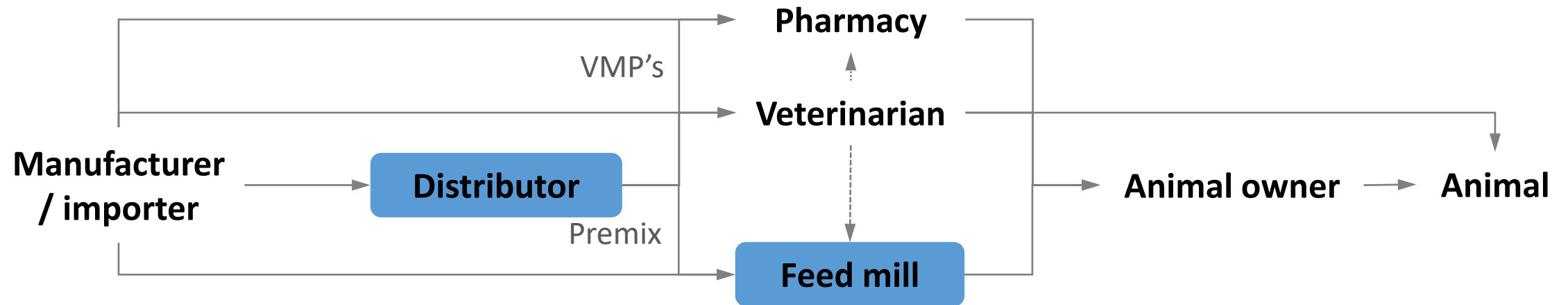


Sales data (via request)

National BelVet-SAC report + ESVAC report



# COLLECTION AND REPORTING OF AMU IN ANIMALS IN BELGIUM



Sales data (via request)

National BelVet-SAC report + ESVAC report

Use data (via national DC system Sanitel-Med)

BM reports for farmers/vets + National reports

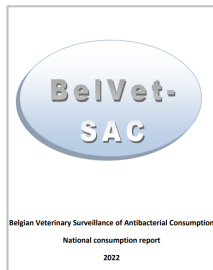


# COLLECTION AND REPORTING OF AMU IN ANIMALS IN BELGIUM

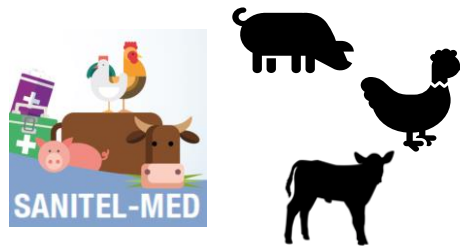
## GOVERNMENTAL DATA COLLECTION & REPORTING



1<sup>st</sup> report national  
sales data



AMU DC via  
governmental  
system obliged for



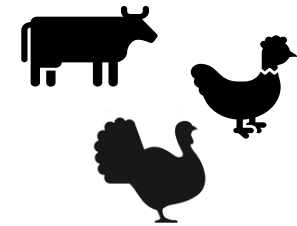
1<sup>st</sup> BM reports  
use data farmers



1<sup>st</sup> BM reports  
use data vets

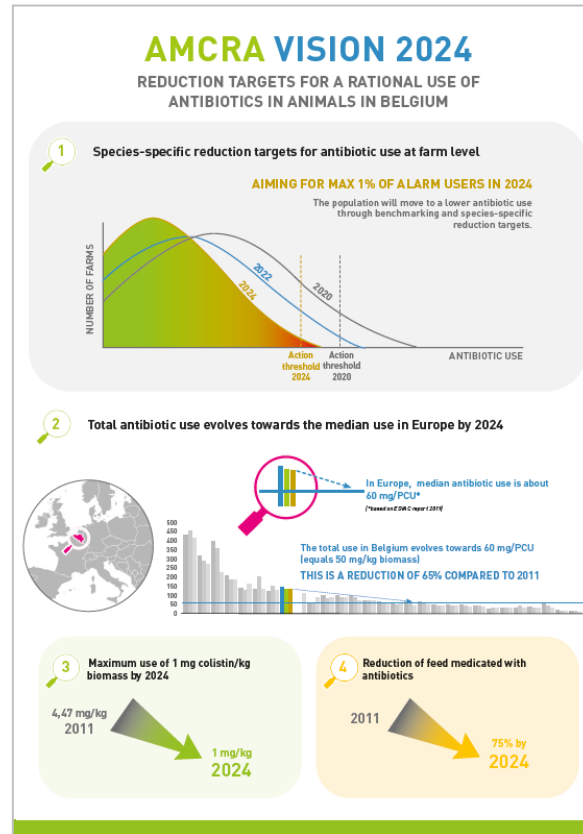


AMU DC via  
governmental  
system obliged for



# AMU POLICY IN BELGIUM: AMCRA vision 2024

## REDUCTION TARGETS FOR A RATIONAL USE OF ANTIBIOTICS IN ANIMALS IN BELGIUM

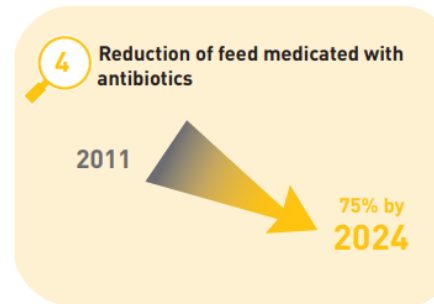
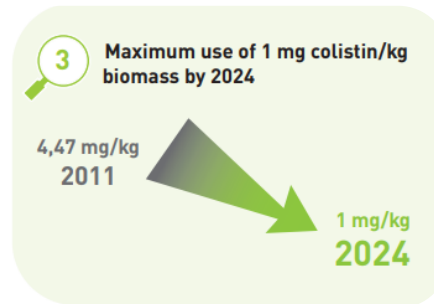
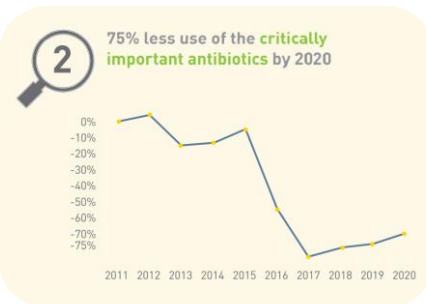
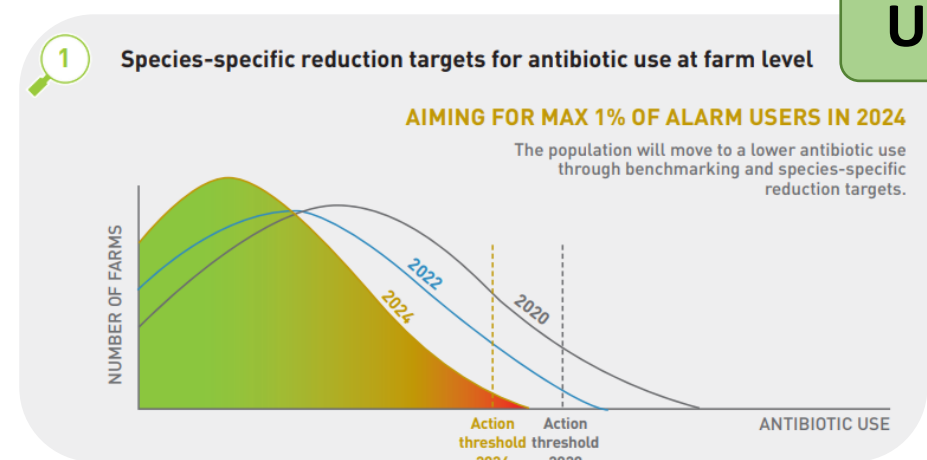
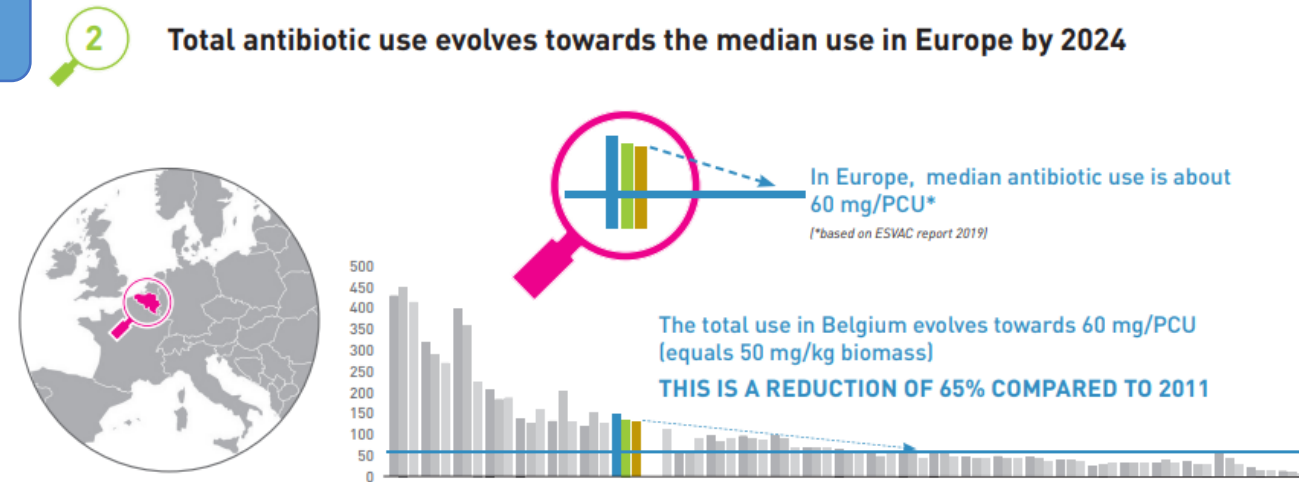


# AMU Policy in Belgium: AMCRA vision 2024

## REDUCTION TARGETS FOR A RATIONAL USE OF ANTIBIOTICS IN ANIMALS IN BELGIUM

### Sales

### Use



# AMU QUANTIFICATION: ANNUAL BELVET-SAC REPORT



## Sales data



- Since 2011
- Collected from distributors & compound feed manufacturers
- All animal species covered
- Mass-based indicator: mg/kg biomass





# AMU QUANTIFICATION: ANNUAL BELVET-SAC REPORT



## Sales data







- Since 2011
- Collected from distributors & compound feed manufacturers
- All animal species covered
- Mass-based indicator: mg/kg biomass

**General trends**  
**Limited species-specific info**  
**per AB class**



## Use data



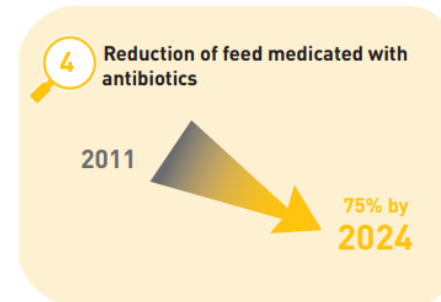
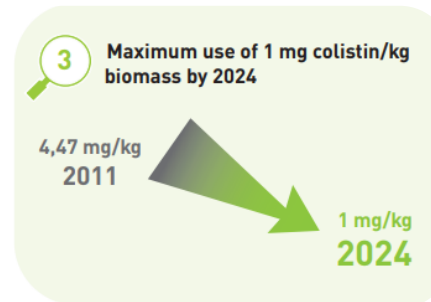
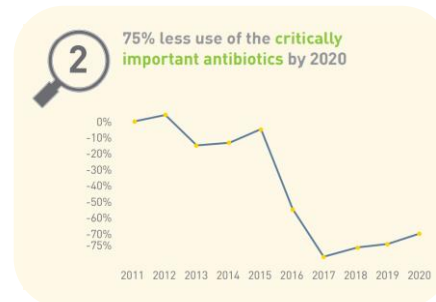
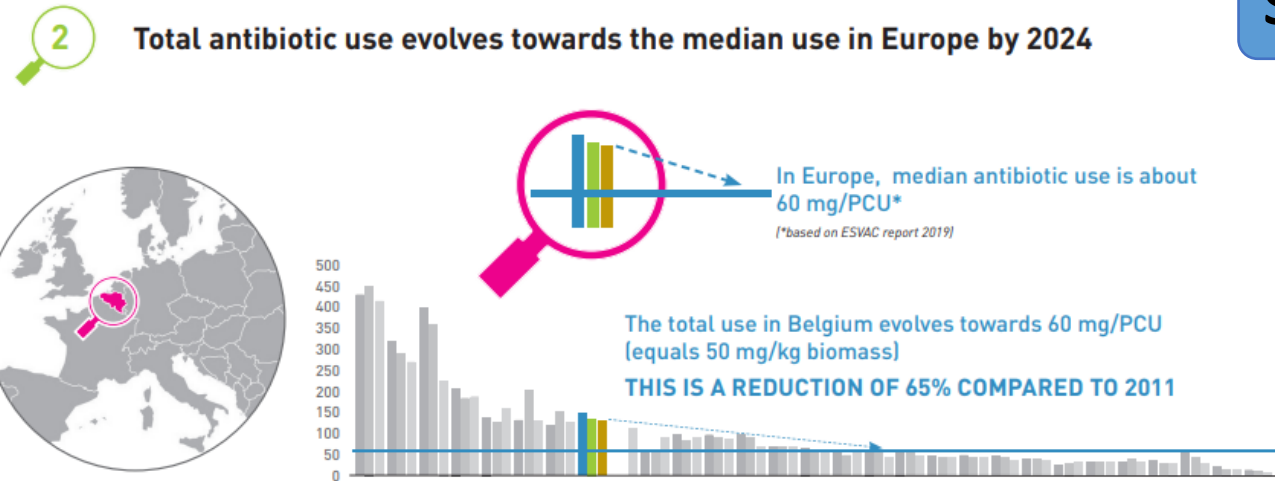
- Since 2018
- Collected at farm level 
- Until 2022:   
- Dose-based indicator: TD<sub>100</sub>

**Detailed trends**  
**per species / animal category**  
**per AB class**

# REDUCTION TARGETS FOR TOTAL AB USE

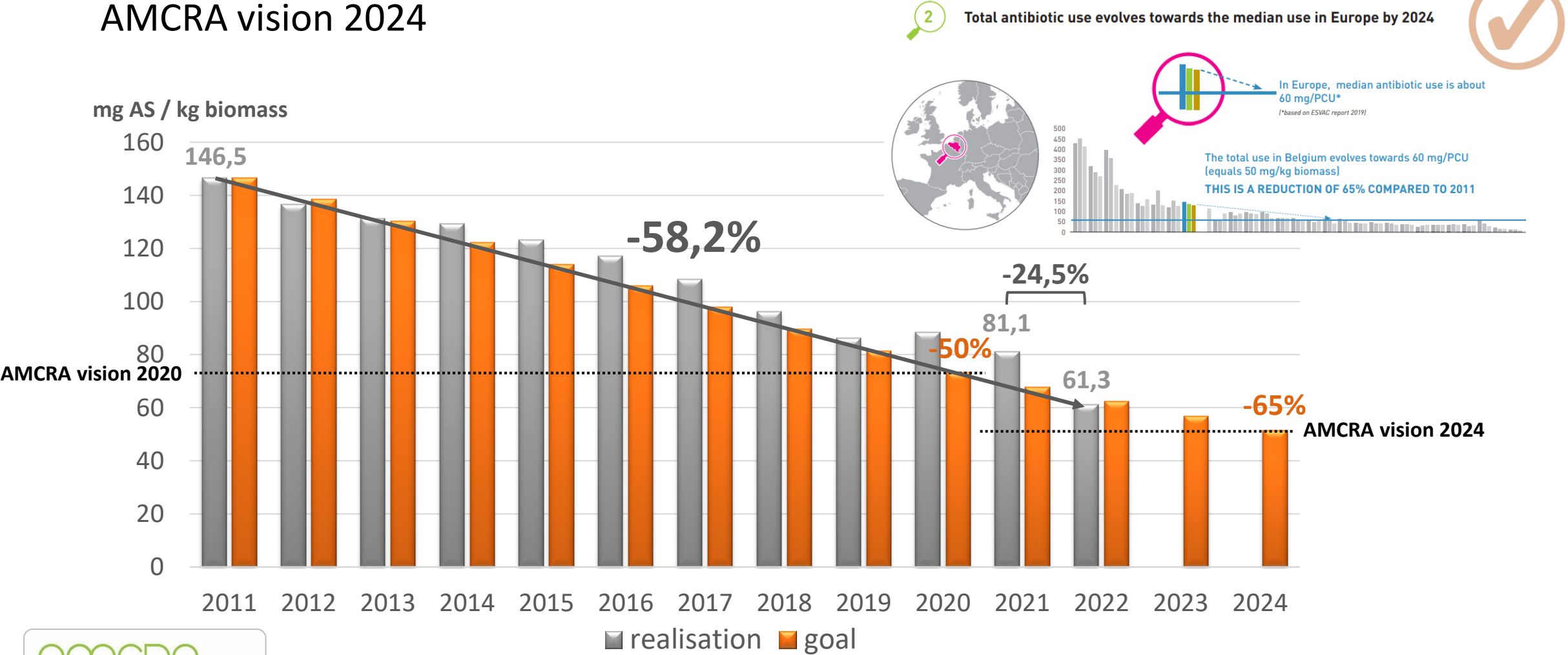
## AMCRA vision 2024

Sales data



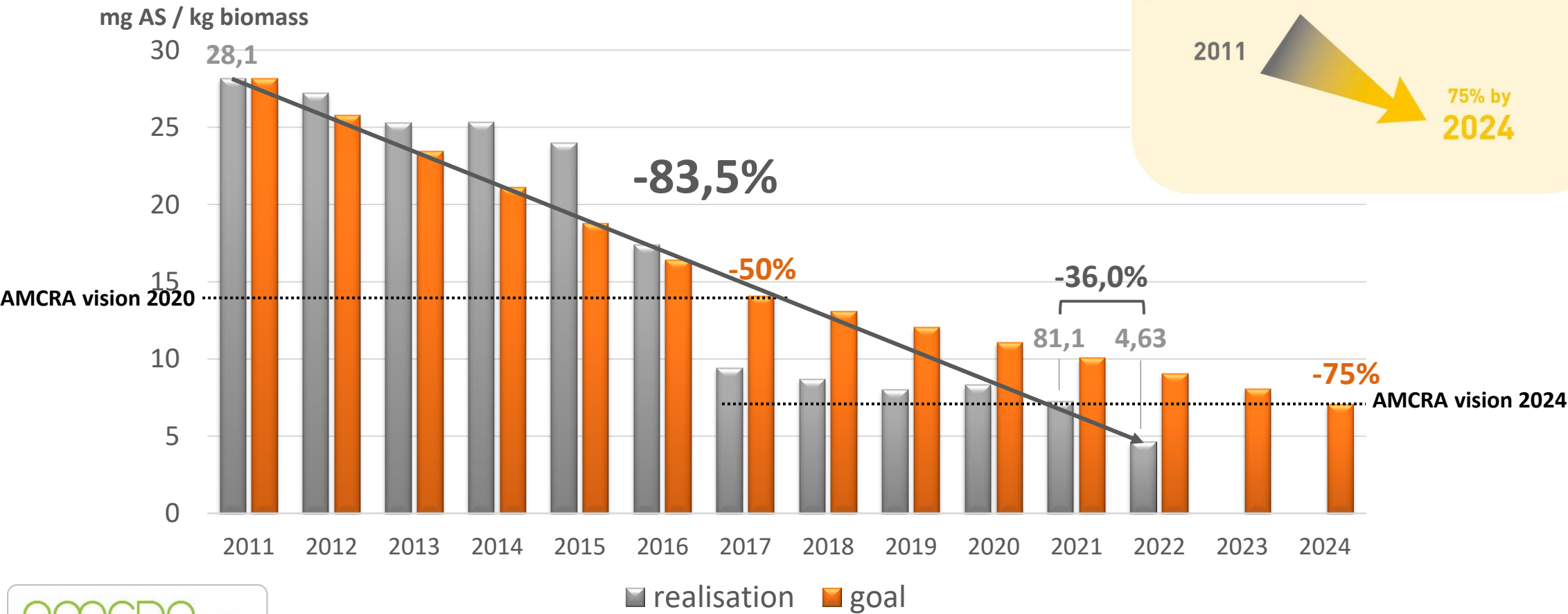
# STANDARDIZED TOTAL SALES OF AS PER KG BIOMASS

## AMCRA vision 2024



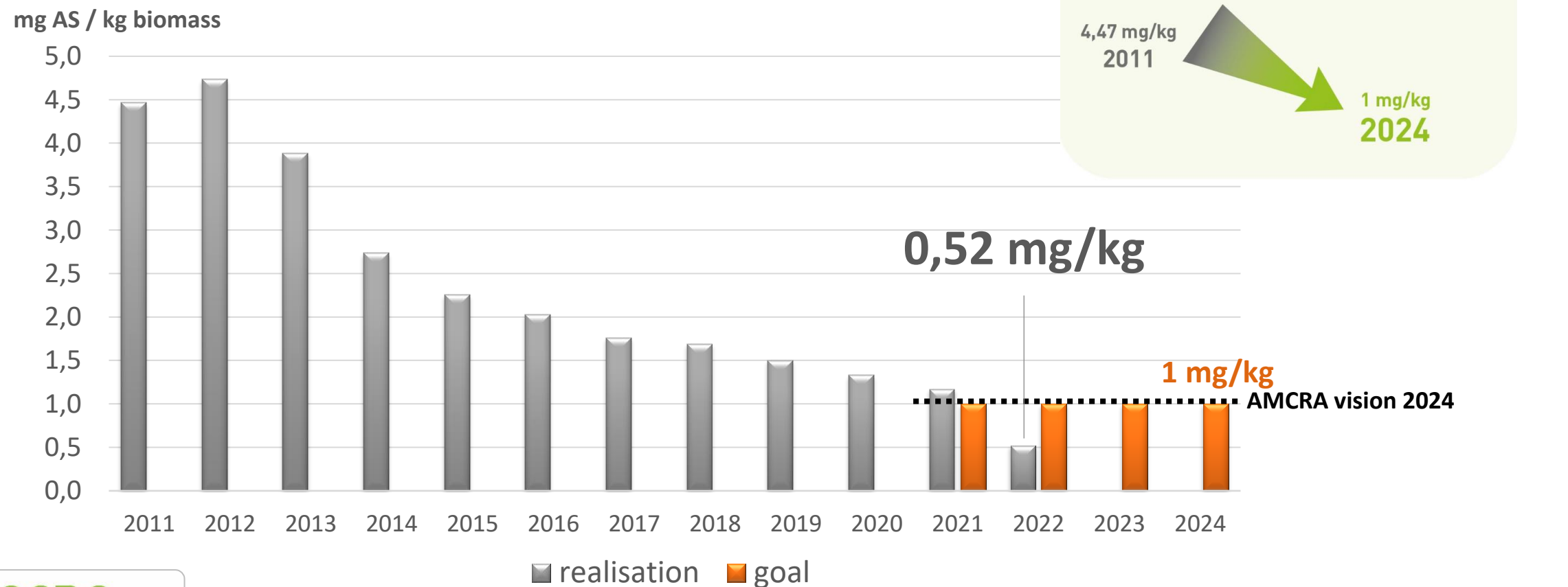
# STANDARDIZED **PREMIX** SALES OF AS PER KG BIOMASS

## AMCRA vision 2024



# STANDARDIZED COLISTIN SALES OF AS PER KG BIOMASS

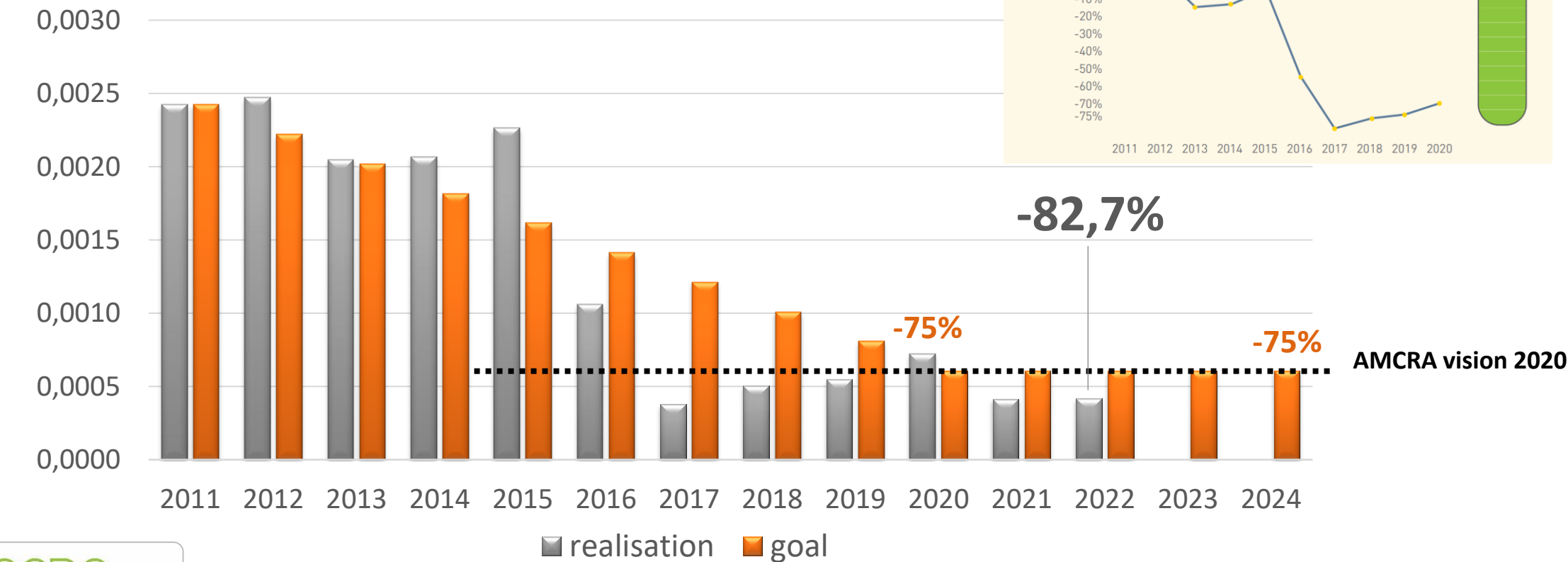
AMCRA vision 2024



# STANDARDIZED CRITICAL AB SALES PER KG BIOMASS

## AMCRA vision 2020

mg AS / kg biomass



# SPECIES-SPECIFIC REDUCTION TARGETS FOR AB USE

AMCRA vision 2024

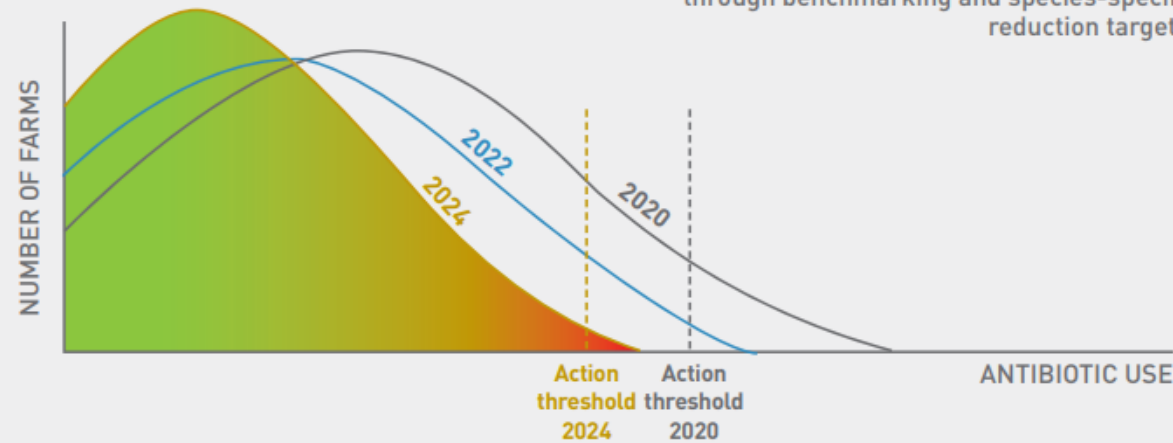
Use data



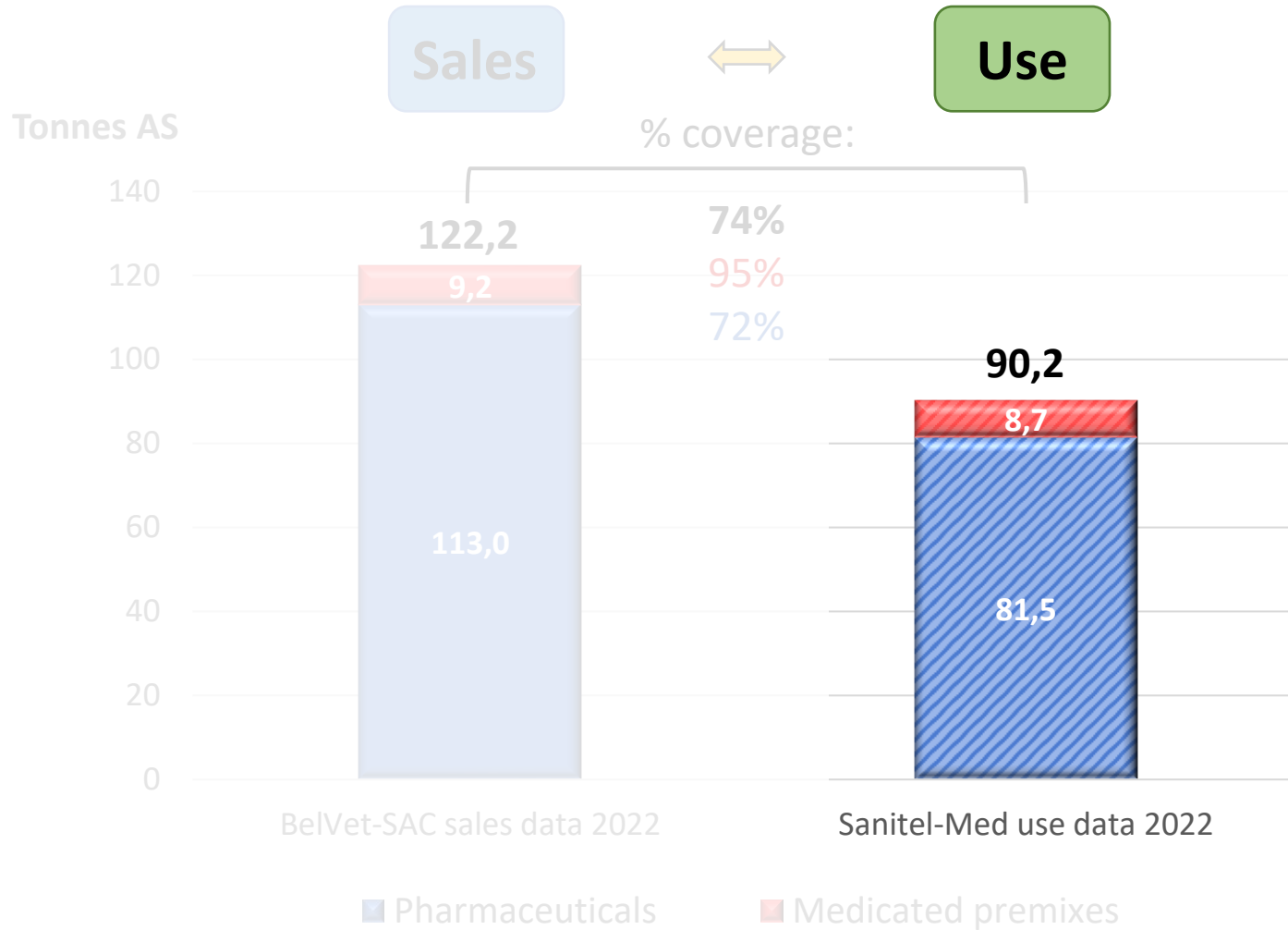
Species-specific reduction targets for antibiotic use at farm level

**AIMING FOR MAX 1% OF ALARM USERS IN 2024**

The population will move to a lower antibiotic use through benchmarking and species-specific reduction targets.

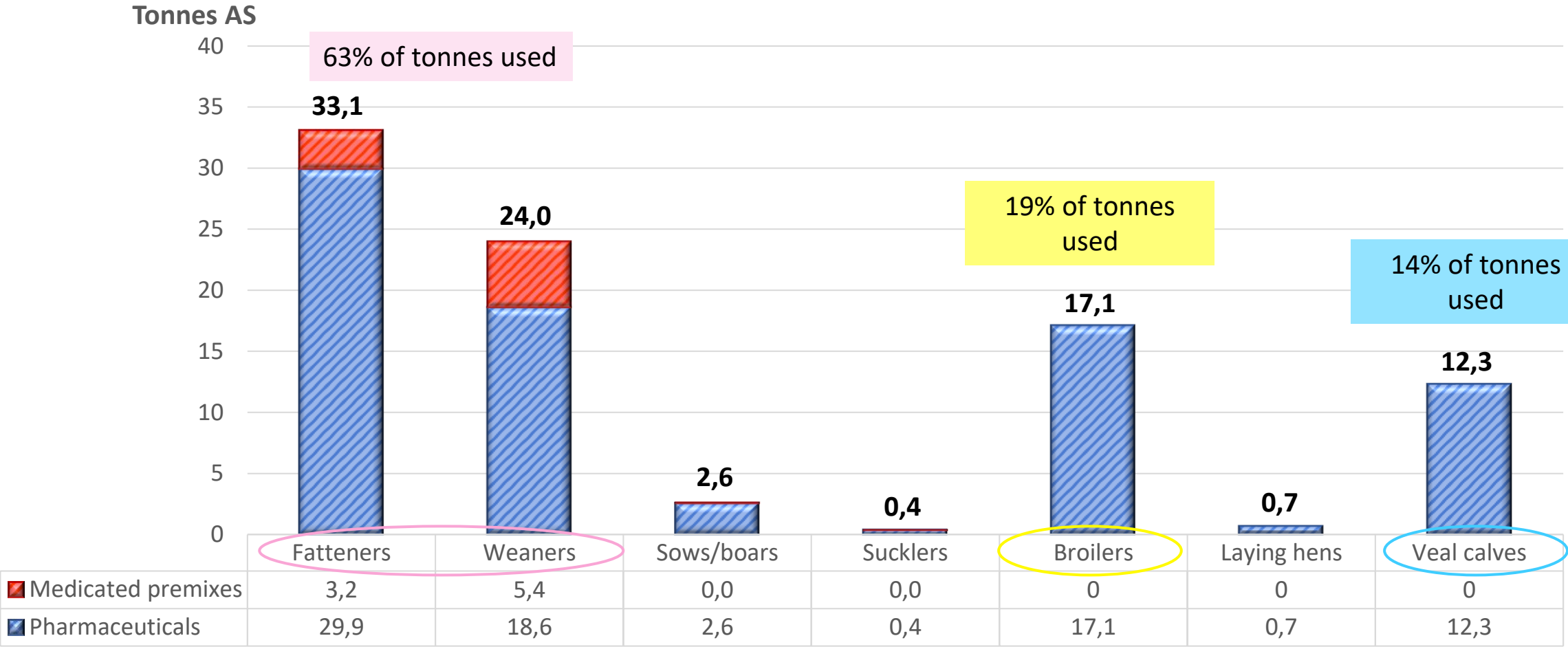


# TOTAL SALES OF AS VS SANITEL-MED USE DATA





# TOTAL USE OF AS PER ANIMAL CATEGORY IN SANITEL-MED



# STANDARDIZED DOSE-BASED AB USE INDICATOR: $BD_{100}$ PER SPECIES

$BD_{100} = TD_{100}$  (Treatment Days per 100 days)

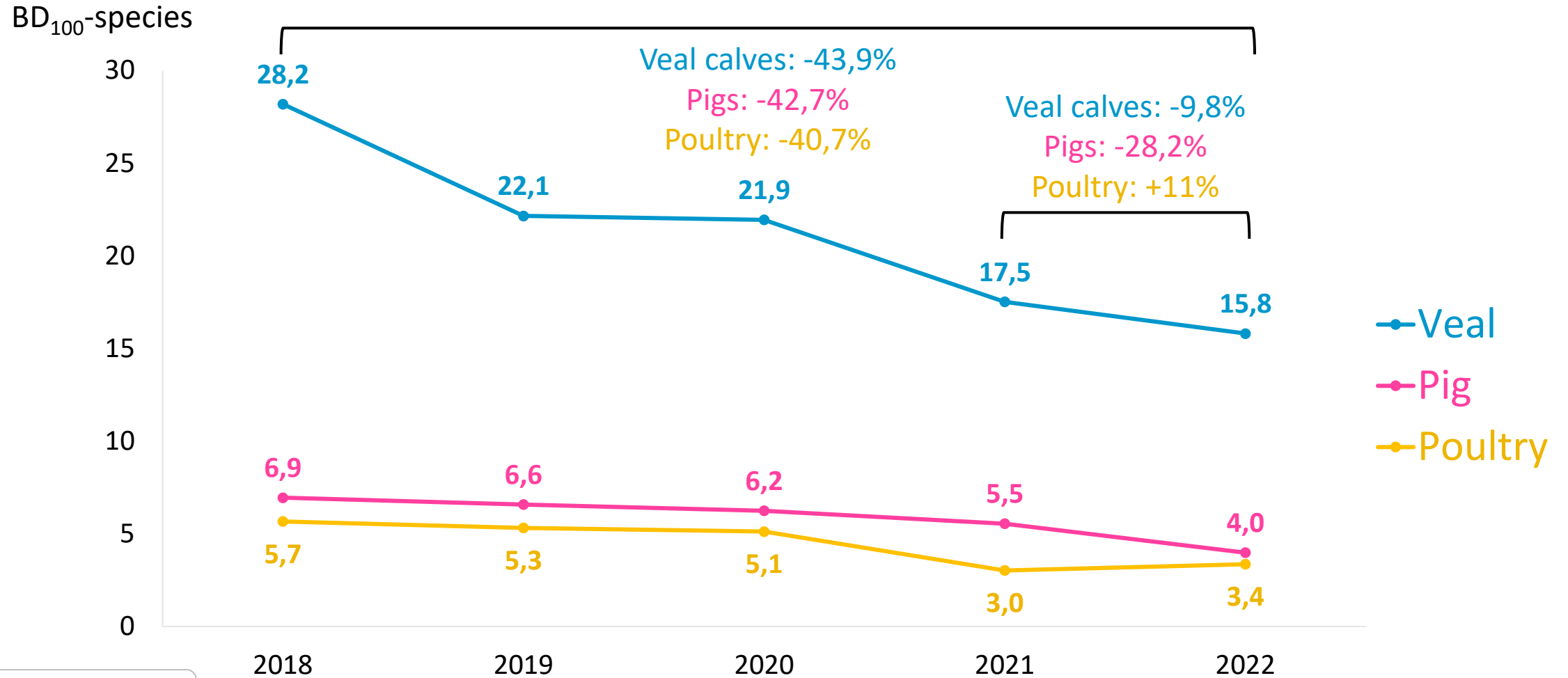
$$TD_{100} = \frac{\text{mg antibiotic}}{DDDA_{\text{bel}} \times \text{kg animals 'at risk'} \times \text{days 'at risk'}} \times LA_{\text{bel}} \times 100$$

365 days

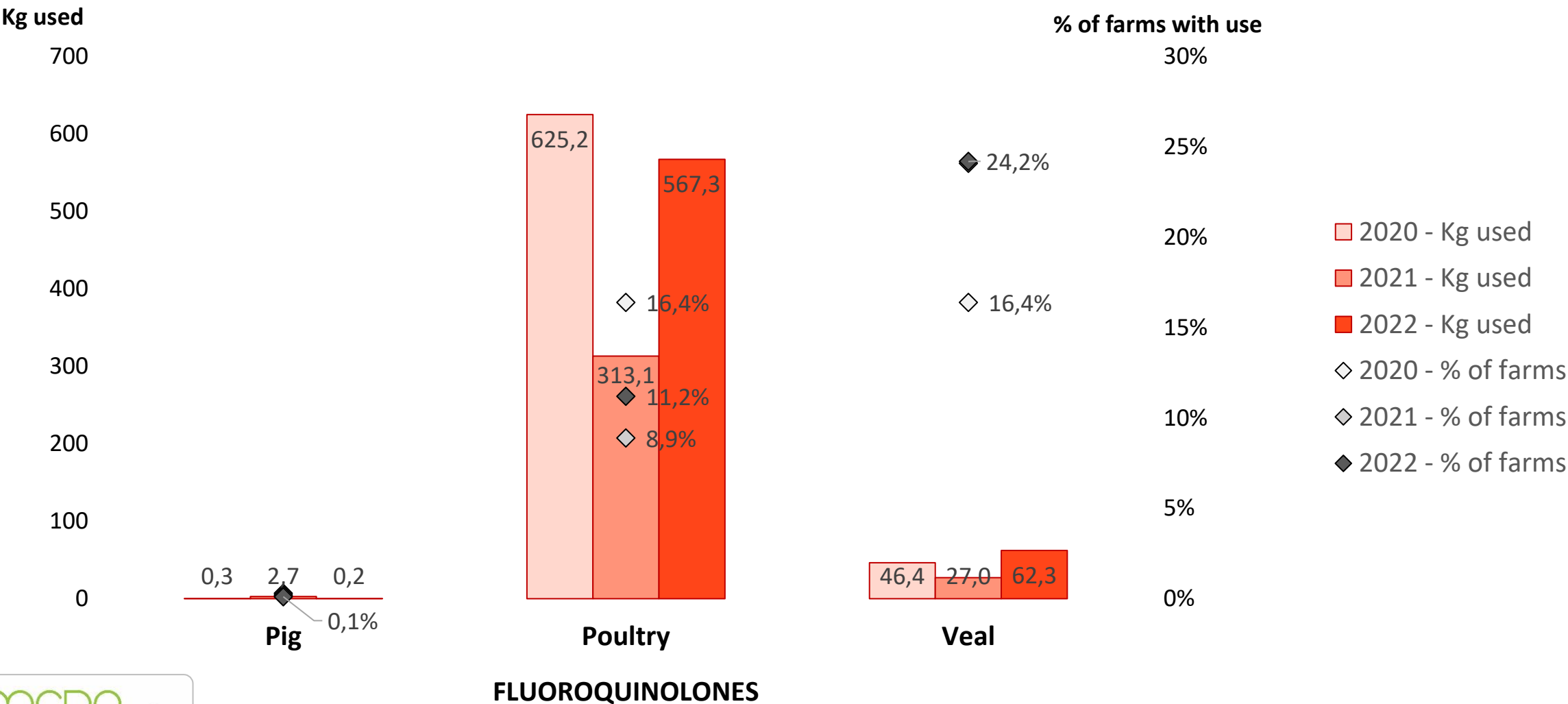
Table 8. Number and kg animals at risk from 2018 till 2022 in pigs, poultry and veal calves.

	Animals at risk (x 10 <sup>3</sup> )					Kg at risk (x 10 <sup>3</sup> )				
	2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
PIGS	6 209	6 085	6 218	6 039	5 751	318 869	311 901	316 048	305 965	289 561
POULTRY	43 624	44 902	49 016	48 919	48 754	54 921	55 860	60 838	60 892	60 474
VEAL CALVES	170	171	171	173	168	13 629	13 717	13 718	13 856	13 452

# AB USE PER SPECIES: BD<sub>100</sub>-SPECIES



# CRITICAL AB USE PER SPECIES IN SANITEL-MED



# SPECIES-SPECIFIC REDUCTION TARGETS FOR **AB** USE AT FARM LEVEL

AMCRA vision 2024

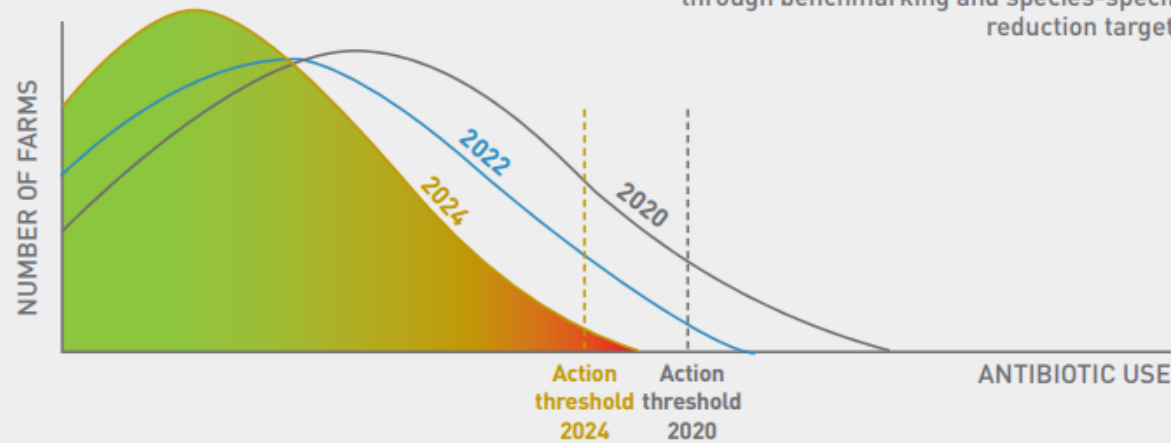
Use data



## Species-specific reduction targets for antibiotic use at farm level

### AIMING FOR MAX 1% OF ALARM USERS IN 2024

The population will move to a lower antibiotic use through benchmarking and species-specific reduction targets.



# SPECIES-SPECIFIC REDUCTION TARGETS 2021-2024

## Nursery piglets

	Alert value	Action value
01/01/2021	2	10
01/01/2023	2	6
<b>01/01/2024</b>	<b>2</b>	<b>5</b>

## Weaning piglets

	Alert value	Action value
01/01/2021	14	50
01/01/2023	14	40
<b>31/12/2024</b>	<b>14</b>	<b>30</b>

## Broiler chickens

	Alert value	Action value
01/01/2021	6	14
01/01/2023	5	12
<b>31/12/2024</b>	<b>5</b>	<b>10</b>

## Fattening pigs

	Alert value	Action value
01/01/2021	2,7	9
01/01/2023	2,7	6
<b>01/01/2024</b>	<b>2,7</b>	<b>6</b>

## Sows

	Alert value	Action value
01/01/2021	0,28	1,65
01/01/2023	0,28	1,65
<b>01/01/2024</b>	<b>0,28</b>	<b>1,65</b>

## Veal calves

	Alert value	Action value
01/01/2021	10	15
01/01/2023	8	11
<b>31/12/2024</b>	<b>6</b>	<b>9</b>

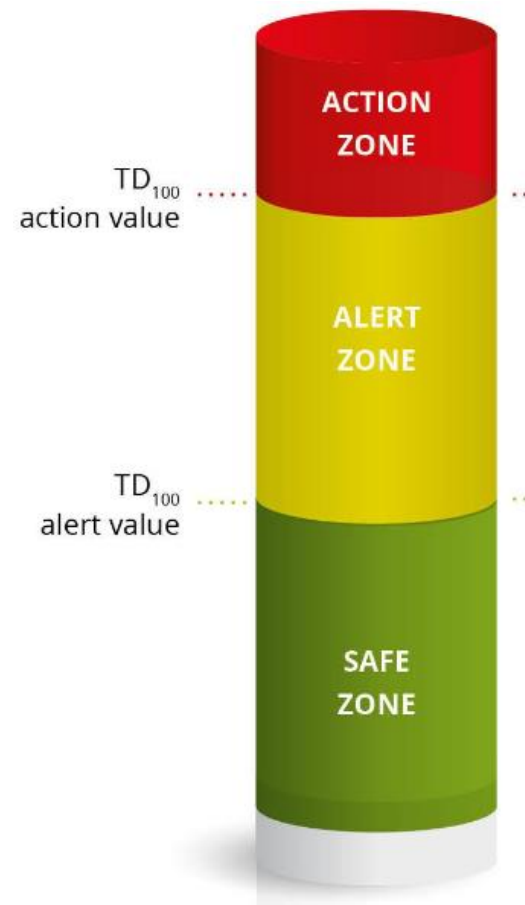
## AB USE AT FARM LEVEL: $BD_{100}$ PER FARM & ANIMAL CATEGORY

$BD_{100} = TD_{100}$  (Treatment Days per 100 days)

$$TD_{100} = \frac{\text{mg antibiotic}}{DDDA_{\text{bel}} \times \text{kg animals 'at risk'} \times \text{days 'at risk'}} \times LA_{\text{bel}} \times 100$$

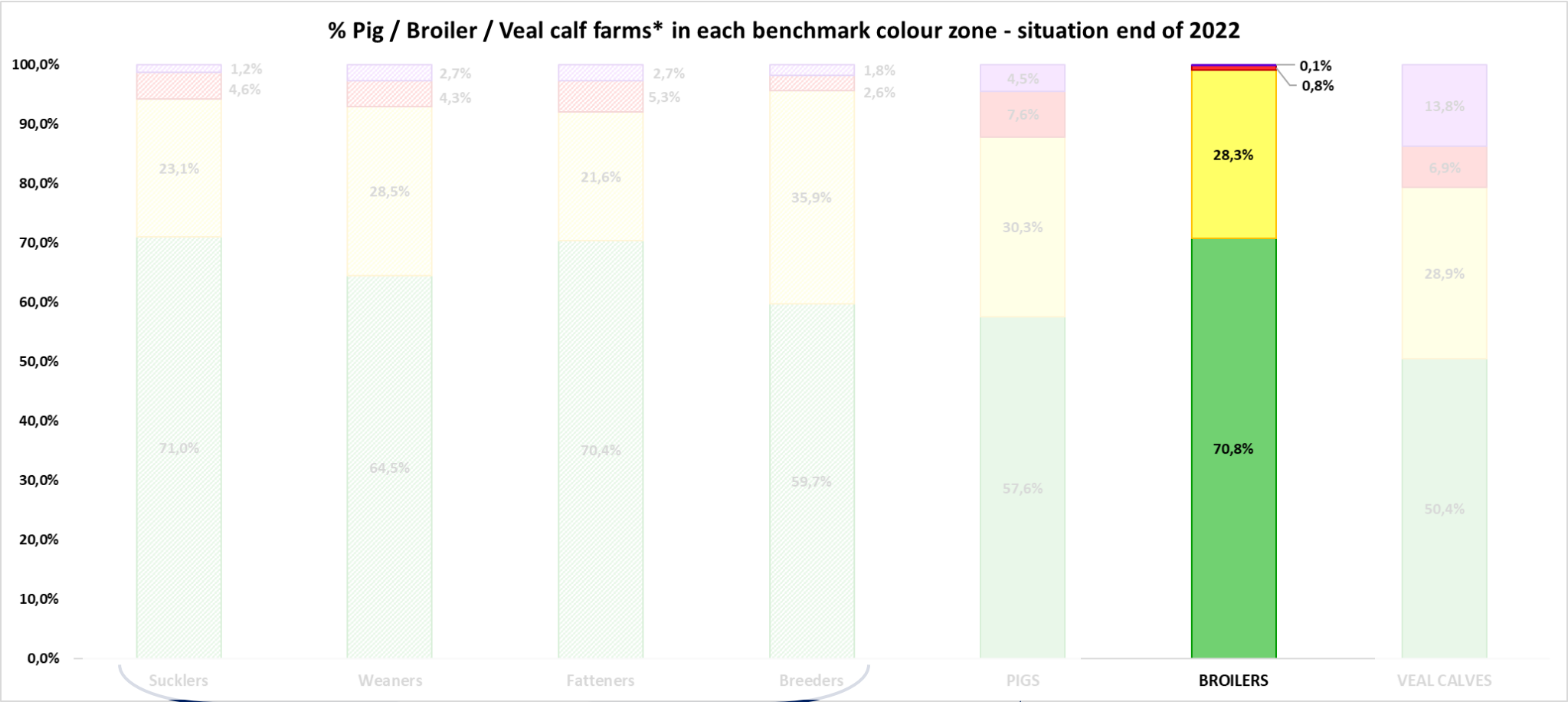
Farm-specific  
Animal category-specific

# AB USE AT FARM LEVEL: $BD_{100}$ PER FARM & ANIMAL CATEGORY





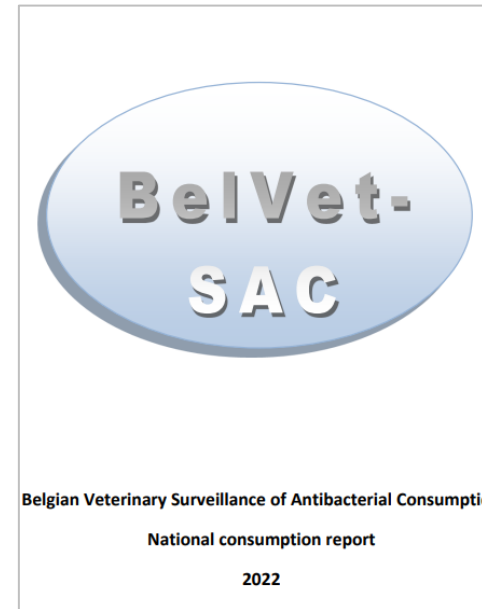
# AB USE AT FARM LEVEL: BD<sub>100</sub> PER FARM & ANIMAL CATEGORY



# CONCLUSIONS AMU IN BELGIUM IN 2022

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- Very good results obtained in 2022 due to combined efforts in all sectors
- The reduction targets for use of critically important antibiotics, colistin and medicated premixes were all maintained or achieved in 2022
- Challenges are still ahead to obtain targeted 50 mg / kg biomass use with a maximum of 1% alarm users in each sector by 2024

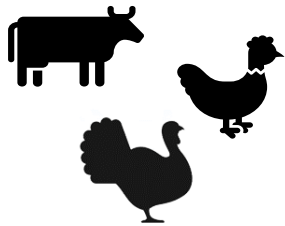


# FUTURE CHALLENGES FOR AMU IN BELGIUM

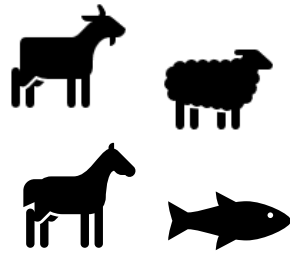
## GOVERNMENTAL DATA COLLECTION & REPORTING



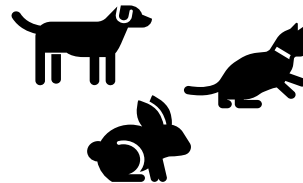
AMU DC via  
governmental  
system obliged for



AMU DC for all  
food-producing  
animals



AMU DC for all  
animals bred or  
kept

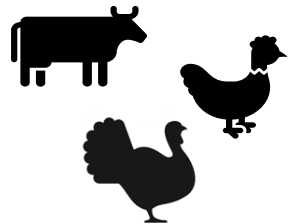


# FUTURE CHALLENGES FOR AMU IN BELGIUM

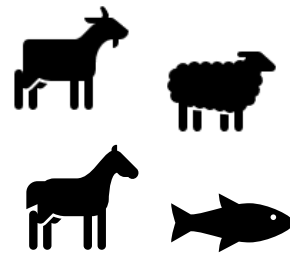
## GOVERNMENTAL DATA COLLECTION & REPORTING



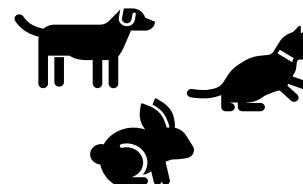
AMU DC via  
governmental  
system obliged for



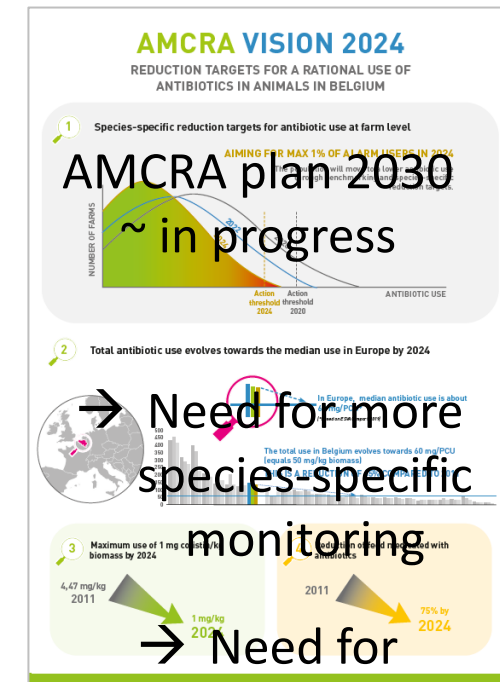
AMU DC for all  
food-producing  
animals



AMU DC for all  
animals bred or  
kept



## AMU POLICY



# BELGIAN OUTPUT/REPORTS ON AMU IN ANIMALS

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Barometer:  
follow-up AB-use  
4x a year  
per animal category

# BELGIAN OUTPUT/REPORTS ON AMU IN ANIMALS



Barometer:  
follow-up AB-use  
4x a year  
per animal category



BELMAP One health report:  
Since 2021, 1x per year  
AMU + AMR  
Human + animals + environment

# ACKNOWLEDGEMENTS



- AMCRA-colleagues
- Prof. Jeroen Dewulf,  
Drs. Reshat Jashari
- Dr. Antita Adriaens,  
Dr. Lies Van Nieuwenhove,  
Apr. Inge Vandenbulcke



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