



# Belgian Veterinary Surveillance of Antibacterial Consumption

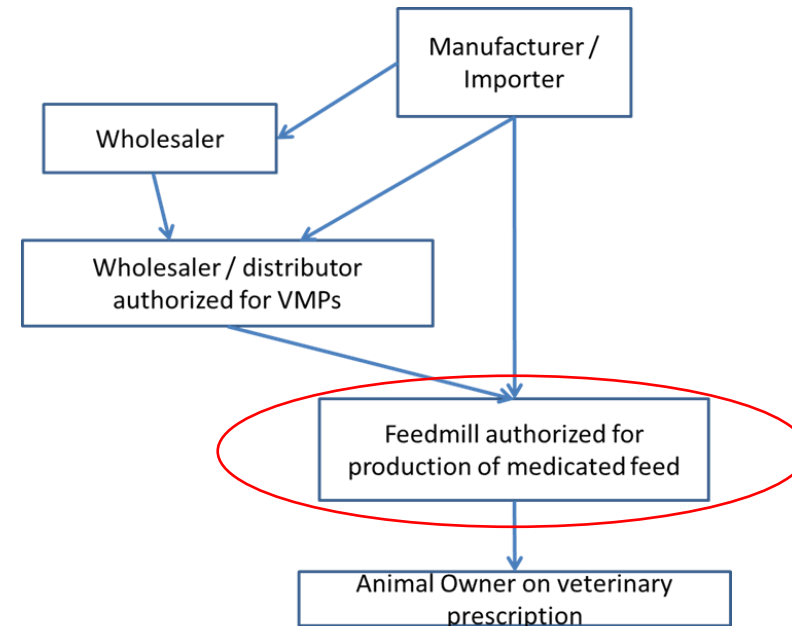
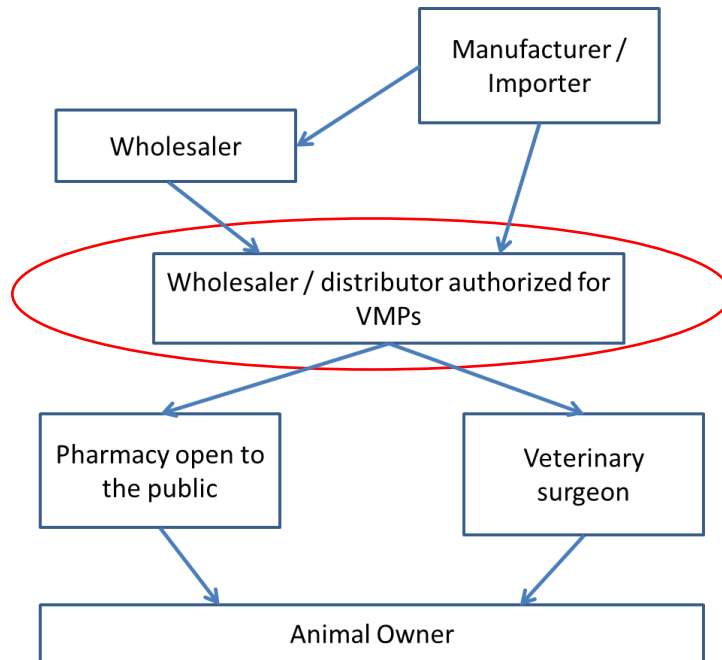
## National consumption report

2021

# Belgian Veterinary Surveillance of Antibacterial Consumption

## National consumption report

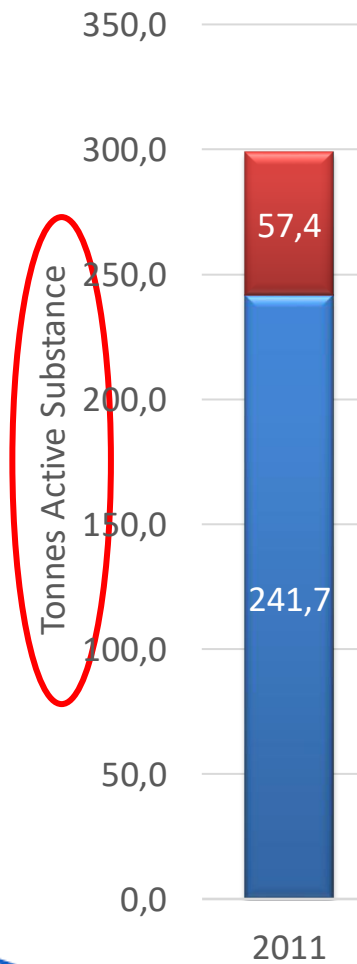
2021



# Biomassa geproduceerd tussen 2014 en 2021

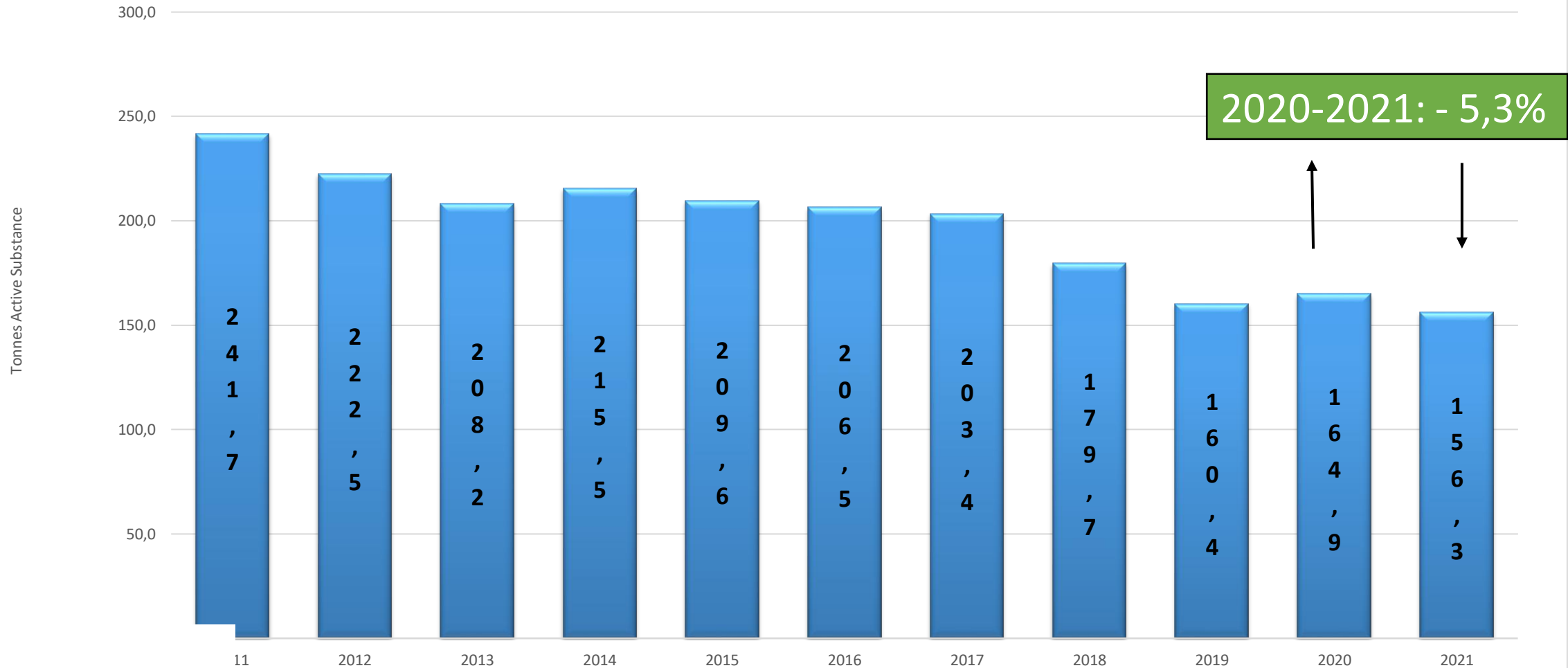
Animal biomass	2016	2017	2018	2019	2020	2021
<b>Meat (tonnes)</b>						
Pork	1 060 540	1 044 560	1 073 120	1 038 916	1 098 710	1 140 740
Beef	278 360	281 540	277 310	263 749	254 500	247 060
Poultry	461 250	463 390	469 590	447 786	448 970	455 120
Sheep/goat	3 020	3 230	3 090	3 010	2 830	3 050
<b>Total biomass from meat production</b>	<b>1 803 170</b>	<b>1 792 720</b>	<b>1 823 110</b>	<b>1 753 487</b>	<b>1 805 010</b>	<b>1 845 970</b>
<b>Dairy cattle</b>						
Dairy cattle (number)	529 780	519 160	529 250	537 960	541 090	537 250
Dairy cattle metabolic weight (tonnes)	264 890	259 580	264 625	268 980	270 545	268 625
<b>Total biomass (tonnes)</b>	<b>2 068 060</b>	<b>2 052 300</b>	<b>2 087 735</b>	<b>2 022 450</b>	<b>2 075 555</b>	<b>2 114 595</b>
<b>Evolution since previous year</b>	<b>-2,09%</b>	<b>-0,76%</b>	<b>+ 1,73%</b>	<b>-3,13%</b>	<b>+2,63%</b>	<b>+1,88%</b>

## Medicated Premixes & Pharmaceuticals

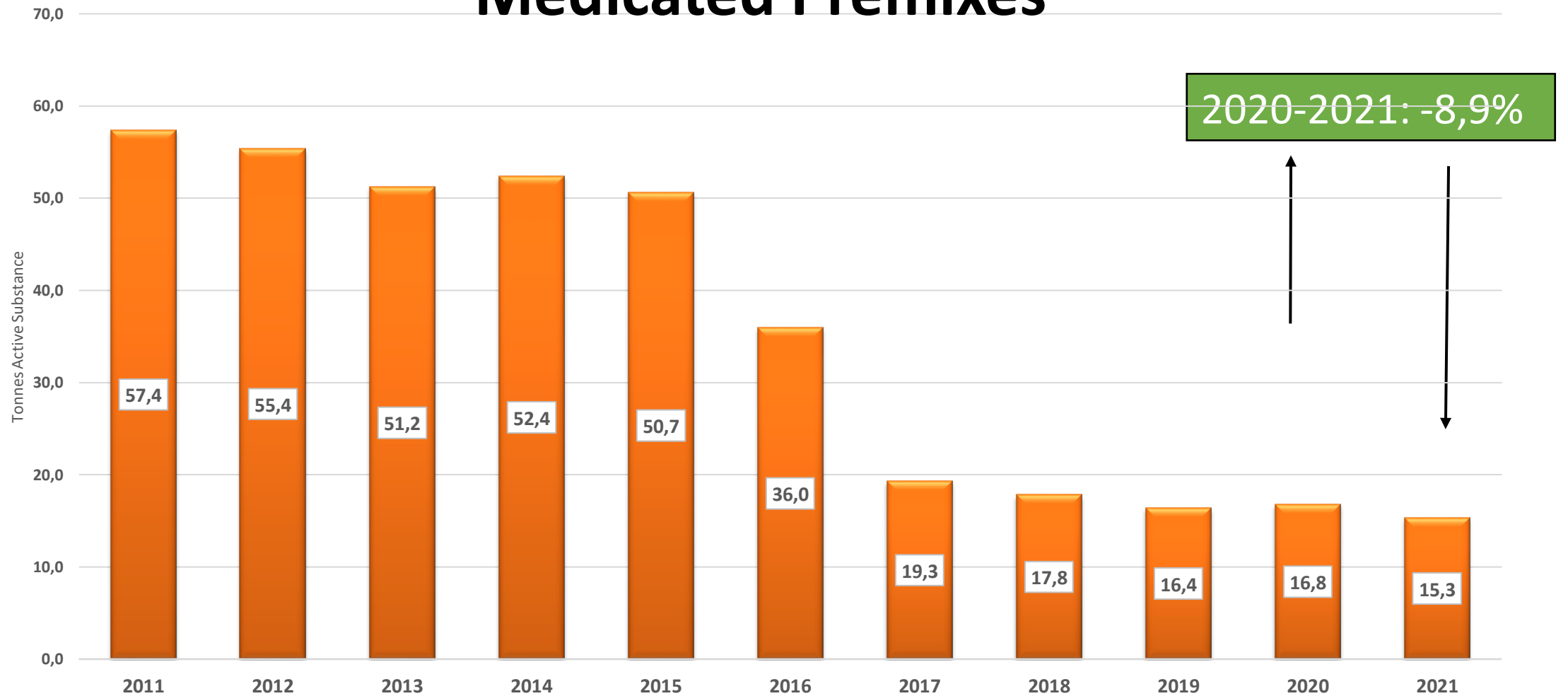


■ Pharmaceuticals ■ Medicated Premixes

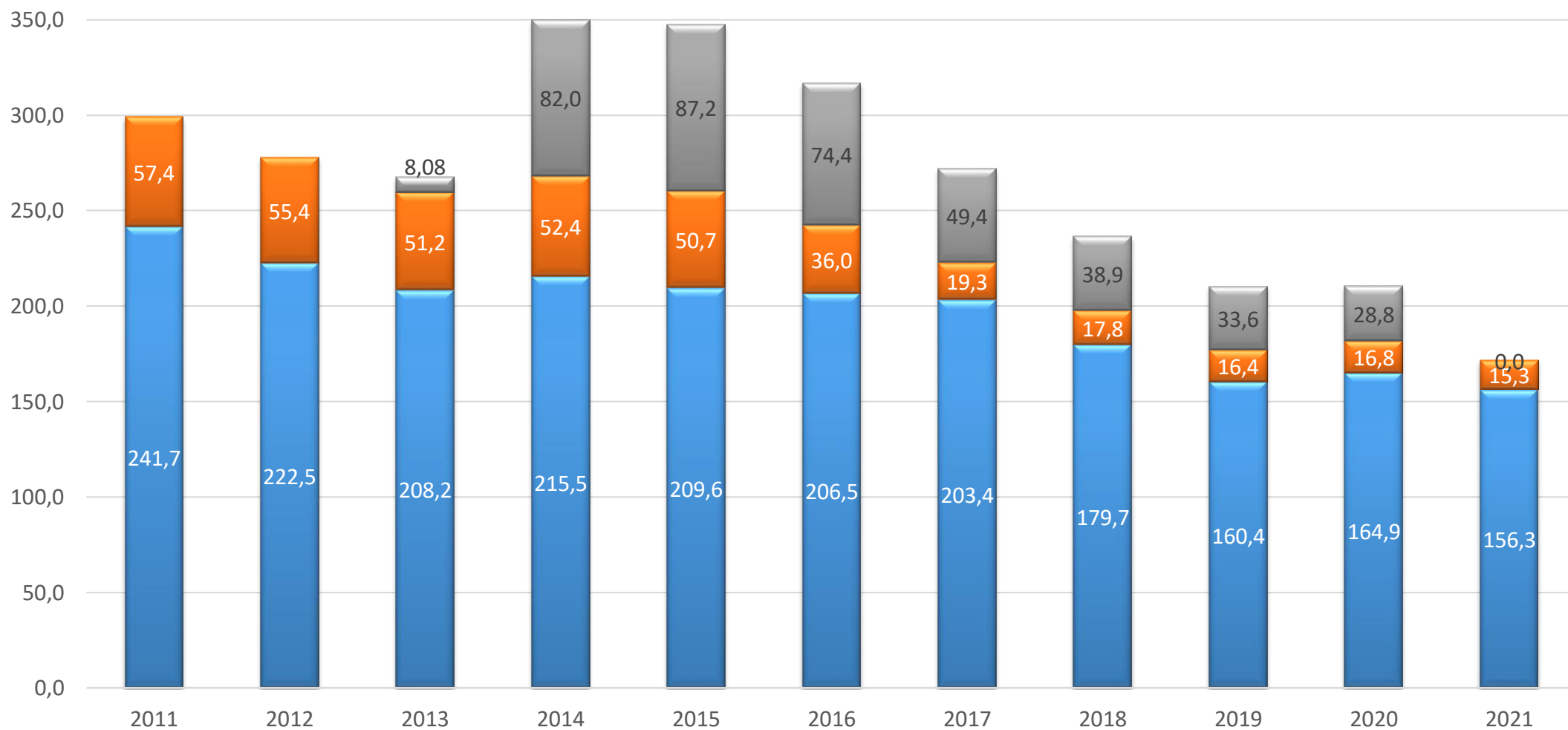
# Pharmaceuticals

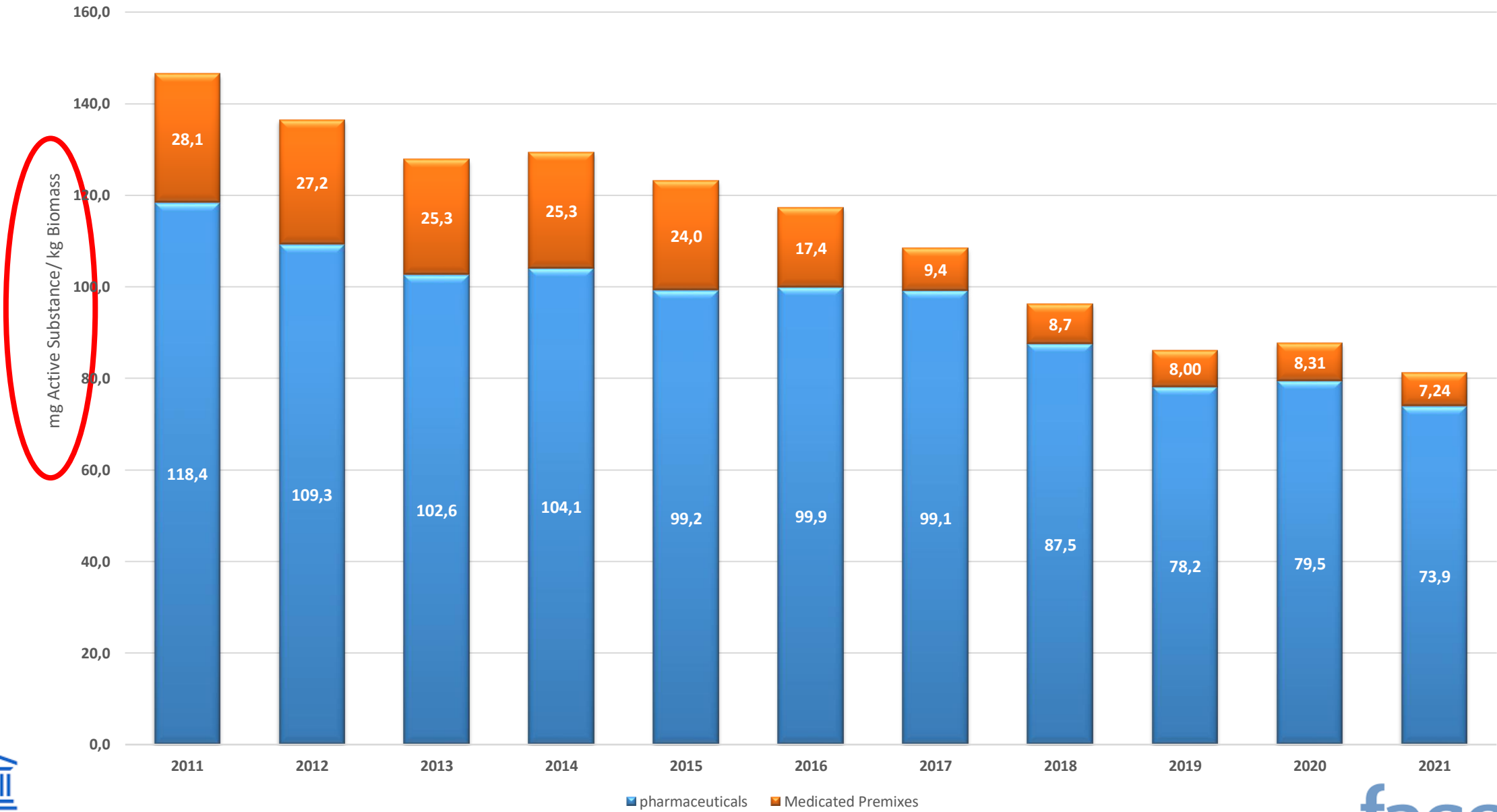


# Medicated Premixes



Tonnes Active Substance

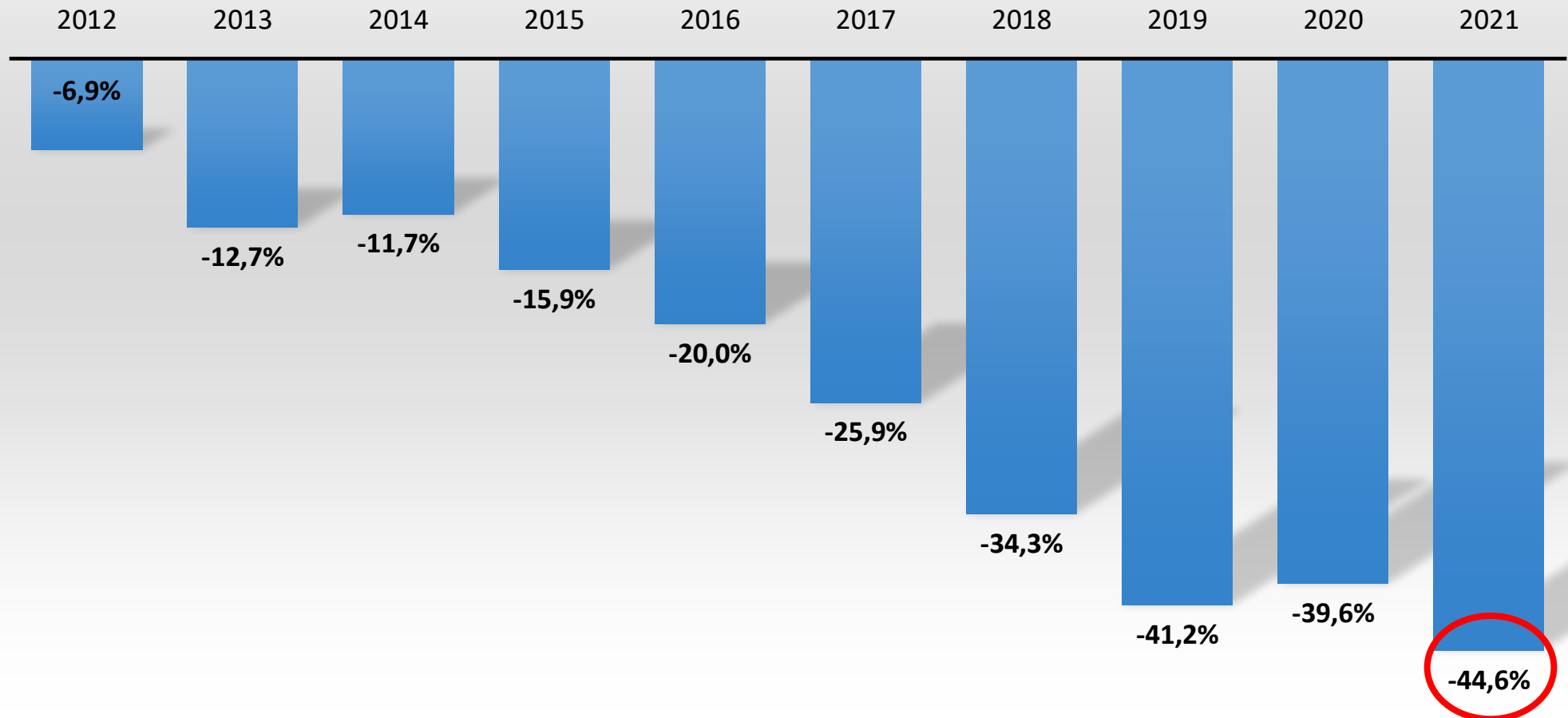




2020 -> 2021: -8,4%



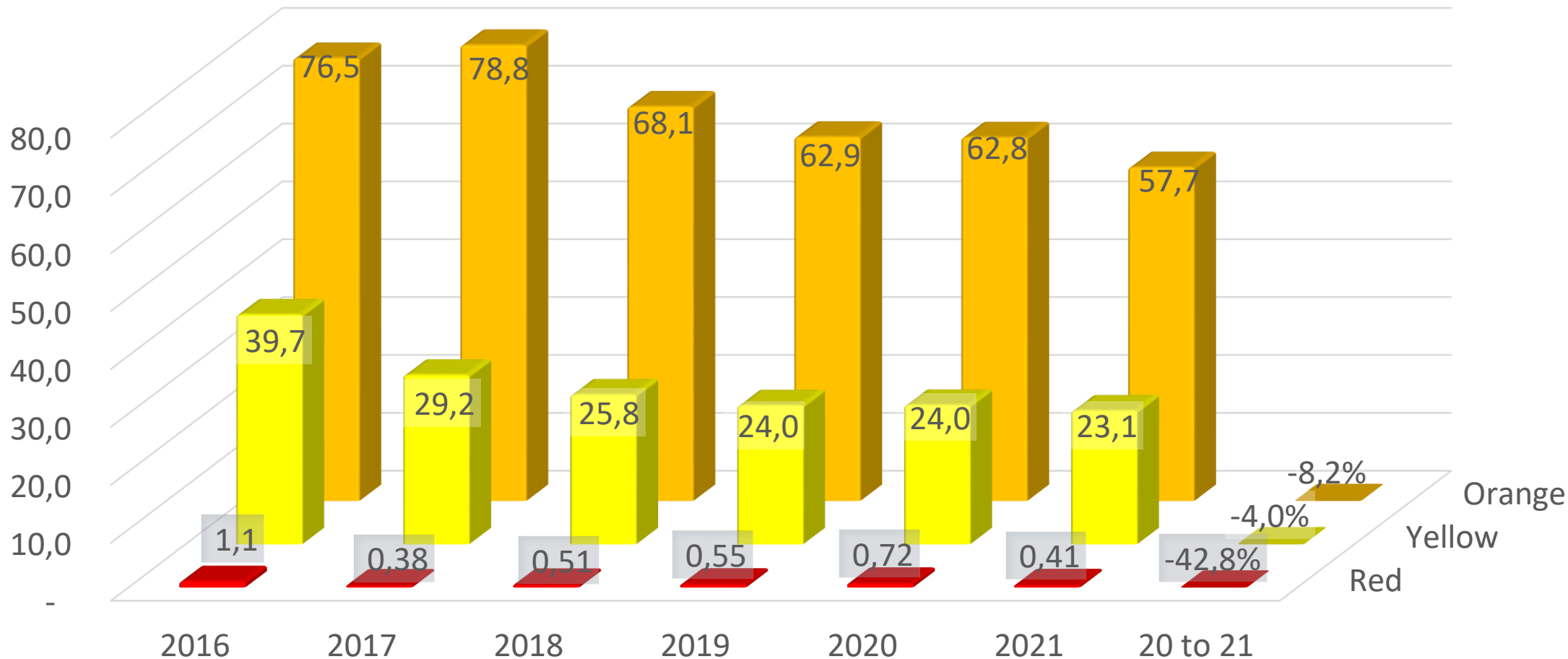
# Evolution of Antimicrobial consumption per biomass compared to 2011



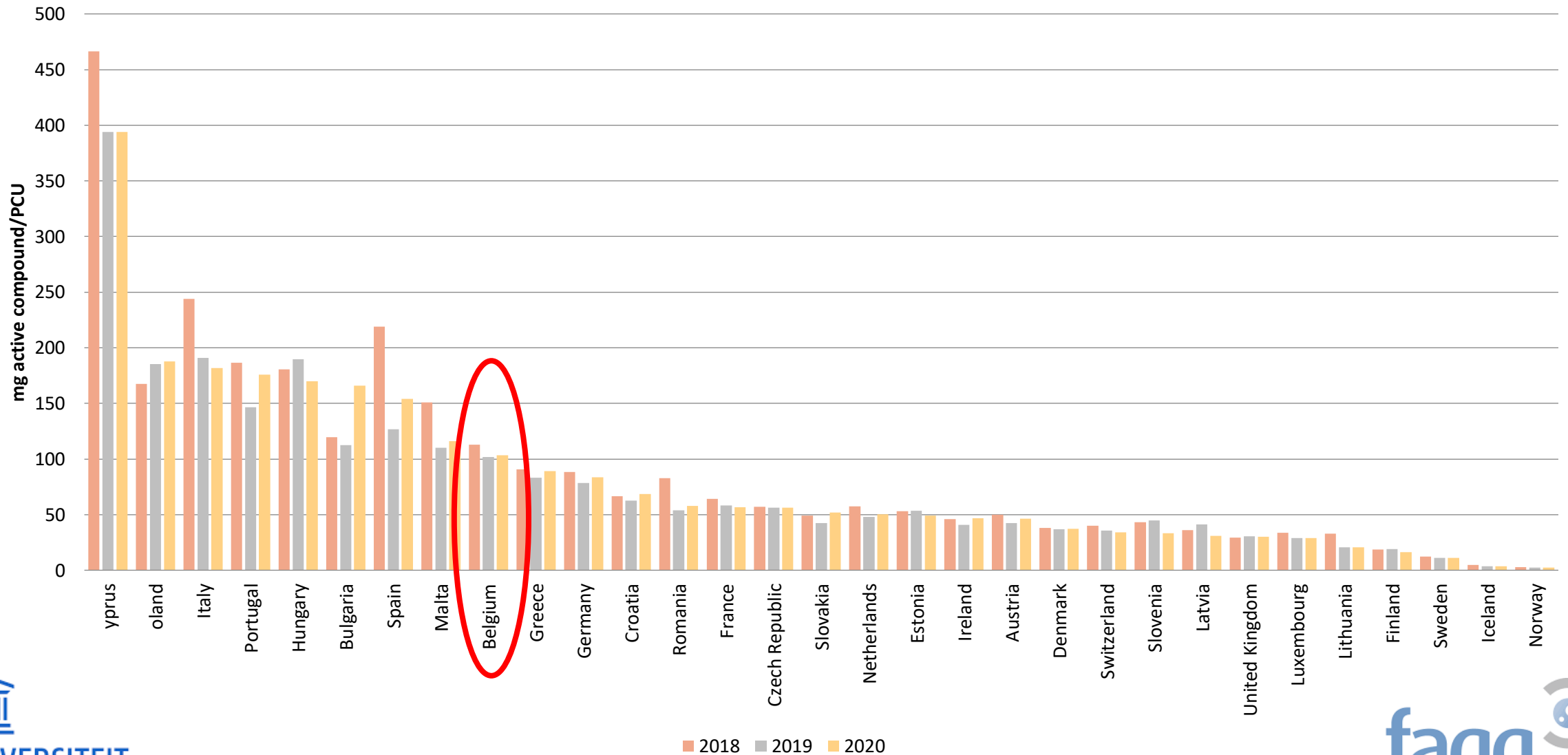
Class AB Mg/kg biomass	2016	2017	2018	2019	2020	2021	'16 » '17	'17 » '18	'18 » '19	'19 » '20	'20 » '21	2021%
Penicillins & clavulanic acid	42,03	40,96	35,78	34,63	35,37	31,59	-2,6%	-12,6%	-3,2%	2,1%	-10,7%	38,93
Sulphonamids & Trimethoprim	31,64	21,56	17,49	16,69	17,06	16,36	-31,8%	-18,9%	-4,5%	2,2%	-4,1%	20,16
Tetracyclines	24,16	27,66	23,96	18,35	17,26	15,83	14,4%	-13,3%	-23,4%	-5,9%	-8,3%	19,51
Macrolides	9,57	9,18	8,12	8,09	8,75	8,36	-4,0%	-11,5%	-0,4%	8,1%	-4,4%	10,31
Polymixins	2,03	1,76	1,69	1,50	1,33	1,17	-13,3%	-4,1%	-11,2%	-11,3%	-12,3%	1,44
Aminosides	4,48	4,49	3,93	4,71	4,41	4,65	0,3%	-12,6%	20,0%	-6,5%	5,5%	5,74
Quinolones	0,82	0,29	0,44	0,48	0,66	0,36	-64,2%	50,0%	10,0%	36,2%	-45,9%	0,44
Other**	0,55	0,50	1,05	0,82	0,47	0,37	-9,4%	109,5%	-21,4%	-42,7%	-22,1%	0,45
Phenicols	1,46	1,50	1,59	1,56	1,57	1,81	3,0%	6,1%	-1,8%	0,3%	15,4%	2,23
Cephalosporins 1° & 2° G	0,44	0,41	0,37	0,52	0,62	0,60	-6,7%	-7,8%	38,1%	19,8%	-3,9%	0,73
Cephalosporins 3° & 4° G	0,25	0,09	0,07	0,07	0,07	0,06	-65,9%	-19,2%	-2,6%	2,3%	-13,3%	0,07
<b>Total mg/kg biomass</b>	<b>117,43</b>	<b>108,40</b>	<b>94,50</b>	<b>87,43</b>	<b>88,56</b>	<b>81,15</b>	<b>-7,69%</b>	<b>-12,83%</b>	<b>-7,48%</b>	<b>1,29%</b>	<b>-8,37%</b>	<b>100</b>
<b>Total biomass (cfr. Grave et al., 2010)*</b>	<b>2.065.040</b>	<b>2.052.300</b>	<b>2.087.735</b>	<b>2.022.450</b>	<b>2.075.555</b>	<b>2.114.595</b>	<b>-0,62%</b>	<b>1,73%</b>	<b>-3,13%</b>	<b>2,63%</b>	<b>1,88%</b>	

Polymixines 2012 -> 2021: -75,4%

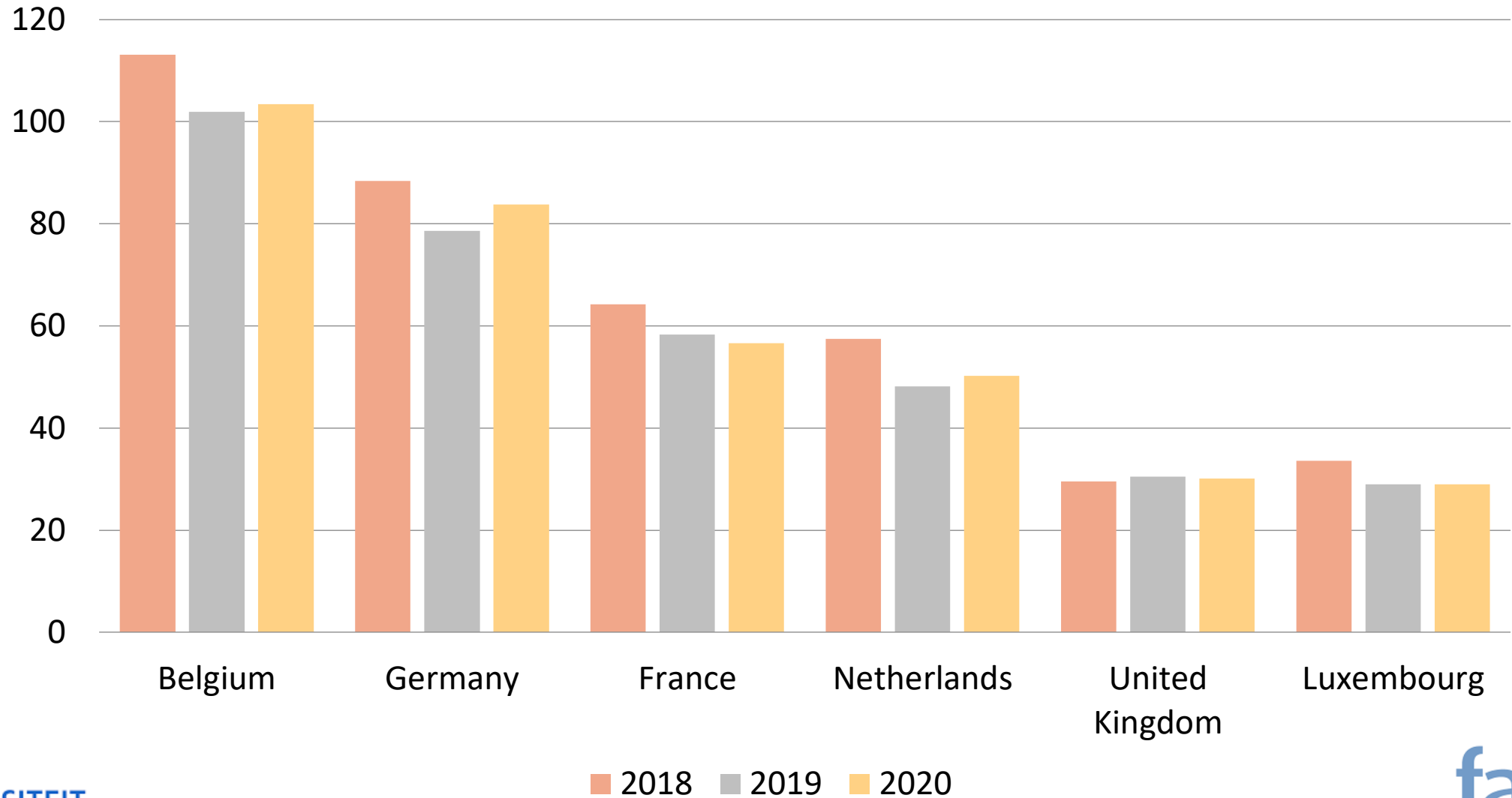
## Antimicrobial pharmaceuticals and medicated premixes (mg/kg biomass)



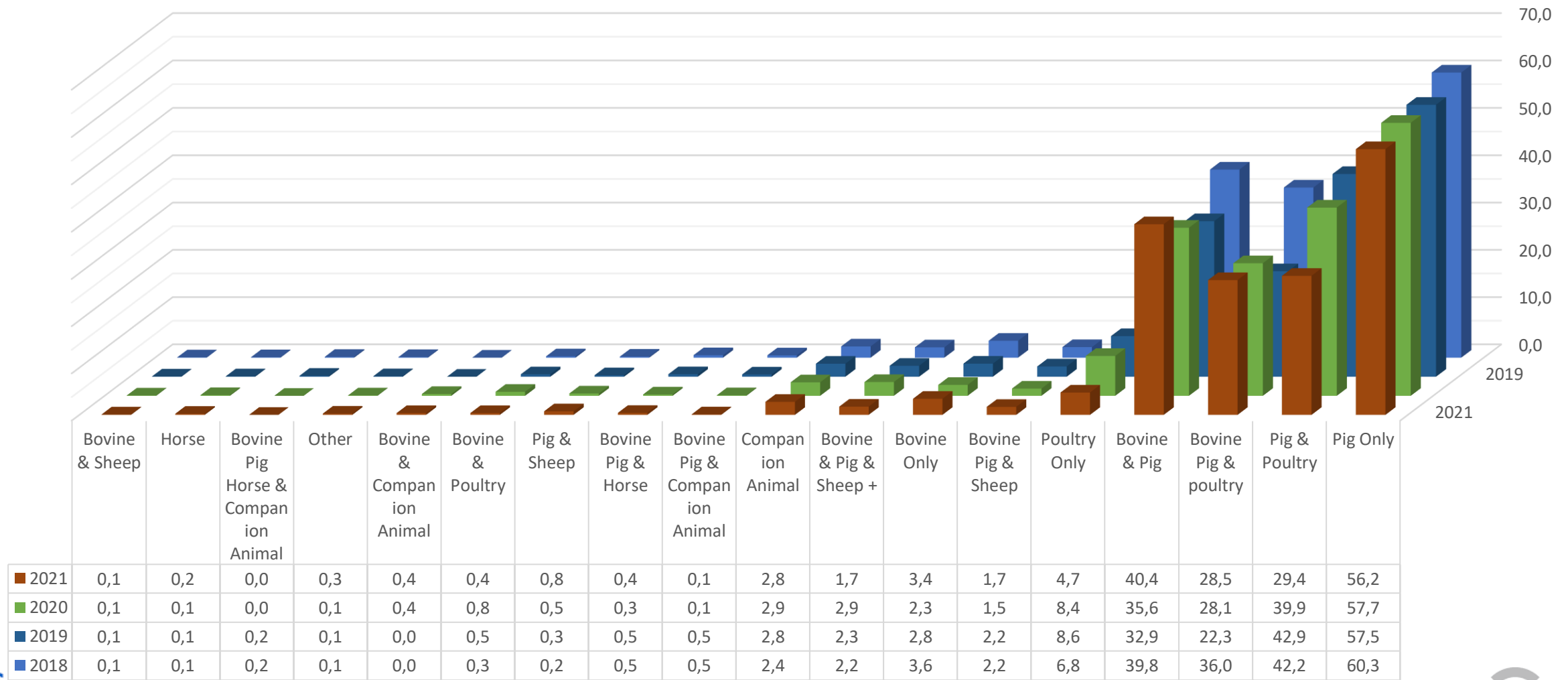
# Antimicrobial use in mg/PCU (ESVAC)



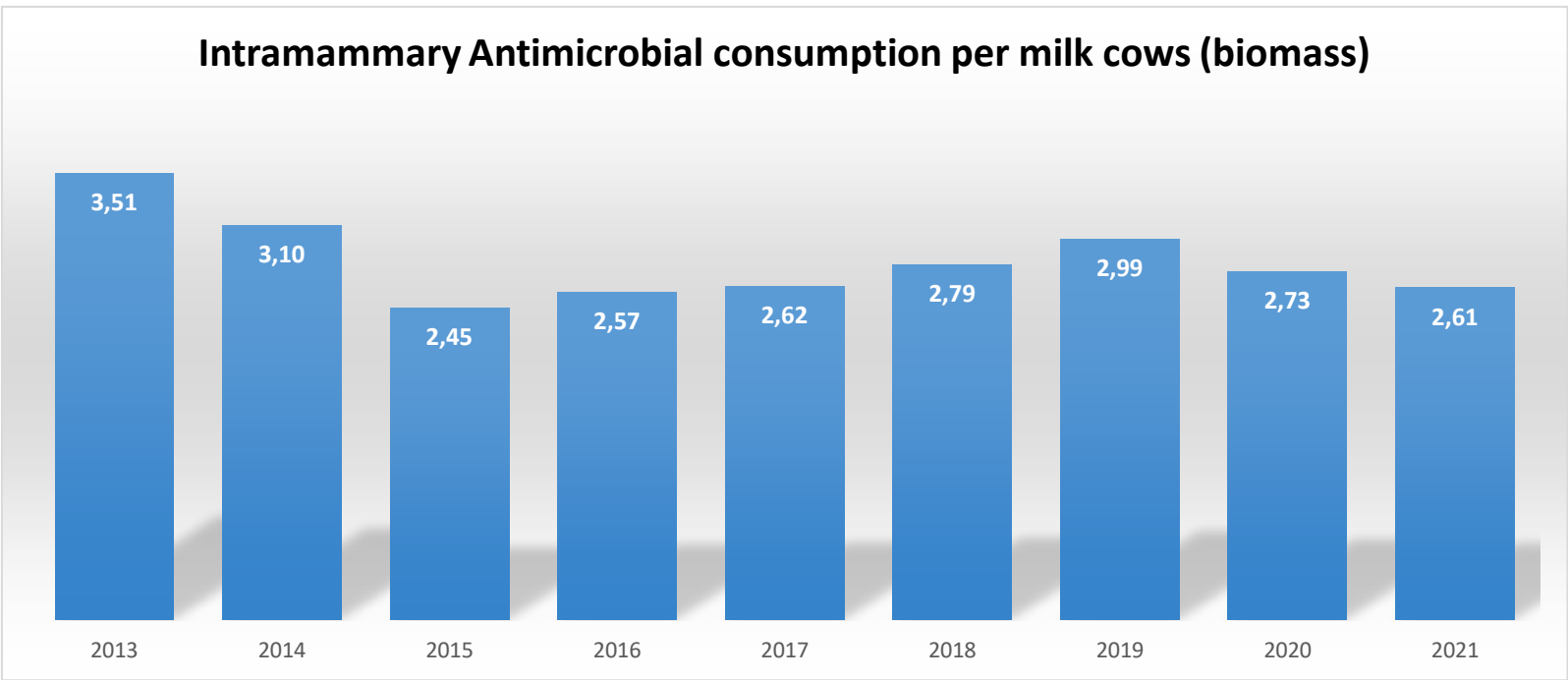
## Antimicrobial use in mg/PCU (ESVAC) of Belgium and neighbouring countries



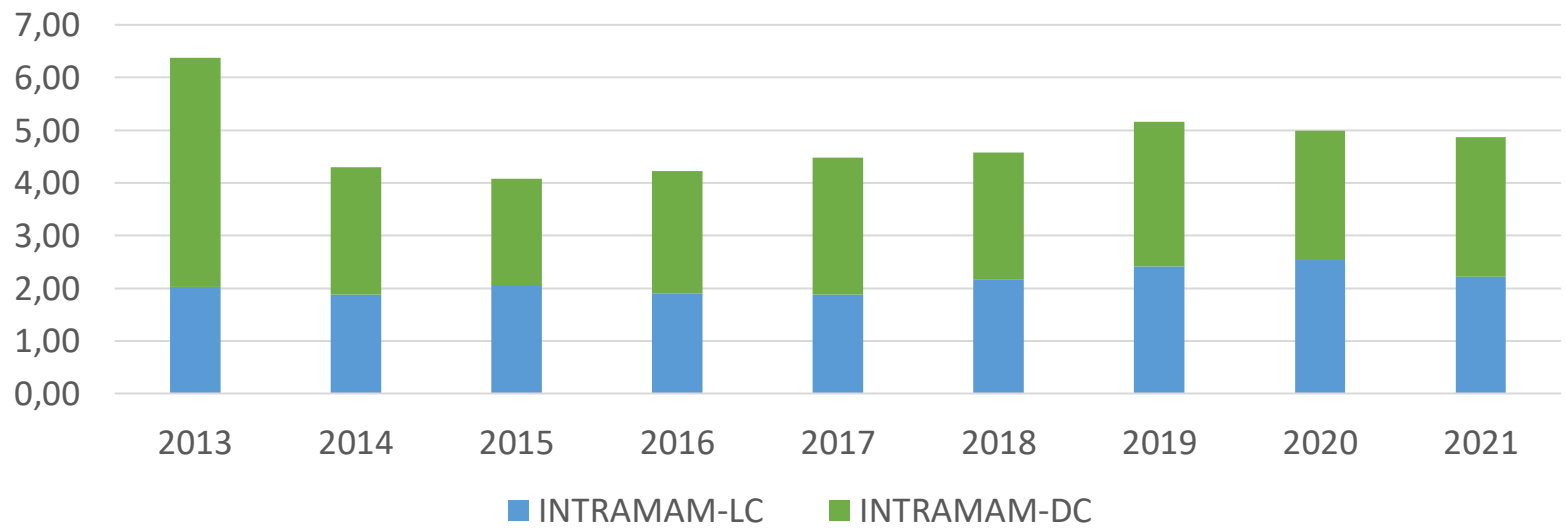
Total Sales of Tonne Active ingredient by species indicated



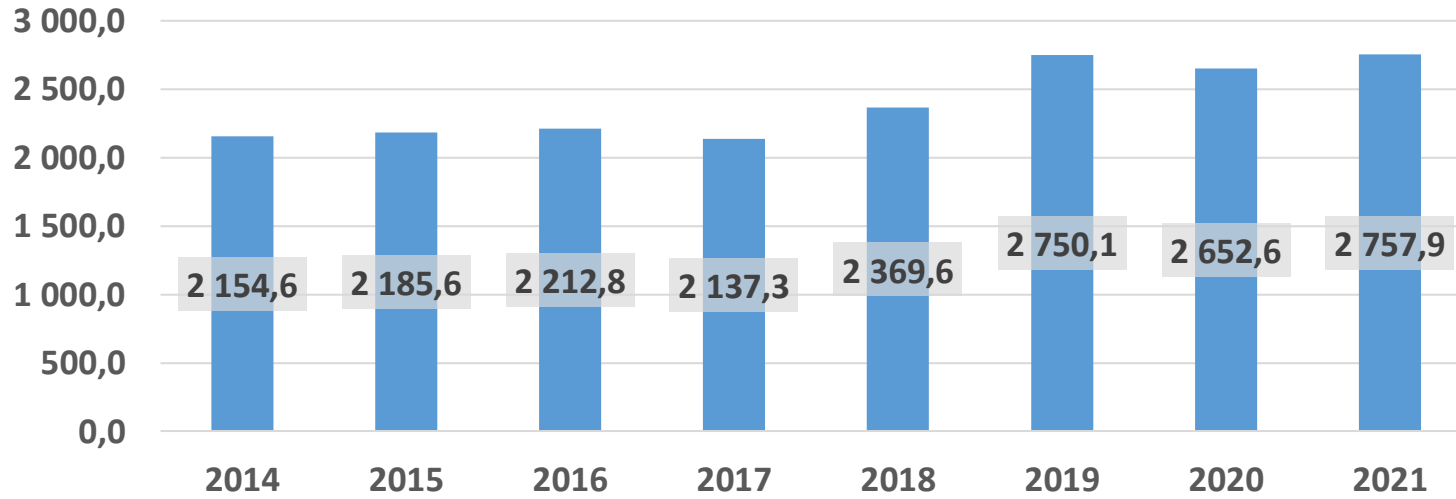
### Intramammary Antimicrobial consumption per milk cows (biomass)



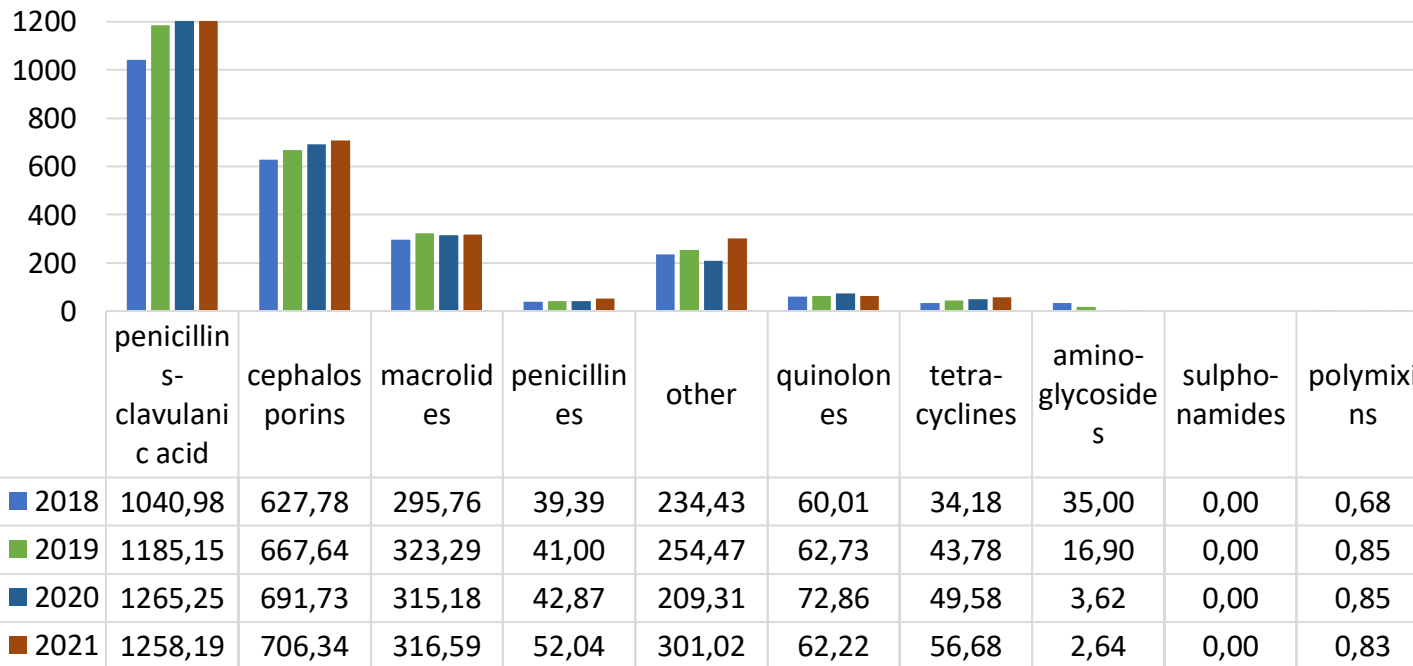
### Number of Applicator LC & DC / Cow / Year



## kg active compound in dogs and cats

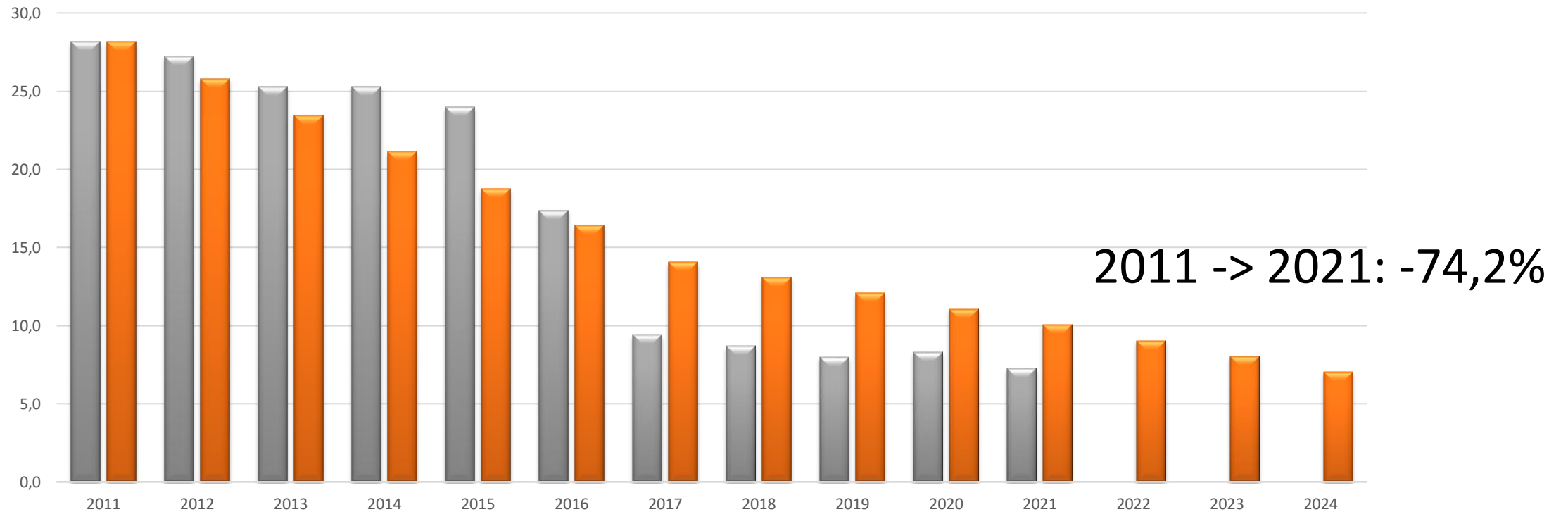


## Sales (kg active compound) of different antibacterial classes in cats and dogs

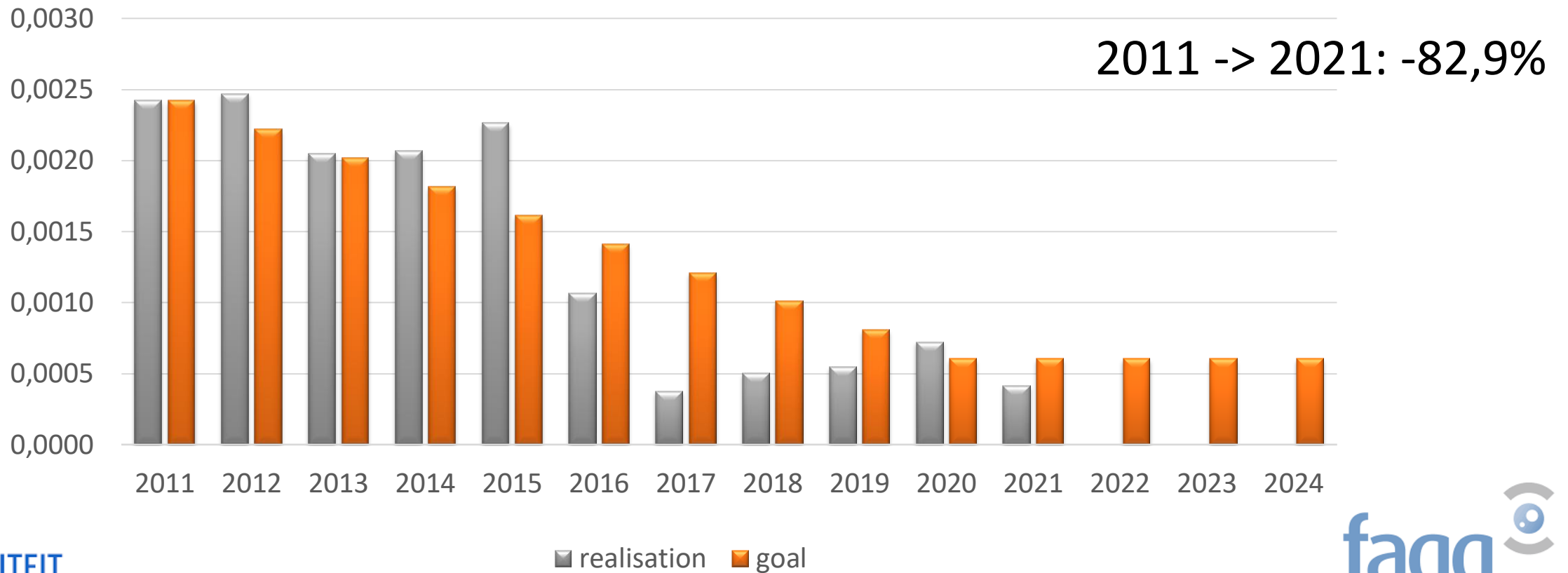




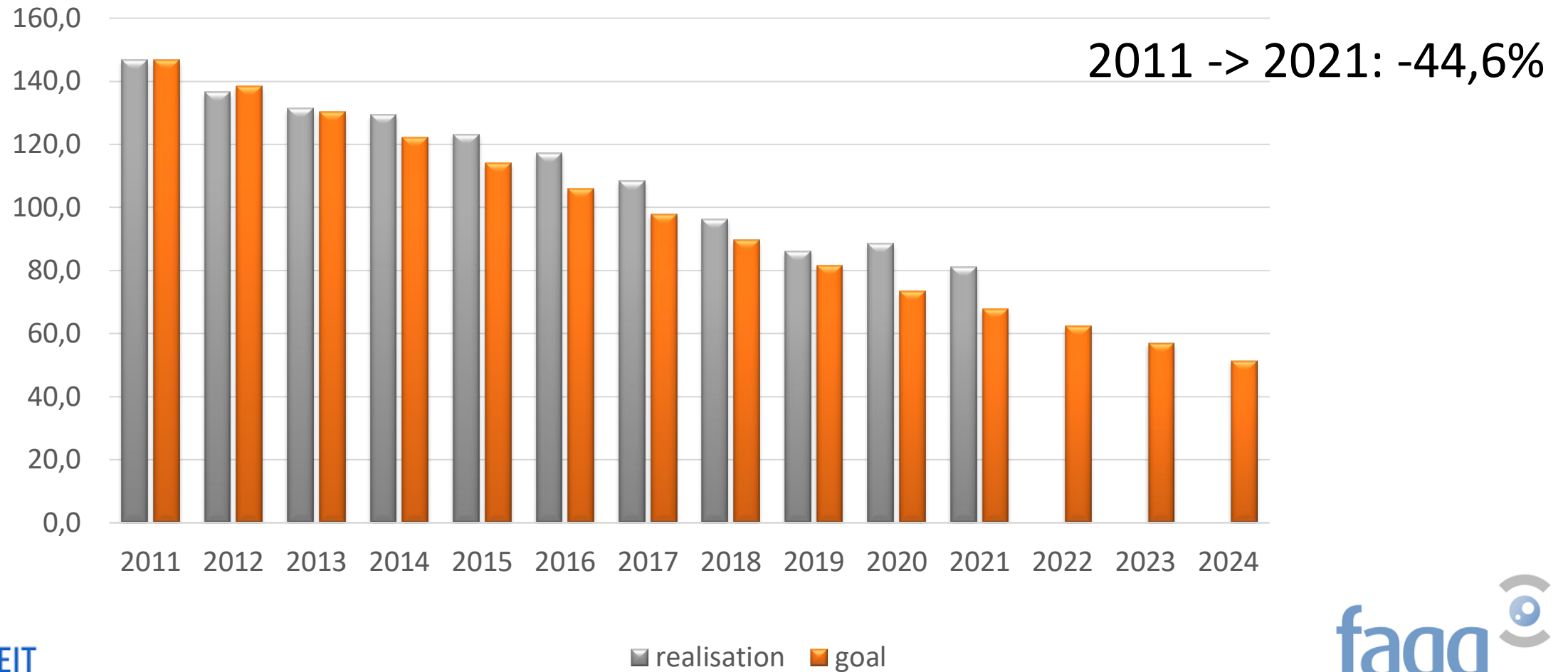
## Evolution of premix consumption in reference to 2011 (AMCRA 2024 plan)



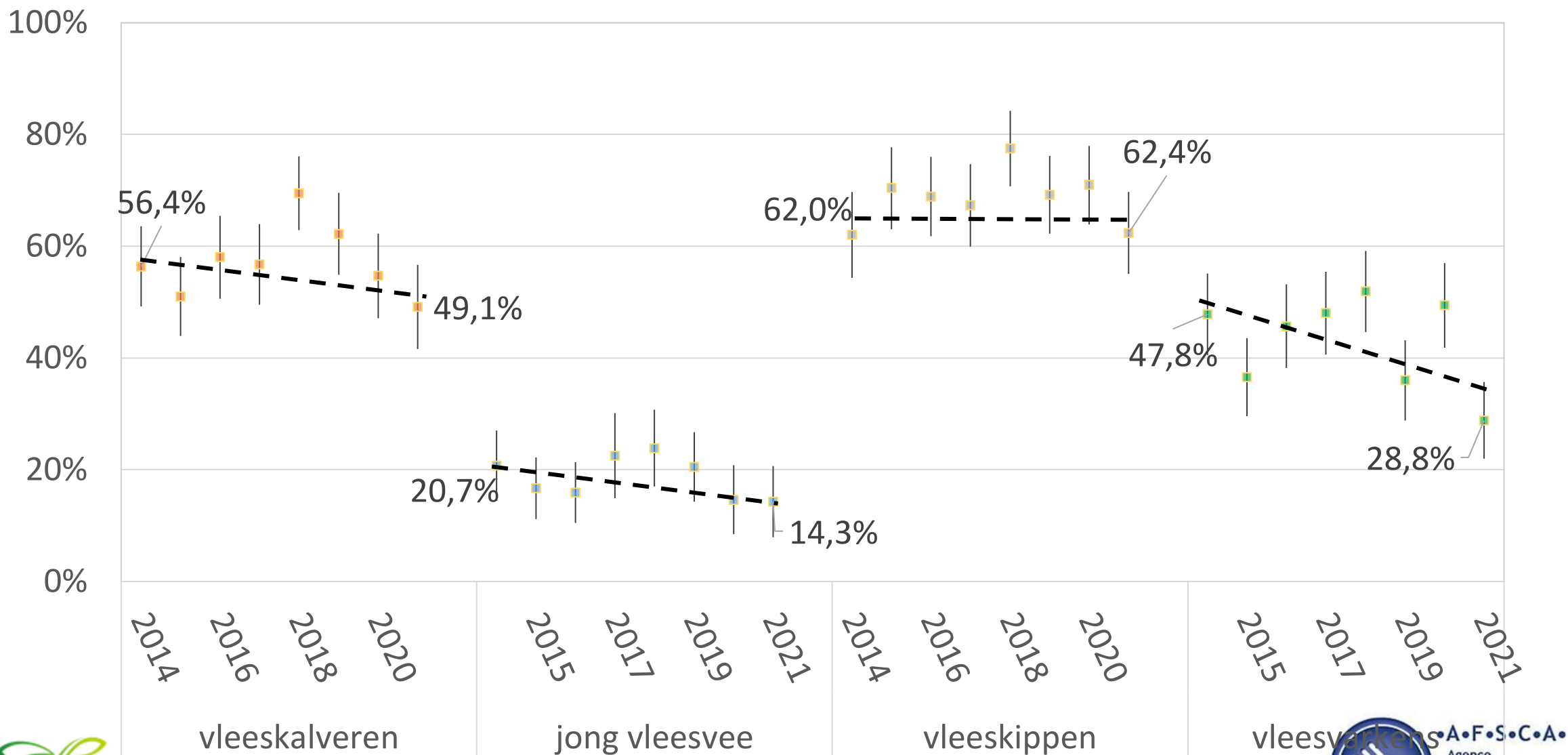
## Evolution total consumption of red molecules in reference to 2011 (AMCRA 2024 plan)



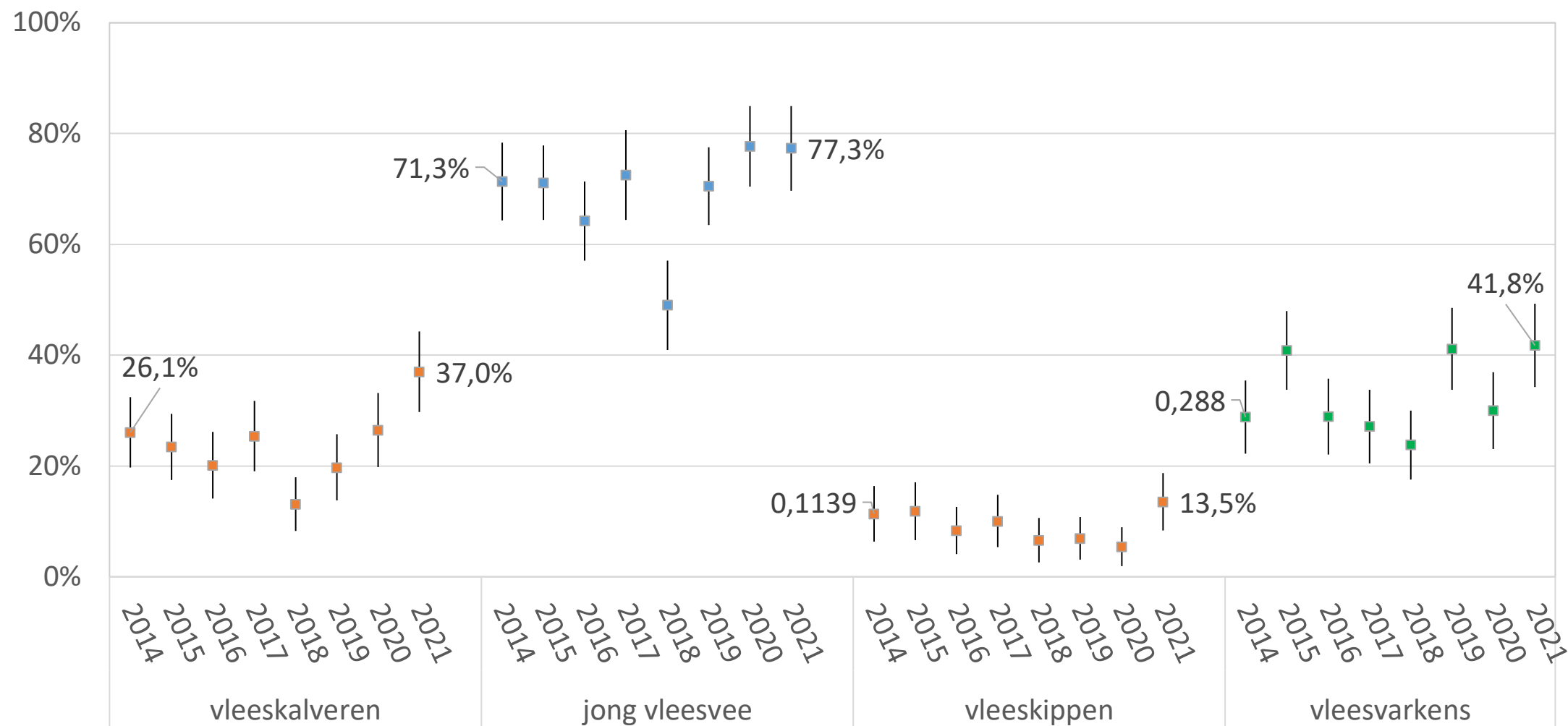
## Evolution total consumption in reference to 2011 (AMCRA 2020 plan)



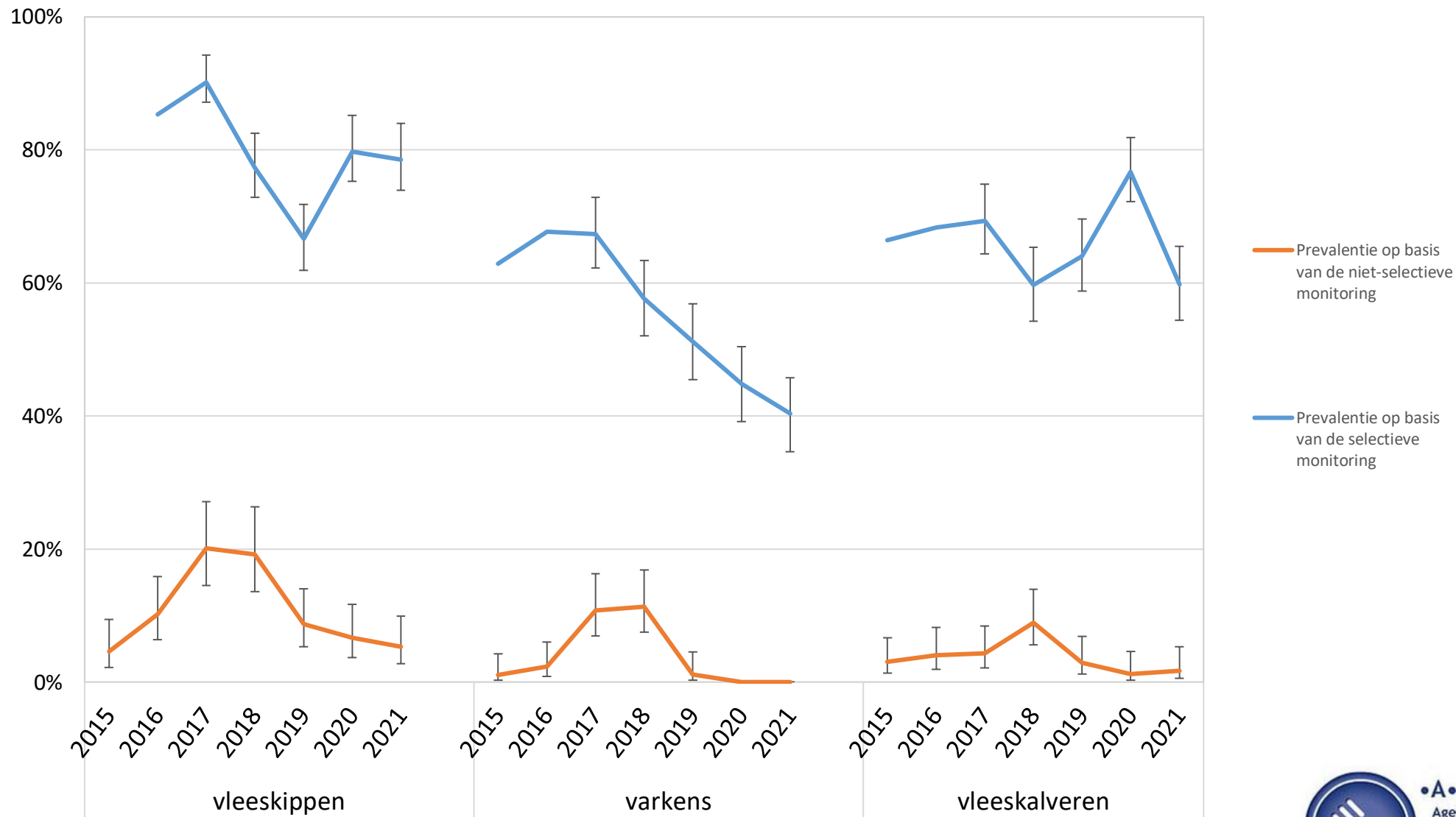
## Multiresistente *E. coli* bij voedselproducerende diersoorten



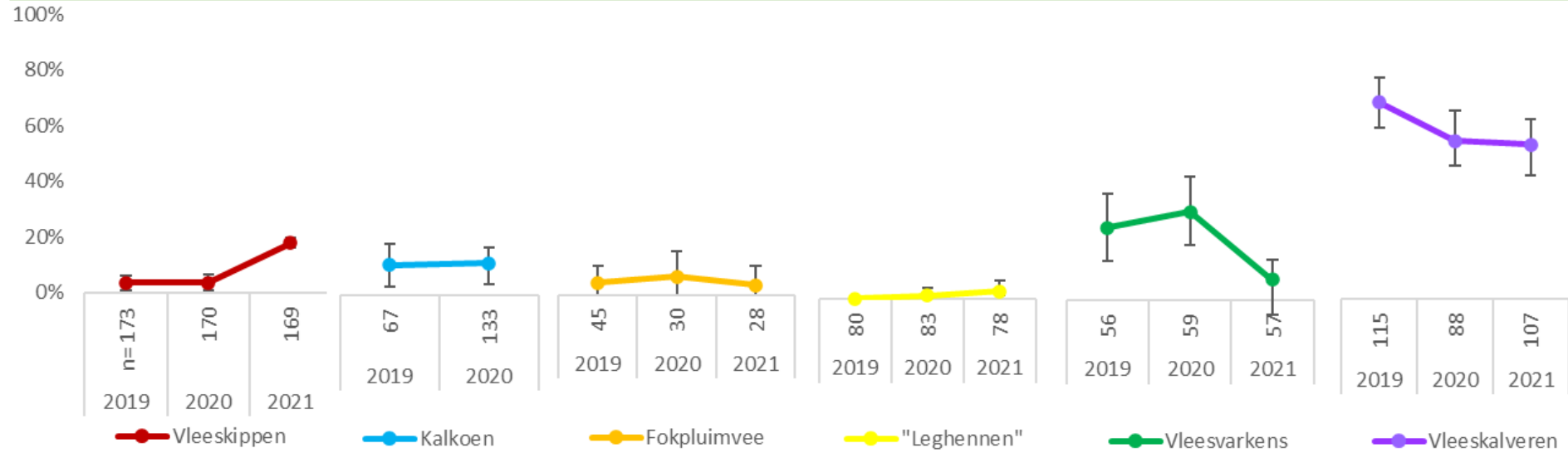
## Gevoelige *E. coli* bij voedselproducerende diersoorten



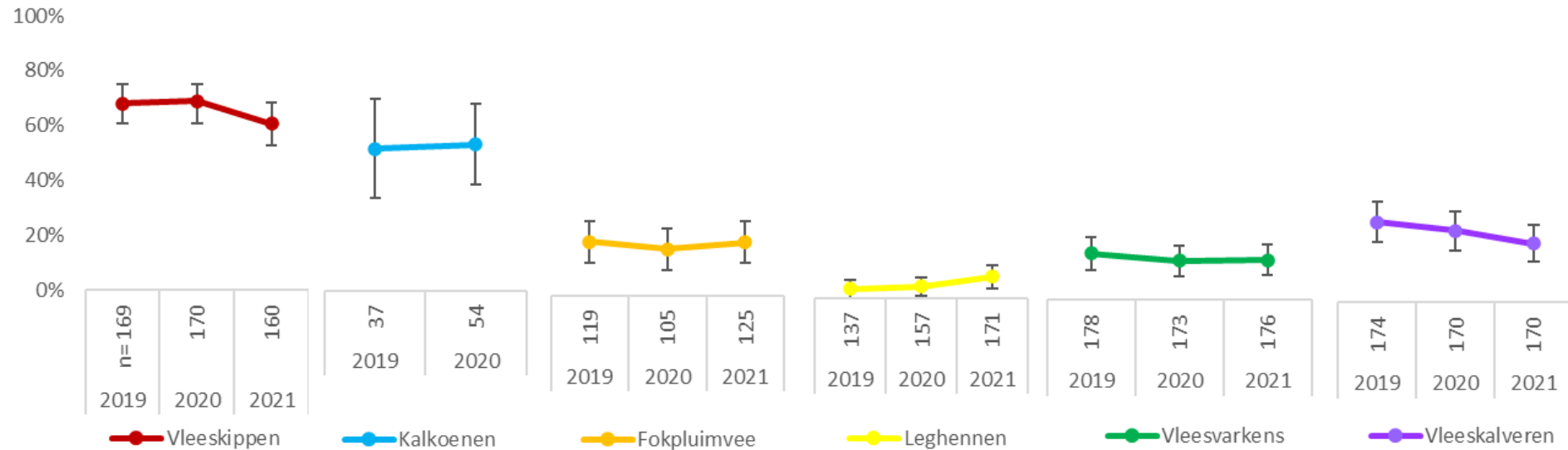
# Prevalentie ESBL-producerende *E. coli* bij voedselproducerende diersoorten



## Multiresistente *Enterococcus faecalis* bij voedselproducerende diersoorten



## Multiresistente *Enterococcus faecium* bij voedselproducerende diersoorten



## Prevalentie MRSA bij voedselproducerende diersoorten

