



# Belgian Veterinary Surveillance of Antibacterial Consumption

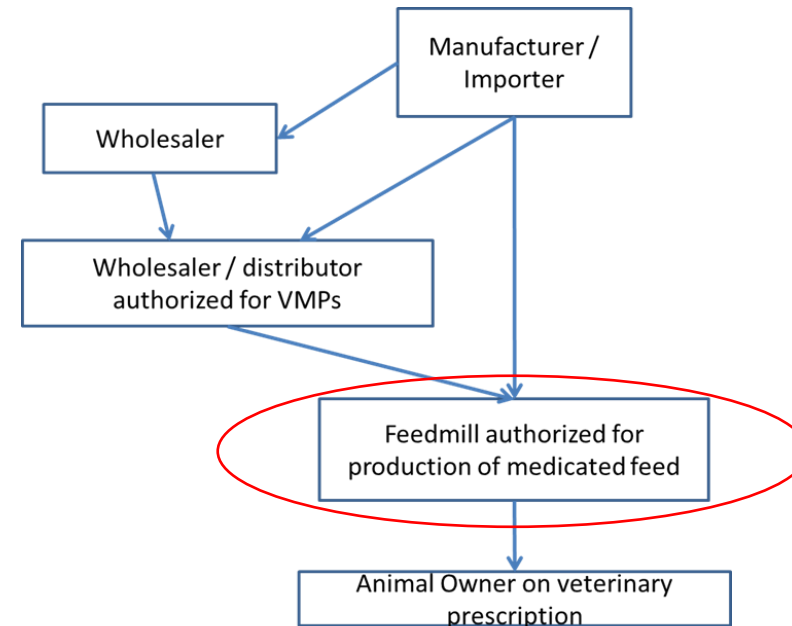
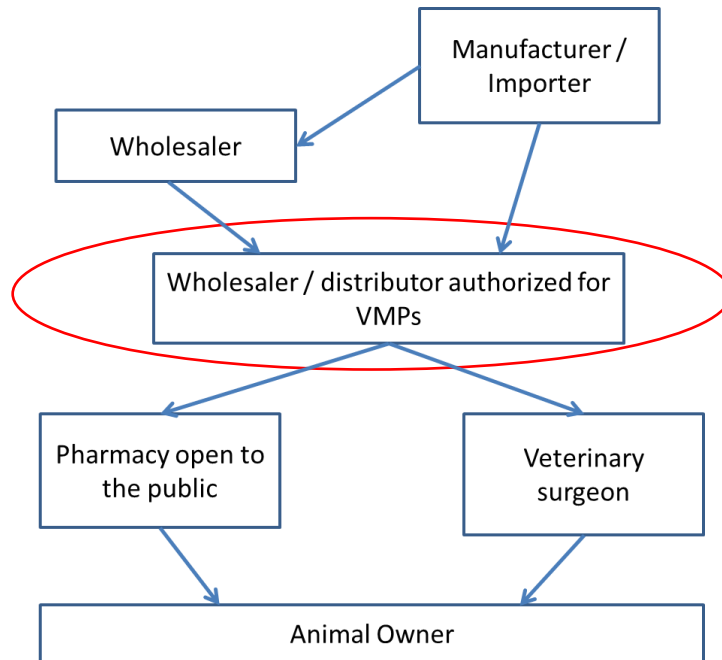
## National consumption report

2020

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## National consumption report

2020

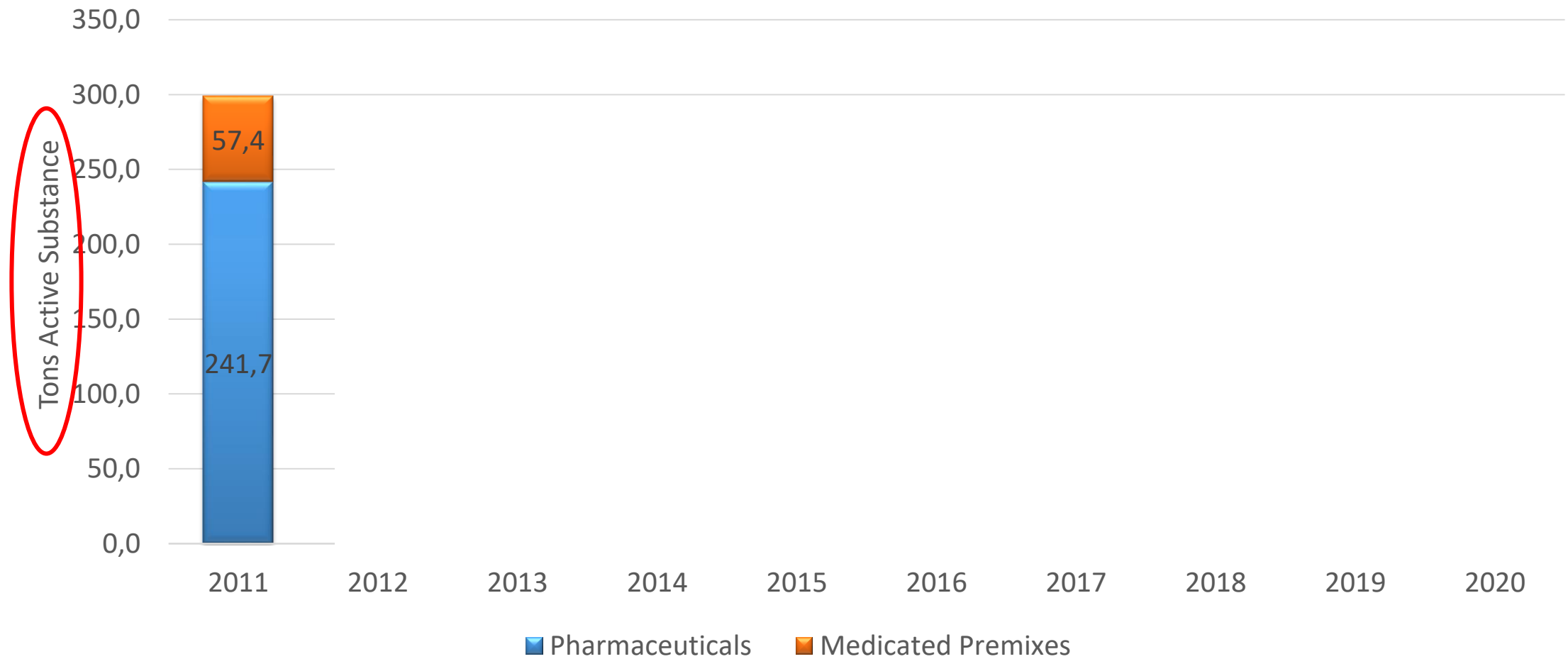


## Biomassa geproduceerd tussen 2014 en 2020

Animal biomass	2015	2016	2017	2018	2019	2020
<b>Meat (ton)</b>						
Pork	1 124 310	1 060 540	1 044 560	1 073 120	1 038 916	1 098 710
Beef	267 880	278 360	281 540	277 310	263 749	254 500
Poultry	452 940	461 250	463 390	469 590	447 786	448 970
Sheep/goat <sup>a</sup>	2 720	3 020	3 230	3 090	3 010	2 830
<b>Total biomass from meat production</b>	<b>1 847 850</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>Dairy cattle</b>						
Dairy cattle (number)	528 780	529 780	519 160	529 250	537 960	541 090
Dairy cattle metabolic weight (ton)	264 390	264 890	259 580	264 625	268 980	270 545
<b>Total biomass (ton)</b>	<b>2 112 240</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>Evolution since previous year</b>	<b>+1,97%</b>	<b>-2,09%</b>	<b>-0,76%</b>	<b>+ 1,73%</b>	<b>-3,13%</b>	<b>+2,64%</b>

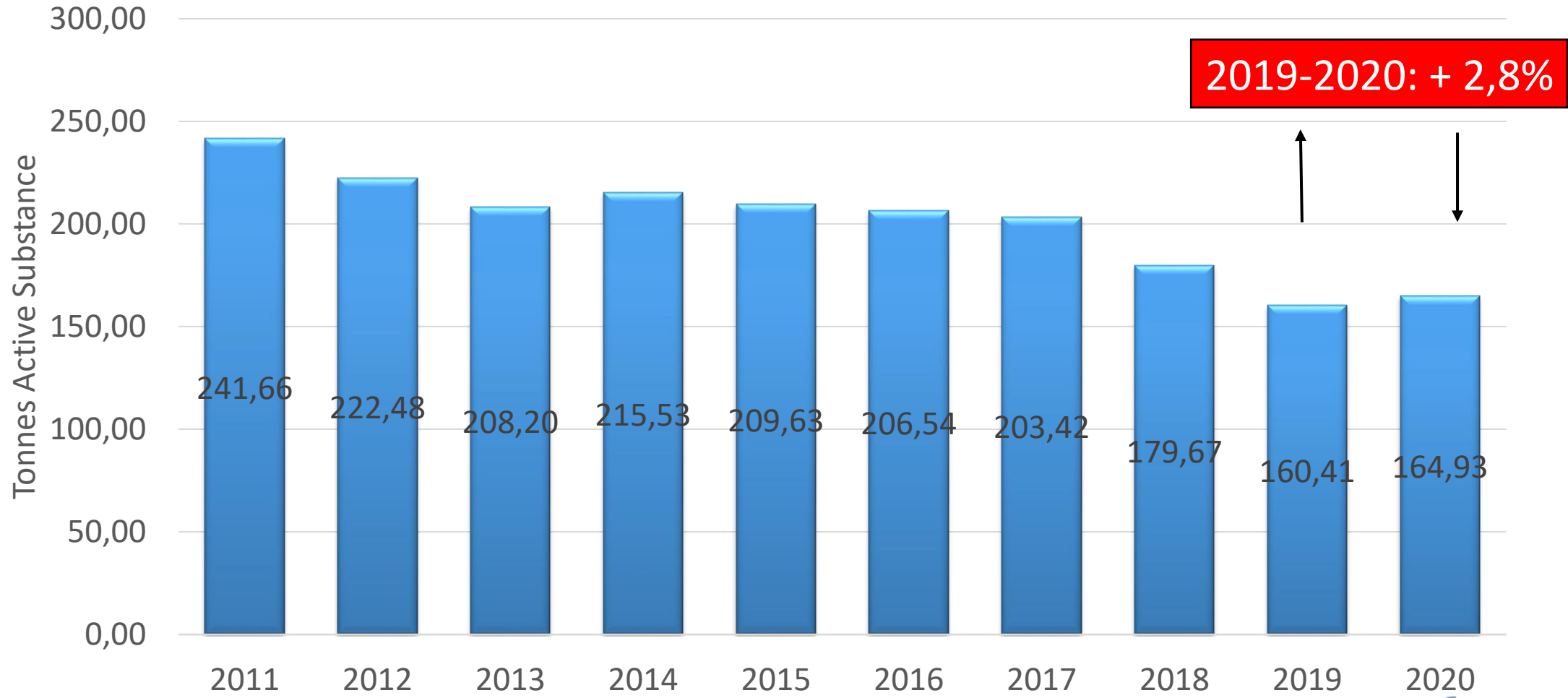
Tussen 2011 – 2020 is biomassa met 1,69% toegenomen

## Medicated Premixes & Pharmaceuticals



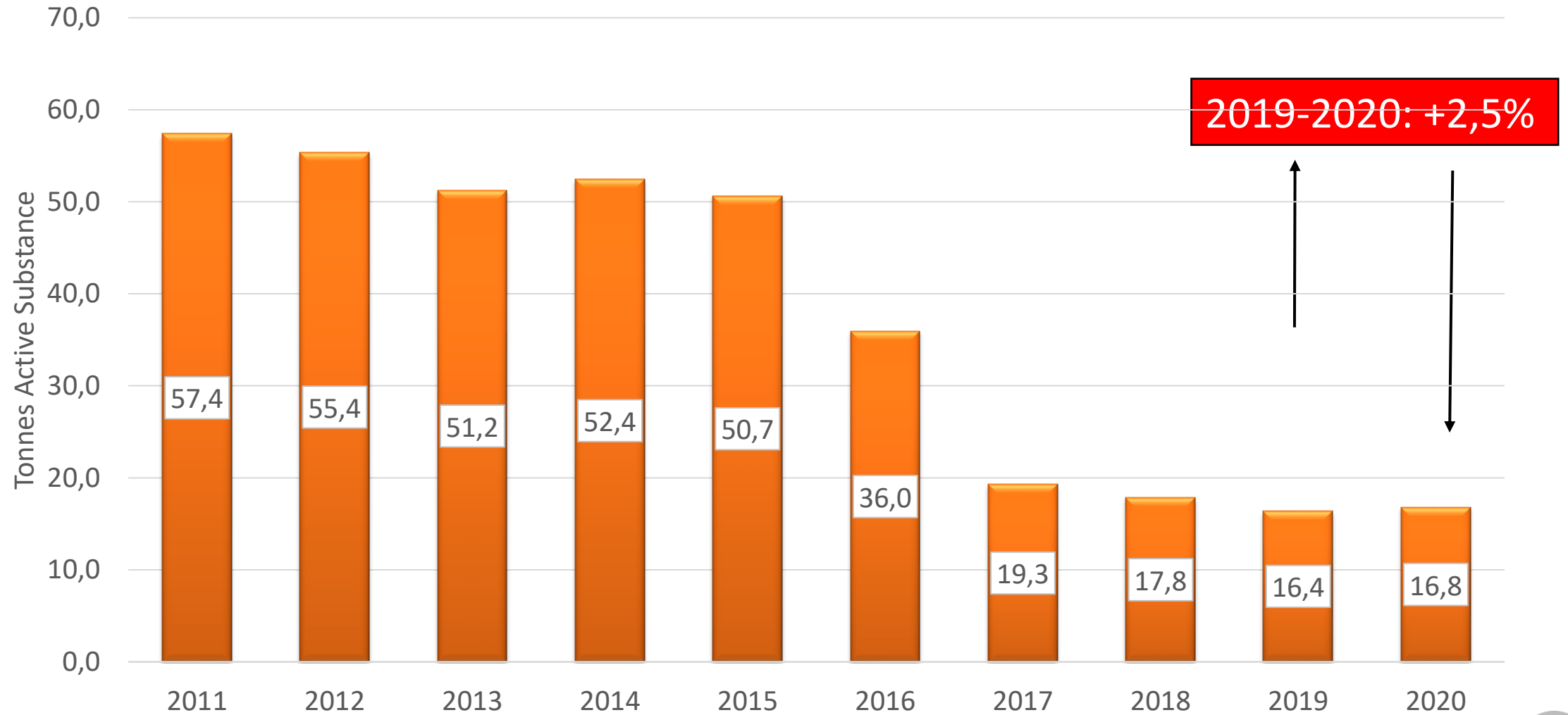
2019 -> 2020: +2,8%  
2011 -> 2020: -39,2%

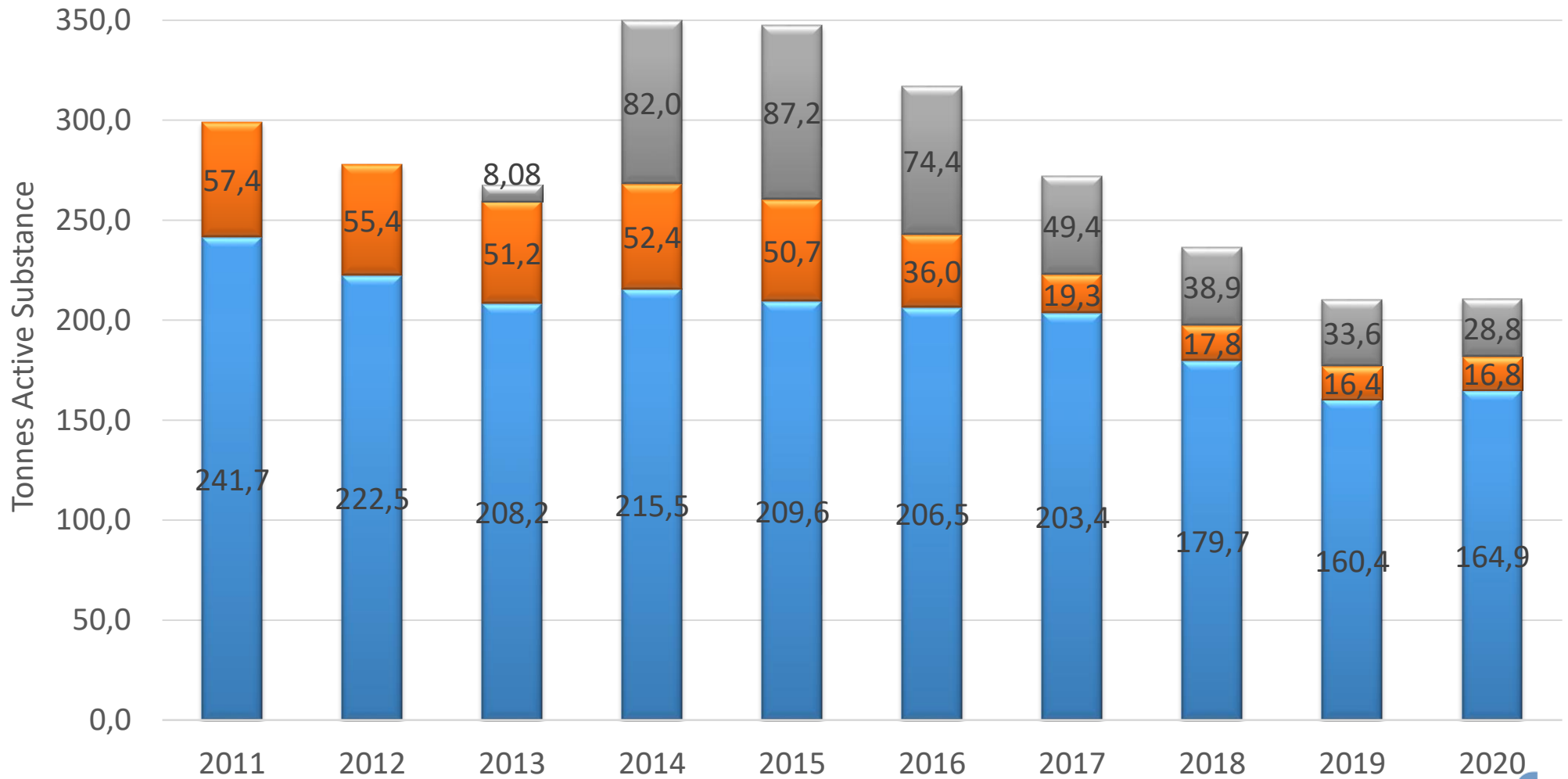
# Pharmaceuticals



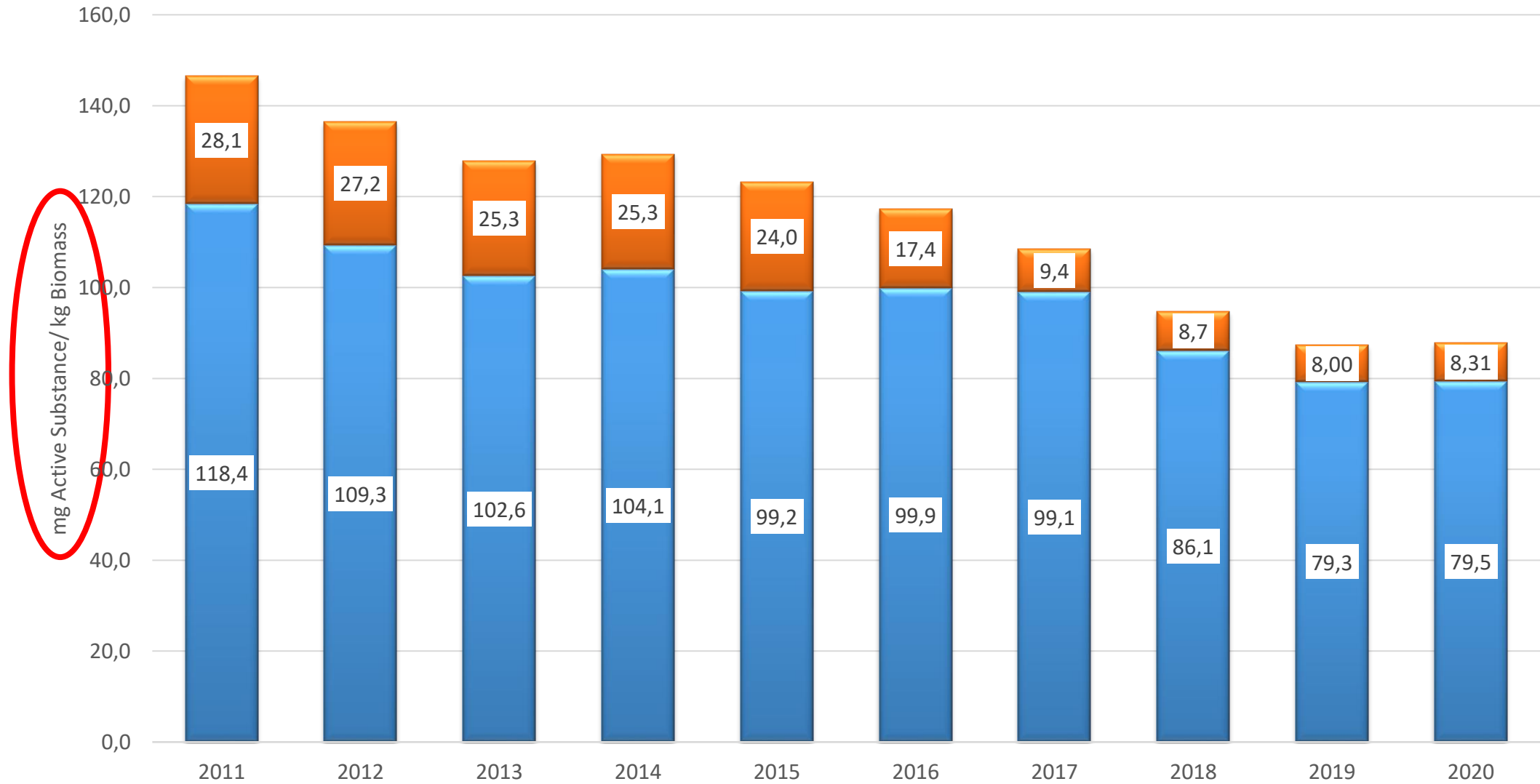
■ Pharmaceuticals

## Medicated Premixes





## Medicated Premixes & Pharmaceuticals expressed in mg/kg biomass

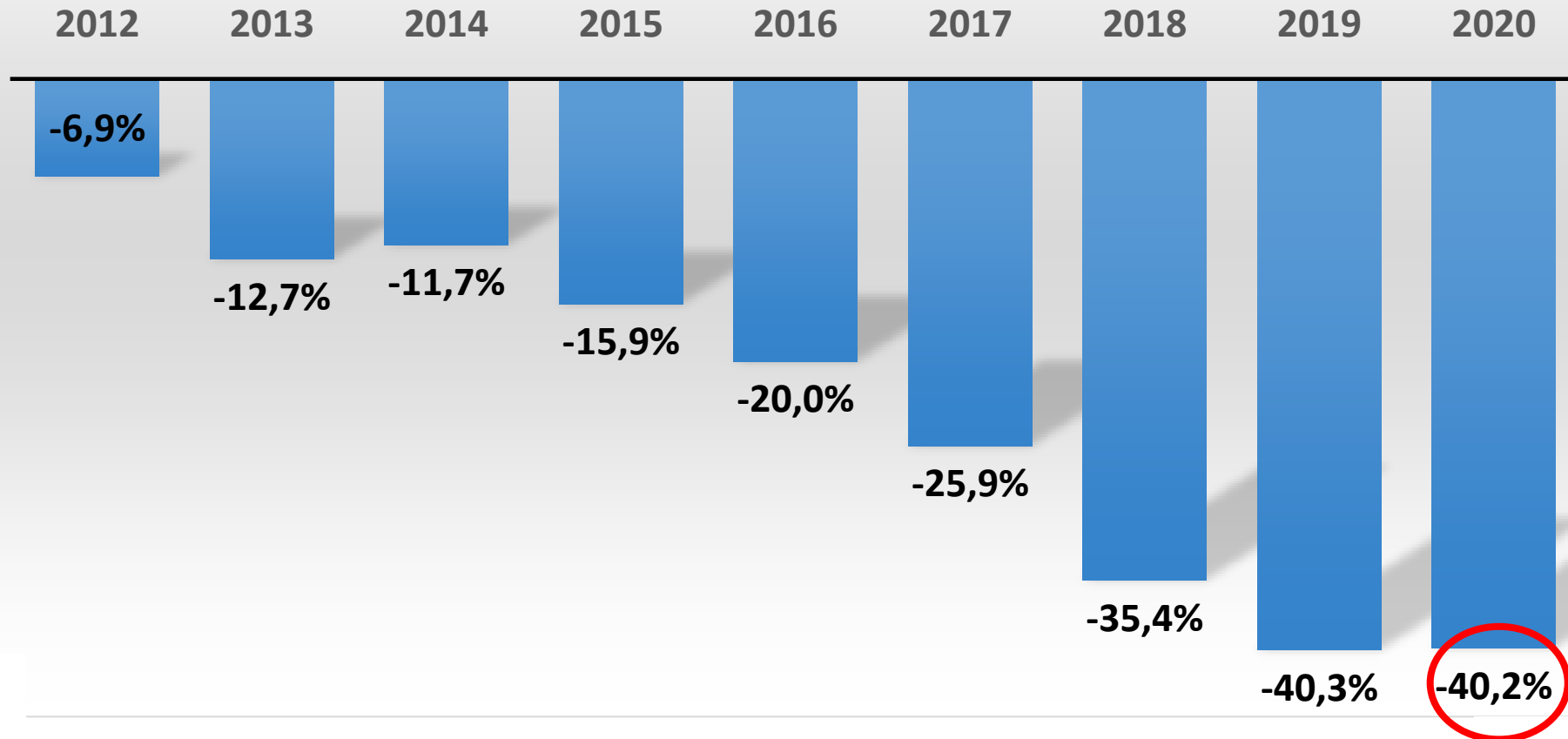


■ Pharmaceuticals ■ Medicated premixes

2019 -> 2020: +0,2%



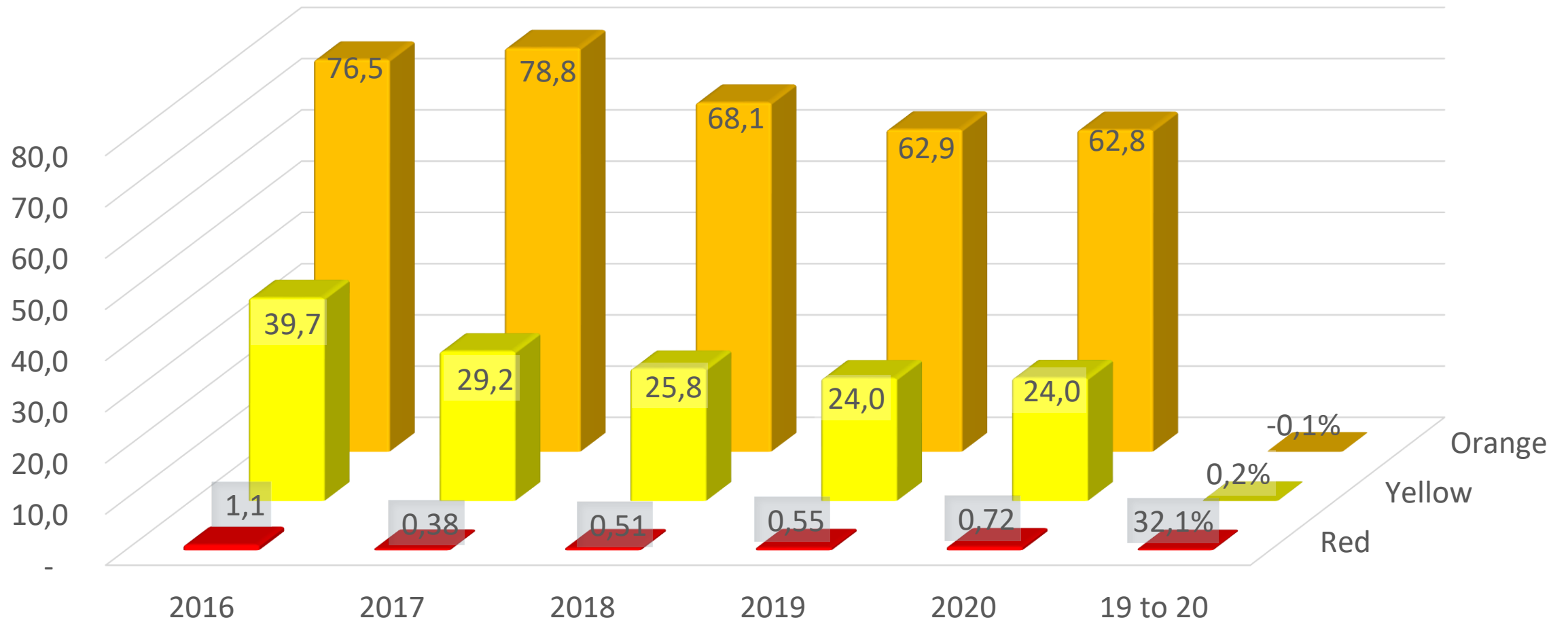
## Evolution of Antimicrobial consumption per biomass compared to 2011



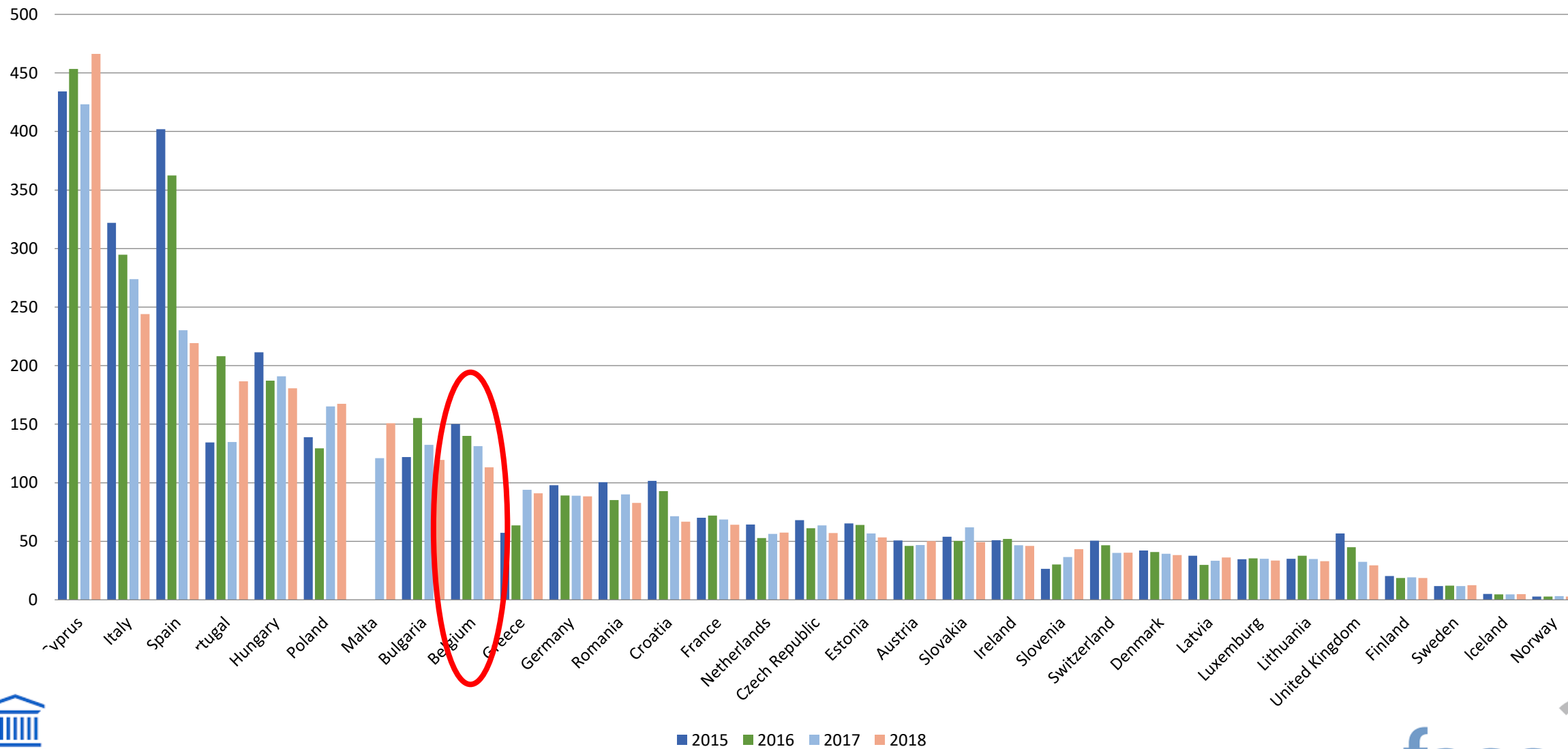
Class AB Mg/kg Biomass	2014	2015	2016	2017	2018	2019	2020	'14 » '15	'15 » '16	'16 » '17	'17 » '18	'18 » '19	'19 » '20	2020%
<u>Penicillins</u>	39,91	38,09	42,03	40,96	35,78	34,63	35,37	-4,6%	10,3%	-2,6%	-12,6%	-3,2%	2,1%	40,40
<u>Sulphonamides &amp; Trimethoprim</u>	37,39	35,08	31,64	21,56	17,49	16,69	17,06	-6,2%	-9,8%	-31,8%	-18,9%	-4,5%	2,2%	19,48
<u>Tetracyclines</u>	29,92	28,49	24,16	27,66	23,96	18,35	17,26	-4,8%	-15,2%	14,4%	-13,3%	-23,4%	-5,9%	19,72
<u>Macrolides</u>	11,27	10,80	9,57	9,18	8,12	8,09	8,75	-4,2%	-11,4%	4,0%	-11,5%	0,4%	8,1%	9,99
<u>Polymixins</u>	2,74	2,25	2,03	1,76	1,69	1,50	1,33	-17,6%	-9,9%	-13,3%	-4,1%	-11,2%	-11,3%	1,52
<u>Aminosides</u>	4,34	4,47	4,48	4,49	3,93	4,71	4,41	3,1%	0,2%	0,3%	-12,6%	20,0%	6,5%	5,04
<u>Quinolones</u>	1,69	1,92	0,82	0,29	0,44	0,48	0,66	13,7%	-57,5%	-64,2%	50,0%	10,0%	36,2%	0,75
<u>Other**</u>	0,61	0,57	0,55	0,50	1,05	0,82	0,47	-6,1%	-3,8%	-9,4%	109,5%	-21,4%	-42,7%	0,54
<u>Phenicols</u>	0,78	0,99	1,46	1,50	1,59	1,56	1,57	26,5%	47,3%	3,0%	6,1%	-1,8%	0,3%	1,79
<u>Cephalosporins 1° &amp; 2° G</u>	0,39	0,37	0,44	0,41	0,37	0,52	0,62	-4,4%	16,3%	-6,7%	-7,8%	38,1%	19,8%	0,71
<u>Cephalosporins 3° &amp; 4° G</u>	0,38	0,35	0,25	0,09	0,07	0,07	0,07	-9,5%	-28,3%	-65,9%	-19,2%	-2,6%	2,3%	0,08
<b>Total mg/kg Biomass</b>	<b>129,42</b>	<b>123,39</b>	<b>117,43</b>	<b>108,40</b>	<b>94,50</b>	<b>87,43</b>	<b>87,57</b>	<b>-4,66%</b>	<b>-4,83%</b>	<b>-7,69%</b>	<b>-12,83%</b>	<b>-7,48%</b>	<b>0,16%</b>	<b>100</b>
Total biomass cfr. Grave et al., 2010)*	2.068.815	2.109.520	2.065.040	2.052.300	2.087.735	2.022.450	2.075.555	1,97%	-2,11%	-0,62%	1,73%	-3,13%	2,63%	
** <u>zinc bacitracin, rifaximin, metronidazole, tiamulin</u>														

Polymixines 2012 -> 2020: -71,3%

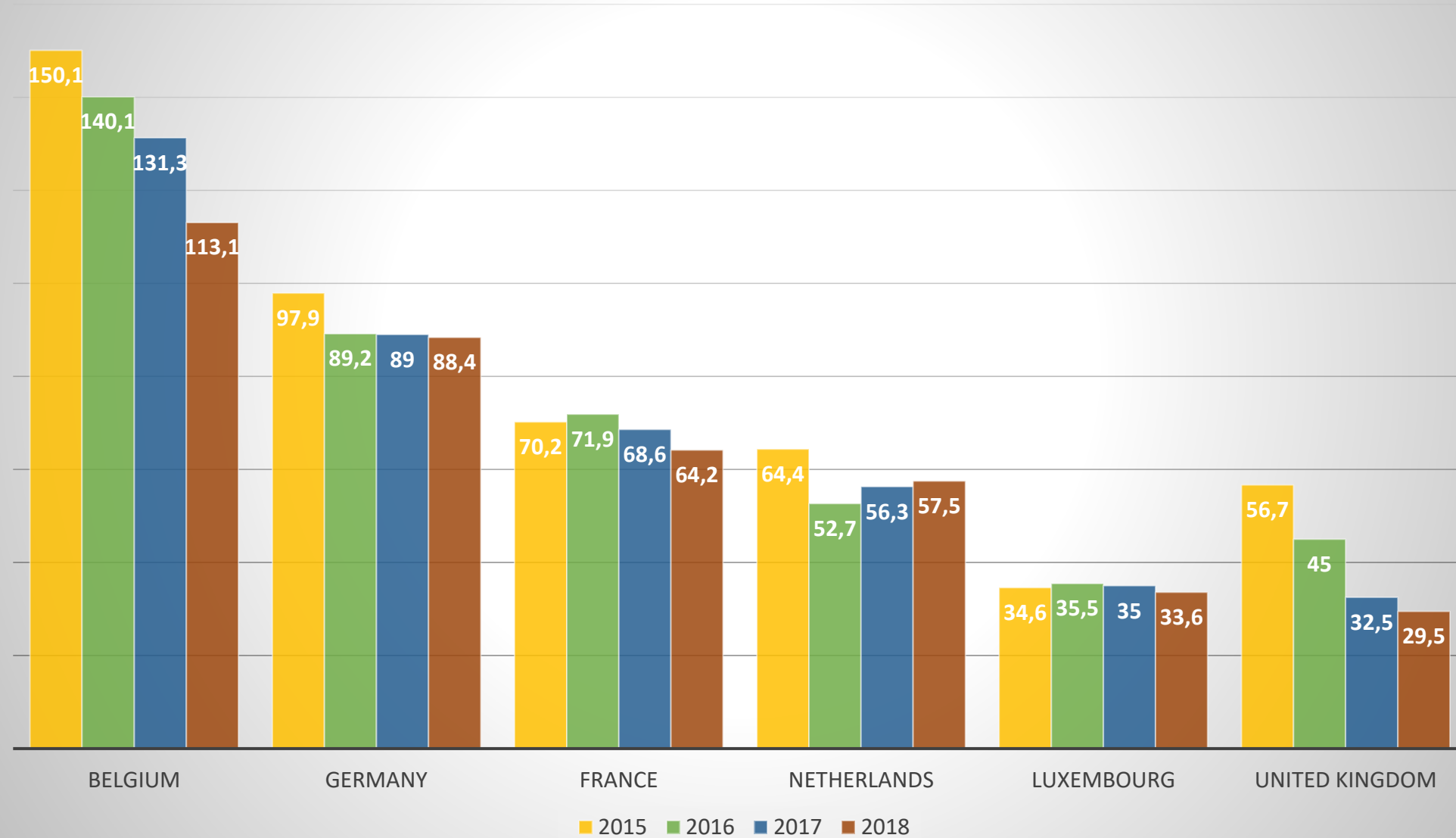
## Antimicrobial pharmaceuticals and medicated premixes (mg/kg biomassa) per AMCRA colour code



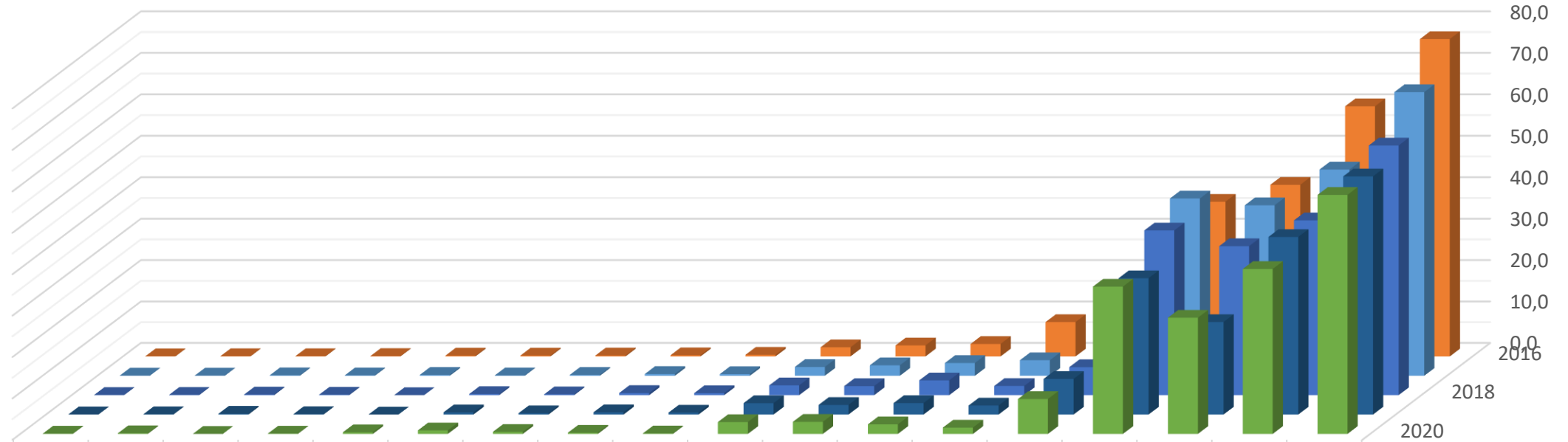
## Antibacterial sales in mg/PCU (ESVAC)



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

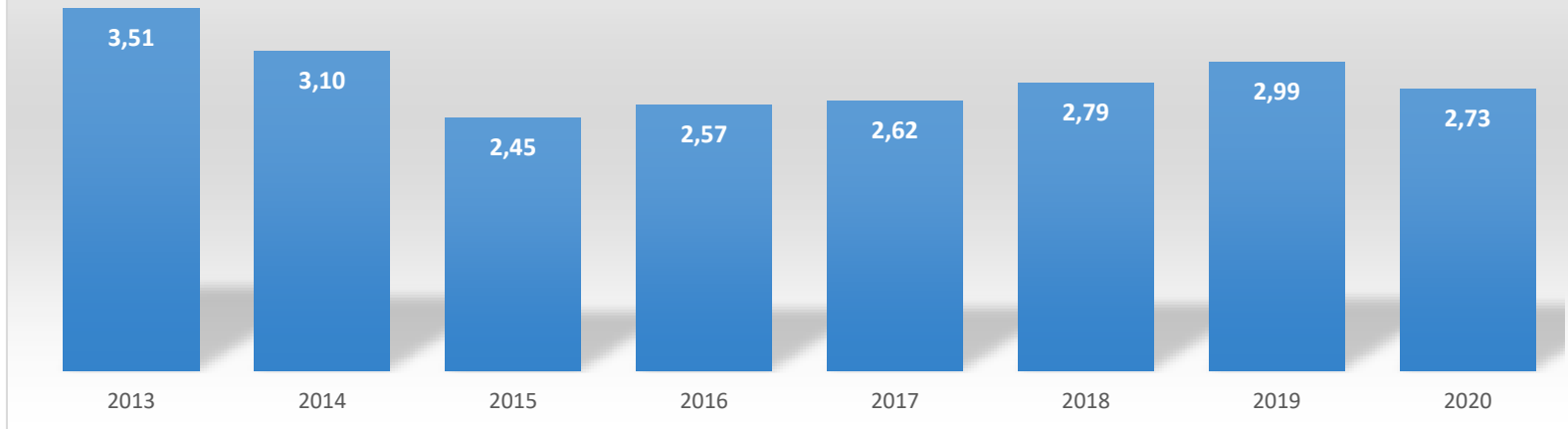


Total tonnes active substance sold per target animal species

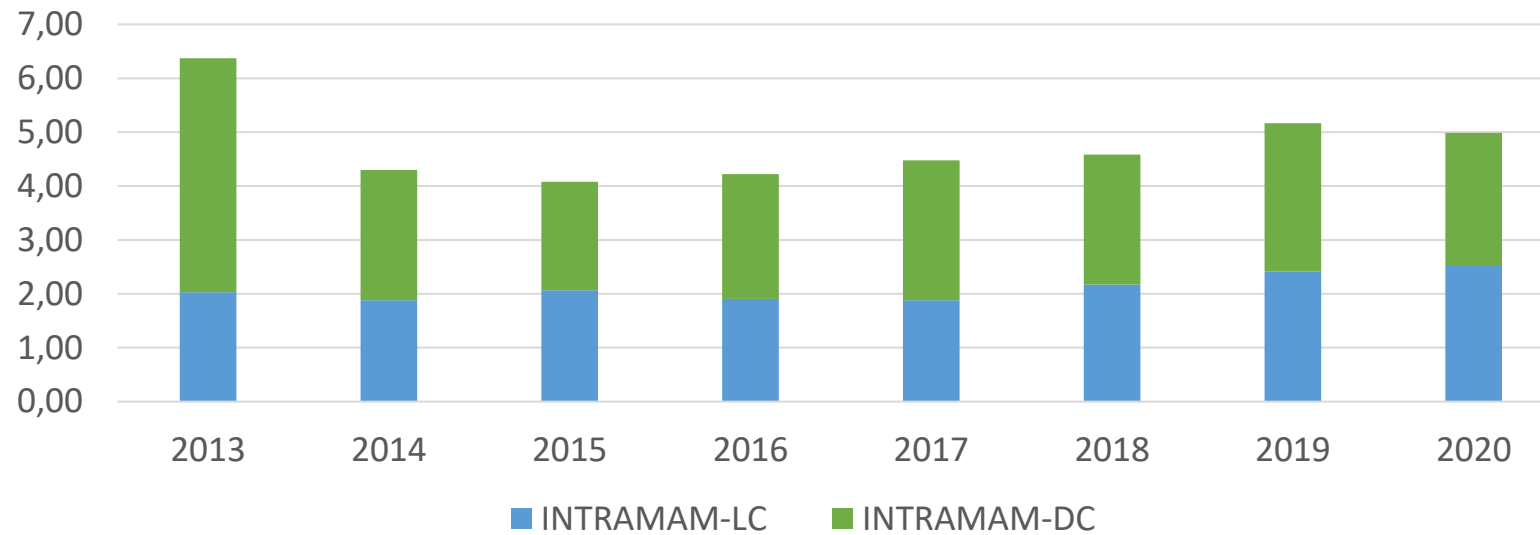


	Bovine & Sheep	Horse	Bovine Pig Horse & Companion Animal	Other	Bovine & Companion Animal	Bovine & Poultry	Pig & Sheep	Bovine Pig & Horse	Bovine Pig & Companion Animal	Companion Animal	Bovine & Pig & Sheep +	Bovine Only	Bovine Pig & Sheep	Poultry Only	Bovine & Pig	Bovine Pig & poultry	Pig & Poultry	Pig Only
■ 2020	0,1	0,1	0,0	0,1	0,4	0,8	0,5	0,3	0,1	2,9	2,9	2,3	1,5	8,4	35,6	28,1	39,9	57,7
■ 2019	0,1	0,1	0,2	0,1	0,0	0,5	0,3	0,5	0,5	2,8	2,3	2,8	2,2	8,6	32,9	22,3	42,9	57,5
■ 2018	0,1	0,1	0,2	0,1	0,0	0,3	0,2	0,5	0,5	2,4	2,2	3,6	2,2	6,8	39,8	36,0	42,2	60,3
■ 2017	0,1	0,1	0,1	0,1	0,2	0,1	0,2	0,4	0,4	2,1	2,5	3,1	3,8	6,6	42,8	41,2	49,8	68,5
■ 2016	0,1	0,1	0,1	0,1	0,2	0,2	0,2	0,3	0,4	2,2	2,7	3,0	8,3	9,0	37,4	41,5	60,4	76,6

## Sales of antibacterial products for intramammary use in mg / kg biomass dairy cows

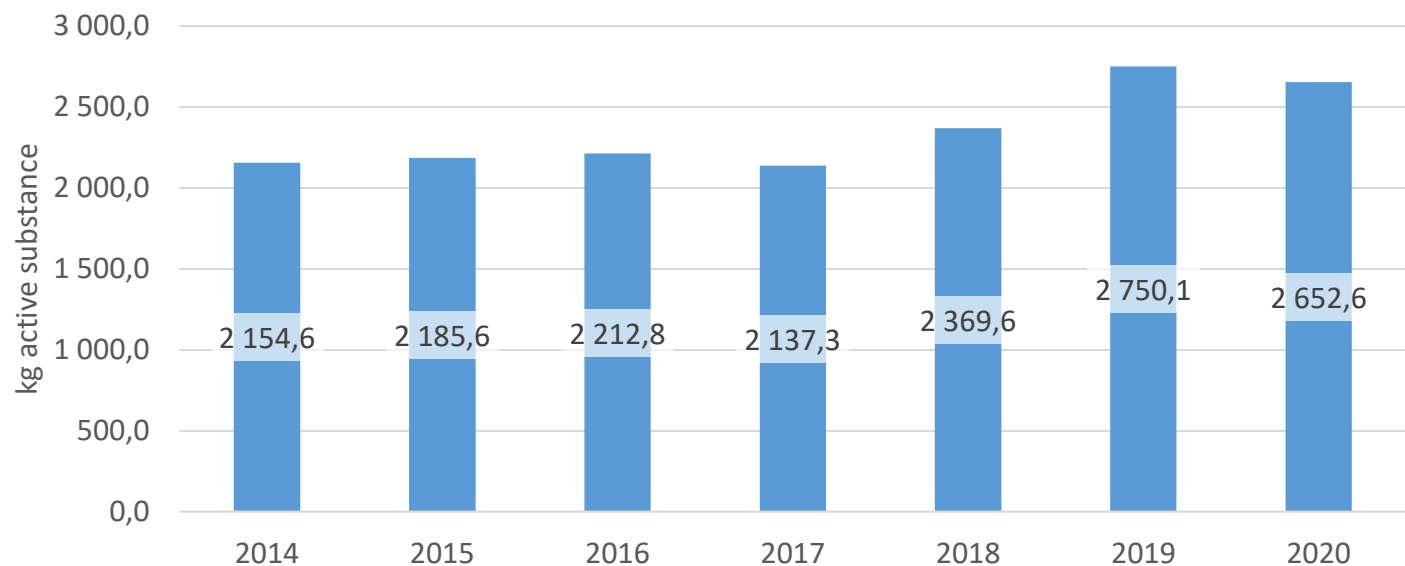


## Number of Applicator LC & DC / Cow / Year

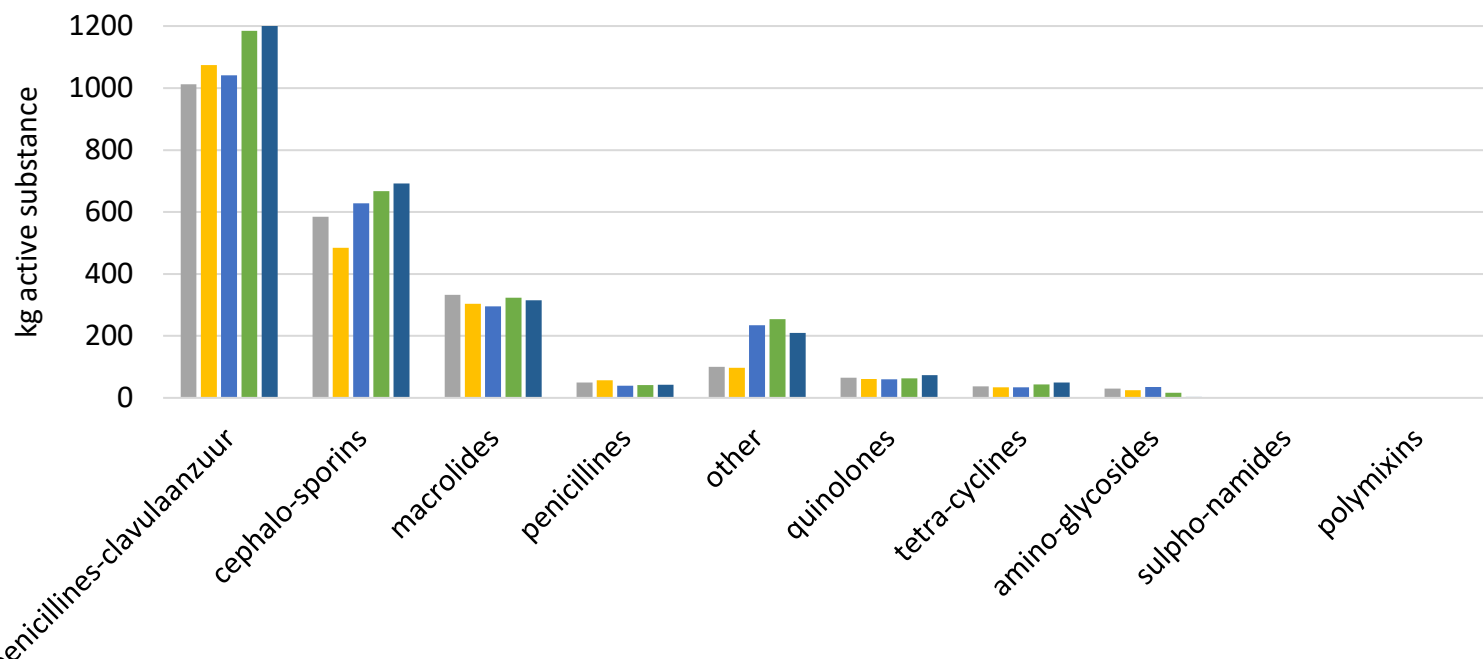




Sales of antibacterial products for dogs and cats

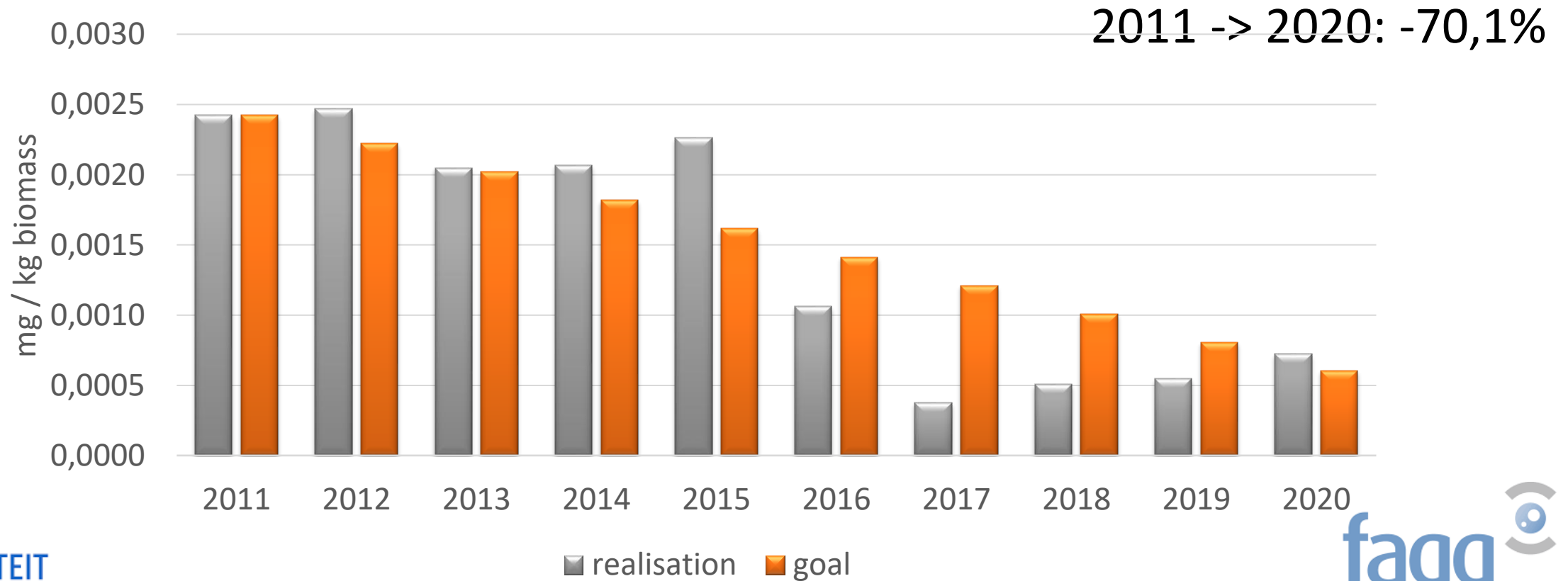


Sales of antibacterial products for dogs and cats per class

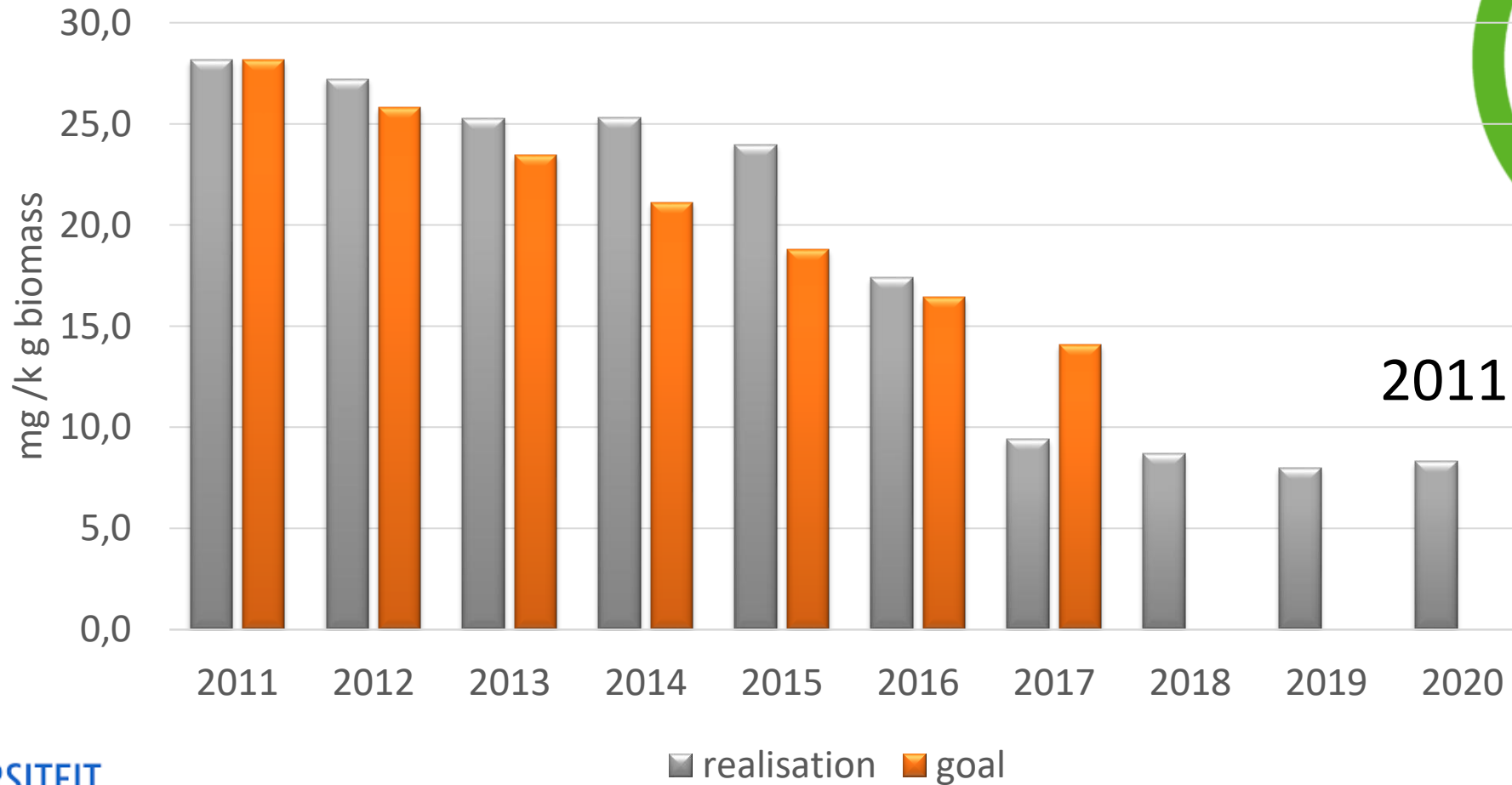




## Evolution total consumption of red molecules in reference to 2011 (AMCRA 2020 plan)

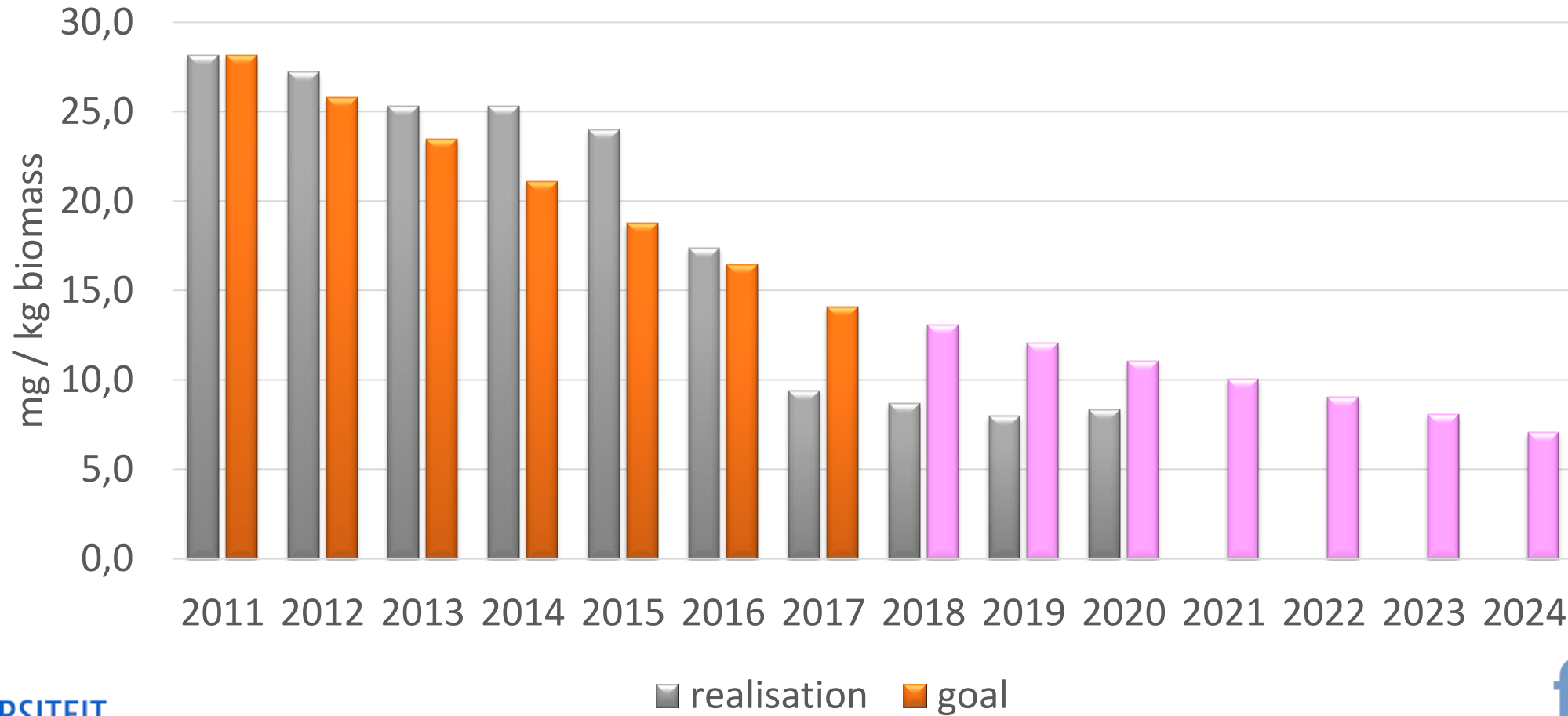


## Evolution of premix consumption in reference to 2011 (AMCRA 2020 plan)

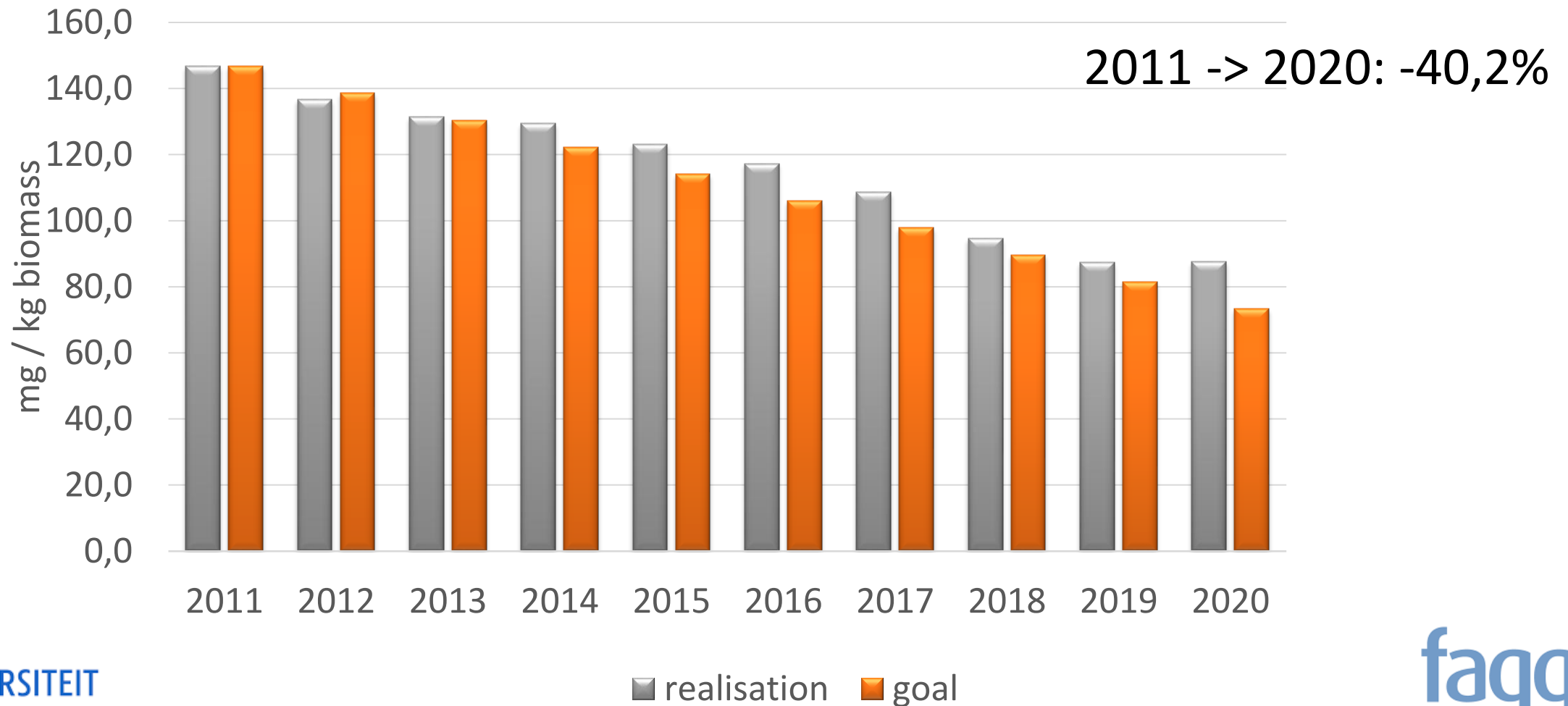


2011 -> 2020: -70,4%

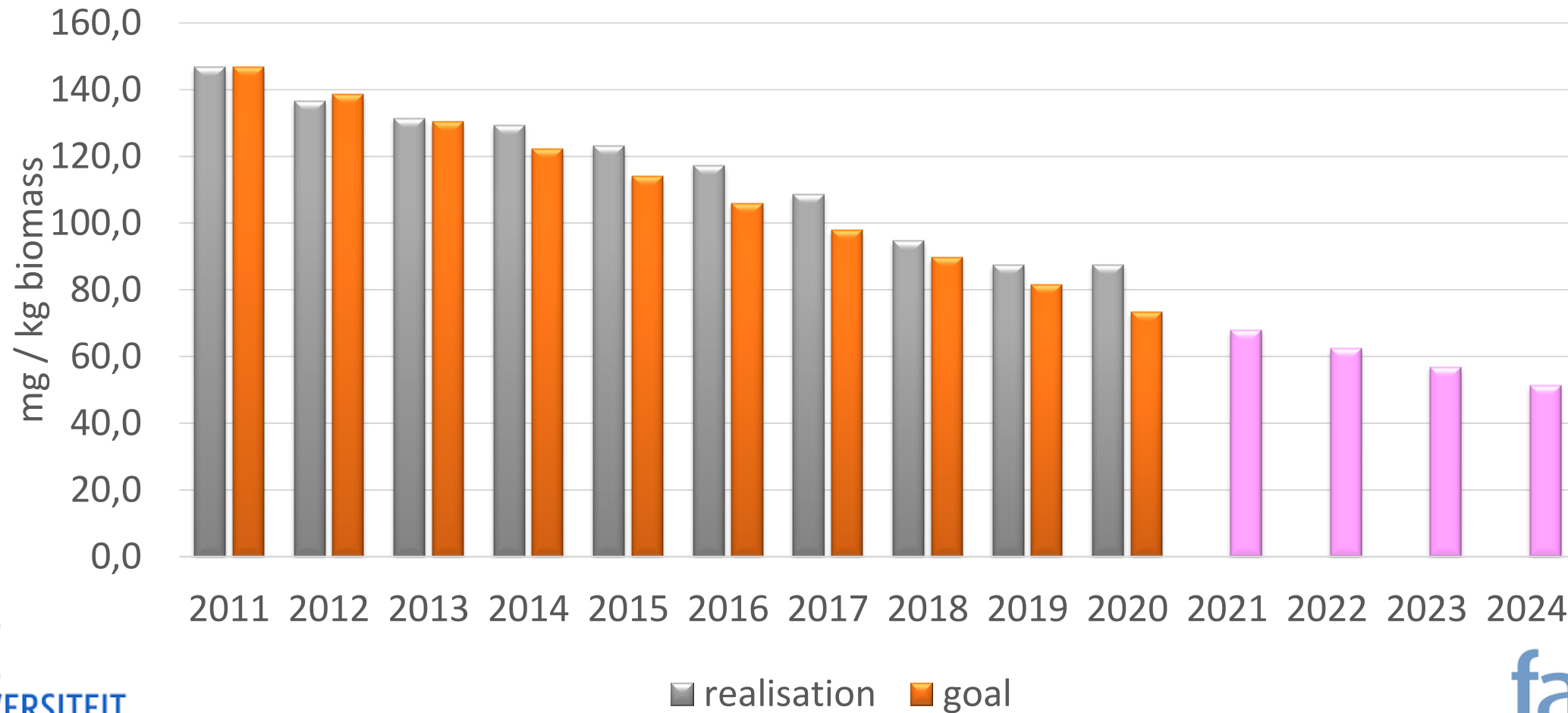
## Evolution of premix consumption in reference to 2011 (AMCRA 2024 plan)



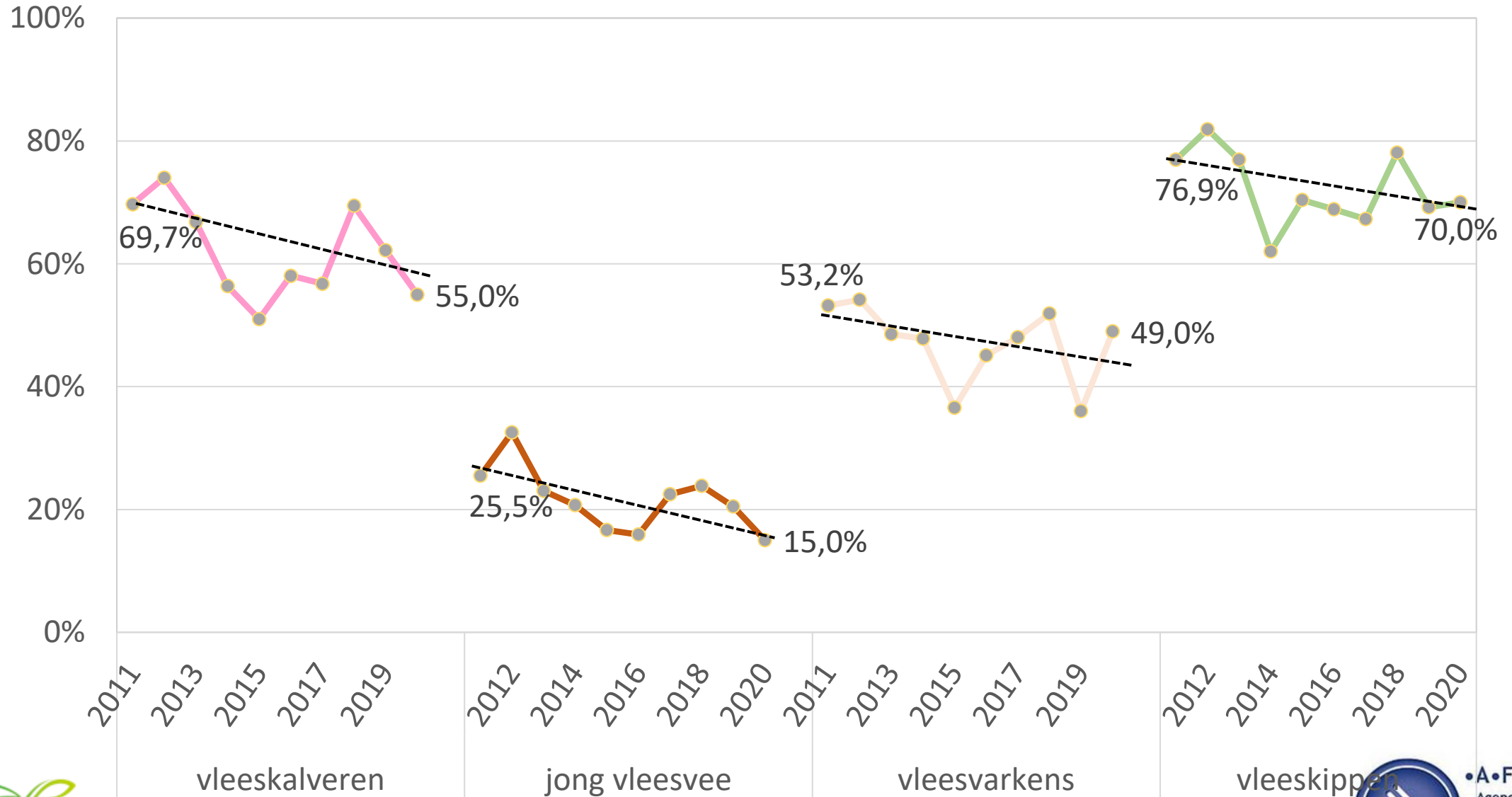
## Evolution total consumption in reference to 2011 (AMCRA 2020 plan)



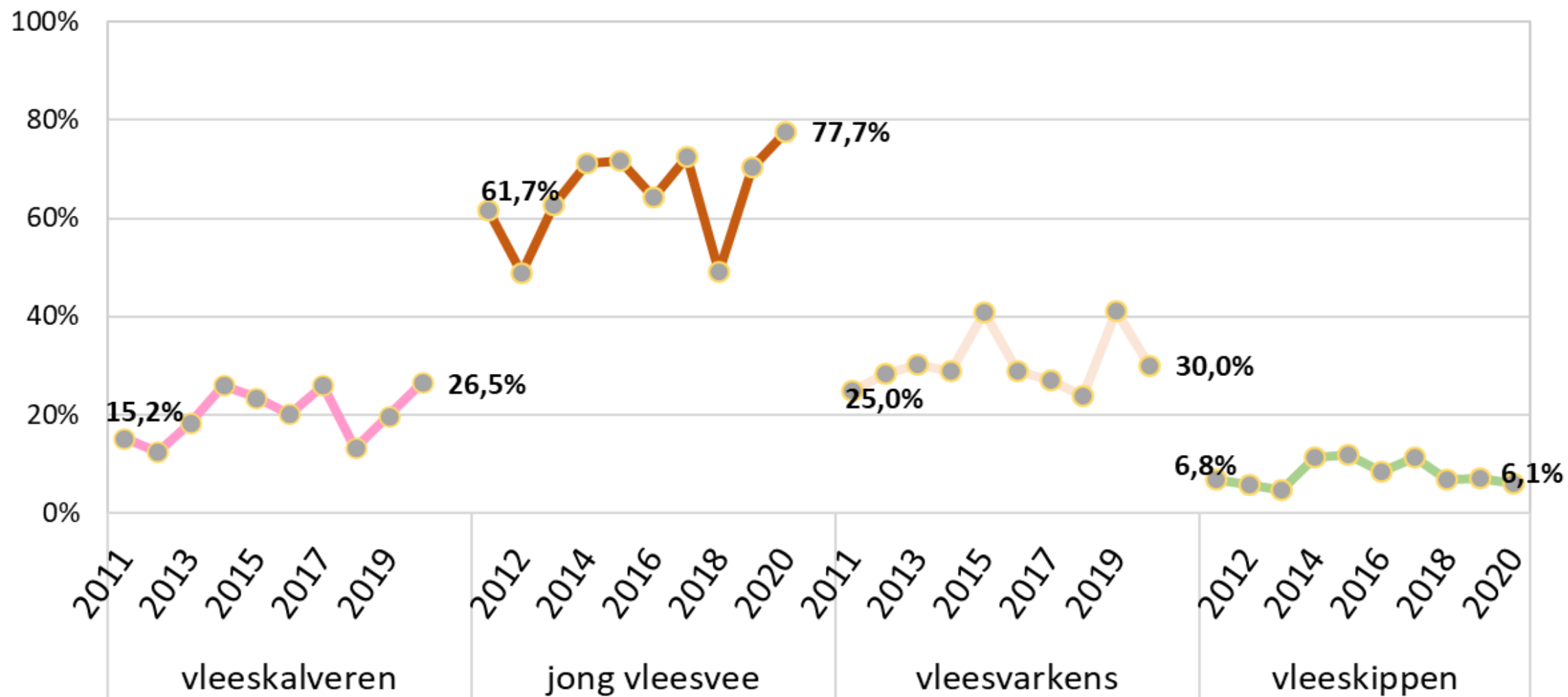
## Evolution total consumption in reference to 2011 (AMCRA 2024 plan)



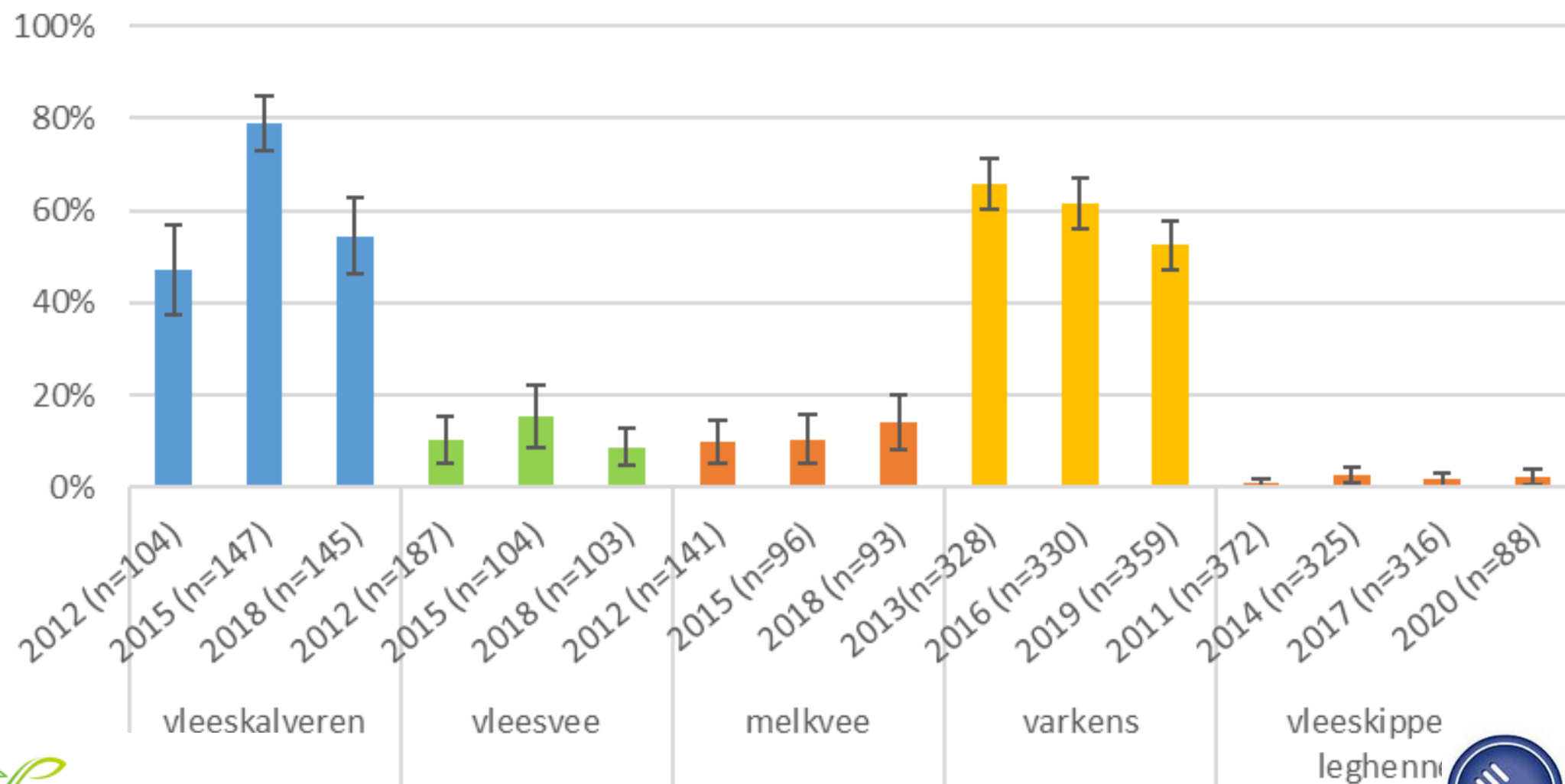
# Multiresistente E. coli bij voedselproducerende diersoorten



## Gevoelige *E. coli* bij voedselproducerende diersoorten



# Prevalentie MRSA bij voedselproducerende diersoorten







Never ever give up!

