Ministry of Food, Agriculture and Fisheries of Denmark
Danish Veterinary and Food Administration

Experience in Communicating AMU Data to Stakeholders.

VetStat

Belgrade 2023

Animal Welfare and Veterinary Medicine Division

Special consultant, PhD. Cand.Agro
Laura Mie Jensen

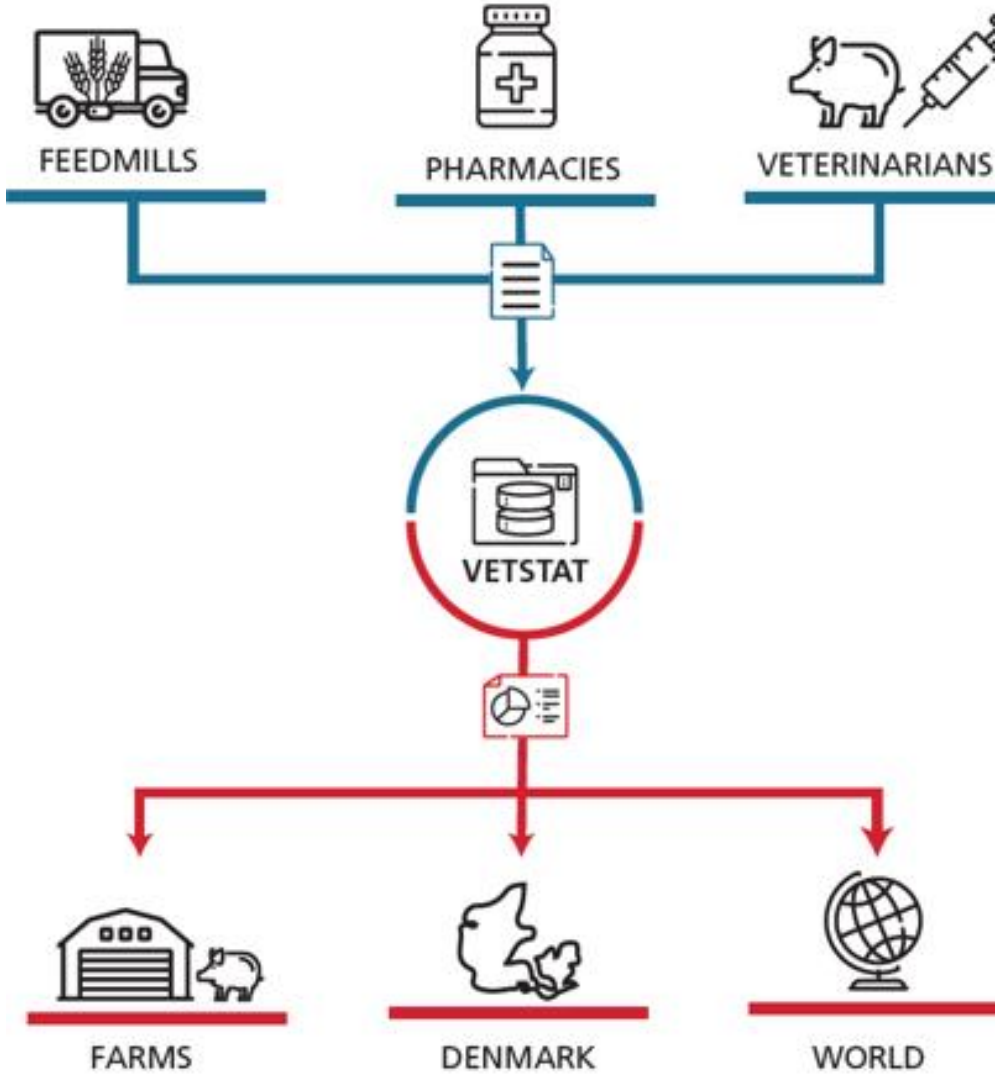
Agenda

- VetStat
  - Use data collection and monitoring

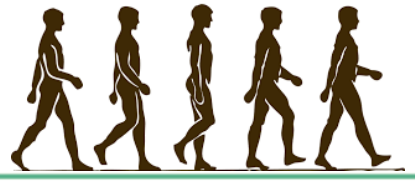
- Data as fundament
  - Farmers and veterinarians
    - Benchmarking of farmers

- Reduction goals driven by data
  - National
  - Industrial

- Reports

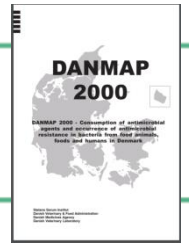


1994
Monitoring of all use for humans



1994
Herd Advisory Contracts
Vet's: No profit on VMP sale

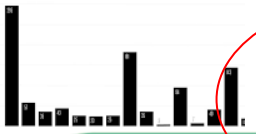
Det Nationale Antibiotikaråd



1995
DANMAP

1995-1999
Industry ban on antimicrobial growth promotors

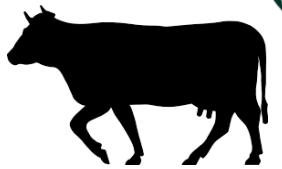
2000
National ban on AGP's



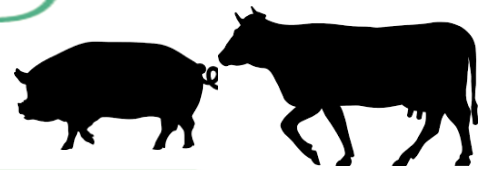
2000
VetStat data collection

2002
Restriction on CIA: fluoroquinolon

2010
Restriction: only simple penicillins for mastitis



2010
Yellow card initiative
Benchmarks for pigs and cattle

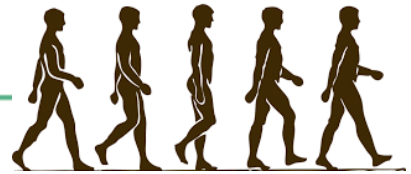


2010
Pig industry ban on CIA: 3rd/4th cephalosporin

2013
Tax on antimicrobials

2016 -2017
New Yellow Card Initiative for pigs - risk of AMR

2017
National One Health Strategy



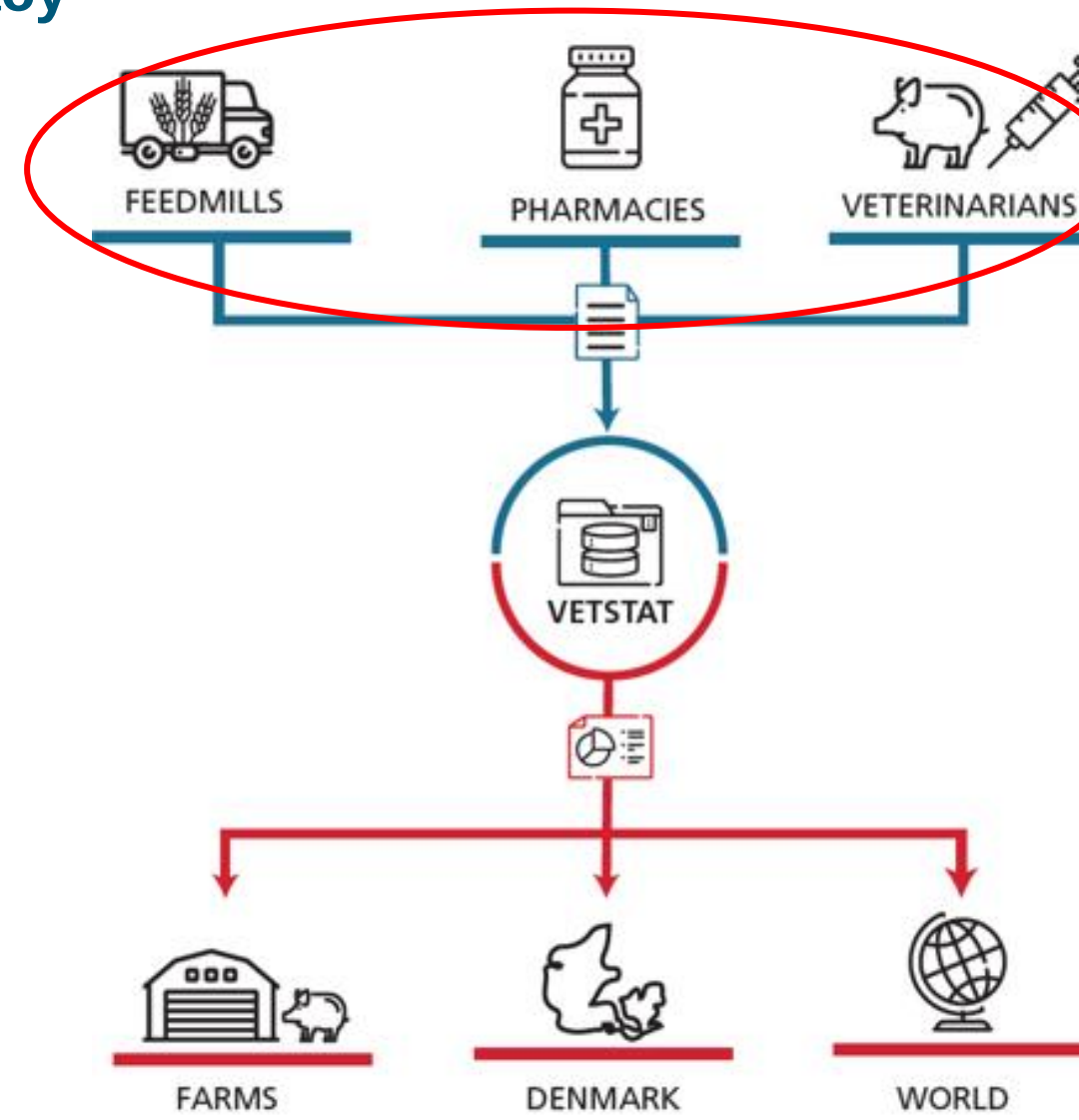
Majority of use data is collected at the pharmacy

Veterinary prescription

- Electronic / paper
- Pharmacy / Feed mill enter data to own system when medicines are sold
- Including most of the information from the prescription
- Send the data on a daily basis to VetStat
- Veterinarians enter data to own system or VetStat if medicines are used or given to farmer

Reporting of information to VetStat

- Vet identification (sender)
- Herd/owner/clinic identification (receiver)
- Product identification and amount
- Species identification and age group (farm animal/pet)
- Disease indication / anatomical group identification



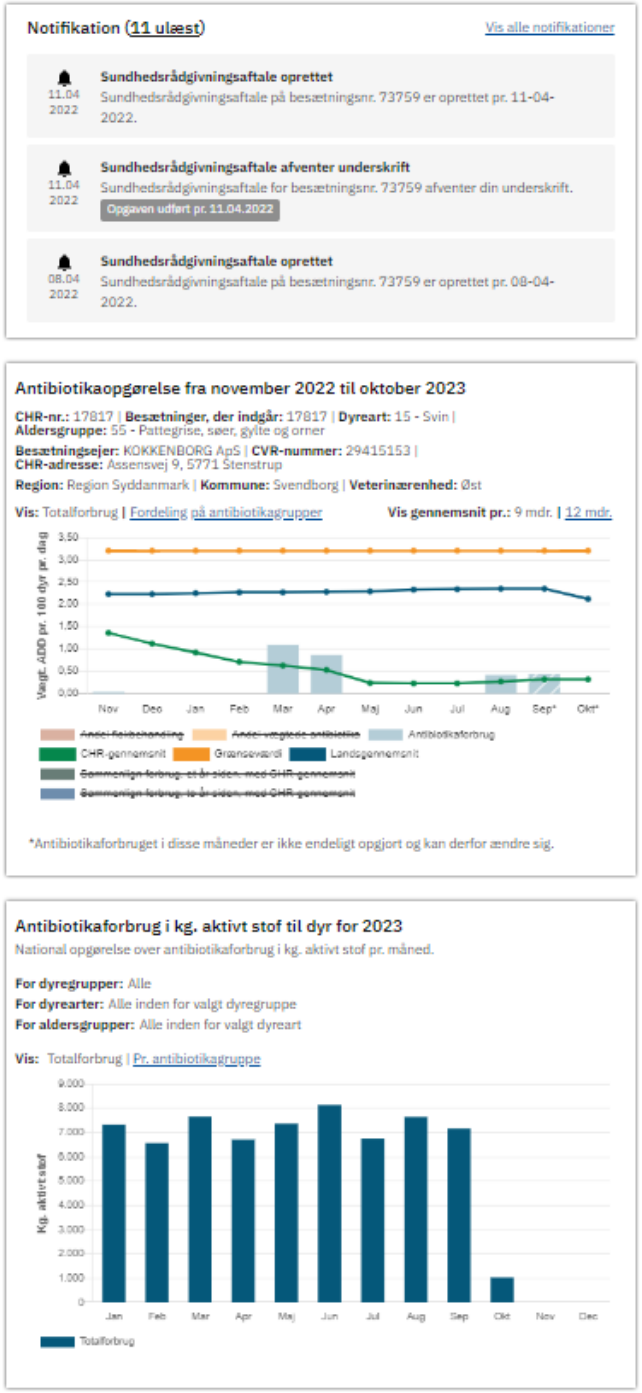
Raw data is available for farmers and veterinarians

Access to the system and to data

- All farmers and veterinarians have access to own data
- They have editorial dashboard with key messages
- Access to all records and graphics
- Access to own and national statistics

Access to environmental data

- VetStat is open for all Danish and European citizens
- Access to all records – anonymized to active compound
- Access to herd and farm statistics
- Access to national statistics



Access to complete data

Complete records regarding prescription medicines form pharmacy, feed mill and vet

Udl. dato	Varenavn	Varenr.	ATC-kode	Aut. nr.	Besnr.	Mængde	Enh.	Dyreart	Aldersgr.	Kilde
11. sep. 2023	Combac E-H...	139639	QI09AB	3164	114539	1.200	ml	15 - Svin	55 - Pattegri...	Apotek
11. sep. 2023	ReproCyc Par...	533561	QI09AA02	3164	114539	2.000	ml	15 - Svin	55 - Pattegri...	Apotek
11. sep. 2023	Coliprotec F4...	480303	QI09AE03	3164	114539	10.000	doser	15 - Svin	55 - Pattegri...	Apotek
11. sep. 2023	Erybac Uno V...	462540	QI09AB03	3164	114539	600	ml	15 - Svin	55 - Pattegri...	Apotek
11. sep. 2023	Enterisol Ileit...	163713	QI09AE04	3164	114539	4.800	doser	15 - Svin	56 - Fravænn...	Apotek

Anonymized into active compound

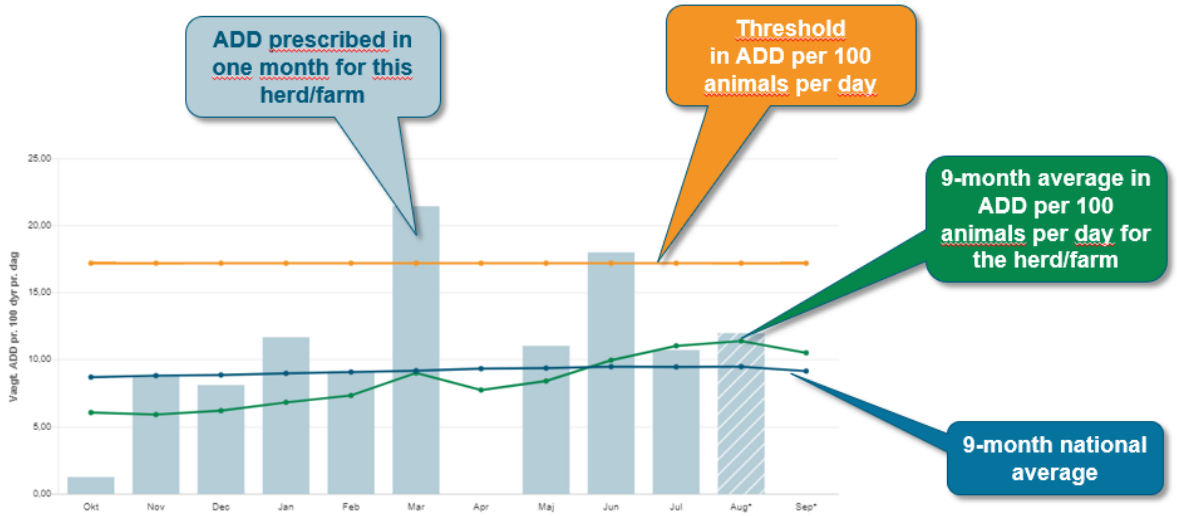
Disp. date	Active ingredient	Herd nr.	Amount	Quant. unit	Animal species	Age gr.
Jun 4, 2021	Ivermectin	114539	2	g	15 - Svin	55 - Pattegrise, søe...
Jun 4, 2021	Procainpenicillin (b...	114539	240	g	15 - Svin	57 - Slagtesvin og ...
Jun 4, 2021	Dihydrostreptomycin	114539	300	g	15 - Svin	57 - Slagtesvin og ...
Jun 15, 2021	Zinkoxid	114539	24.114	kg	15 - Svin	56 - Fravænnede s...

Data download and graphics

National statistics and graphics
- Kg active compound
- Doses

Herd / farm statistics
- Antimicrobial usage (ADD/100 anim./day)
- Pig
- Cattle

- Antimicrobial usage (kg active)
- All other species



Antibioticusage pr. month

Antibioticstatements
Here you can follow the antibiotics consumption calculated pr month for herd or CHR number. Also here you can, by notifying of upcoming changes in limit value or factors, see the effect aswell.

Data extraction for antibiotics consumation in ADD pr 100 animals pr day
Here you can download a selection of data for antibiotics consumption for herd and CHR-numbers calculated in ADD pr. 100 animals pr day

Download PDF with multiple antibiotic statements
Here you can download a PDF with antibiotics statement for multiple herd and/or CHR numbers.

National statements of antibiotic-usage in kg active ingredient

Antibioticusage in kg active ingredient for animals
See statement over usage of antibiotic for animal in kg for active ingredient or download data

Antibioticusage for aquaculture broken down by breeding type
See statments over usage of antibiotic for aquaculture calculated in kg of active indgredient broken down in breeding type or download data

National statements in animaldoses

Antibioticusage calculated in animaldoses (ADD)
See statements over antibioticusage for animals caluclated in animaldoese (ADD) or download data

Vacineusage in doses
See statements over usage of vaccines for animals calculated in animaldoses or downloaddata

Itemlist with infomation about animaldoses (ADD)

Itemlist with animaldoses (ADD)
Here you can download a selection from itemlist with animaldoses (ADD) pr. animal species

Data download and graphics

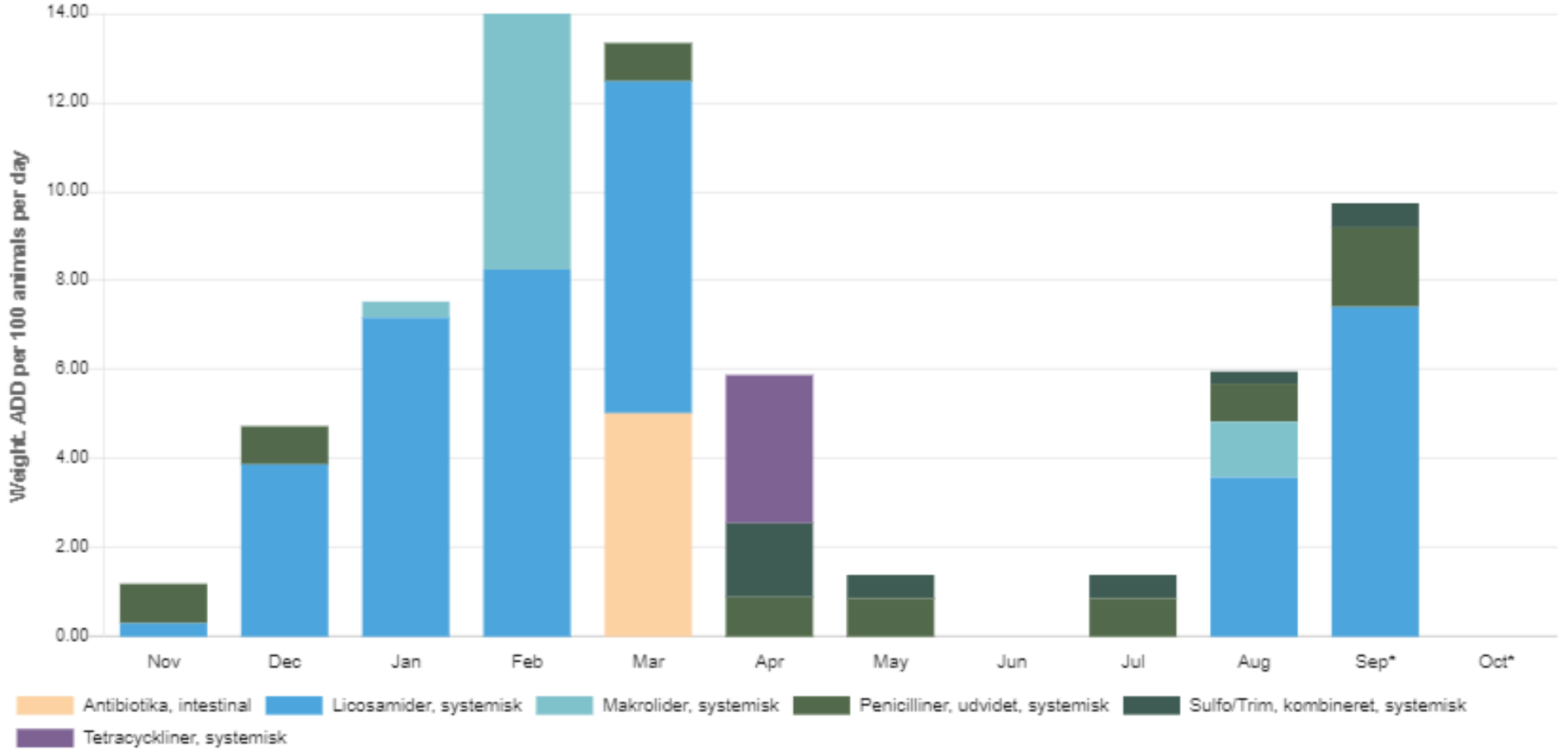
Herd statement | CHR-statement with limit value

Antibiotics statement from november 2022 to october 2023

Save on dashboard

CHR-No.: 114539 | **Herds included :** 114539 | **Species:** 15 - Svin | **Age group:** 56 - Fravænnede smågrise op til 30 kg
Herd owner: KOKKENBORG ApS | **CVR-number:** 29415153 | **CHR-address:** Pavegyden 1 A, 5771 Stenstrup
Region: Region Syddanmark | **Municipality:** Svendborg | **Veterinary unit:** Øst

Show: Total consumption | Distribution on antibiotic groups **Show average per:** 9 months | 12 months



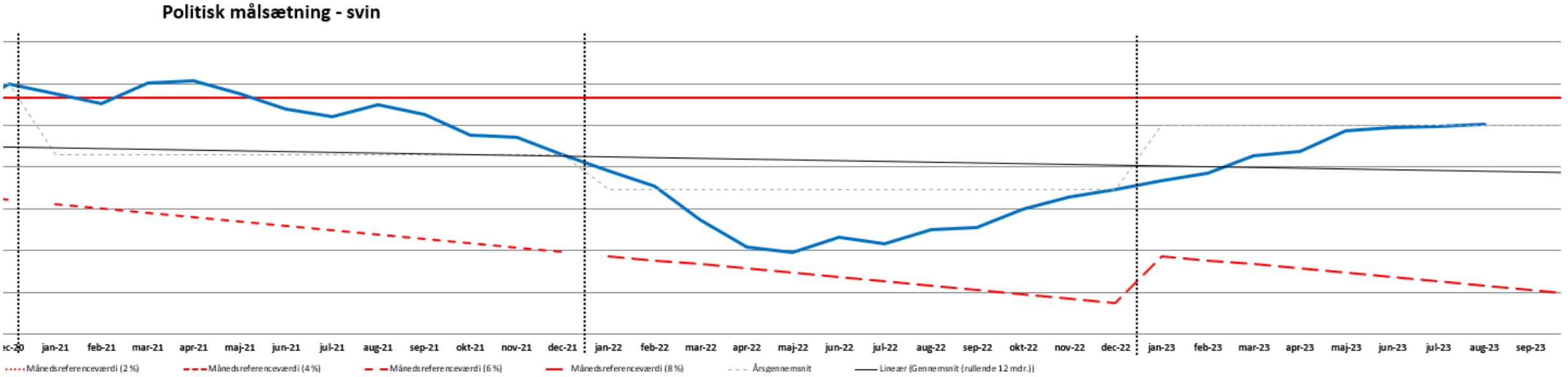
Natio

— **Click here: Table over antibiotics consumed in kg active ingredient for 2023* pr. month.**

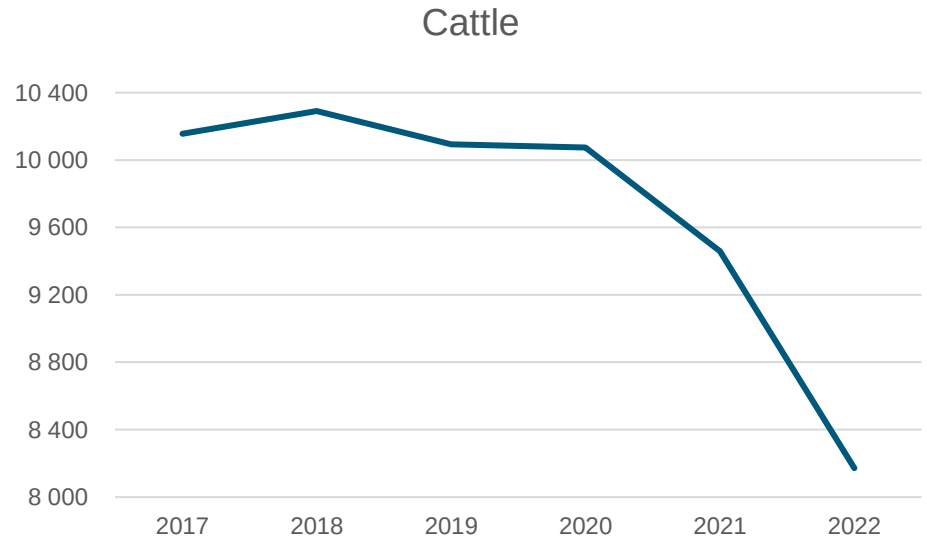
Antibiotics gr.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. gen cepha...	4.7	4.3	4.4	4.1	4.4	5	5.5	6.1	0.42	0.25			39
1. gen. Ceph...	5.3	4.8	4.3	3.7	4.4	4.2	3.9	4.3	3.9	2.6			41
3. gen cepha...	0.06	0.07	0.11	0.06	0.07	0.09	0.07	0.07	0.01	0.01			0.61
Amfenikoler,...	146	131	146	114	149	118	109	139	155	101			1,307
Aminoglykosi...	0.35	0.25	0.23	0.37	0.28	0.3	0.54	0.78	0.51	0.54			4.1
Andet antibi...	0.49	0.48	0.55	0.55	0.72	0.67	0.58	0.59	0.42	0.34			5.4
Andre aminog...	1.7	2.2	2.3	2	2.5	2.9	2.6	2.7	0.69	0.83			20
Andre antibi...	0.35	0.33	0.33	0.3	0.38	0.44	0.5	0.49	0.06	0.04			3.2
Andre antibi...	0.06	0.03	0.03	0.02	0.07	0.05	0.02	0.02	0	0			0.3
Andre kinolo...	3.8	21	18	48	64	129	59	136	16	2.6			497
Antibiotika,...	1,312	1,281	1,436	1,240	1,396	1,339	1,171	1,310	1,257	731			12,473
Antibiotika,...	2.5	2	2.5	2	2.3	2.5	2.5	2.8	0.33	0.25			20
Antibiotika,...	423	376	435	378	402	423	348	413	416	270			3,885
Antibiotika,...	0.14	0.11	0.21	0.12	0.12	0.23	0.15	0.19	0.02	0.01			1.3
Fluorokinolo...	1.1	1	1.1	0.99	1.3	1.3	1.2	1.3	0.4	0.13			9.9
Licosamider,...	338	284	356	311	342	361	295	369	325	226			3,207
Makrolider, ...	1,012	877	1,123	921	967	991	888	1,010	921	634			9,342
Nitromidazol...	2.3	2.1	3.1	2.5	2.8	2.3	2.8	2.1	0.17	0.11			20
Penicilliner...	-0.27	4.4	7.3	5.5	10	9.5	8.8	11	11	6.4			74
Penicilliner...	36	28	36	32	32	98	99	116	93	65			635
Penicilliner...	12	11	13	9.7	11	12	15	16	13	6.8			120
Penicilliner...	1,154	1,051	1,179	1,044	1,102	1,135	1,093	1,284	1,157	794			10,993
Penicilliner...	16	14	12	12	14	13	13	13	12	8.8			128
Penicilliner...	663	531	669	585	649	584	588	631	618	433			5,952
Pleuromutili...	569	500	586	489	579	690	484	536	561	309			5,303
Sulfo/Trim, ...	565	535	592	560	639	1,207	610	617	613	393			6,331
Sulfonamider...	1.2	0.94	1.2	0.91	1.2	1.2	1.1	1.2	0.03	0.03			8.8
Tetracycklin...	1,044	892	1,021	938	972	994	931	1,008	983	640			9,425
Tetracycklin...	12	10	11	11	11	12	12	14	14	9.2			117
Total	**7,327**	**6,565**	**7,660**	**6,715**	**7,359**	**8,137**	**6,745**	**7,646**	**7,171**	**4,635**	**0**	**0**	**69,962**

Reduction targets

Political target - Pigs



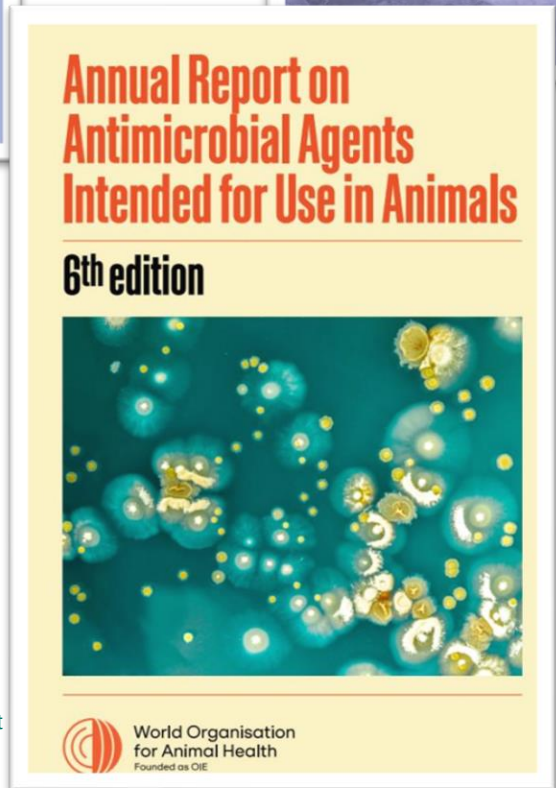
Industrial target - Cattle

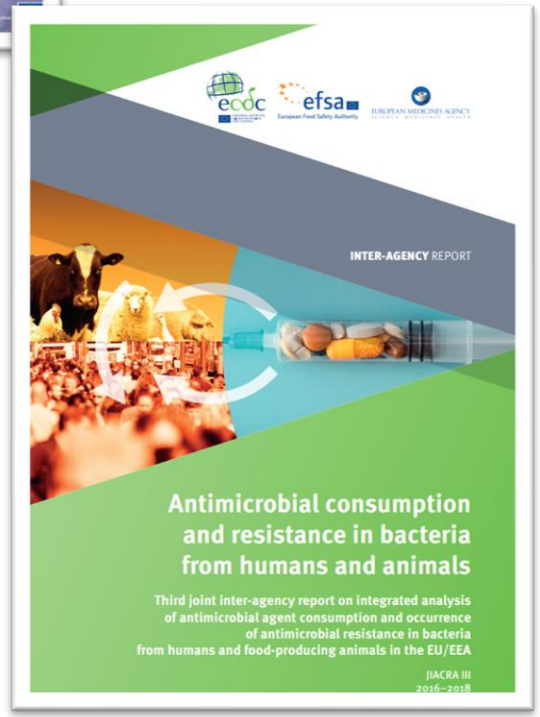


Reports

National
- **DANMAP**

International
- **ESVAC / ASU**
- **JIACRA – through ESVAC**
- **WOAH**





Time for questions ☺