Ministry of Food, Agriculture and Fisheries of Denmark

Danish Veterinary and Food Administration

Collecting use data

- Denmark as an example

- Update on the ASU-project

Glostrup, Denmark 2021

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Agenda

- **VetStat – the Danish tool**

  - **Data input - Use**
    - **Pharmacy and feed mill**
    - **Veterinarian use/hand out on farm**

  - **Benchmarking as a tool**

  - **Reporting to EMA - ASU**

- **ASU – the new European tool**

  - **Purpose of the project**
    - **Collection of sales and use**

  - **Update on progress**
    - **Database development**

VetStat
Collecting sales (for now) – <u>Collecting USE (after VMP)</u>

1999: The idea of VetStat was developed

2000: First data was reported into VetStat

2000-2011: VetStat was managed by Danish Technical University

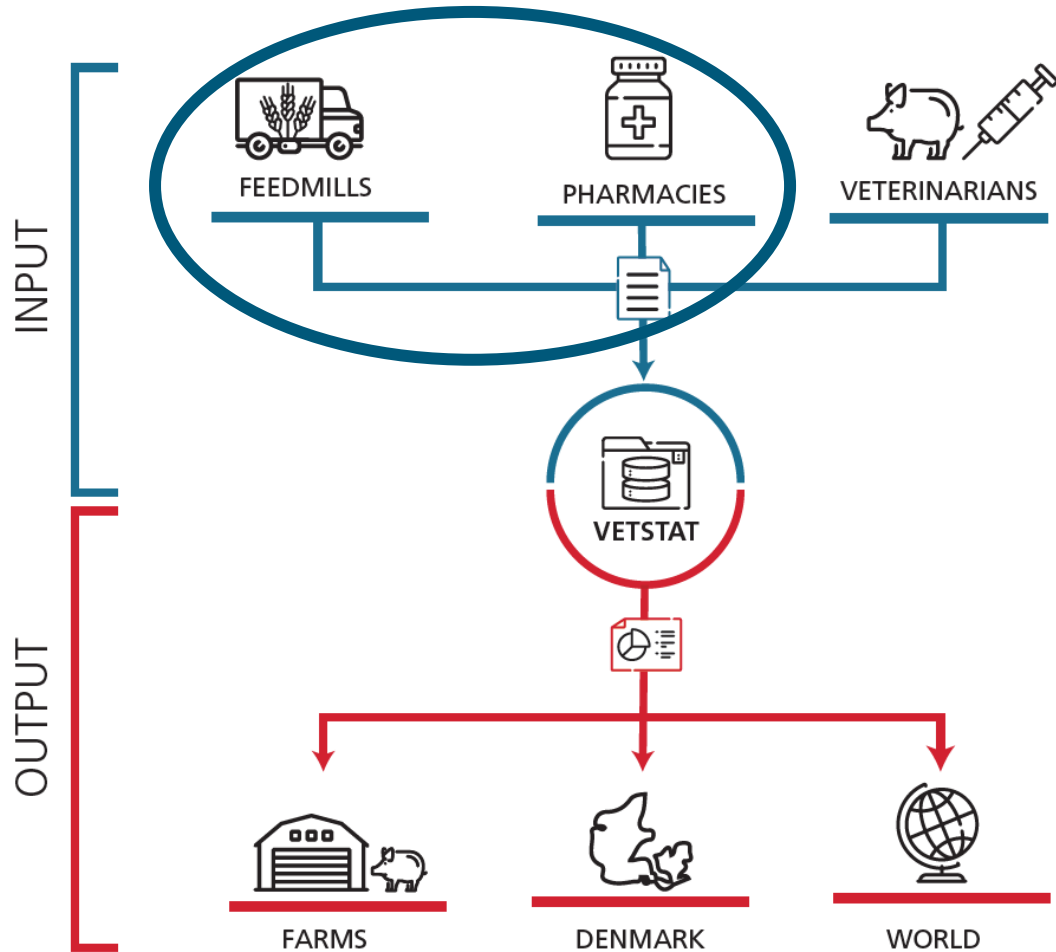**~2010 VetStat became publicly avaliable based on legal decision**

2011-now: VetStat is managed by DVFA

2018-2021: VetStat was modernised – direct public avaliablety (E-logon)

**2021 - : Collecting use data at herd level
– animal species are included based on stepwise approach**

VetStat – The Danish database collecting 'use' of veterinary AM products

FEEDMILLS   PHARMACIES   VETERINARIANS

INPUT

VETSTAT

OUTPUT

FARMS   DENMARK   WORLD

DATA INPUT – 'Use' data

98% of all veterinary antimicrobial products are distributed through the pharmacy

2% is distributed through feed mills
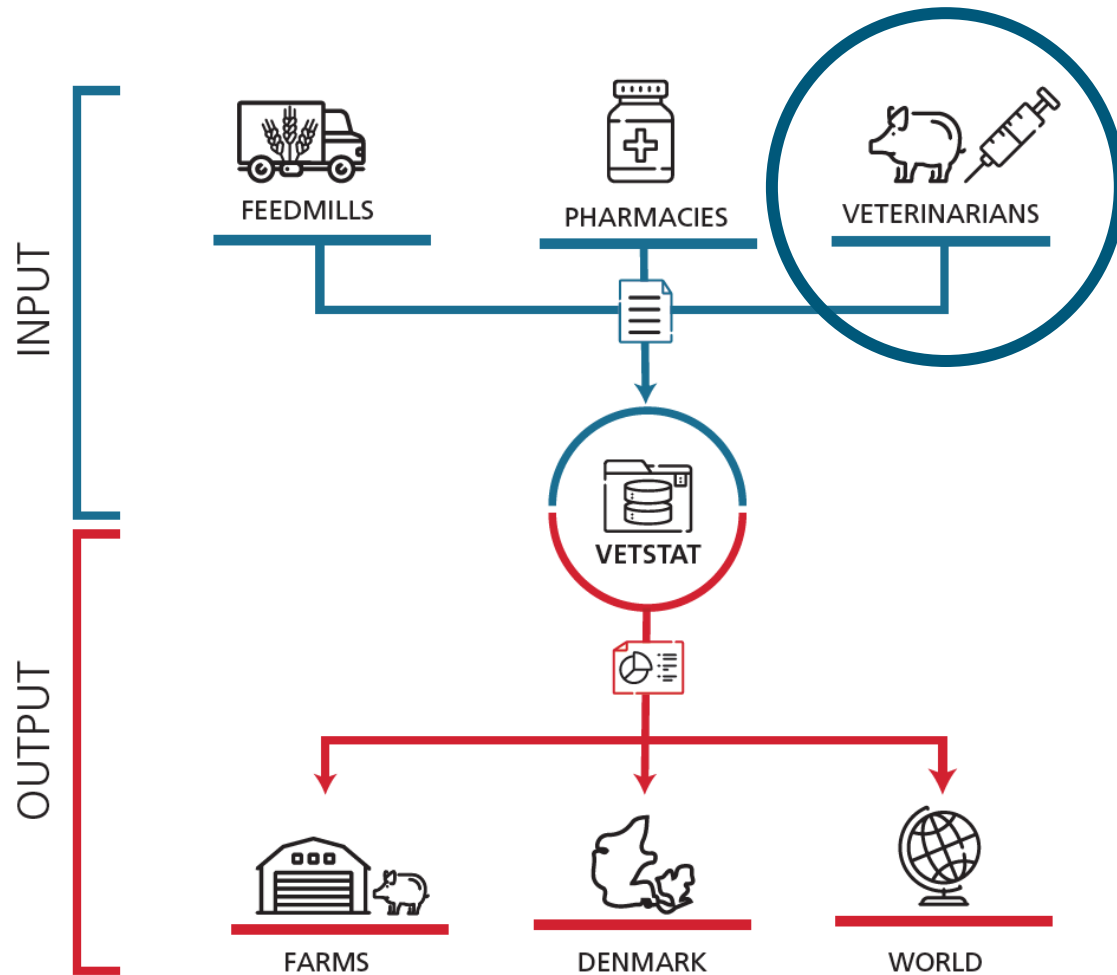
Distribution from **pharmacy**
94% of distribution from pharmacies goes directly to the **farmer** – therefore it is collected as **use data**

6% of distribution from pharmacies goes to the **veterinarian** for use in practice

Distribution from **Feed mill**
100% of distribution from feed mills goes directly to the **farmer** – therefore it is collected as **use data**

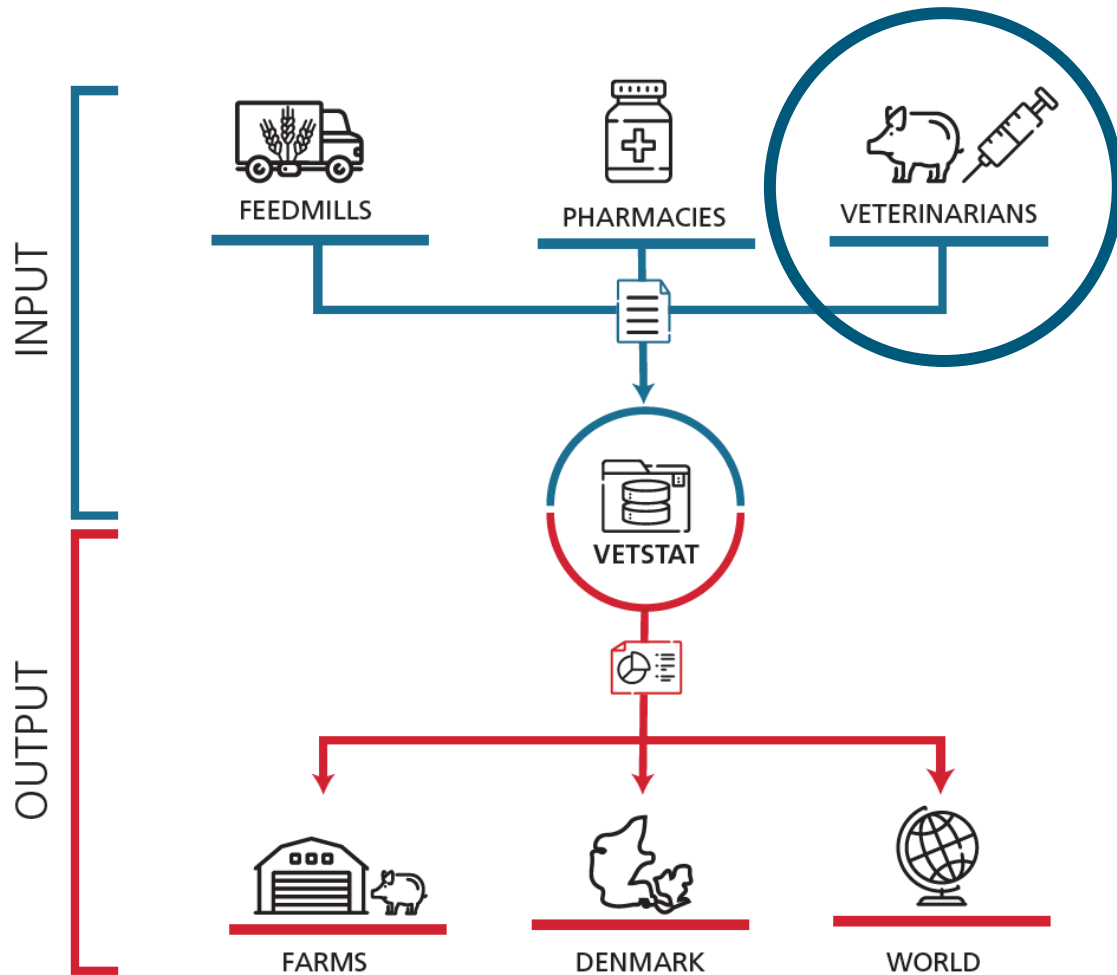# VetStat – Data input from Veterinarians

All distribution of medicinal products from pharmacies, for veterinary use in practice, are reported in to VetStat.

If **veterinarians** use VMP for production animals – the Veterinarian has to report the use in to VetStat

Medicinal product (*number, name, amount, unit*)

Herd identification (*number*)

Animal details (*species, age group, disease group*)

Use for all other animals (not production animals) is included in to VetStat in accordance with the stepwise approach

VetStat – Data input from Veterinarians

Veterinarians report use/hand out of veterinary medical products used for production animals
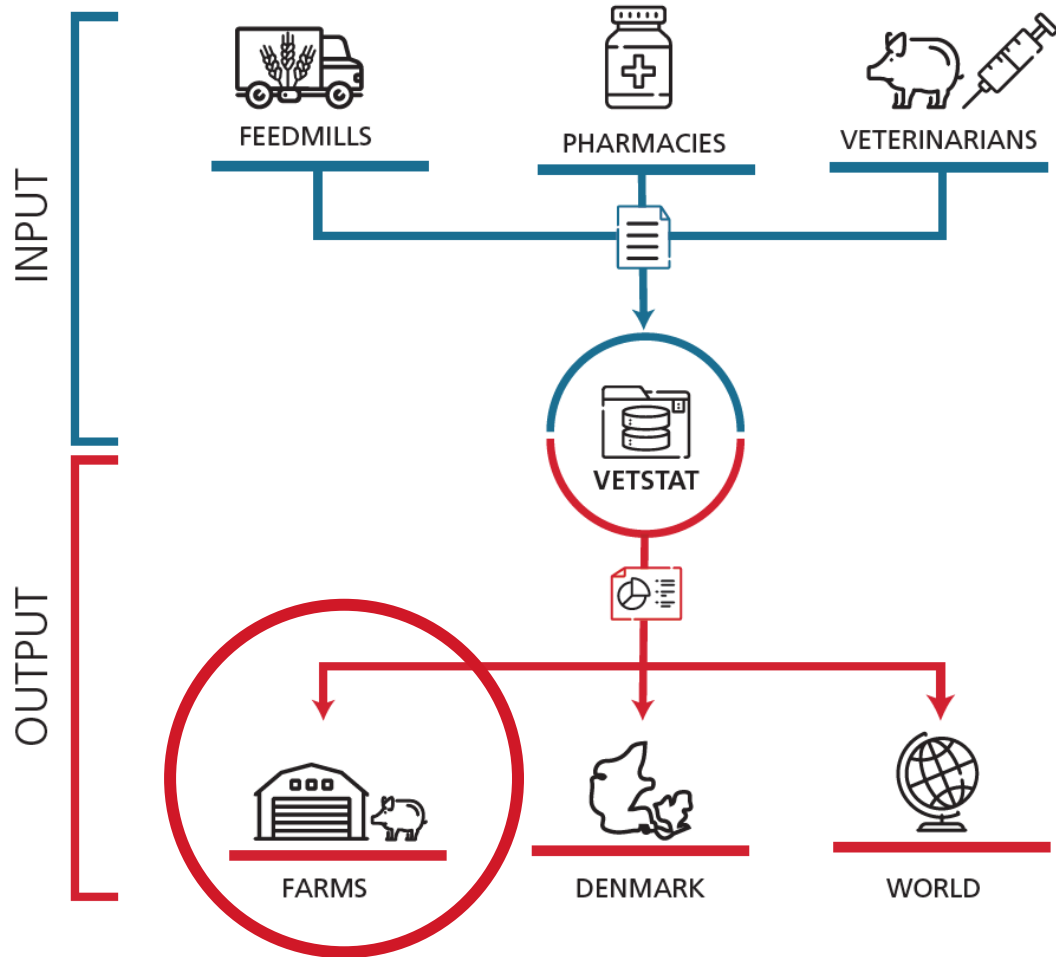
1) Directly in VetStat	2) Through Practice management systems

1. Report data directly into VetStat through:
- Web page - typing in each record
- File upload – template available on web page

2. Report data in-directly into VetStat through:
- Practice management system (billing system/log book)

Data flows through the farmers organization

Deadline for reporting of use/hand out is the 10th of the following month

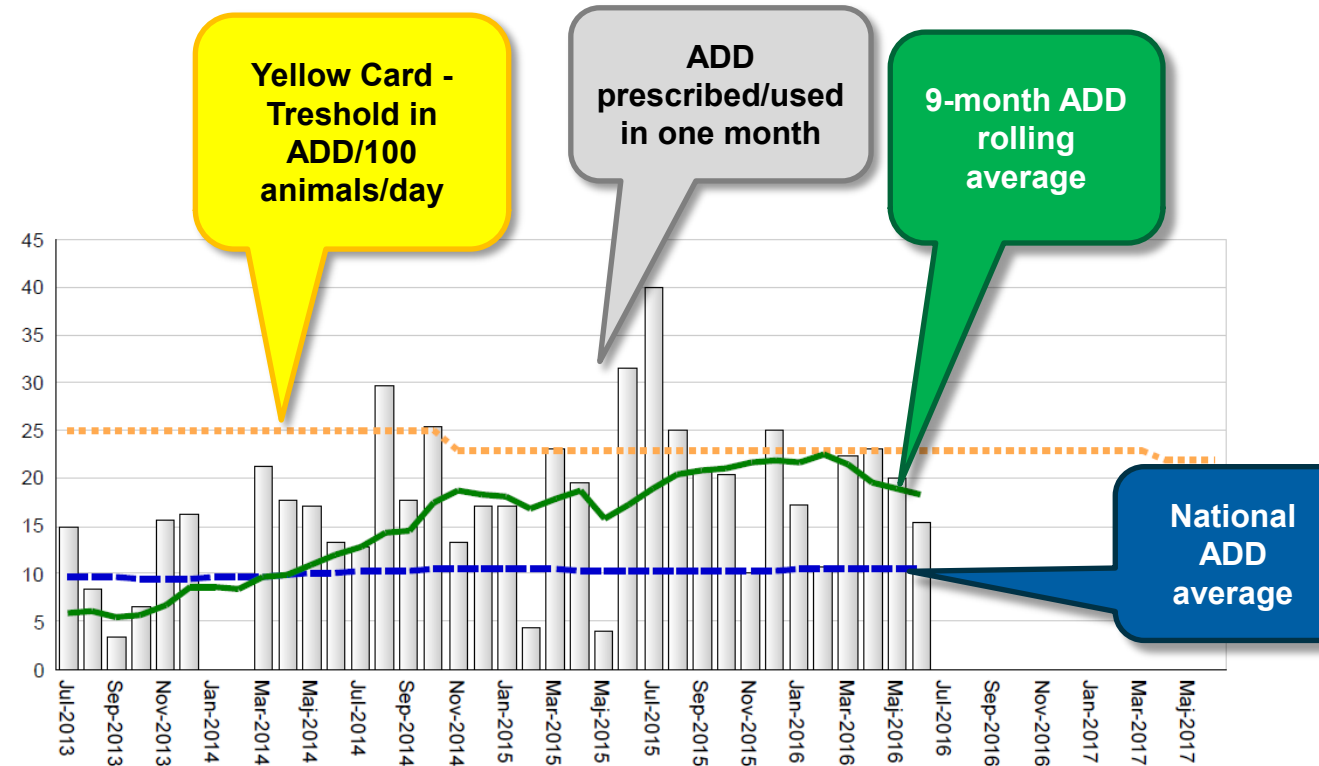# Use of data – Benchmarking of farms (*perhaps veterinarians?*)

Tresholds for pigs - 2021:

Sows and piglets - **3.2** ADD/100 animals/day

Weaner pigs – **17.2** ADD/100 animal/day

Slaughter pigs – **4.4** ADD/100 animal/day

Yellow Card - Treshold in ADD/100 animals/day

ADD prescribed/used in one month

9-month ADD rolling average

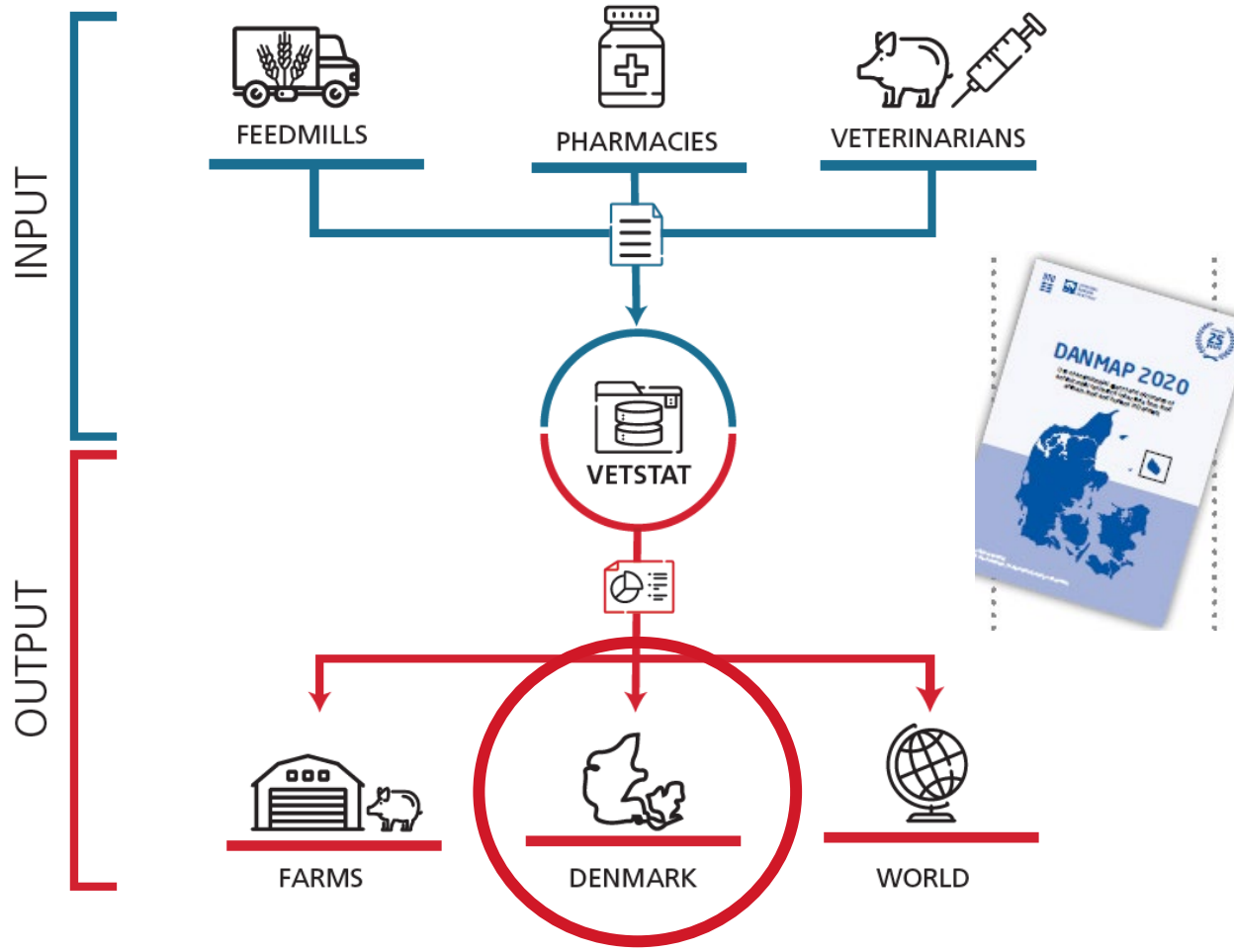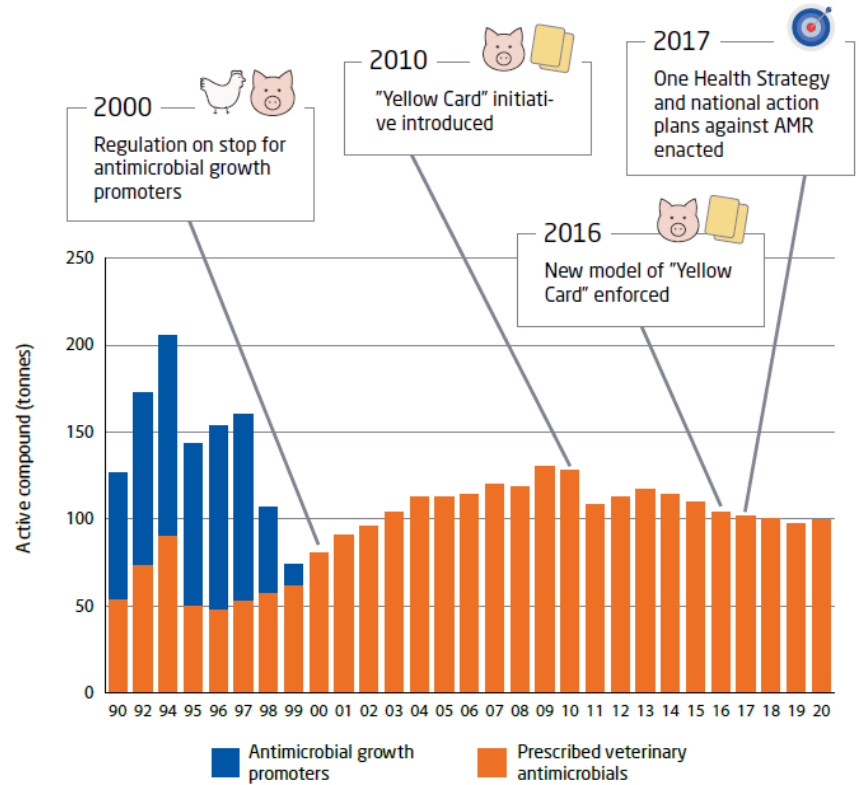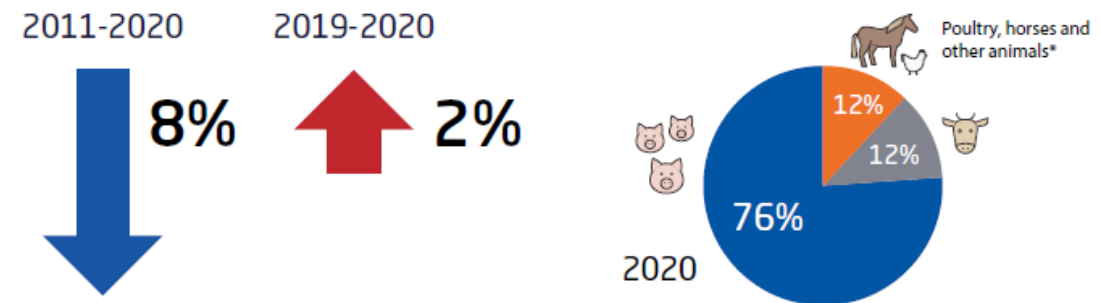National ADD average

Classified as public

Use of data – National report - DANMAP

Figure 2.1 Antimicrobial consumption and important initiatives to reduce antimicrobial use in animals, Denmark, 1990-2020

2000 Regulation on stop for antimicrobial growth promoters

2010 "Yellow Card" initiative introduced

2017 One Health Strategy and national action plans against AMR enacted

2016 New model of "Yellow Card" enforced

Active compound (tonnes)

Antimicrobial growth promoters

Prescribed veterinary antimicrobials

SUMMARY • DANMAP 2020 | 9

Figure 2.2 Changes in overall antmicrobial use in animals and distribution (%) of antimicrobial consumption by main animal species, Denmark
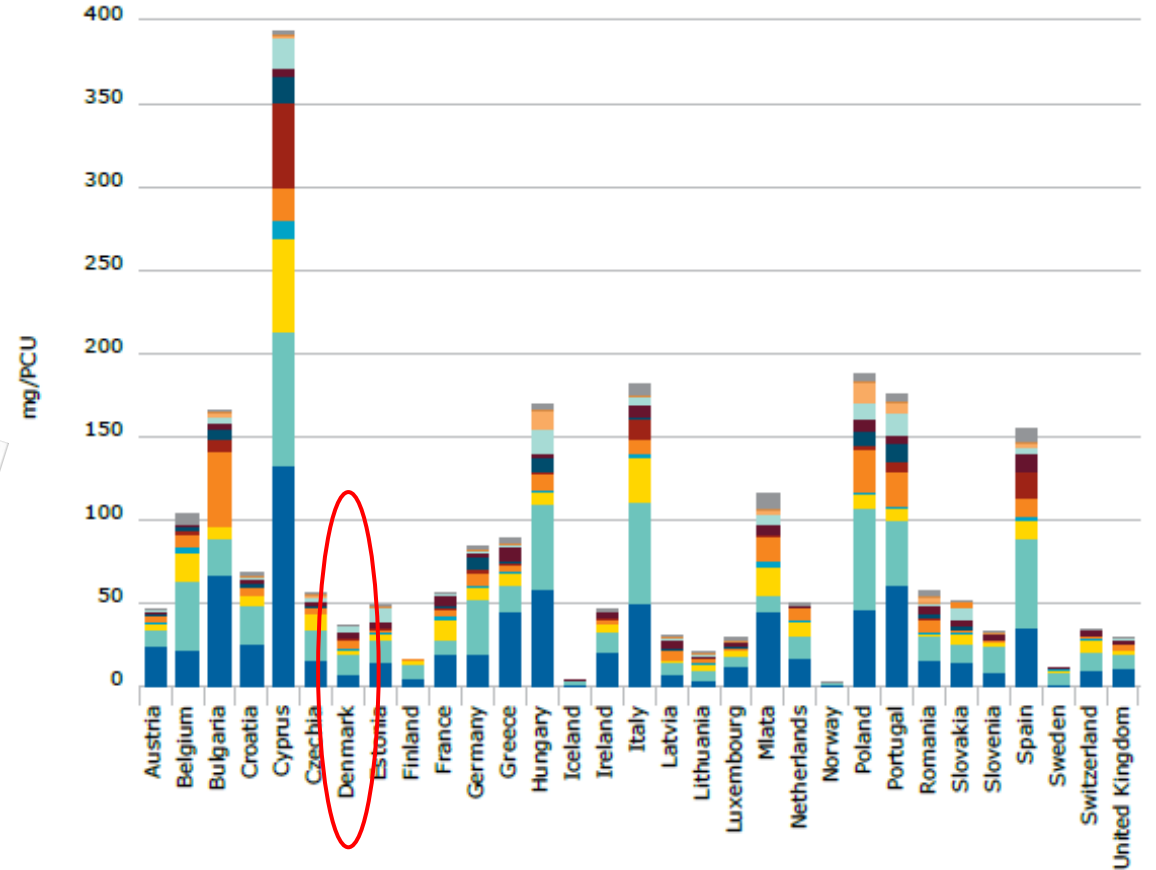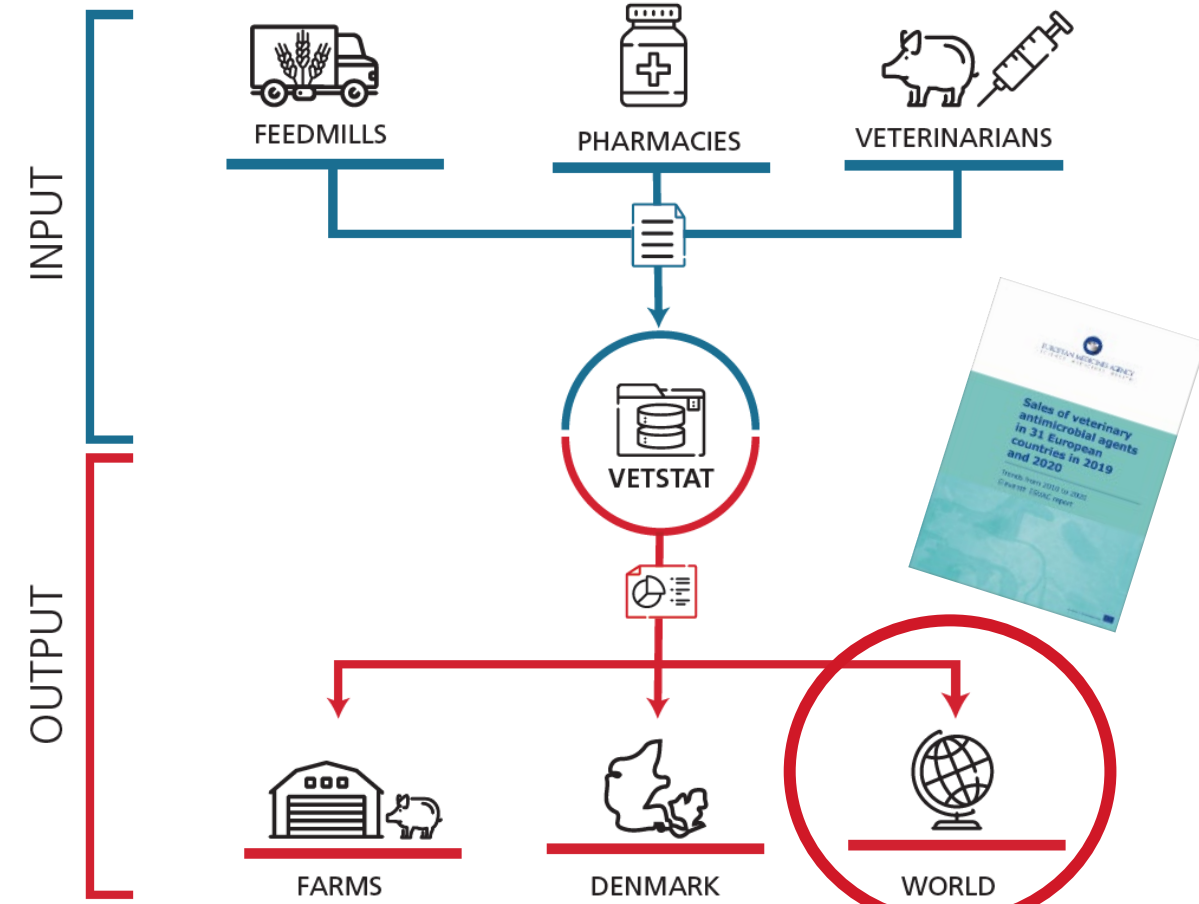
2011-2020 8%

2019-2020 2%

Poultry, horses and other animals*

2020

12% 12% 76%

* Other animals include fur animals, aquaculture and pets

Use of data – ESVAC/ASU and OIE

Figure 2. Sales for food-producing animals, in mg/PCU, of the various antimicrobial classes, for 31 European countries, in 2020[1]

* 'Other classes' includes amphenicols, cephalosporins, other quinolones and 'Others'.
[1] Differences between countries can be partly explained by differences in animal demographics, occurrence of bacterial diseases, selection of antimicrobial agents, dosage regimes, types of data source, and veterinarians' prescribing habits.

Country	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Trends 2010-2020
Denmark	47.1	42.1	43.7	44.5	43.8	41.8	40.4	38.9	37.8	37.1	37.2	

Antimicrobial Sales and Use Project Group (ASU PG)

Development of a web interface

Collection of data on antimicrobials in animals – *Article 57*

Mandatory collection of **comparable data** on the **volume of sales** and the **use** of **antimicrobials per animal species**.

MSs are responsible for collecting data on the sales and use of antimicrobials used in animals **and reporting them** to the Agency.

The Agency is tasked to **analyse** those data and **publish** an annual report.
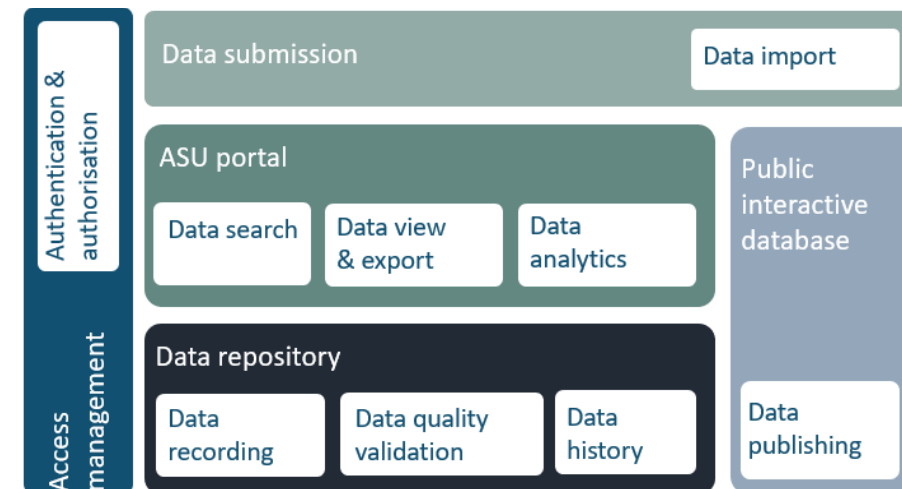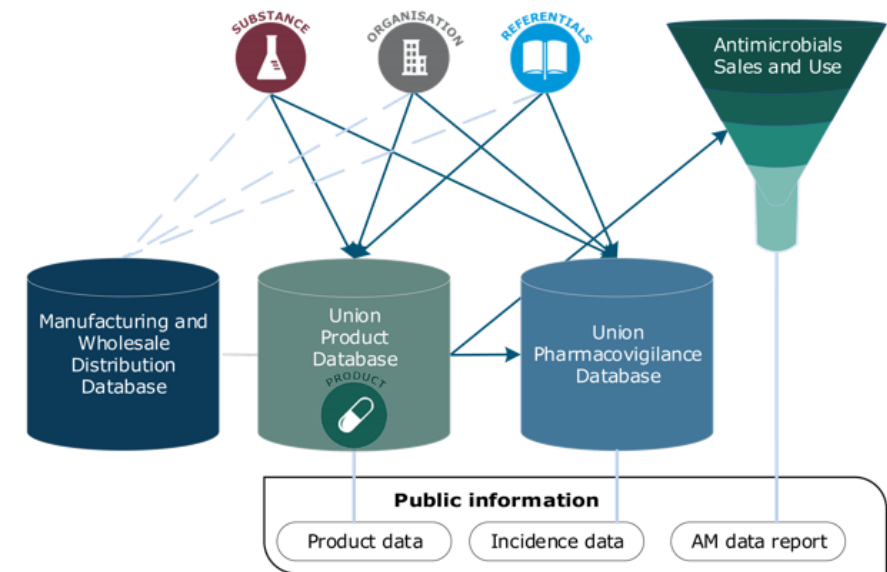
Article 10 (1) of Commission Delegated Regulation (EU) 2021/578

The Agency shall develop and maintain a **web interface** allowing Member States, by electronic means and in a timely manner, to:

a) **report** to the Agency their collated data on the volume of sales of veterinary antimicrobial medicinal products and their data on the use of antimicrobial medicinal products in animals per animal species;

(b) receive instant **data quality preliminary assessments**, based on automated data entry checks upon reporting their data;

(c) provide any **amendments** to the data reported that are necessary to eliminate data gaps, errors and inconsistencies;

(d) **verify** and **validate** relevant **animal population data** gathered by the Agency and where necessary amend these data, as referred to in Article 16(5)

ASU project: IT system overview

- Provide an environment for MSs to submit data in a standardised format

- Support harmonisation and data quality

- Avoid duplication of data input across systems; ensure a single source of information

- Reduce administrative burden

- Improve User Interface and Experience

- Provide a central point of information to all Member States, through controlled access

- Provide an interactive public database and support data analytics

Newsletter and contacts

- VMP-Reg programme bi-monthly **newsletter**:

  - Next issue: November 2021
  - Register by emailing
    vetchange.programme@ema.europa.eu