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## Reduction of antibiotic usage

## Not a new thing – started 20 years ago Legislation and industry initiatives

- Laws
- Voluntary bans

### Focus on animal health many years before that

- Pigs
  - SPF-system for pigs 1968



## **Industry initiatives**

#### AGP's

- Voluntary stop finishers 1998
- Voluntary total stop 2000

### **Cephalosporins**

- 2010 voluntary stop for 3. and 4. generation cephalosporins in the pig production
- Not used for Danish broilers
- Reduced use cattle

### Very restricted use of fluoroquinolones

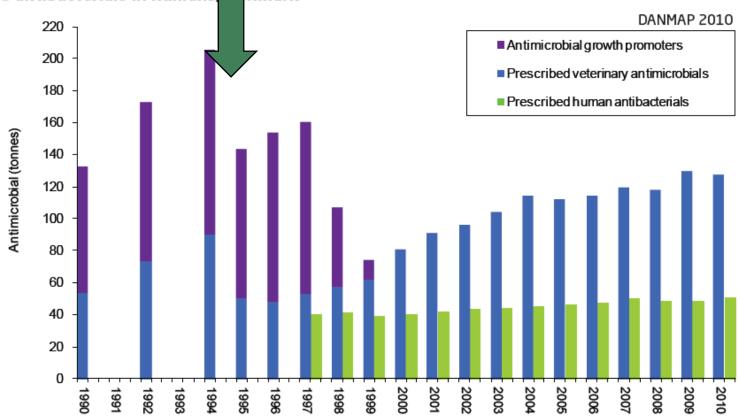
Law, but strongly supported by the industry

## **SPF** system



## Ban on generics Separation of sales and advice

Figure AP1.1. Consumption of antimicrobial agents and growth promoters in animal production and prescribed antibacterials in humans





# Separation of advise from sale of antibiotics – ban of sale of generics Pigs

Vet not allowed to sell antibiotics (except for 5 days emergency treatment)

Health advisory contract between producer and vet

- Vet writes prescription to producer
- Pharmacy delivers the product
- Producer can keep antibiotics for 35 days

Removes incentive for prescribing too much

Changes focus to management and prevention



## **Benefits**

Removes incentive for overuse

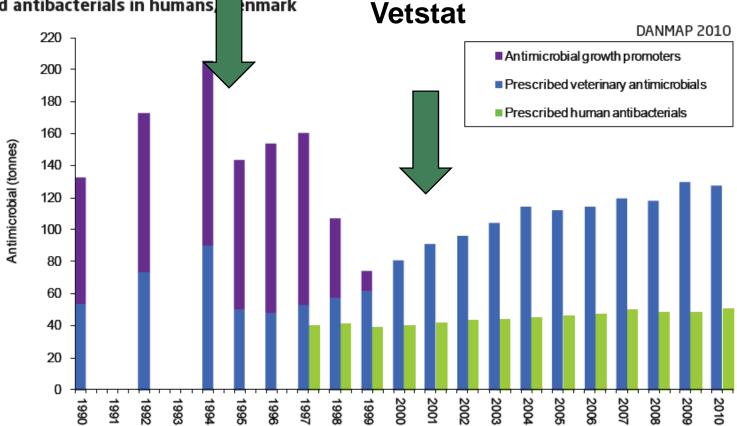
Transparent pricing of advise and medicine

Farmers organisations and veterinary organisation supported the change



## Ban on generics Separation of sales and advice

Figure AP1.1. Consumption of antimicrobial agents and growth promoters in animal production and prescribed antibacterials in humans mark

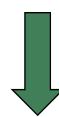




## **Vetstat**

Vet

Producer



Medicin

**Pharmacy** 

Data

**Vetstat** 

**Veterinary and Food Adminstration** 



## **Effect of Vetstat**

#### Statistics on antibiotics (and all other medicines)

- On country level
- On type of production-level
- On farm level
- On vet-level

### No direct effect on usage

• But necessary for the yellow card initiative



Figure AP1.1. Consumption of antimicrobial agents and growth promoters in animal production and prescribed antibacterials in humans, Denmark

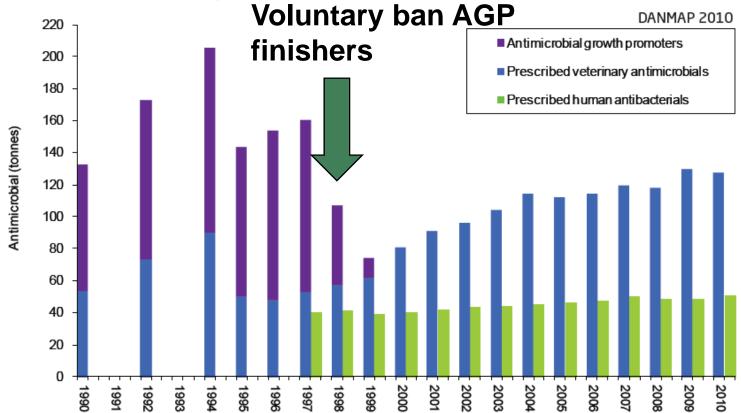
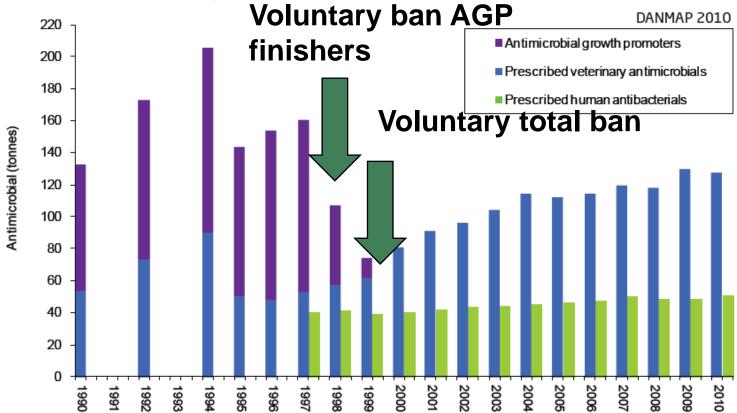




Figure AP1.1. Consumption of antimicrobial agents and growth promoters in animal production and prescribed antibacterials in humans, Denmark





## 2010 Yellow card initiative

Herds with more than double the average consumption

ADD – Animal daily doses

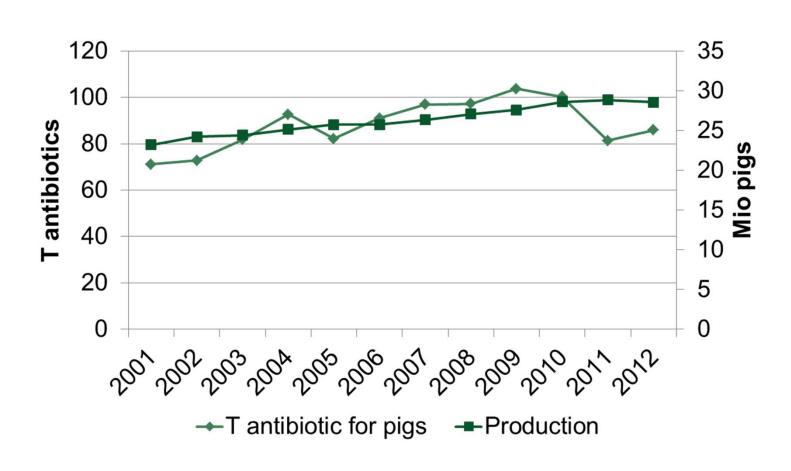
Placed under extra supervision

#### If not successful in reduction

- Second opinion visit
- Other restrictions can be inforced reduction of production level



## Antibiotic usage in the pig production from 2001 to 2011





## Critically important antibiotics

#### **Restrictions on fluoroquinolones**

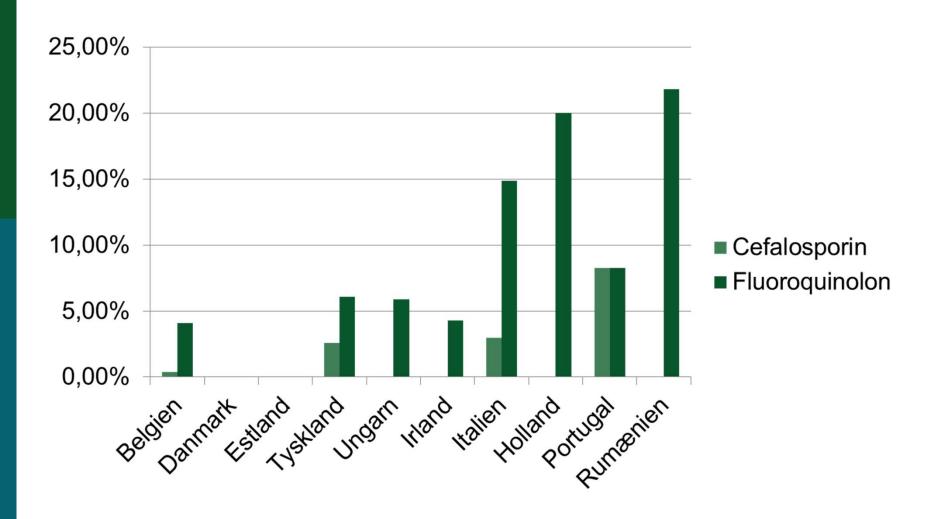
• Only for very specific indications – less than 1 kg pr year

#### Voluntary ban on cephalosporins for pigs

• Only for very specific indications – 1.3 kg in 2011

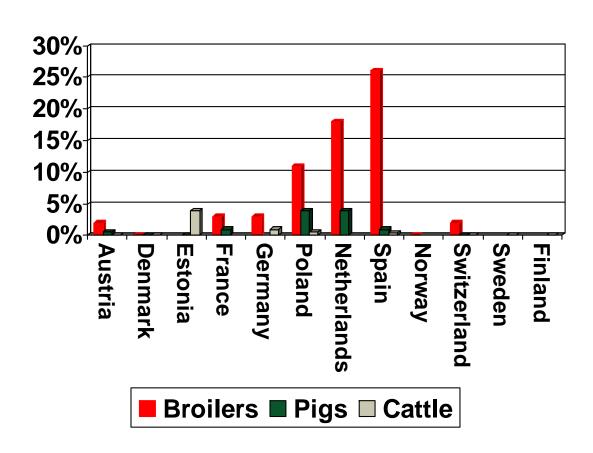
## Salmonella – pork – relevant antibiotics 2011







## Percent ESBL-positive coli





## Open declaration of all participating herds

#### www.spf.dk/sus

Open to the public

Potential buyers

Neighbours

Information on SPF-status, Salmonella, PRRS

Managed and owned by the pig production



## SPF

# Declaration system Close to 4000 herds declared 73 % the pigs born in the SPF-system

- 45 % PRRS positive
- 16 % AP2 positive
- 0.5 % swine dysentery positive
- 2 % Atrophic Rhinitis positive

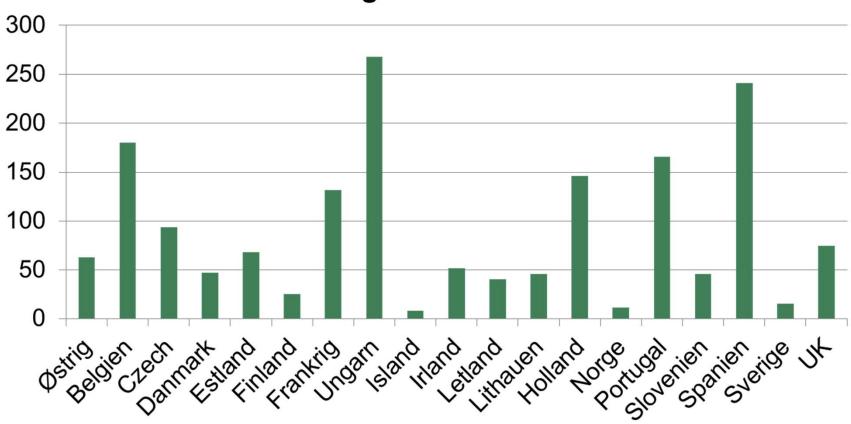


## Focus on prevention

Avoiding and eradicating diseases- SPF Declaration on all pig herds -SPF Increase in vaccine sales



#### MG/kg animal - 2010





## **Broiler industry**

95 % of broilers does not receive any treatment at all



## Wishes for the future

## DAFC is supporting and advocating prudent use

## Change the way of policy making

- Stop focus on total use of antibiotics
- Focus on critically important antibiotics
- Use of scientific risk assessments for policy making

#### Increased research in animal health management

- More problem solving from science
- Less problem finding