

Optimized pig production with less antibiotics

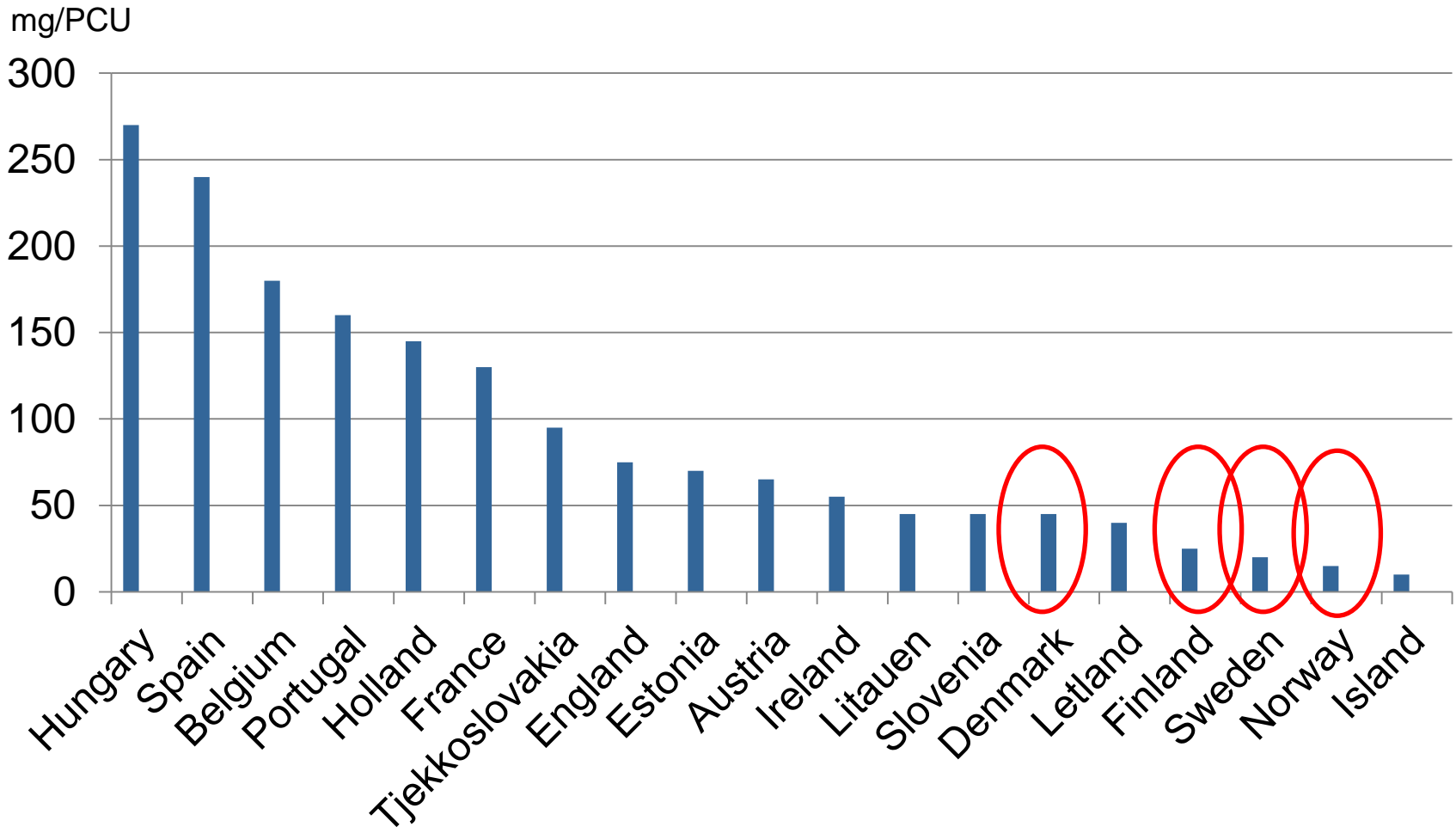
The Nordic Model in EU perspective

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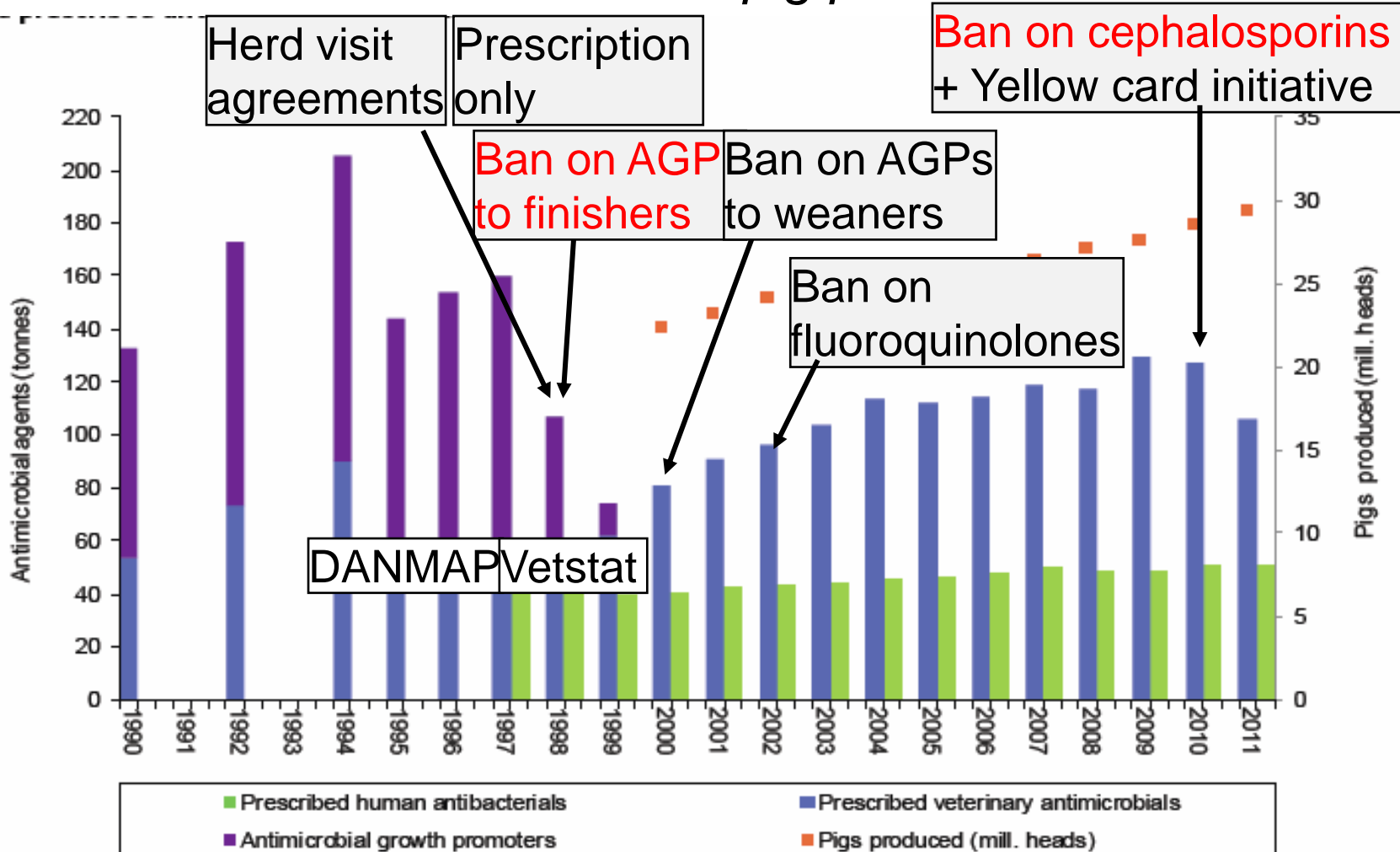
KOL Manager/Swine

2010: Total sale of veterinary medicine in 19 European countries



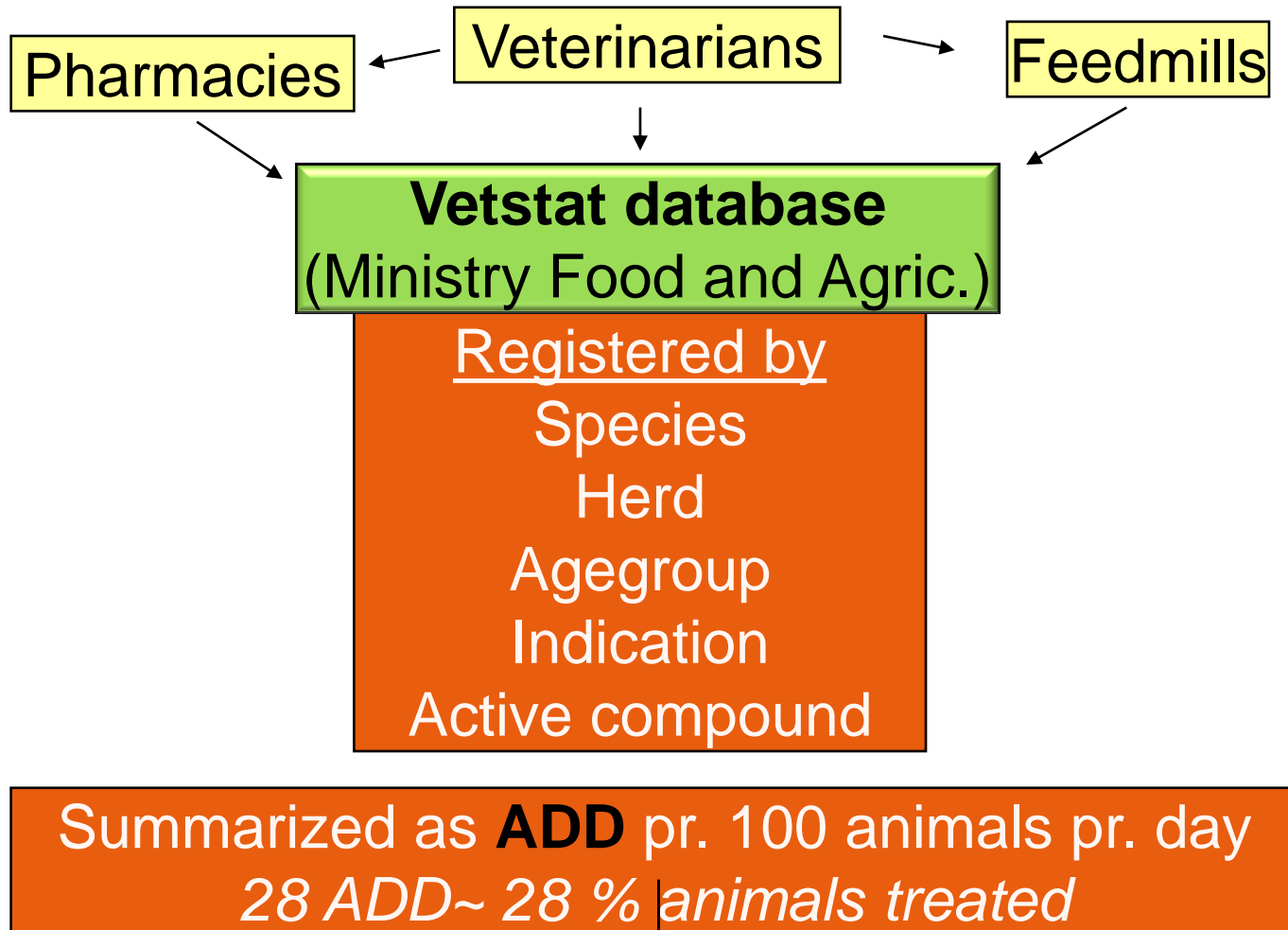
Events over time in Denmark

*Antibiotic use is for all livestock,
80 % are used in the pig production*



Vetstat - Database

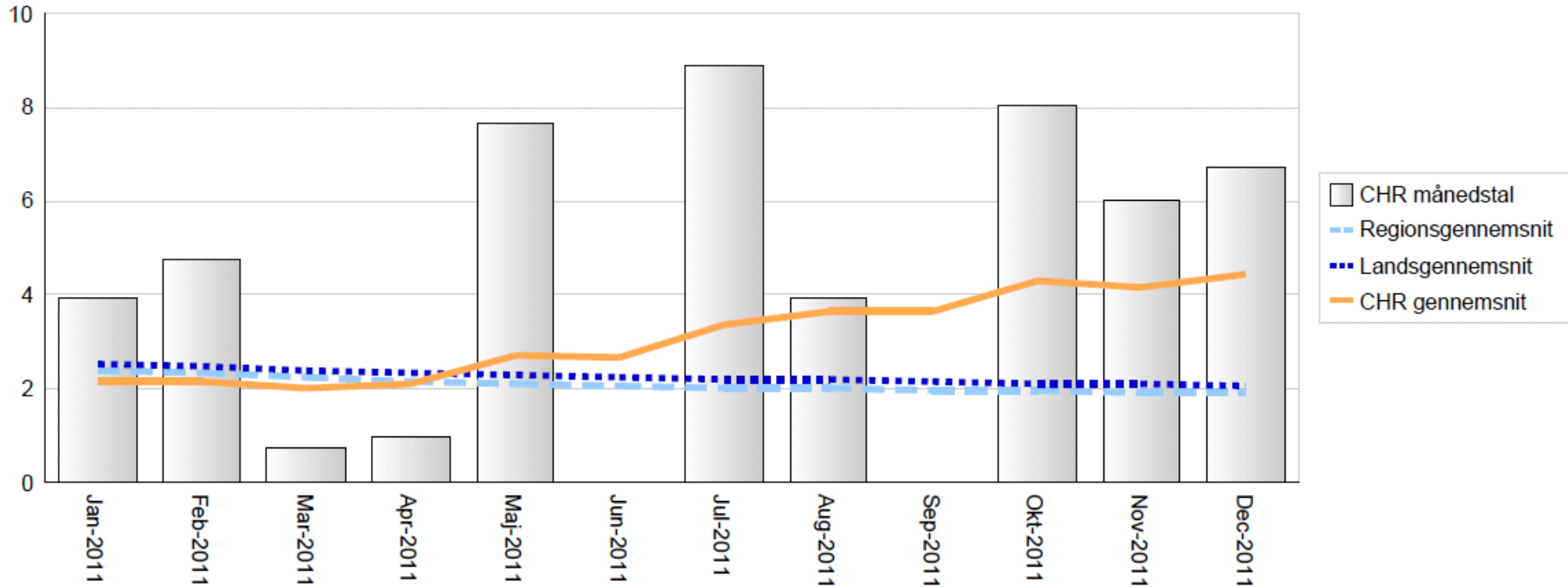
Veterinary use of antimicrobials



The herd's consumption can be followed closely

Example from www.vetstat.dk (code needed):

Årsgennemsnit, løbende 12 måneder



From 2009 to 2008

11.5 % increase in consumption

2010 -Yellow card scheme
We must decrease usage!



Threshold limits for antimicrobial use...

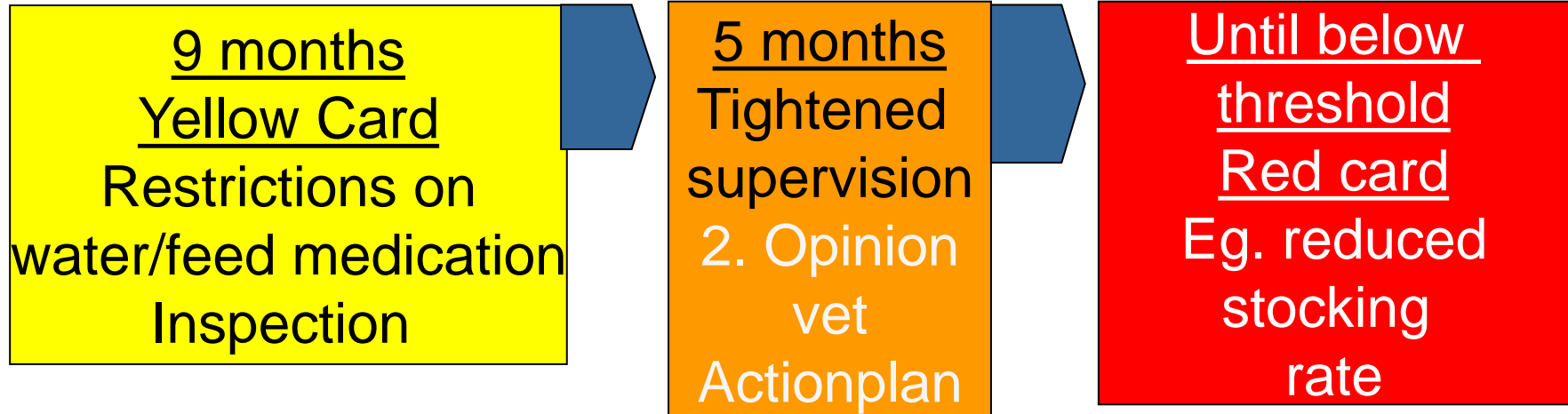
Yearly new lower permit limits

	Year	Sows	Weaners	Finishers
ADD pr. 100 animals pr. day	2010 - 2012	5,2	28	8
	2013	5	25	7

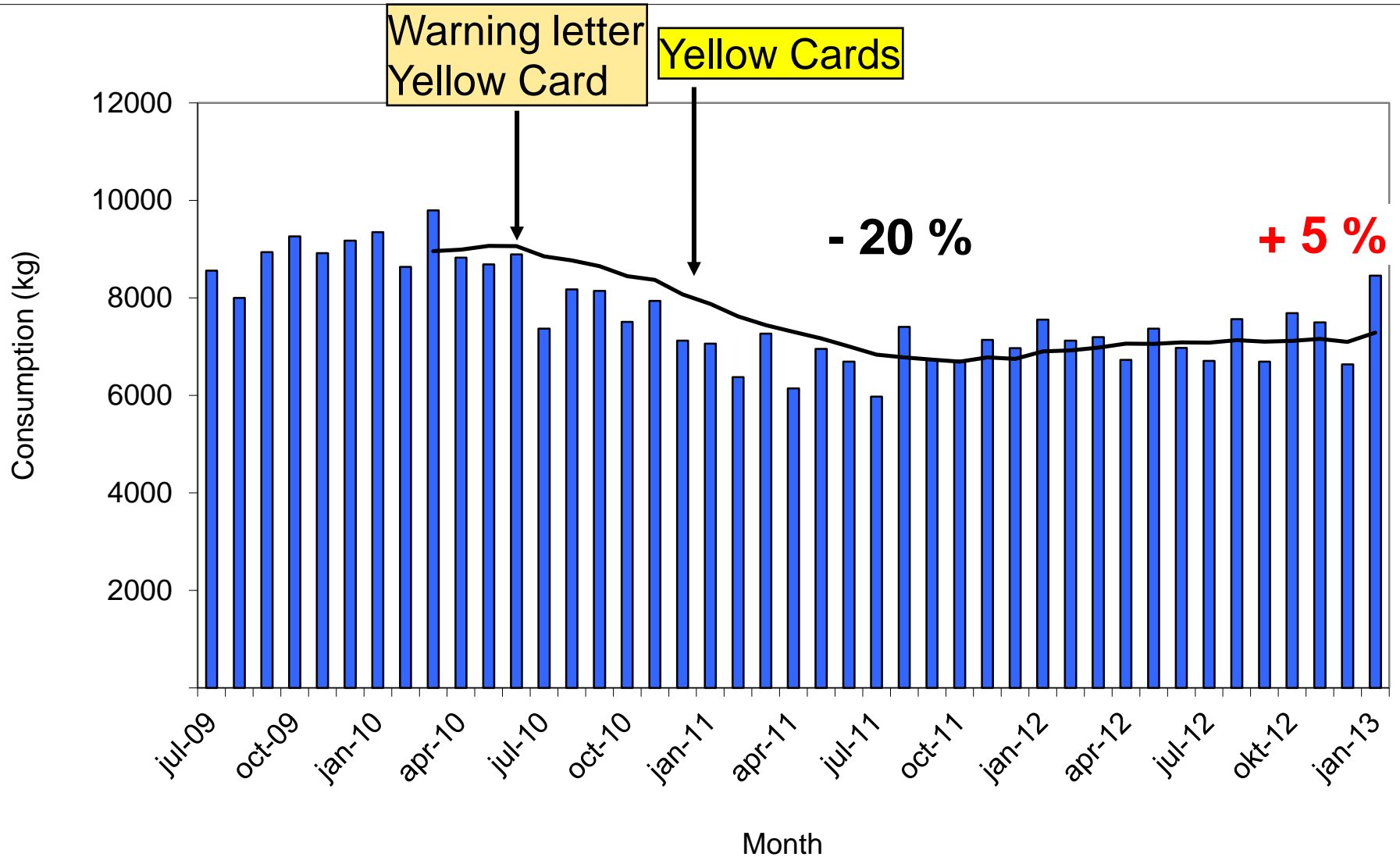


Yellow card – what then?

Charged supervision
and charged enforcement
orders/bans



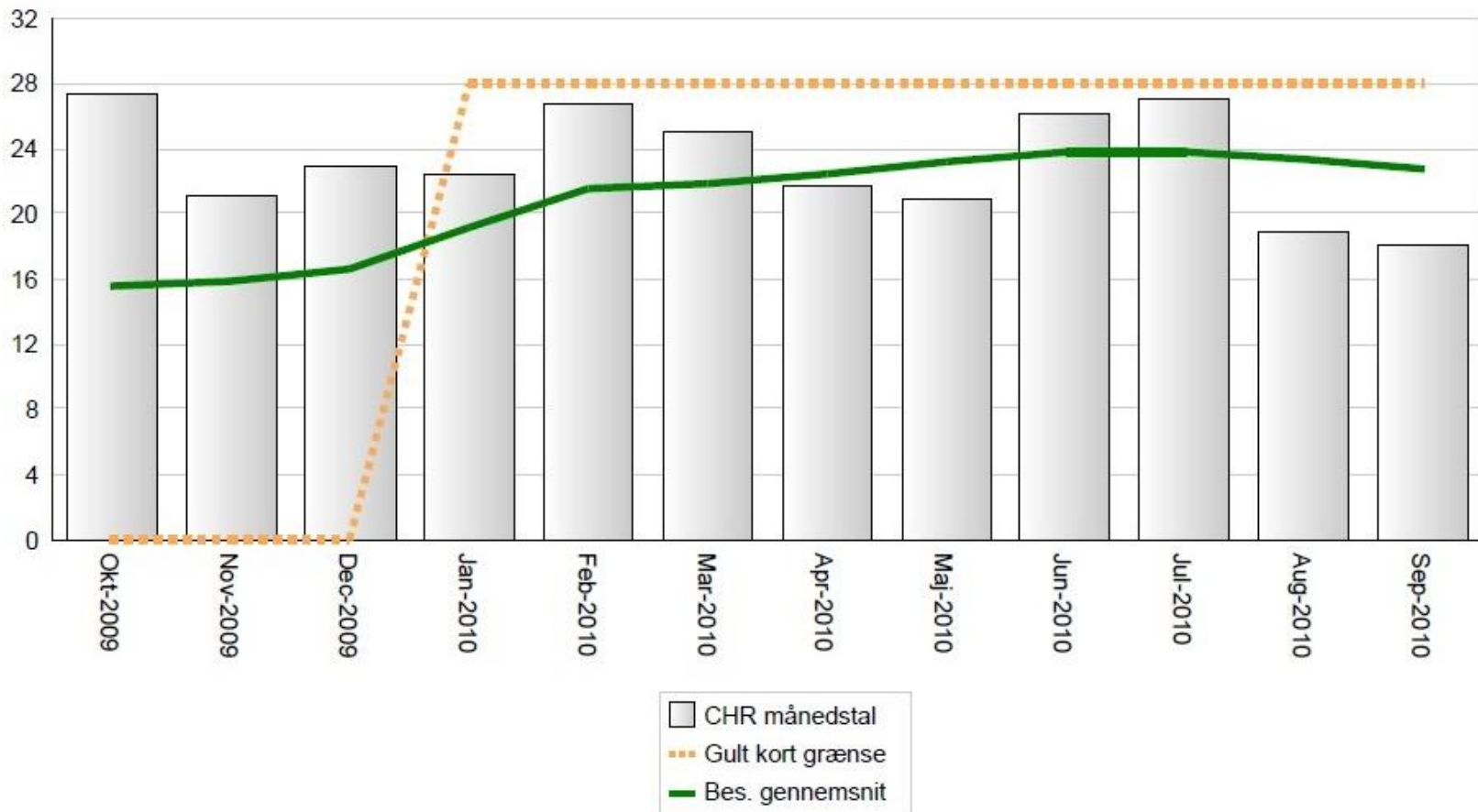
The Yellow Card effect



The herds consumption can be followed closely by farmer and consultants

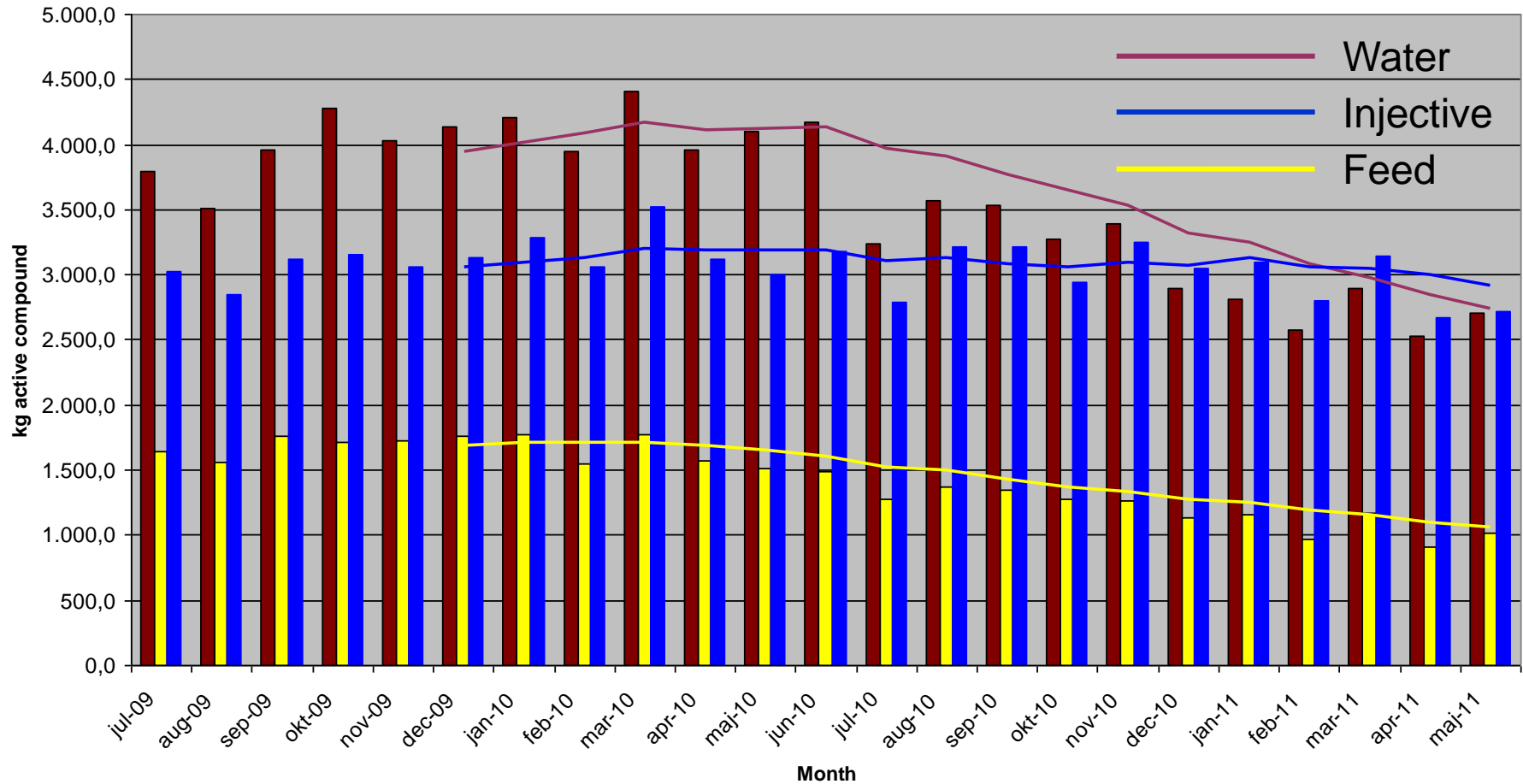
Example from www.vetstat.dk (code needed):

FVST's grænseværdi, løbende 9 måneder



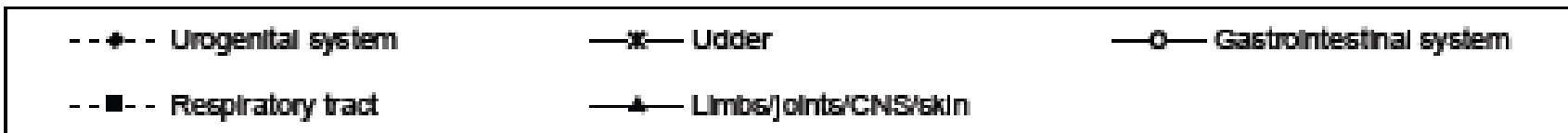
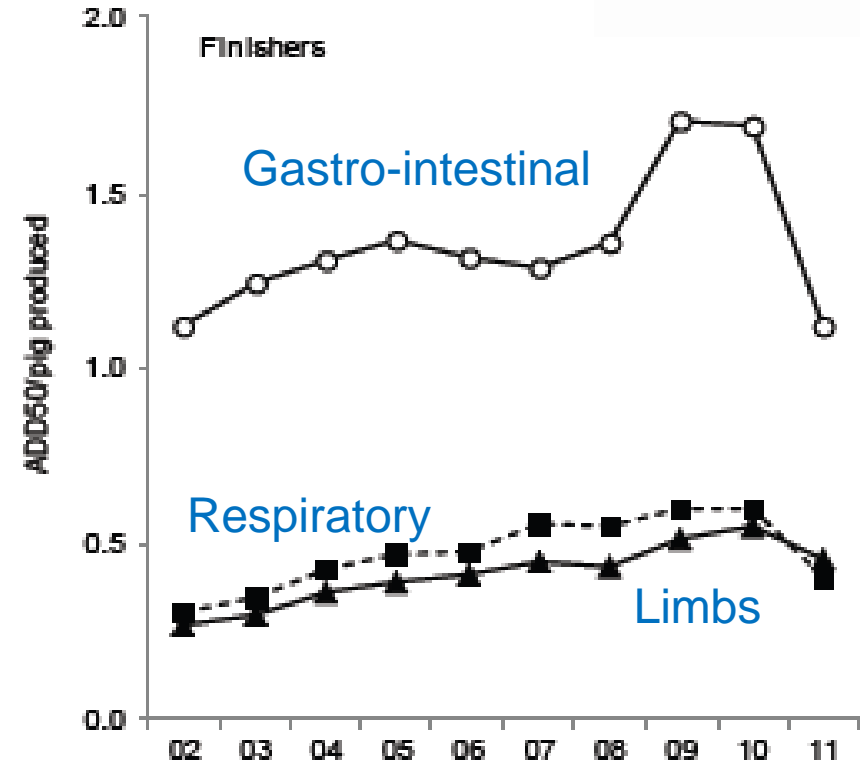
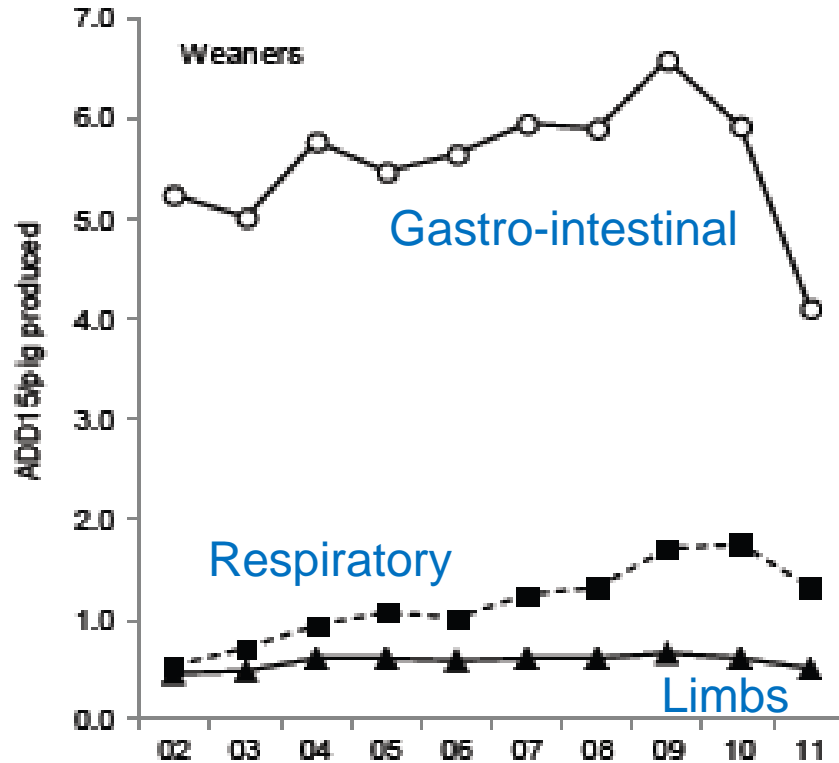
Paradigme shift

More prudent use of antimicrobials

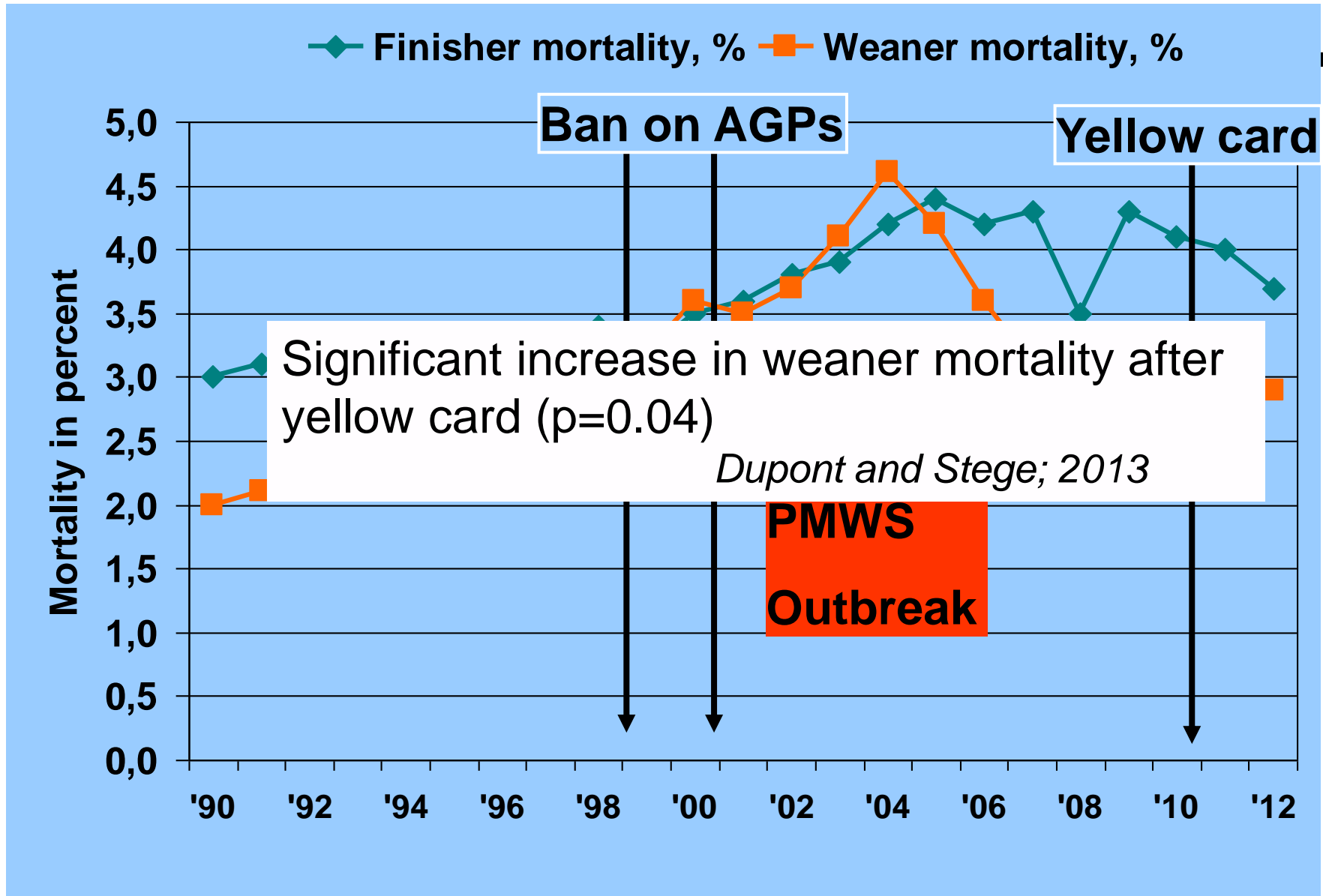


Reduction especially in gastro-intestinal diseases (diarrhoea) (Lawsonia and E. coli)

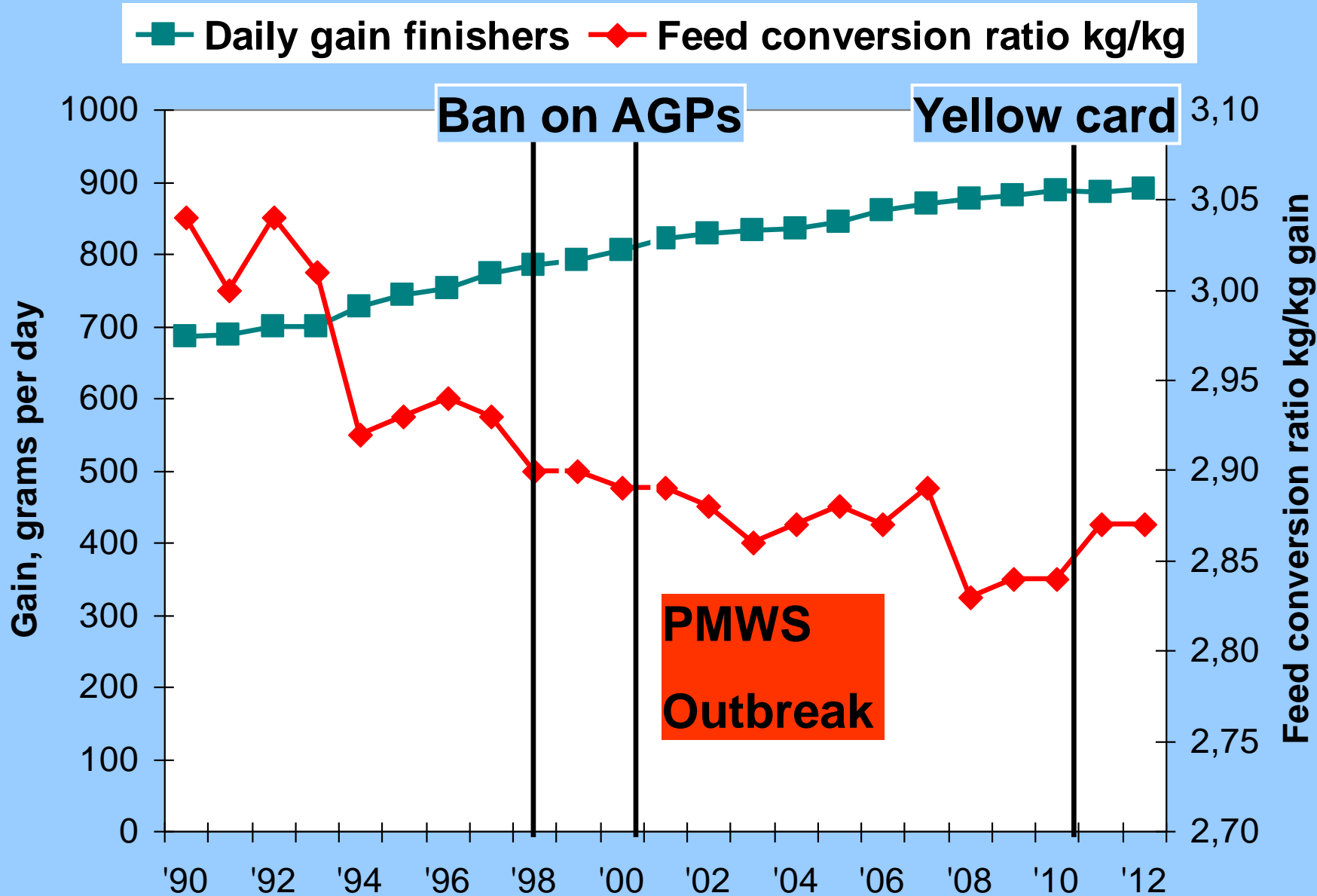
DANMAP 2011



Impact on health - Mortality



Impact on health – Productivity finishers

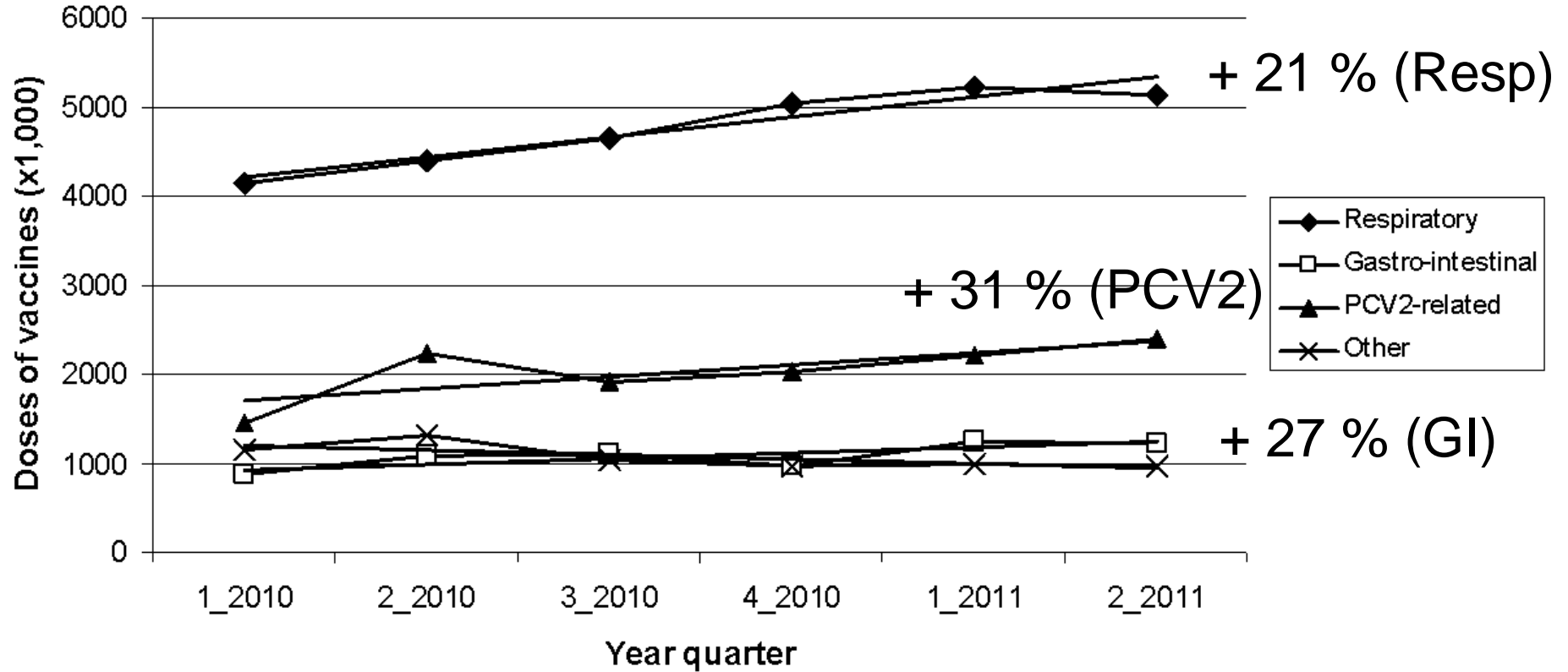


Win-win situation

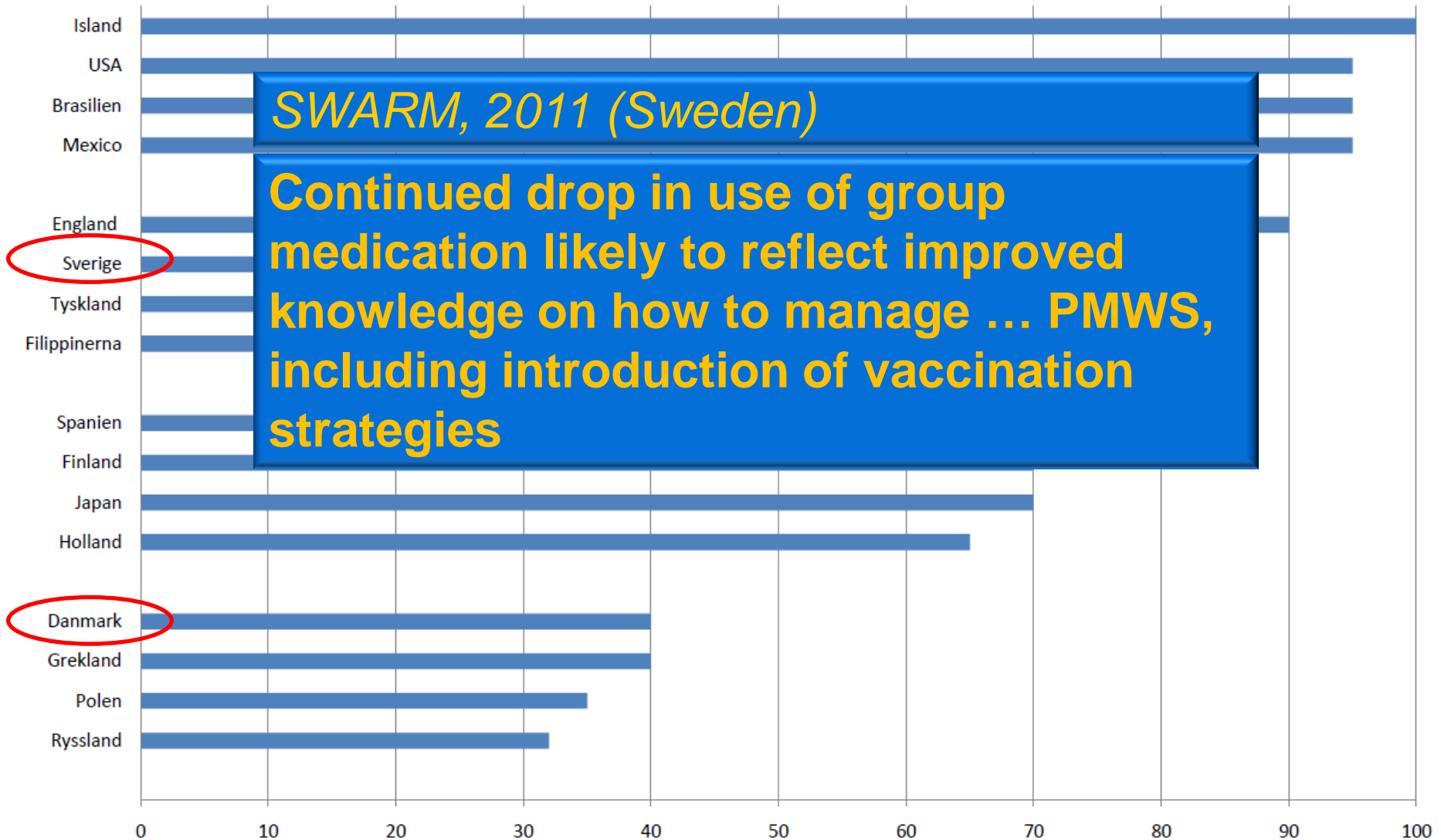
- How can you improve production results and at the same time reduce the use of antimicrobials?

Paradigme shift

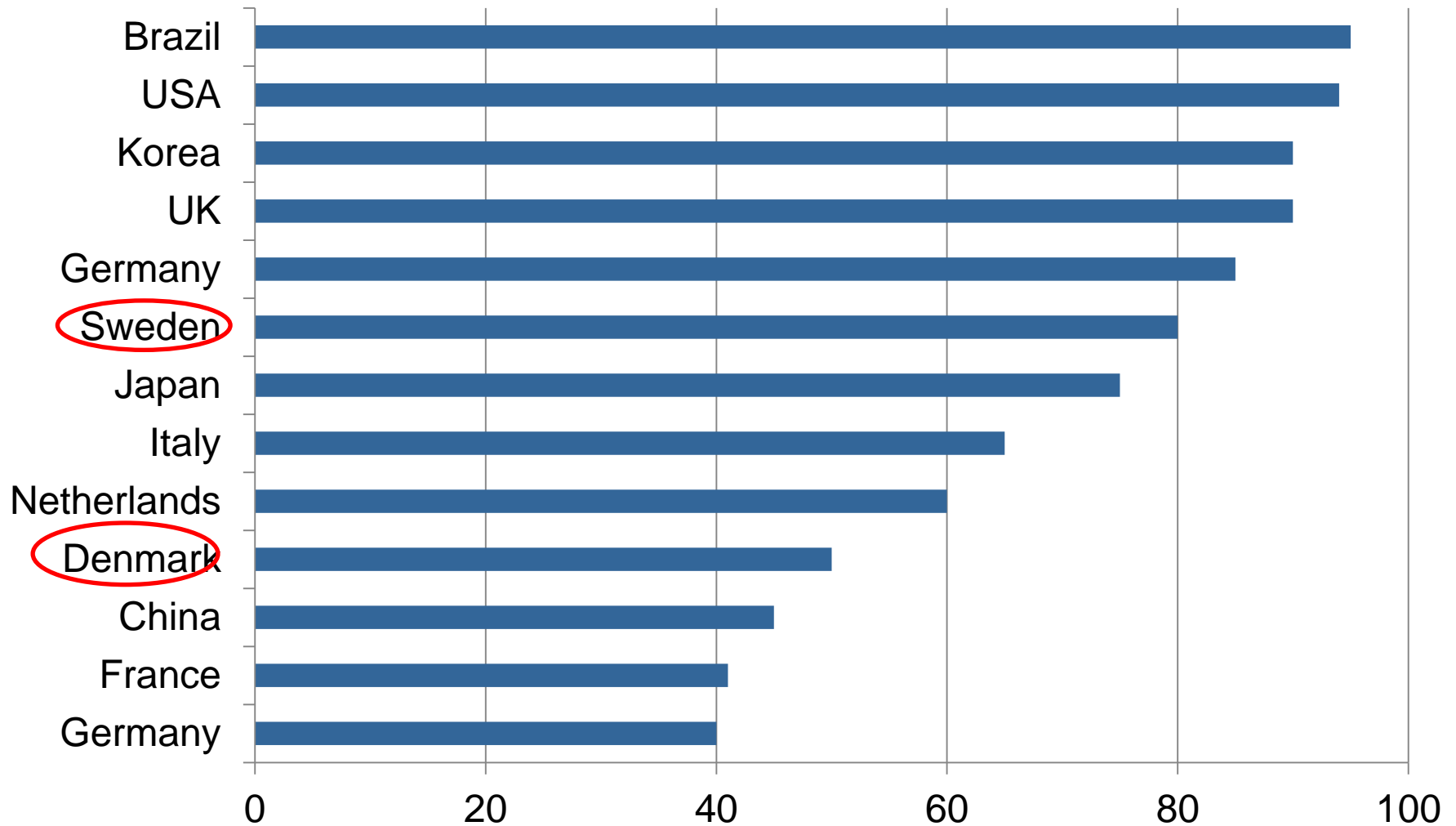
Use of vaccines increased slightly



Vaccination rates - Circovirus



Vaccination rates - Mycoplasma

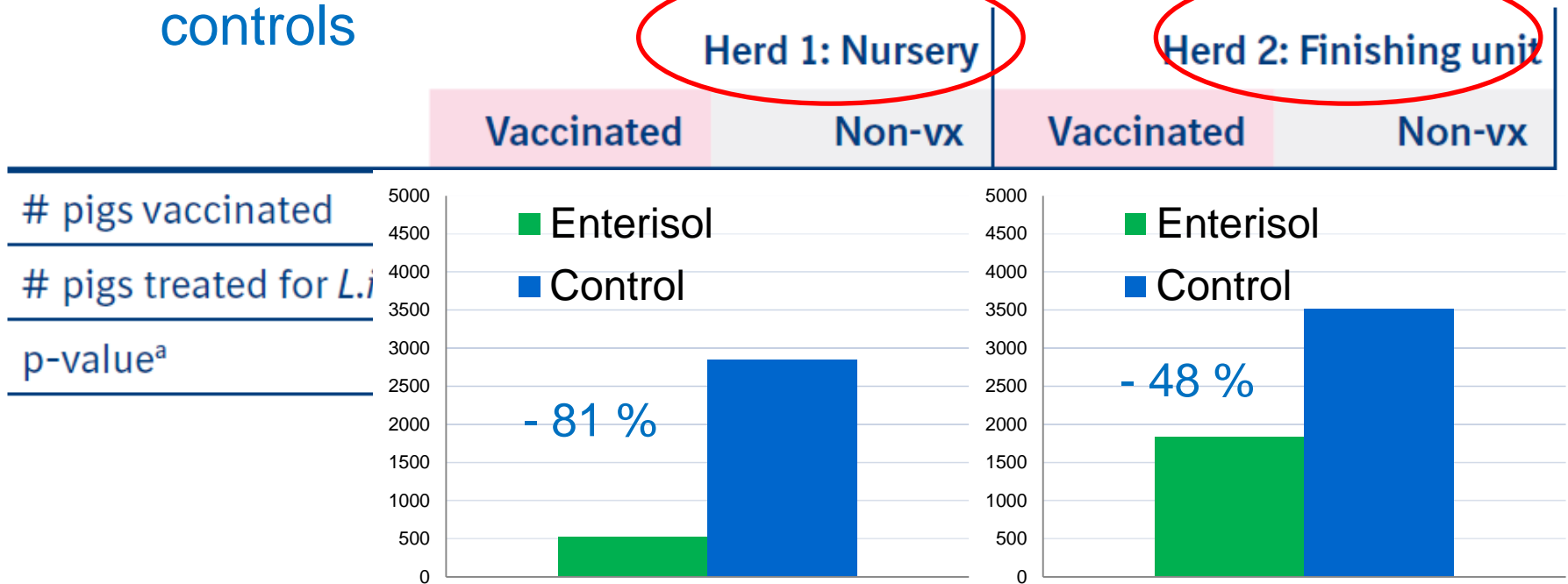


Lawsonia vaccination of weaners or finishers

- Reduced antibiotic use

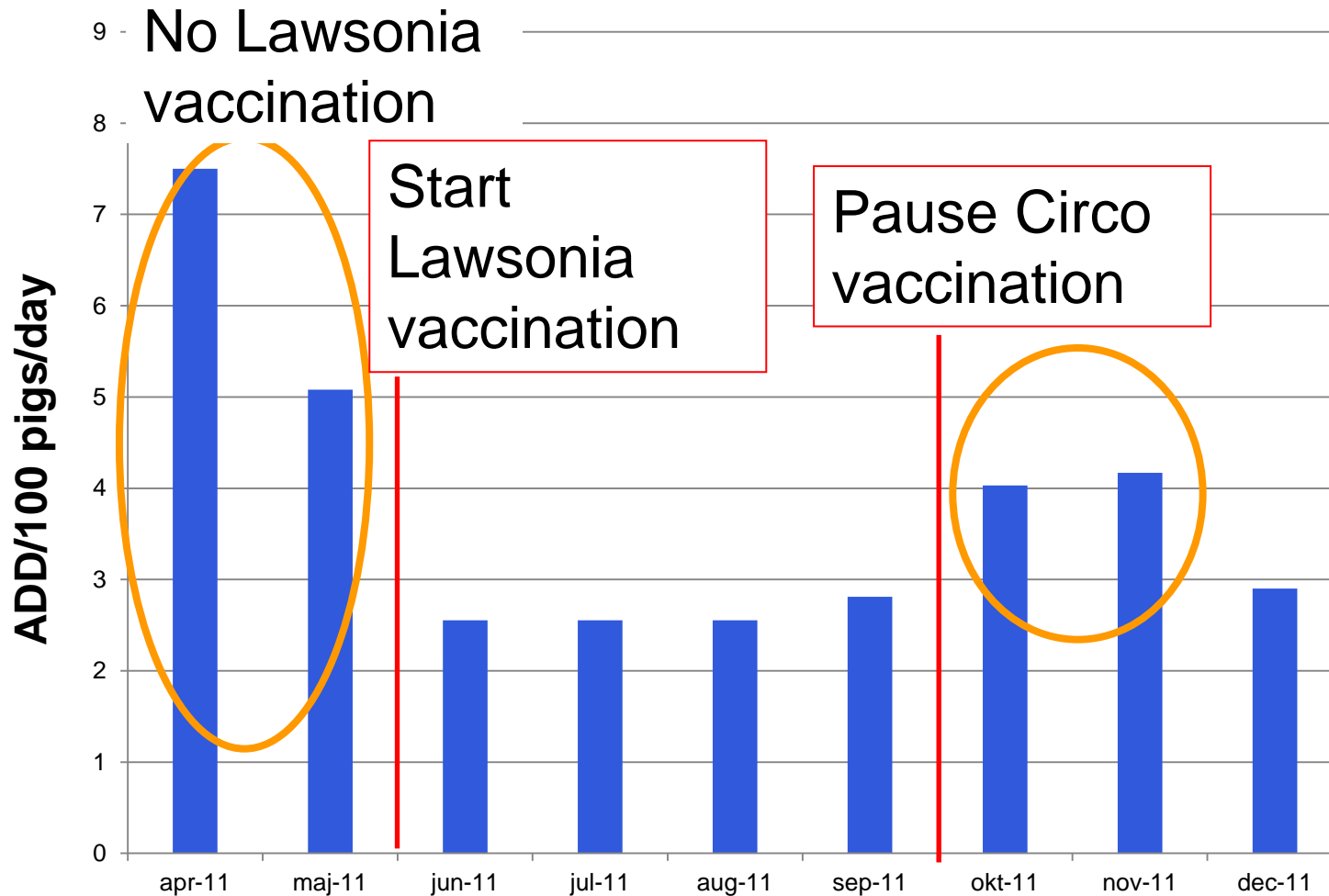


- Vaccination trials, 2 herds
- Every second batch vaccinated; remaining were controls

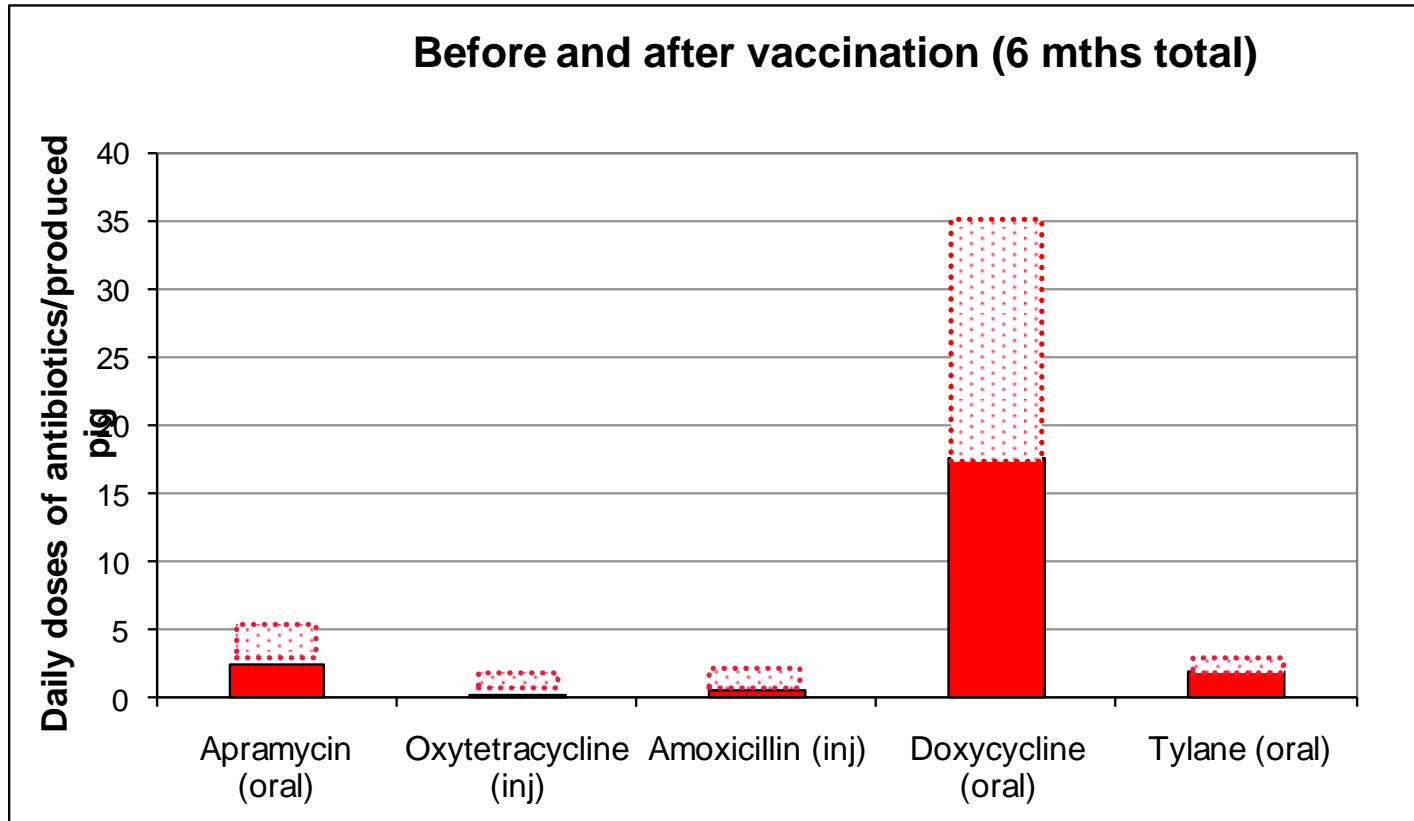


Vaccination pause

- Increases treatments



Less use of antibiotics for weaners post vaccination against Lawsonia and Circovirus



Number of daily doses reduced with 39%

Havn et al., Safepork 2011

Paradigme shift

- Prevention rather than Cure

Vaccination



Management



With
you
all the
way



Taking prevention seriously



Boehringer
Ingelheim