

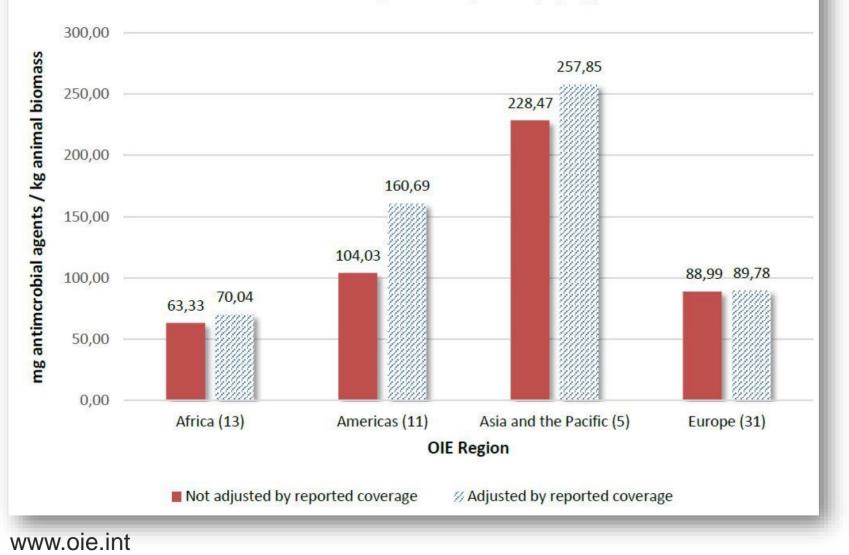


# ... but when they are sick they need treatment

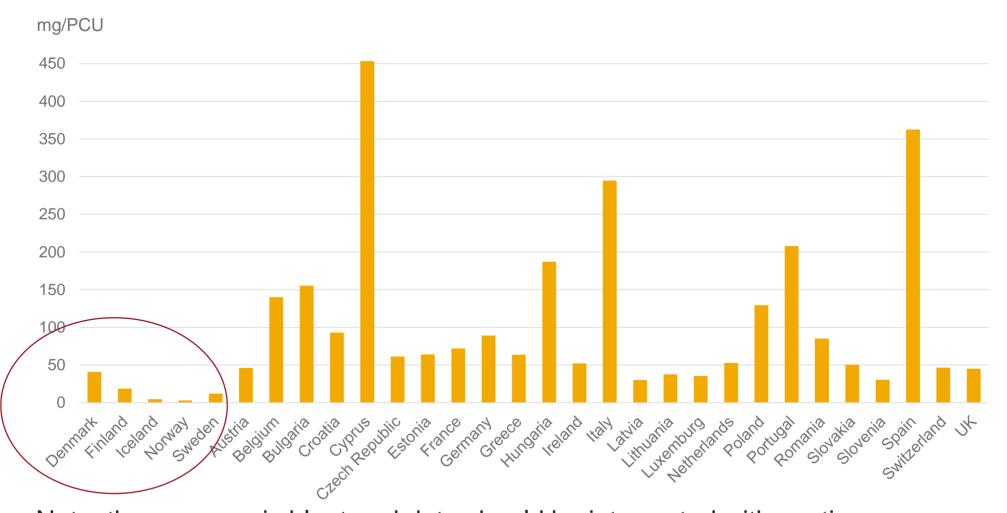


#### SALES OF ANTIBIOTICS FOR ANIMALS – REPORTS TO OIE (WORLD ORGANISATION FOR ANIMAL HEALTH )

Figure 30. Quantities of Antimicrobial Agents Intended for Use in Animals Adjusted for Animal Biomass, 2014 Regional Comparison (mg/kg)



### SALES OF ANTIBIOTICS FOR ANIMALS IN EUROPEAN COUNTRIES



Note: the measure is blunt and data should be interpreted with caution ESVAC 8th report, www.ema.europa.eu



### PROPORTION *E.coli* SUSCEPTIBLE TO ALL TESTED ANTIBIOTICS (CHICKENS 2016)

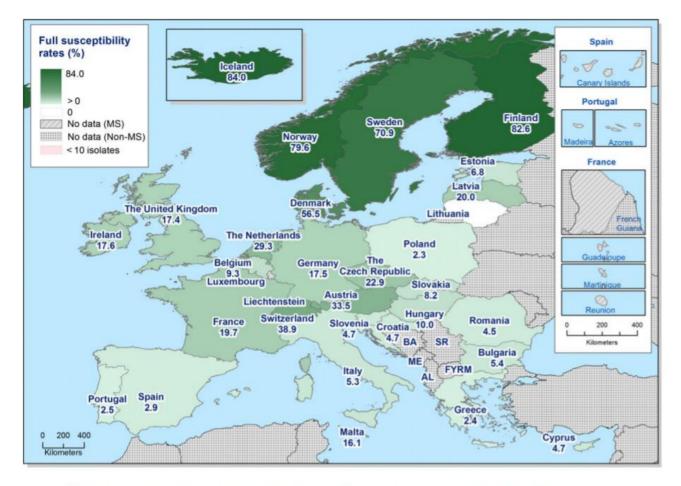
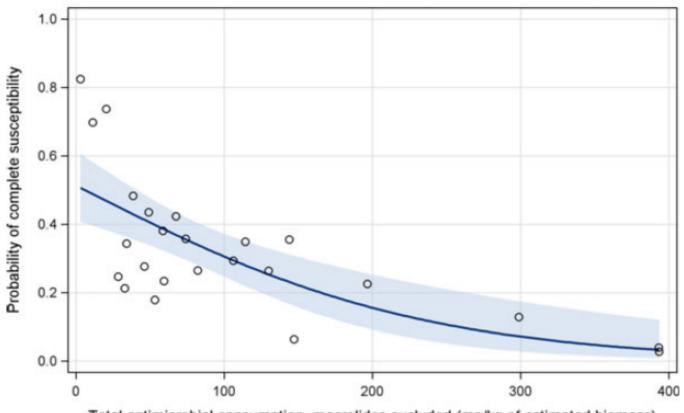


Figure 91: Spatial distribution of complete susceptibility to the panel of antimicrobials tested among indicator *Escherichia coli* from broilers, using harmonised ECOFFs, 30 EU/EEA Member States, 2016

ECDC-EFSA Summary report on antimicrobial resistance, www.efsa.europa.eu

#### **CORRELATION BTW SALES OF ANTIBIOTICS FOR ANIMALS AND PROPORTION SUSCEPTIBLE TO ALL 11 TESTED ANTIBIOTICS**"

2) Probability of complete susceptibility - 2014-2015



Total antimicrobial consumption, macrolides excluded (mg/kg of estimated biomass)

JIACRA second report; www.ema.europa.eu



# WHAT NEEDS TO BE DONE, MOSTLY EVERY DAY

**Remove routine use** 

= growth promoters, routine prophylaxis

# Minimise need

- = infection control
- = biosecurity
- = keep animals healthy and "resilient"

# **Optimise use when needed**

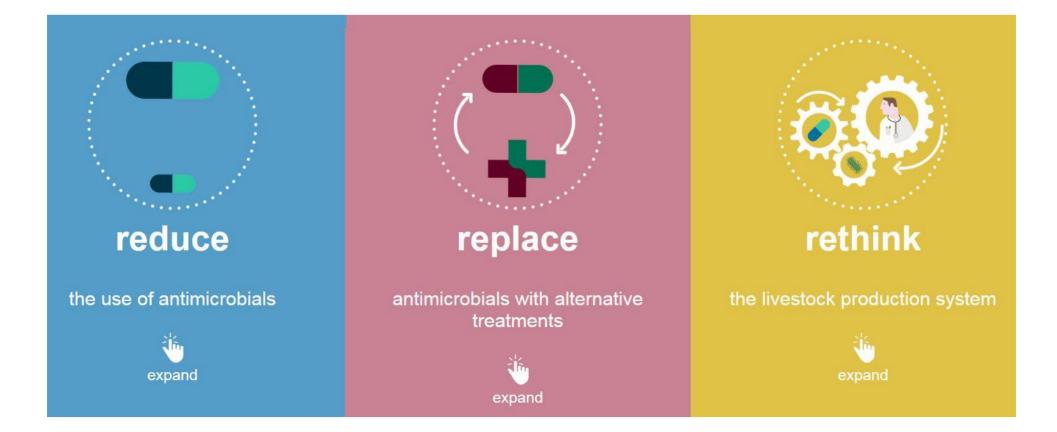
= diagnosis, correct selection & dose

### Monitor

= use and resistance



### "RONAFA"-REPORT (EFSA-EMA, DEC 2016)



...reduce the need to use antimicrobial agents in animal husbandry in the European Union.... 245 pages.

https://www.efsa.europa.eu/en/press/news/170124-0



# REDUCING THE NEED: CONTROL AND ERADICATION (EXAMPLES)

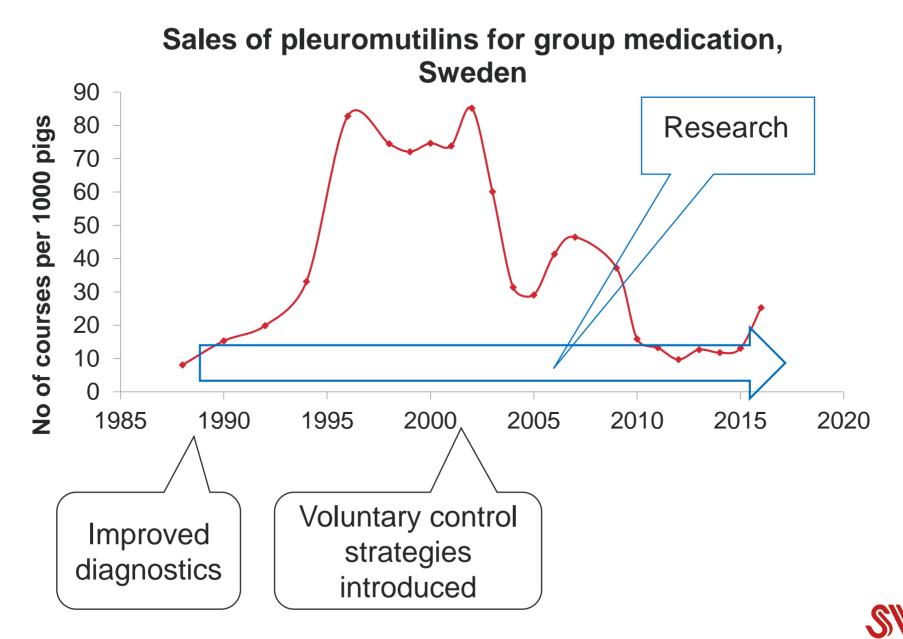
- Viral diseases, examples
  - -BVDV
  - IBR
  - -PRRS
  - AD
- Zoonoses
  - Salmonella
  - Campylobacter



- Biosecurity is introduced at farm level
- Predisposing factor for bacterial diseases removed



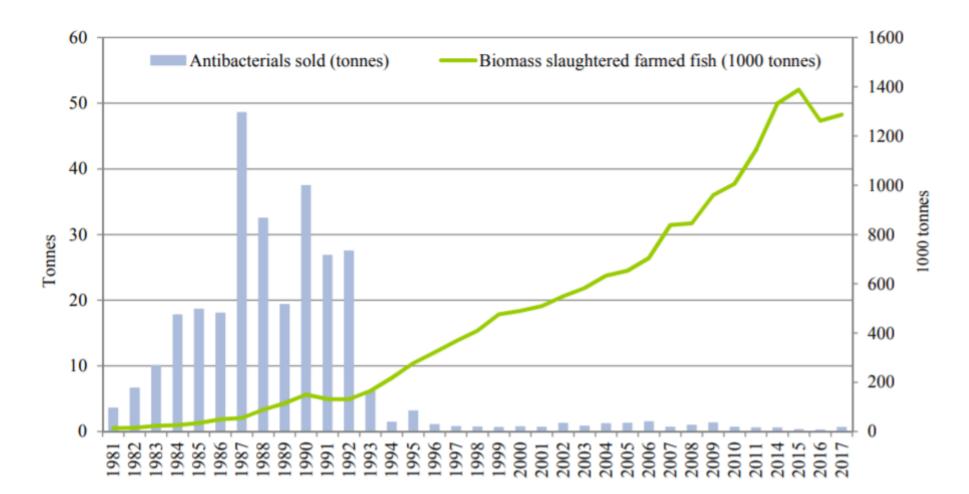
#### **REDUCING THE NEED: CONTROL OF SWINE DYSENTERY** FIRST CHOICE FOR TREATMENT: PLEUROMUTILINS



Calculated from data in Swedres-Svarm 2016 and earlier editions

### **REDUCING THE NEED: VACCINATION AND BIOSECURITY**

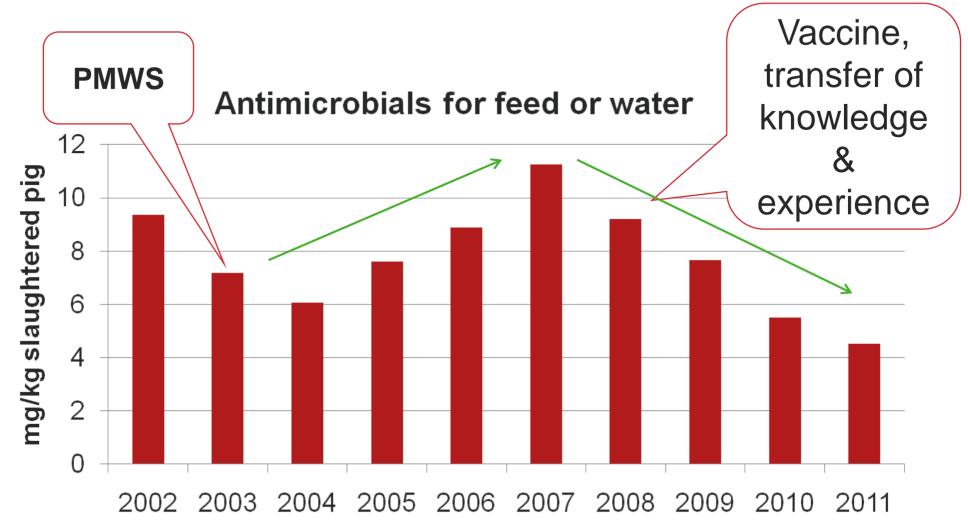
Total sales for fish (tonnes) & biomass slaughtered, NO



Source: NORM-VET 2017



# **CRITICAL FACTORS: INTRODUCTION OF NEW DISEASES** (SE)





# **HEALTHY AND RESILIENT ANIMALS**

- Husbandry
- Environment
- Nutrition
- Lack of stress
- Genetics



Photo: Marie Sjölund



### **EFFECT OF HERD HEALTH ADVICE, PIG PRODUCTION BELGIUM**



- No negative impact on production
- +2.67 Euro per pig

Source: Postma et al, Zoonoses and public health, 2016, doi: 10.1111/zph.12283 & Rojo-Gimeno et al, Prev vet med 2016 129:74-



# **REDUCING THE NEED: FROM TREATMENT TO PREVENTION**



Photo Marie Sjölund, SVA



Photo Magnus Aronson



### SUCCESS FACTORS FOR CONTINUOUS IMPROVEMENT



- Consensus
- Collaboration
- Engagement
- Access to data
- Applied knowledge
- Adapted in time











# One health







Photo SVA and C Greko