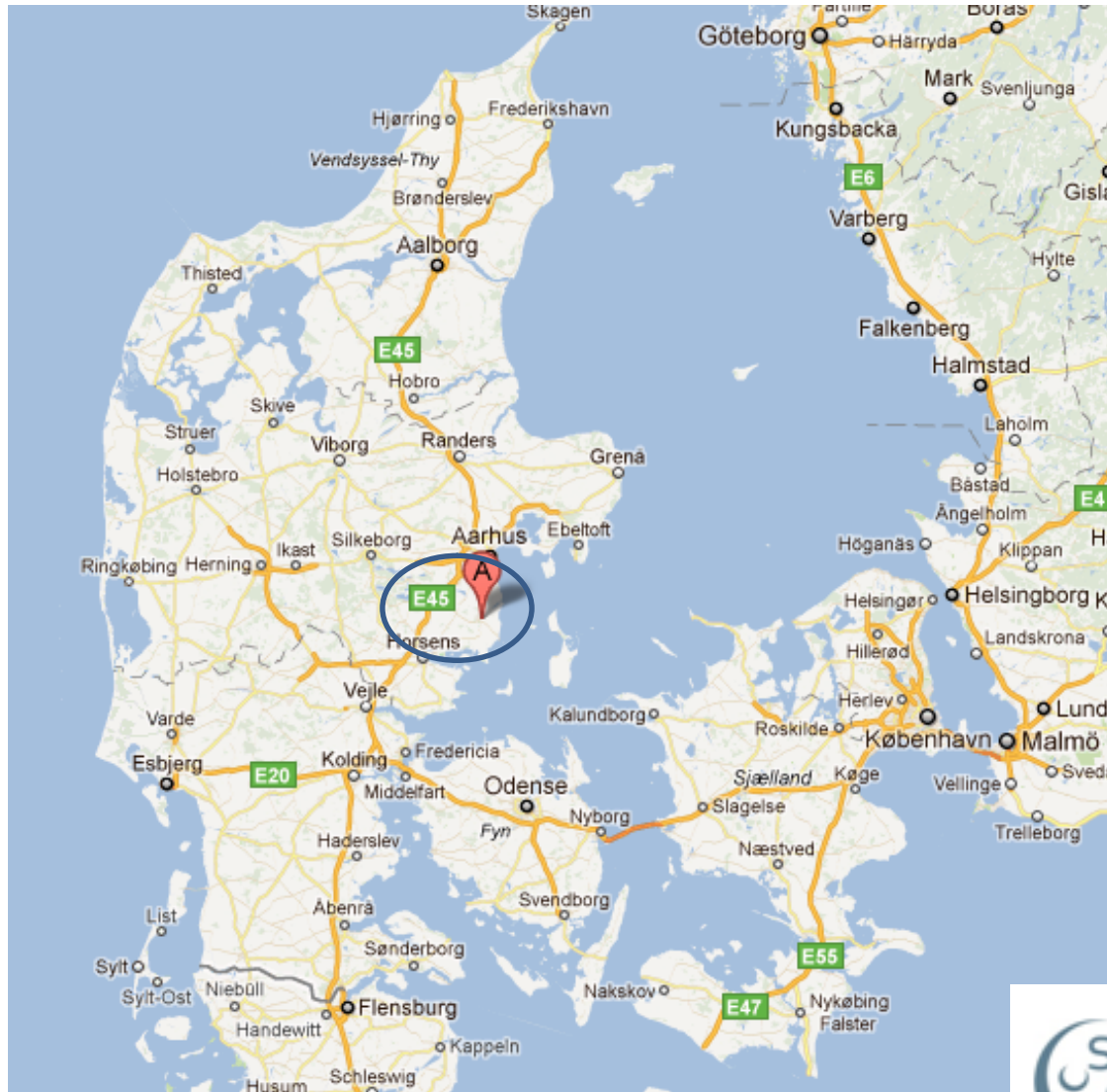


Regional PRRS eradication



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Introduction



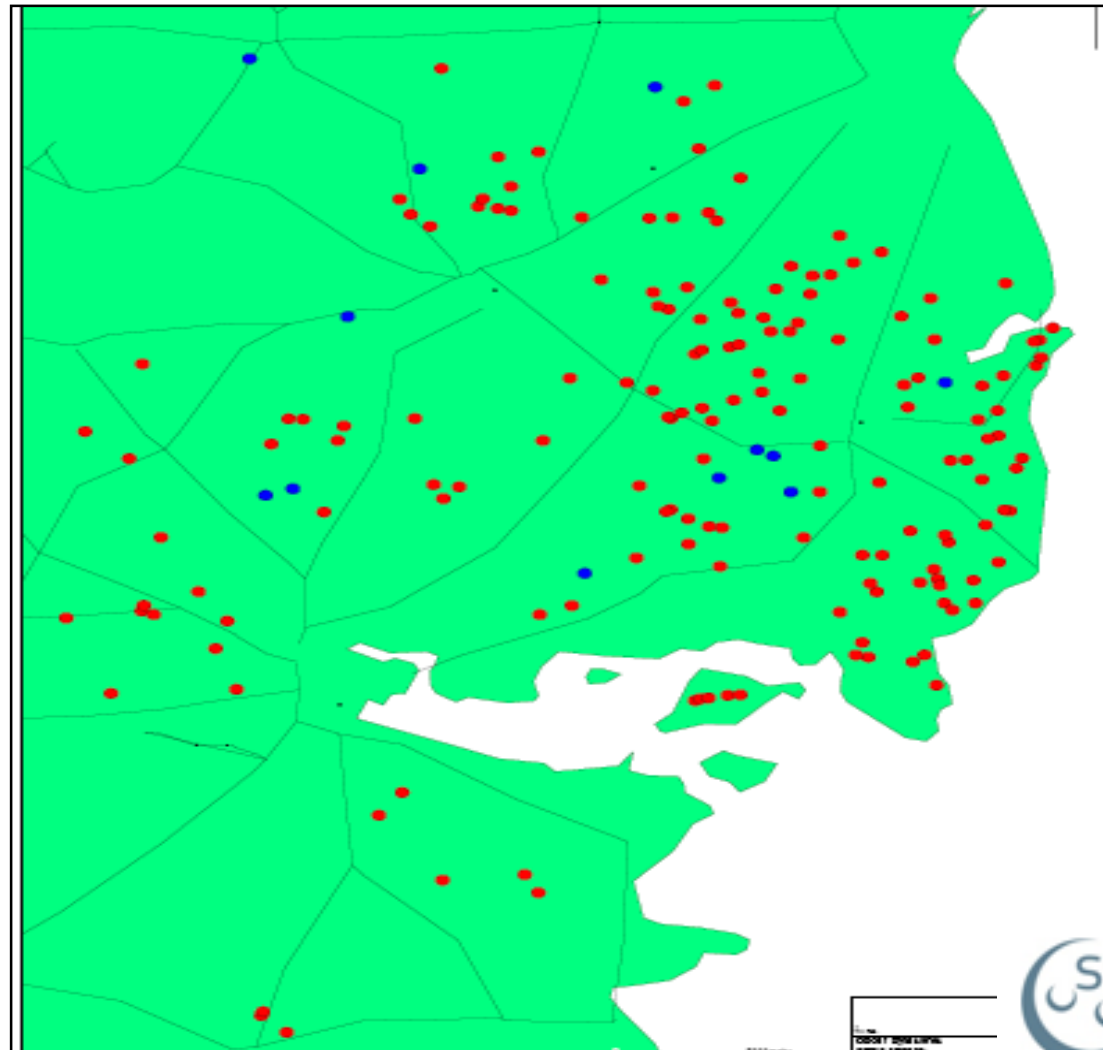
Introduction

- Svinepraksis.dk provides veterinary service for 250 swine herds
- Most herds are located in Eastern Jutland
- Eastern Jutland has a very high swine density
- Only few herds have high health status
- Most herds has App and Mycoplasma
- PRRS control reduces the negative influence of respiratory diseases on swine health

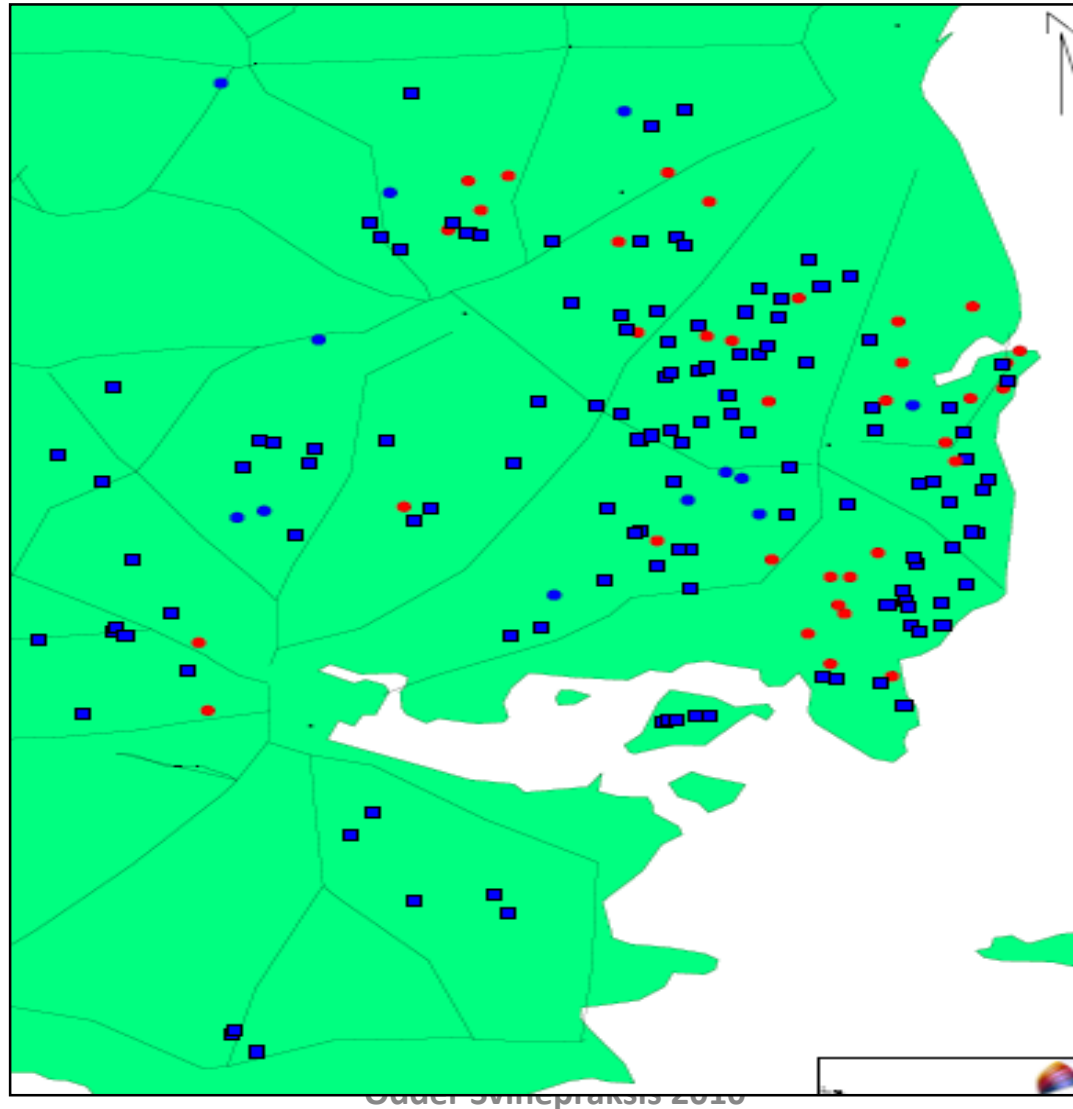
Introduction

- Danish swine industry
- SPF system
- Motivation for PRRS control
- PRRS control in practice
- Health vision 2017

PRRS positive herds year 2000



PRRS pos. herds 2012



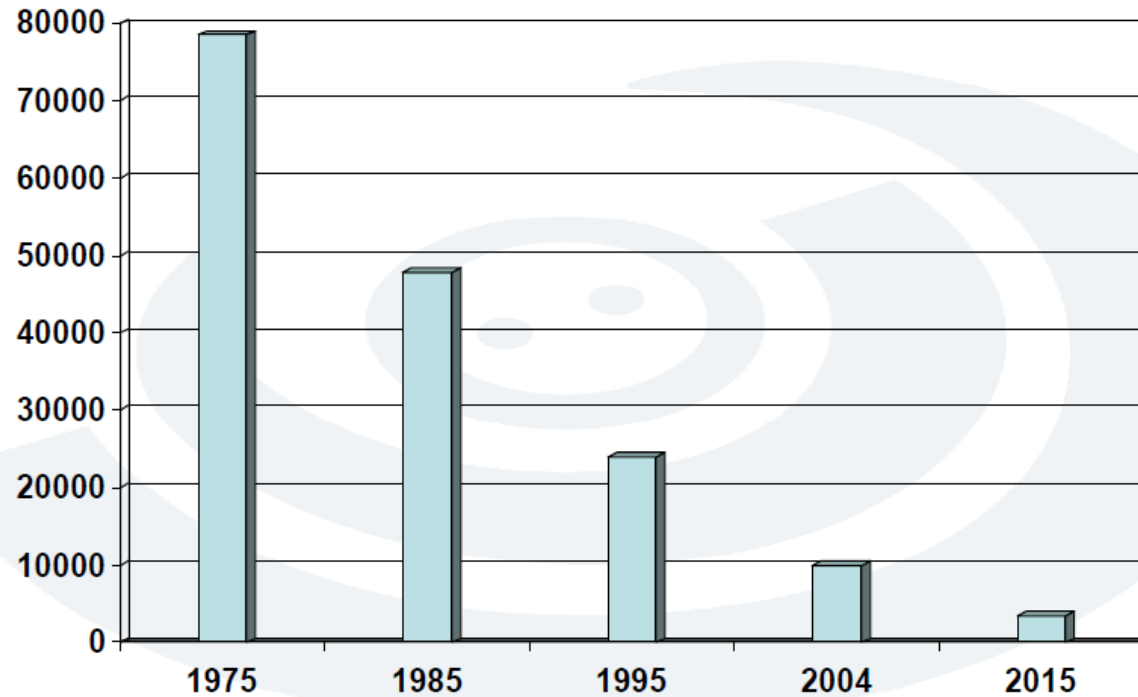
Regional PRRS eradication

The area includes 179 swine herds

- 70 % are PRRS negative
- 6 % have a PRRS positive sow herd but produce PRRS negative pigs
- 20 % are PRRS positive but expecting to become negative in 2013/2014
- 4 % are PRRS positive

Swine herd structures in Denmark

Number of Pig Producers



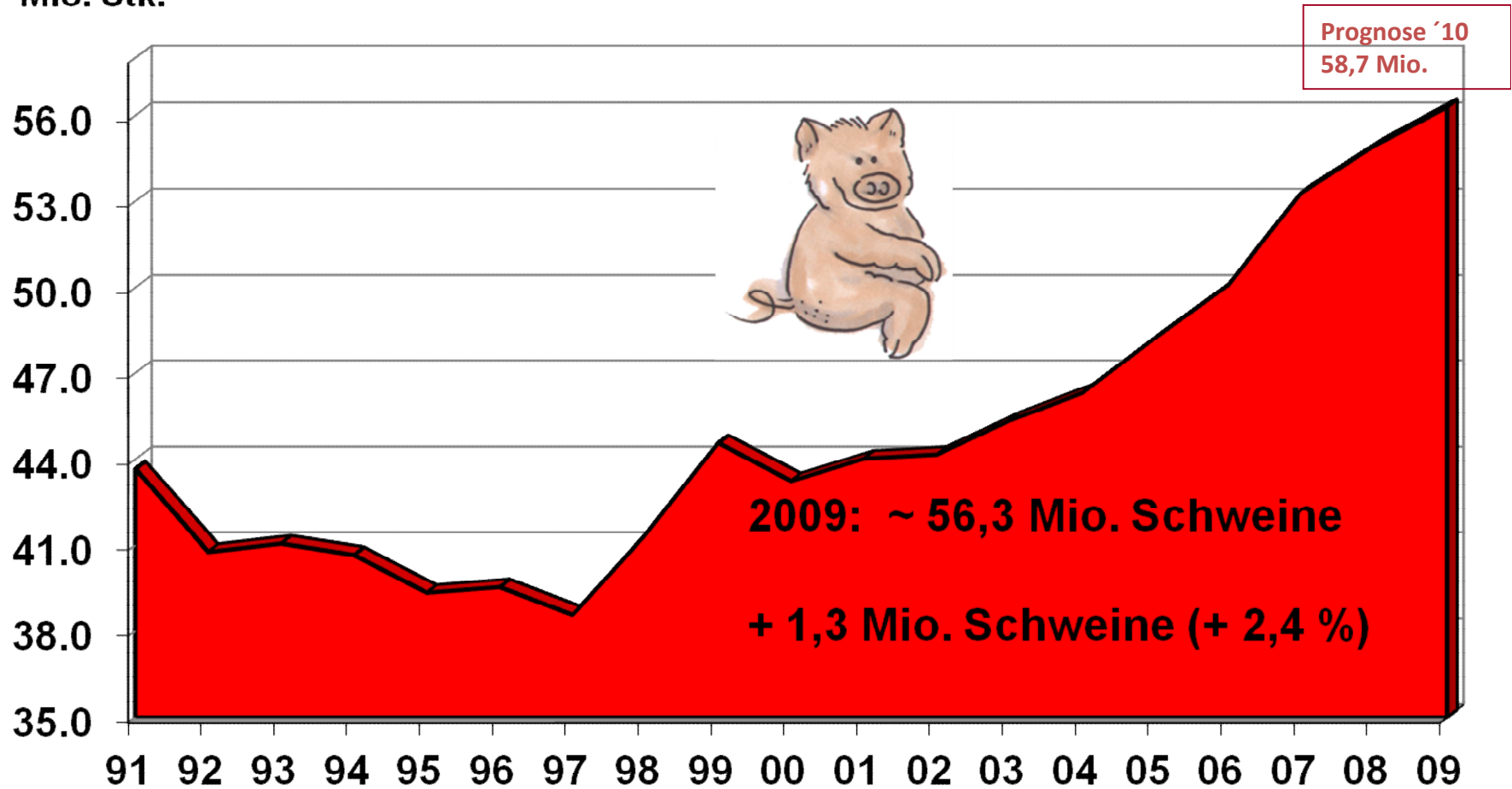
Eksport of 30 kg pigs

- 2001: 1.1 mio pigs
- 2007: 3.9 mio pigs
- 2008: 5,9 mio pigs
- 2009: 7.0 mio pigs
- 2010: 7,5 mio pigs
- 2011: 8,5 mio pigs
- 2012: 9,8 mio pigs

German production of finishers



Mio. Stk.



The Danish SPF system

- Since 1971
- **S**pecific **P**athogen **F**ree
- 18 infectious swine diseases
- SPF-SuS – Health Status Dept.
- 3270 herds have SPF-status
- 73% of the sows in Denmark are SPF sows



Health status is accessible online

www.spf-sus.dk

Health Status Information

Health Status: Rød SPF

Conditional Health Status: No

Supplementary status:

Supplementary Health Information

Date:	12-10-09	10-09-09	24-08-09	06-08-09	22-06-09	27-05-09
Salmonella-index:	0.0	0.1	0.3	0.0	0.0	0.0
	01-05-09					
	0.0					

Date: 11-04-96
Salmonella Level: 1

Fecal samples results: None

Danish approval

Danish approval: Yes

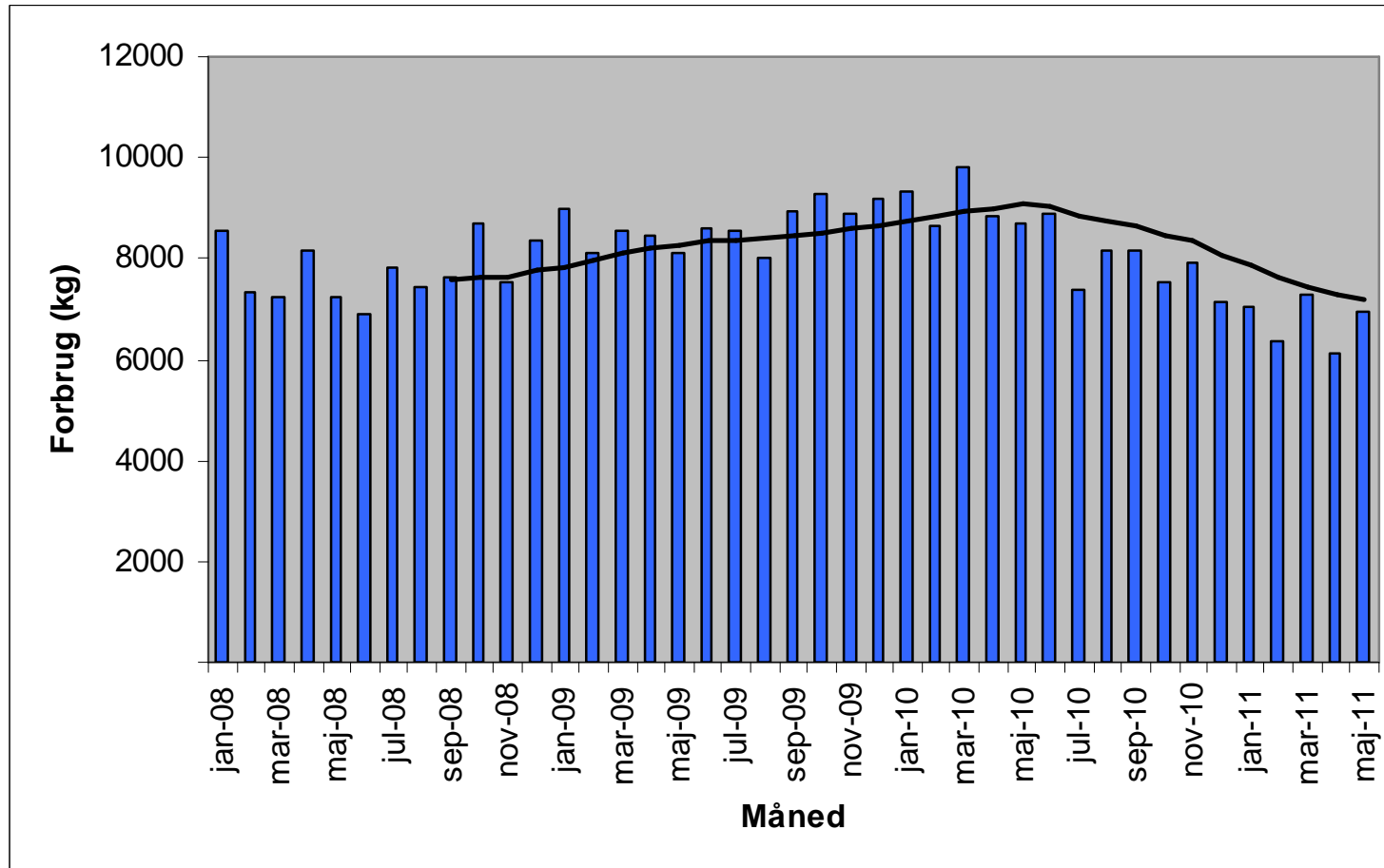


Administrative approval on.: 01.08.07

Medicine consumption

- Big public focus on medicine consumption in Danish swine herds
- AGPs were banned in year 2000
- Vague rise in antibiotic consumption from 2000 to 2010
- From 2010 "yellow card" program for herds with a high antibiotic consumption
- The consumption is reduced 20%

Medicine consumption

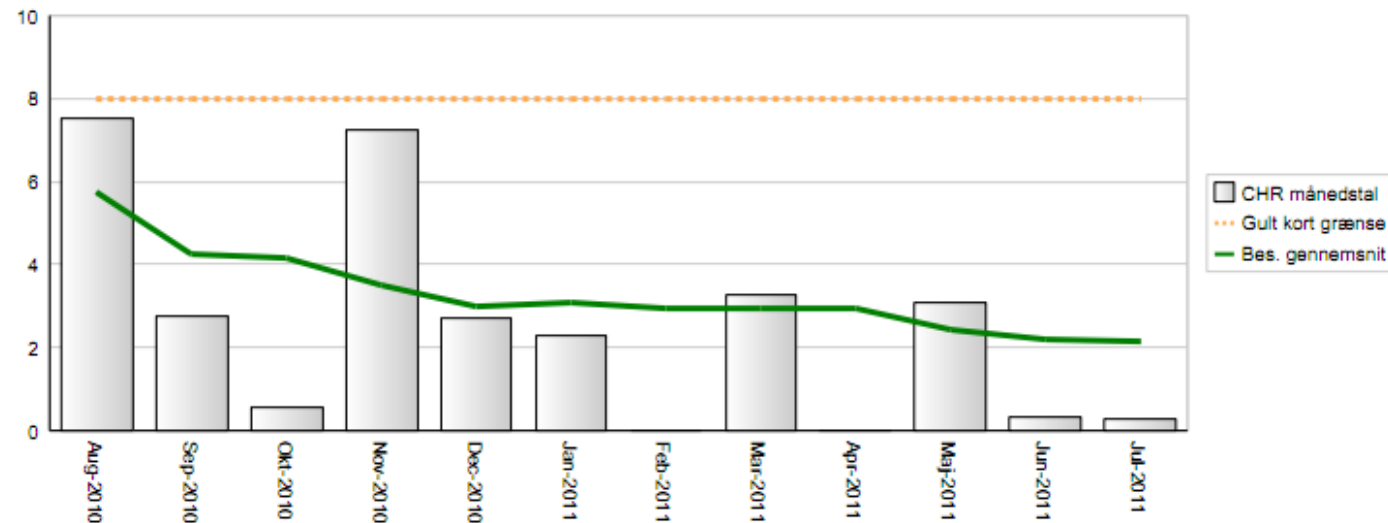


Vetstat

Årsopgørelse 01/08/2010 til 31/07/2011

CHR-nr. : 93105
Adresse og bruger : Tuskærvej 9, 8300 Odder, Lars Kreutzfeldt Rasmussen
Dyreart : 15 - Svin
Aldersgruppe : 57 - Svin over 30 kg, udtøjet eller gult og ømt
Region : F

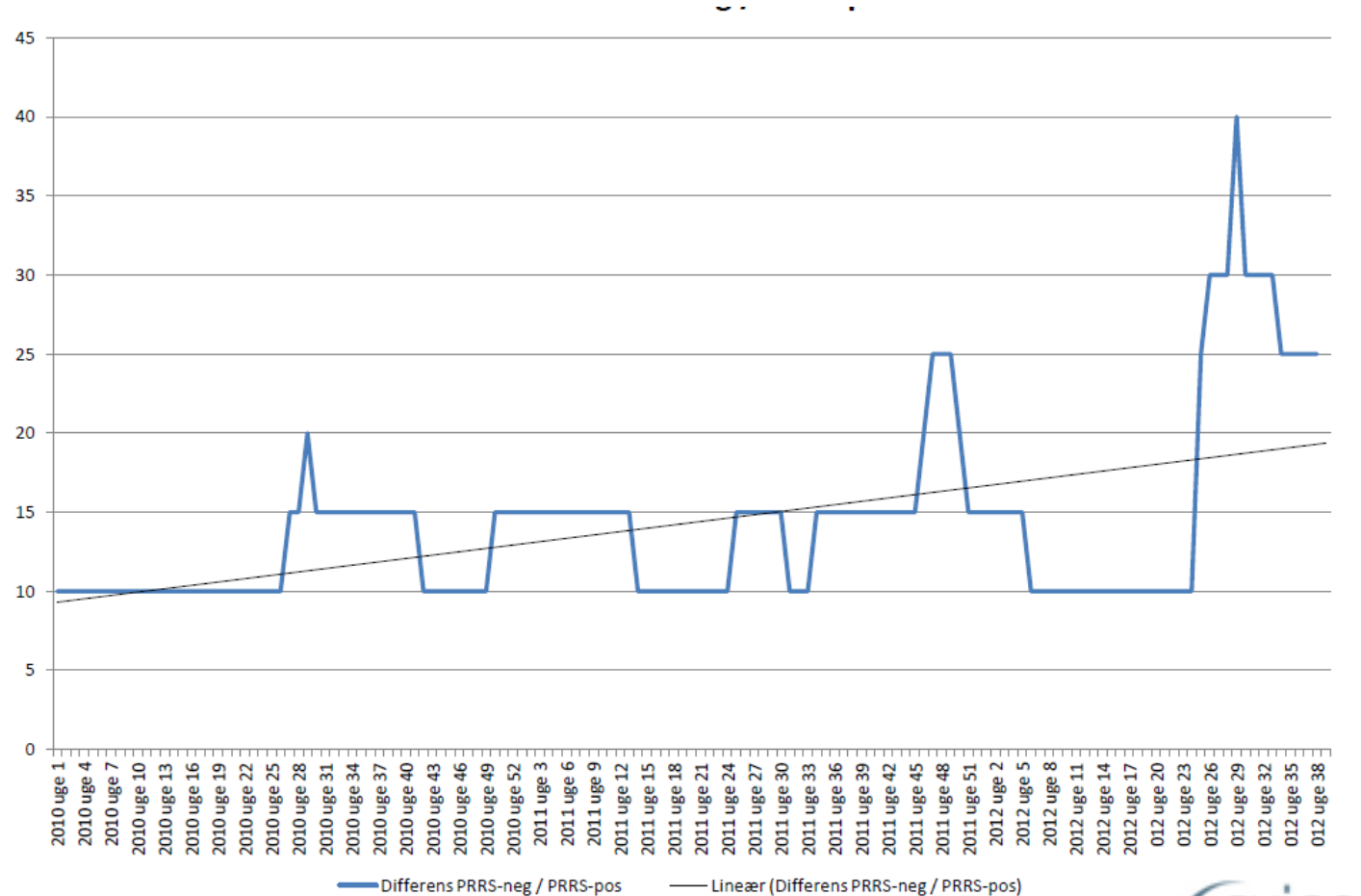
FVST's grænseværdi, løbende 9 måneder



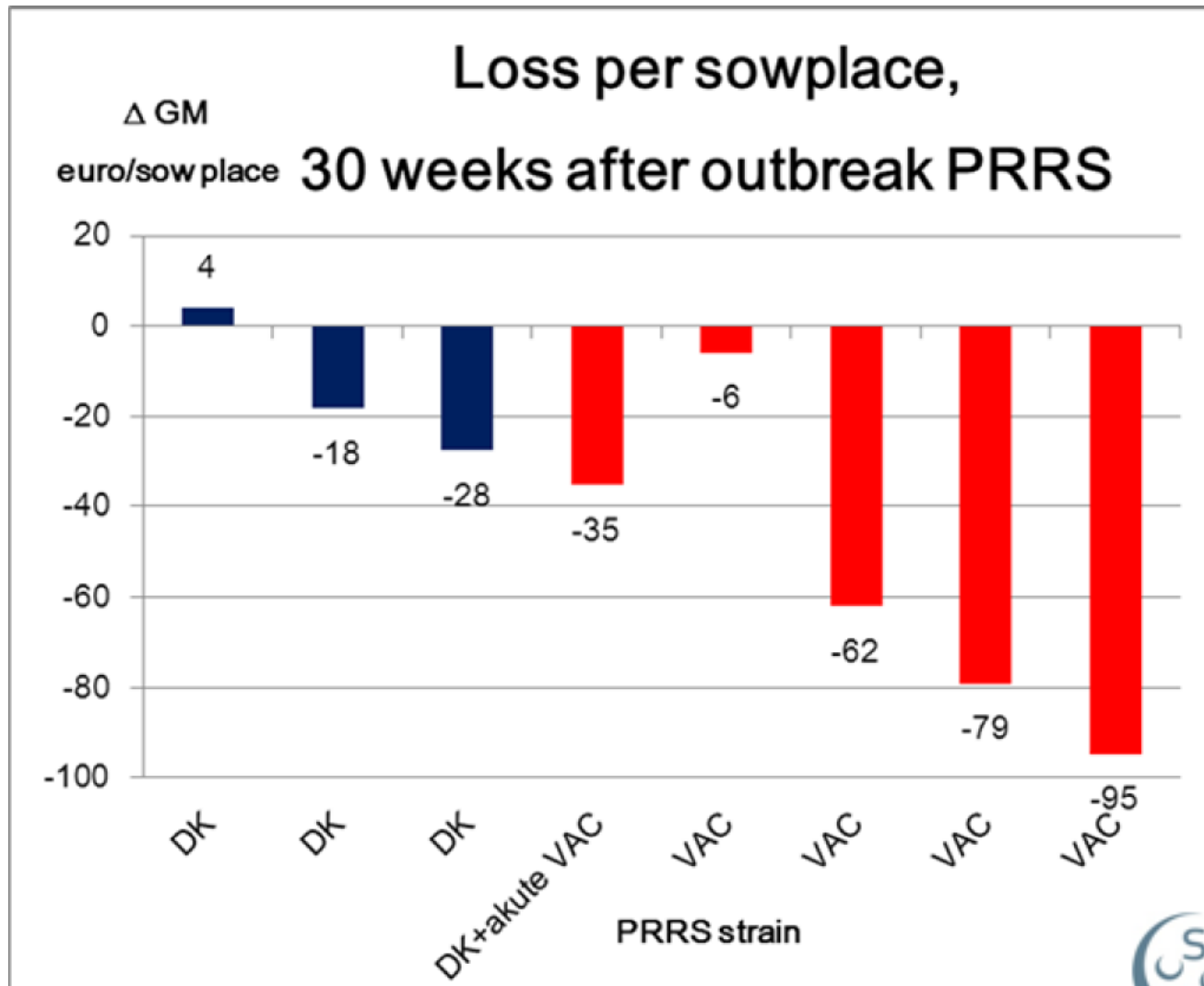
Motivation for PRRS control

- Increase income
- PRRS negative 30 kg. pigs cost 3 pound more
- Control of respiratory diseases
- Reduction of antibiotic consumption
- PRRS can be eradicated without stop in production

Difference PRRS pos/PRRS neg 30 kg pigs for 2010 – 2012 in DKK



Cost of reinfection in sowherds



Cost of PRRS in finisher productions

- Figures from US study in 2011
- 45% of loss in breed herds
- 55% in growing pig herds
 - Higher motality
 - Lower daily gain
 - Higher feed conversion ratio

PRRS control in practice



PRRS control in practice

- All gilts are vaccinated using a live PRRS vaccine
- Piglets born subsequently are PRRS negative
- PRRS virus is eradicated by means of strict all in - all out principles

Vaccination of gilts

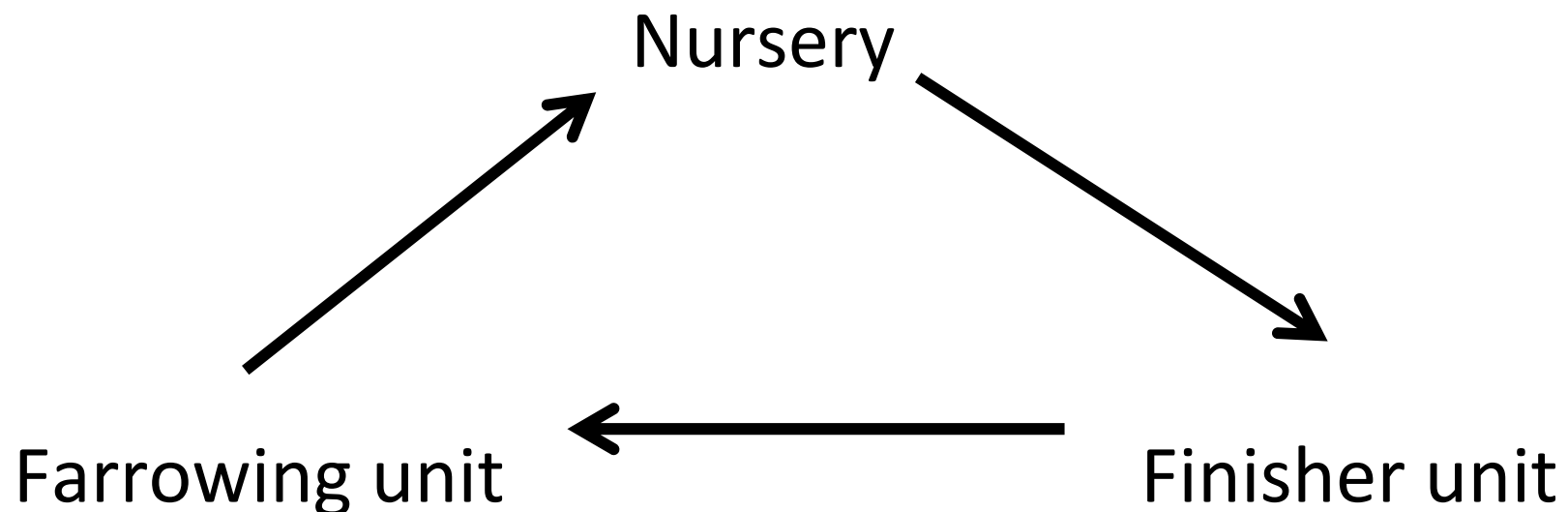
- When gilts are vaccinated with a MLV vaccine, they shed virus for 4-6 weeks
- Vaccination of gilts should always take place in a quarantine room
- The quarantine room should be placed at another site than the sow site
- The gilts should be in quarantine for at least 8 weeks

Multisite production

- Multisite production is the key to successful PRRS control and eradication
- Most important that finishers are moved to another site away from the sowherd
- Stops virus spreading in the herd

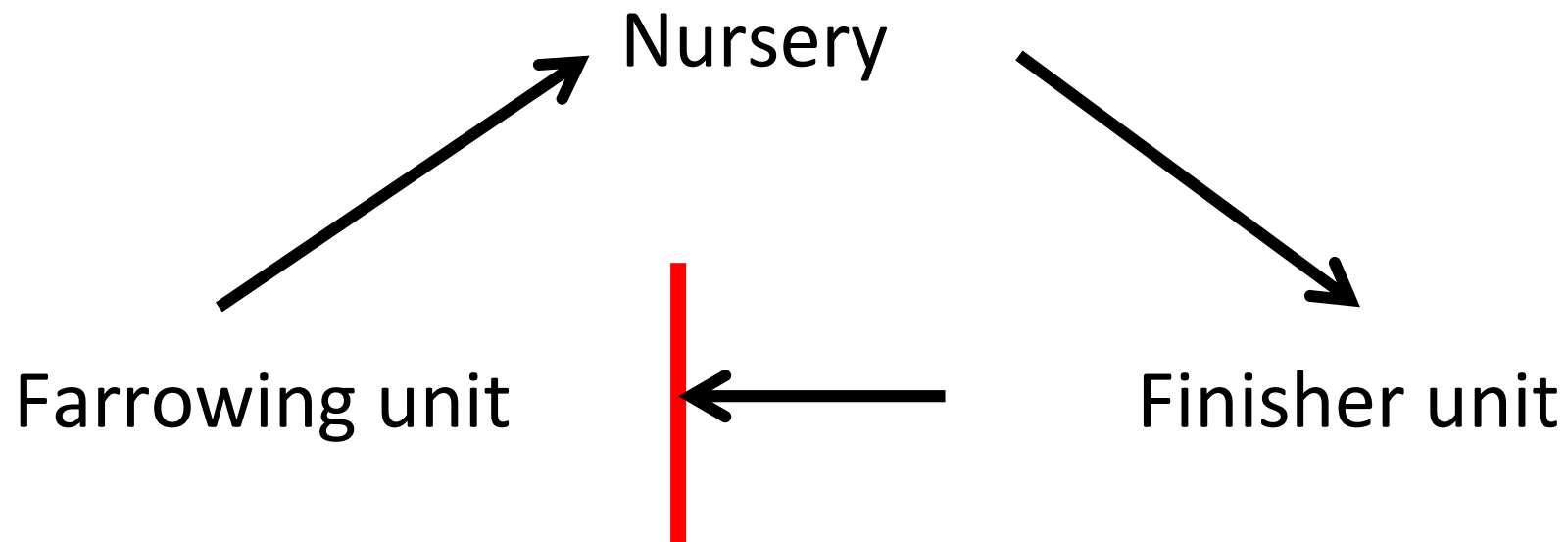
Multisite production

Herd with sows and finishers at one site:



Multisite production

Stop for spreading of diseases in the herd:



Practical PRRS control

- The biggest challenges are the constructions of the buildings



One way flow



Total clearance of nurseries every 8 weeks
Every finisher section is totally cleared 3.8 times
a year

Problematic flow



- Pathway shared through all sections

Creative solutions to obtain an acceptable herd flow



PRRS in finisher pigs

Sowherd with AP 6 + Myc. PRRS Neg

Herd 1

All in/All Out

PRRS neg

Mortality: 1,4 %

Herd 2

300 30 kg pigs every week

**PRRS pos v 50
kg**

Mortality: 3,4 %

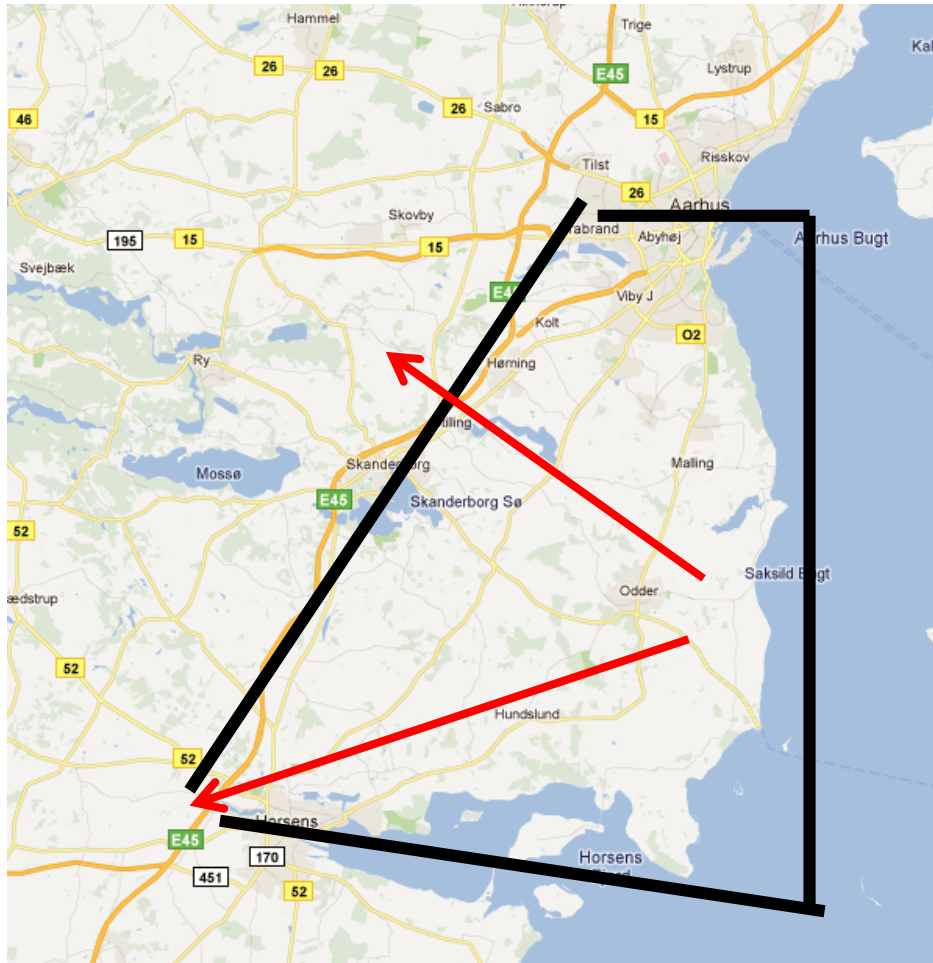
Health Vision 2017

- Cooperation between veterinarians and agricultural organisations
- Voluntary participation in eradication
- On a distant time horizon
- Many farms has been rebuild, because of loose sows housing rules.
- Svinepraksis.dk coordinates the process

Health Vision 2017

- The area is geografically well-defined
- It's bordered to the north, east and south by coast and urban areas
- To the west the area is bordered by the E45 and lakes
- The risk of airborne reinfection is thereby reduced

Health Vision 2017



Health Vision 2017

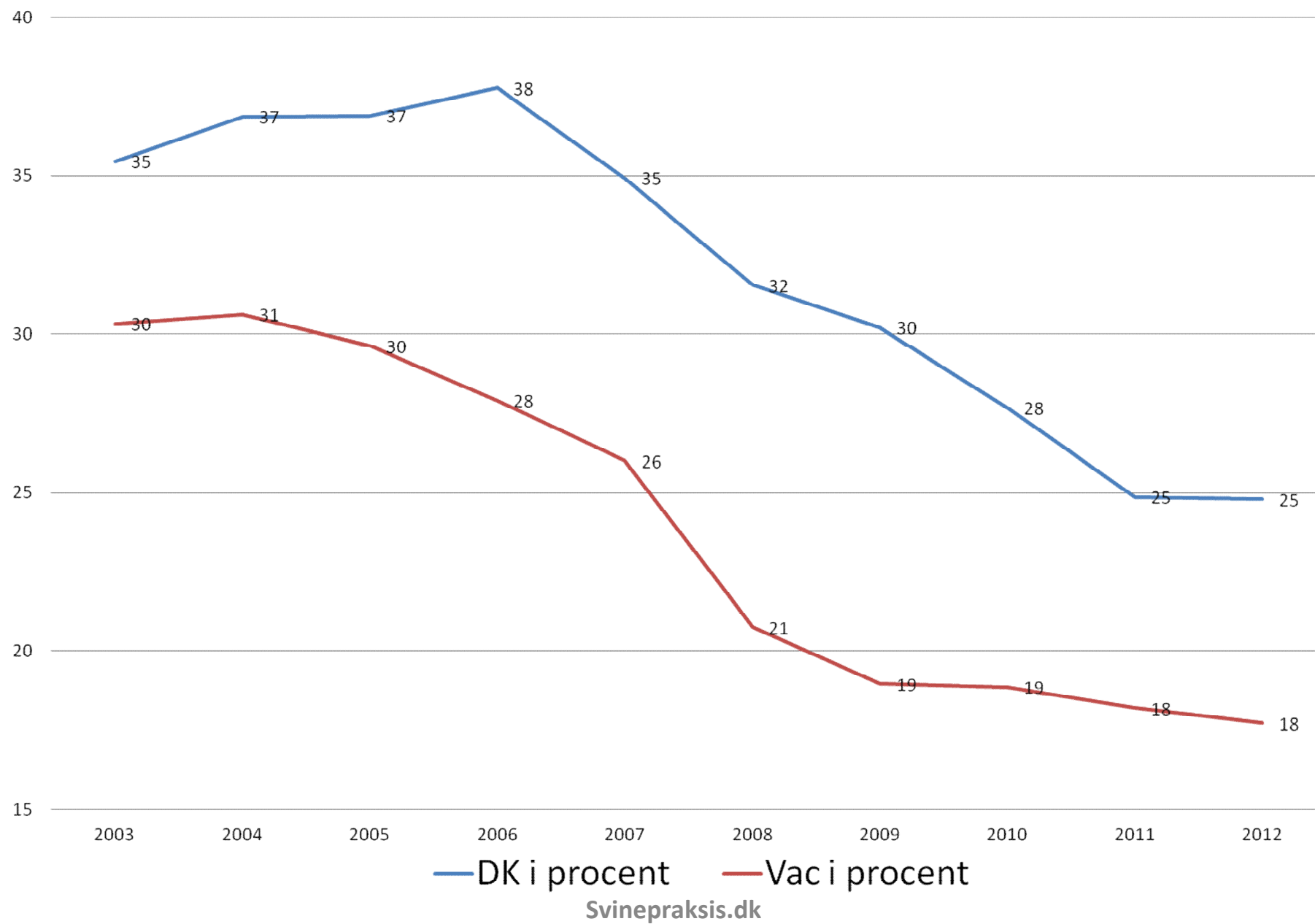
Animal flow in the area:

- A large number of sow herds
- Roughly no pigs are transported into the area
- There are no plans to regulate the transportation of pigs at this moment

Future perspective

- Health Vision 2017 is to be seen as a pilot project for an upcoming national PRRS strategy
- At this time several smaller regional projects are being scheduled
- The acknowledgement of PRRS influence on swine health and the opportunities of eradication are spreading within the swine industry

Percentage of PRRS positive farms in DK



Conclusion

- PRRS can be eliminated while in full production
- The biggest challenge is rebuilding the units to obtain all-in all-out
- Possible to control other respiratory diseases
- Reduction in medicine consumption
- Improved economy

Thank you for your attention

