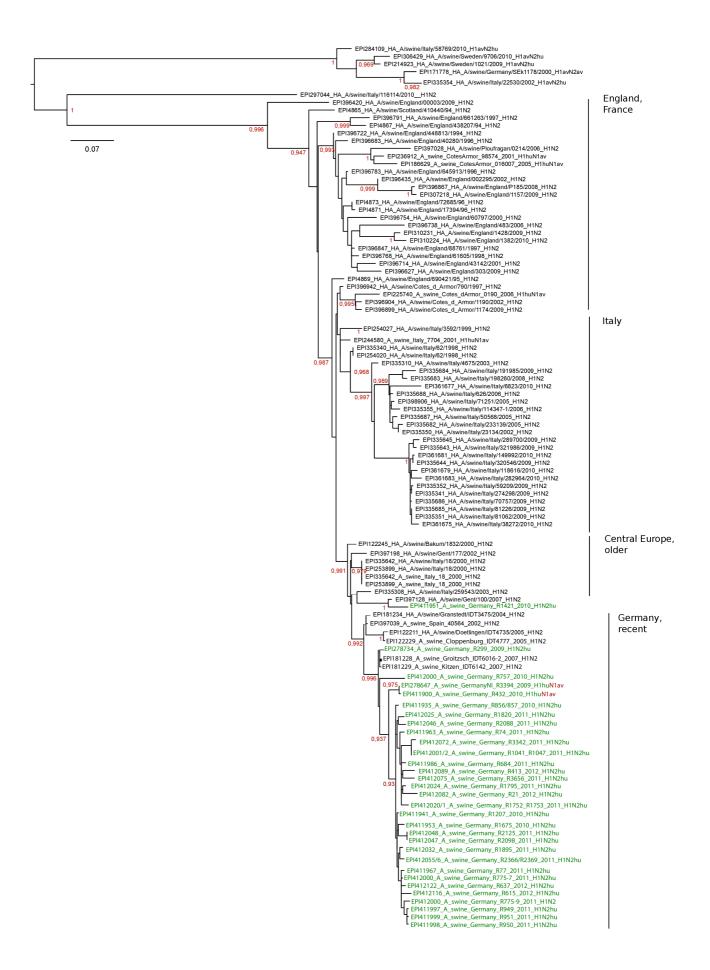
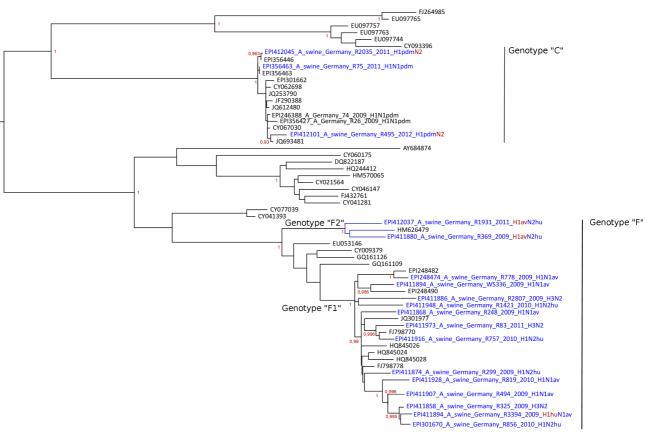
Legend to supplemental figure S1. Phylogenetic analysis in a maximum likelihood framework (PhyML) of the hemagglutinin HA1 genome segment of porcine influenza A viruses of subtype H1(N2) detected in selected swine herds in the Northwest of Germany, 2009 - 2012. Tree is drawn to scale as indicated by the scale bar. EpiFlu database accession numbers can be retrieved from supplemental Table S1b. Further sequences have been extracted from GenBank or the EpiFlu databases and their accession numbers are indicated in the trees. Details of the phylogenetic analysis are given in the Methods section.

#### Supplemental figure 1.

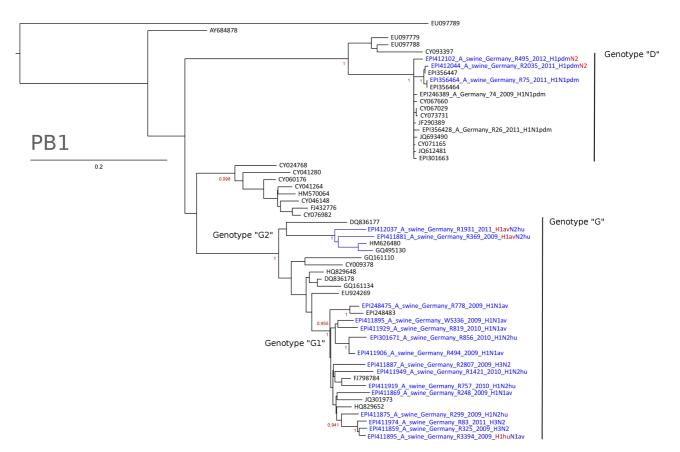


Legend to supplemental figure S2. Phylogenetic analysis in a maximum likelihood framework (PhyML) of "internal" genome segments of porcine influenza A viruses detected in selected swine herds in the Northwest of Germany, 2009 - 2011. Trees are drawn to scale as indicated by the scale bar. Isolates analyzed in the frame of this study are shown in blue; genotyping of these isolates on basis of the phylogenetic analyses is presented in Table 2. EpiFlu database accession numbers can be retrieved from supplemental Table 1Sb. Further sequences have been extracted from GenBank or the EpiFlu databases and their accession numbers are indicated in the trees. Details of the phylogenetic analysis are given in the Methods section. A – PB2, B – PB1, C – PA, D – NP, E – M, F – NS.

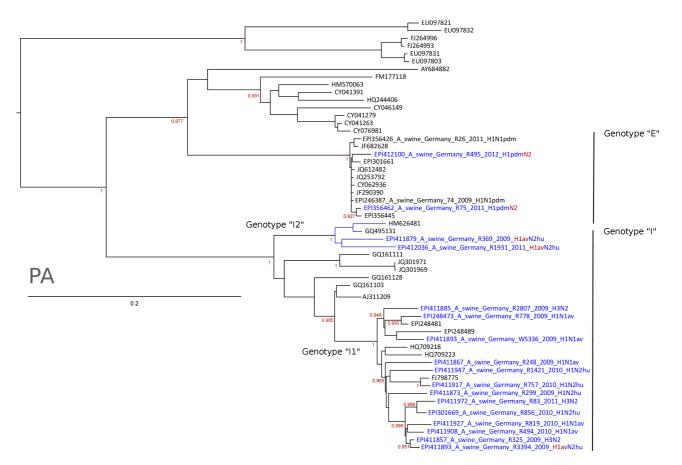
#### Supplemental figure 2A.



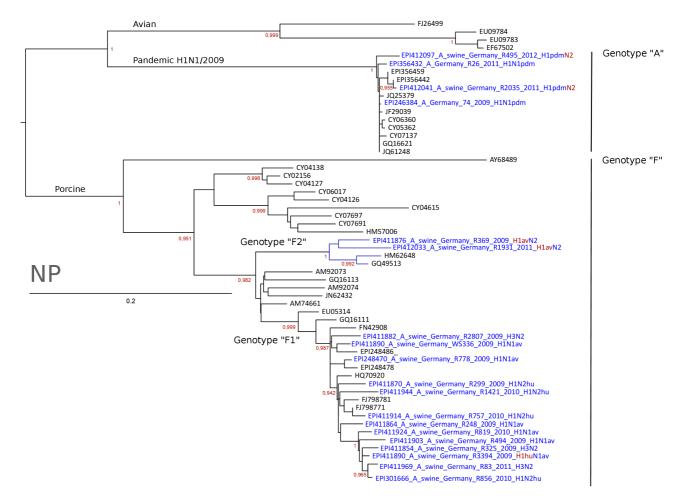
## Supplemental figure 2B.



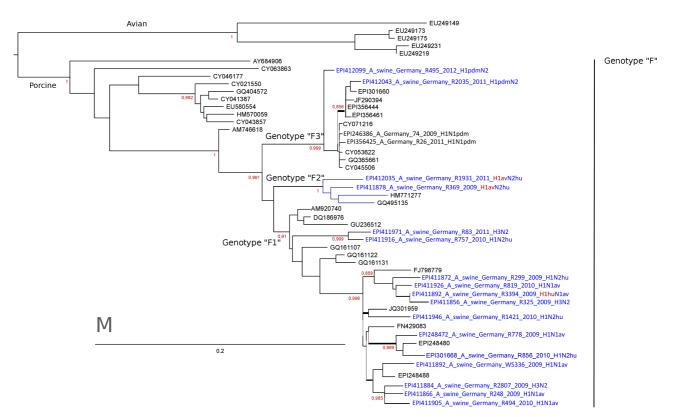
## Supplemental figure 2C.



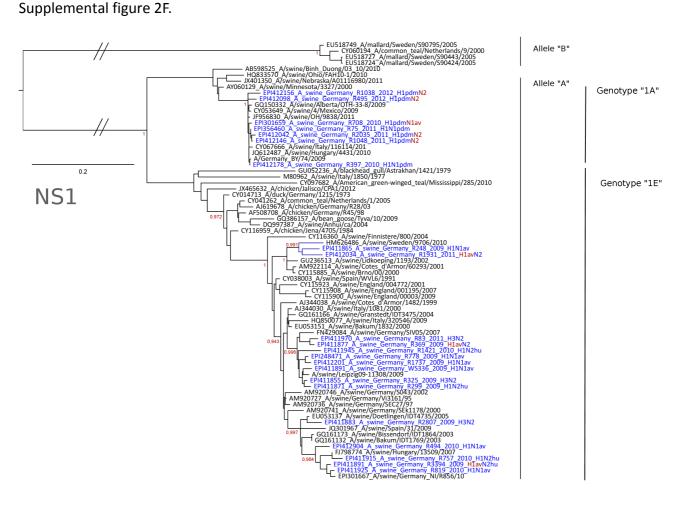
#### Supplemental figure 2D.



#### Supplemental figure 2E.



#### Supplemental figure 2F.



# Project: "SIV infection and reproductive disorders in sow herds"

Date of inquiry:			
Lab-number of corres	ponding samples:	:	
Votovinoviov (vovo fi	wat 10 ama)		
Veterinarian (name, fi	rst name)		
Zip code, city			
Farmer (name, first na	ame)		
Zip code, city			
Veterinarian: I declare the and publication by the Figure 1			
☐ yes	□ no		

I. He	erd type and size
	Farrow-to-finish (slaughter pig market weight ca. 115 kg)
	Farrow-to-feed (piglet market weight 28 kg)
	Farrow-to-wean (piglet market weight 8 kg)
	Increase in the number of sows since 2009
	□ yes □ no
	Number of producing sows
	Number of places for weaners
	Number of places for fatteners
<b>II.1</b> II.1.1	Utilisation concept of the building with farrowing units Which production stages are in the same building the farrowing units are? [multiple answers possible]  none
	nursery units
	☐ fattening units
	gilt acclimatisation unit
	insemination centre
	gestating sow unit
II.2	Management lactating sows and suckling pigs
II.2.1	Weaning age
	21-22 days of age
	23-24 days of age

FB-N	r
	25-26 days of age
	26-27 days of age
	☐ > 28 days
II.2.2	Batch farrowing system
	none
	1 week
	2 week
	☐ 3 weeks
	☐ 4 weeks
	other
II.2.3	All-in-all-out policy in the farrowing units
	yes
	□ no
	Separate farrowing unit for sows that do not belong to a regular batch (e.g.
after r	return to oestrus)
	yes
	no no
II.2.5	Cross-fostering of suckling pigs (number of pigs)
	□ < 5 %
	□ 5 − 10 %
	not specified
II.2.6	Disposition of runting or diseased piglets after weaning
	stay in the farrowing pen
	are moved to a pen for diseased pigs in the same unit

FB-Nr	
are moved to a unit for diseased pigs	
euthanasia	
other (e.g. nurse)	

II.3	Management insemination centre
II.3.1	All-in-all-out policy in the insemination centre
	yes
	□ no
II.4	Management gestating sows
II.4.1	All-in-all-out policy in the unit(s) of gestating sows
	yes
	□ no
II.4.2	Housing of the gestating sows
	gestation crates
	☐ loose housing system

## II.5 Vaccination program - sows

□ both

FB-Nr.

Vaccination against	Yes	No	Vaccine	Herd vaccination*	Group
SIV					
PRRS					
PCV2					
Erysipelas					
Parvovirus					
Rhinitis atrophicans					
E. coli/ Cl. perfringens					
Autogeneous vaccines					
against S. suis/ H. parasuis					
Other					

<sup>\*</sup> Vaccination of the entire sow herd at one time; \*\* vaccination of batches of sows at a specified time of the reproduction cycle (e.g. during mid-gestation or suckling period)

FB-Nr.	
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# II.6 Vaccination program - piglets

Vaccination against	Yes	No
SIV		
PRRS		
PCV2		
Mycoplasma hyopneumoniae		
Ileitis		

III.	Management gilts	
III.1	Replacement gilts	
III.1.1	Origin	
	self recruitment	
	purchase	
If purc	chased:	
III.1.2	Quarantine/Acclimati	sation
	yes	no no
If yes:		
III.1.3	Duration of quarantin	ne/acclimatisation period
	≤ 5 weeks	
	☐ 6-7 weeks	
	≥ 8weeks	
	not specified	
III.1.4	Nose-to-nose-contac	t to older sows during acclimatisation
	□ yes [	_ no

FB-Nr. \_\_\_\_\_

=B-Nr
II.1.5 Site of the acclimatisation barn
separate location
separate building but same location as farrowing barn
separate unit in the farrowing barn

# III.2 Vaccination program - gilts

Vaccination against	Yes	No
SIV		
PRRS		
PCV2		
Erysipelas		
Parvovirus		
Rhinitis atrophicans		
Glässer Disease		

FB-N	lr
IV.	Course of the disease
IV.1	When (prior to sample submission) did the disease in the sow herd start?  ☐ 1-3 weeks ☐ ≥ 3 weeks ☐ not specified
IV.2	Which sows were affected?  ☐ only ≥ 2 <sup>nd</sup> parity sows ☐ only first litter sows ☐ both

# IV.3 Occurrence of reproductive disorders?

[multiple answers possible]

not specified

Reproduction stage	Yes	No
1-23 days of gestation		
(return to oestrus)		
24-38 days of		
gestation (return to		
oestrus/abortion)		
39-60 days of		
gestation (return to		
oestrus/abortion)		
61-100 days of		
gestation (return to		
oestrus/abortion)		
> 100 days of		
gestation (abortion)		
Birth of stillborn/ weak		
born piglets		
No reproductive		
disorders		

IV.4 Which other clincal symptoms appeared in sows?

[multiple answers possible]

fever > 40,0°C

under temperature < 37,5 °C

reduced feed intake

anorexia

apathy

cough

nasal discharge and/or sneezing

laboured breathing

cyanosis

sudden death

no clinical symptoms

FB-Nr. \_\_\_\_\_