

Questionnaire

General information about the farm

1. production type and how many of them

- ☐ Sucking piglets
- ☐ Weaned piglets
- ☐ Rearing Pigs
- ☐ Gilts
- ☐ Sows
- ☐ Boars
- ☐ Fattening pigs

Fattening area

- 1. How many barn buildings are there?**
- 2. when was the stable building built?**
- 3. how many intended animal places are there in total in the barn under investigation?**
- 4. how many intended animal places are there in total in the compartment?**
- 5. how many age groups are there in these stalls?**
- 6. how many pens are there in the compartment?**
- 7. how many animals are currently in the compartment?**
- 8. date of housing (of sampled animals)?**
- 9. Type of husbandry**
 - ☐ Conventional
 - ☐ Do you participate in any special programs?
 - ☐ Yes:
 - ☐ No
 - ☐ Organic
 - a) When did you switch to organic farming?
 - b) Do you belong to an association?
 - ☐ Yes:
 - ☐ No
- 10. What breed/s of pigs do you keep?**
.....

11. Which and how many of the listed animal species are still kept on this farm? Do these animals have contact with the pigs (☐ yes/ ☐ no)?

- ☐ Cattle
- ☐ Poultry
- ☐ Sheep
- ☐ Goats
- ☐ Horses
- ☐ Dogs
- ☐ Cats
- ☐ Rabbits, guinea pigs
- ☐ Others:

12. Which persons take care of the animals? (with number of employees, if applicable)

- ☐ Farm manager
- ☐ Family members
- ☐ Trainees
- ☐ Semi-skilled workers
- ☐ Unskilled workers
- ☐ Skilled workers
- ☐ Others:

(a) Employees:

- ☐ are responsible for only one particular barn
- ☐ change between the stables
- ☐ have access to all buildings of the farm.

(b) Is there a change of personnel on weekends, holidays or at vacation time?

- ☐ Yes
- ☐ No

13. Which persons have access to the inventory?

- ☐ Farm employees
- ☐ Veterinarian
- ☐ Family members
- ☐ Visitors (e.g., transporters, consultants, feeders, pest control, craftsmen).
- ☐ Other individuals:

14. Do caregivers have private contact with other animals?

- ☐ Yes, to:
- ☐ No

Specific information about the farm

1. How is the farm managed?

- ☐ closed system
- ☐ piglet rearing operation with attached fattening operation
- ☐ pure fattening operation

2. Where do the fattening pigs come from?

- ☐ No animal purchases in the fattening area.
- ☐ Purchases from one origin

- ☐ Purchases from several origins
- ☐ in one delivery
- ☐ in different deliveries
- ☐ from the region
- ☐ from further away
- ☐ always the same supplier
- ☐ different suppliers
- ☐ supplier last changed (date):
- ☐ Do you mix animals from different origins? (or do they stand separately in the barn)
 - ☐ Yes
 - ☐ No

3. If closed system, how is the flat deck area usually occupied?

- ☐ Continuous
- ☐ In-out
 - ☐ Pen
 - ☐ Stable

☐ **no spatial separation between flat-deck piglets and fattening pigs.**

4. how is the fattening area usually occupied?

- ☐ continuously
- ☐ in-out
 - ☐ Pen
 - ☐ Stable

5. how long is the fattening period?

6. Is there any rehousing during the fattening period?

- ☐ Yes
- ☐ No

7. Are individual pigs moved during the fattening period?

- ☐ Yes
- ☐ No

Surrounding area

1. are there in the immediate vicinity (radius up to approx. 3 km)

- ☐ Pig farms
- ☐ Cattle farms
- ☐ Poultry farms
- ☐ Sheep and goat farms
- ☐ Keeping horses
- ☐ Water bodies with waterfowl
- ☐ Wildlife and zoo animal holdings
- ☐ Slaughterhouses
- ☐ Processing plants
- ☐ Sewage treatment plants

- ☐ Rendering plants
- ☐ Composting plants
- ☐ Biogas plants
- ☐ Marketing halls
- ☐ Agricultural land
- ☐ Forest
- ☐ Hospital

Hygiene and cleaning

1. which hygiene measures are carried out before entering the stable?
 - ☐ None
 - ☐ Changing clothes/protective clothing/work clothes
 - ☐ Gloves
 - ☐ Hand cleaning
 - ☐ Hand disinfection
 - ☐ Boot cleaning
 - ☐ Boot disinfection
 - ☐ Boots are used ONLY for this barn and therefore are not cleaned every time.
2. how is access to the stalls done?
 - ☐ There is no hygiene lock.
 - ☐ There are disinfection mats/disinfection tubs for all stalls.
 - ☐ Each stall has its own disinfection mat/disinfection tray.
3. what other protective measures do you have?
 - ☐ None
 - ☐ Fencing around the facility.
 - ☐ Lockable doors
 - ☐ Other:
4. is there a disinfection drive-through tub for vehicles?
 - ☐ Yes
 - ☐ No
5. which of the following items do you use for multiple stalls/exits without prior disinfection?
 - ☐ Scales
 - ☐ Feed truck
 - ☐ Cleaning equipment
 - ☐ Drift boards
 - ☐ Sling
 - ☐ Spray guns
 - ☐ Marking pens
 - ☐ Tools
 - ☐ Ear marking pliers
 - ☐ Other:.....
 - ☐ Does not apply
 - ☐ Each barn has its own material.
6. do you share e.g. vehicles, machines or other equipment with other farms (joint use)?

- ☐ Yes
- ☐ No

7. When is cleaning and disinfection of compartments/outlets performed?

- ☐ After each stabling
- ☐ Less frequently than after each stall out.
- ☐ Periodically, interval:
- ☐ Never

8. When does cleaning and disinfection of drift paths outside of compartments occur?

- ☐ Daily
- ☐ Weekly
- ☐ Monthly
- ☐ After each stabling
- ☐ Rarely
- ☐ Never

9. Which includes cleaning and disinfecting the compartments?

- ☐ Floor
- ☐ Box partitions.
- ☐ Walls at animal height
- ☐ Walls up to the ceiling
- ☐ Ceiling
- ☐ Ventilation shafts
- ☐ Windows
- ☐ Outlet
- ☐ Pasture
- ☐ Piping system for drinking water
- ☐ Watering troughs
- ☐ Feed troughs/automatic feeders

10. What do you use to clean the stalls?

- ☐ Pitchfork, broom, or similar.
- ☐ Water hose
- ☐ High-pressure cleaner
- ☐ Other:

11. How long do you leave the cleaning agent to work?

- ☐ < 1h
- ☐ 1-4h
- ☐ > 4h
- ☐ Different
- ☐ No cleaning agent is used.

12. Do you allow the surfaces to dry after cleaning?

- ☐ Yes
- ☐ No

13. How long do you leave the disinfectant on?

- ☐ < 1h
- ☐ 1-4h

- ☐ > 4h
- ☐ Different
- ☐ No disinfectant is used.

14. What disinfectants do you use?

- ☐ Acids
- ☐ Aldehydes
- ☐ Oxygen separators
- ☐ Alcohols
- ☐ Chlorine and chlorine releasers
- ☐ Alkalis
- ☐ Phenol derivatives
- ☐ Quaternary ammonium compounds
- ☐ Agents approved for organic farming
- ☐ No disinfectant is used.
- ☐ Others:

15. Is there a disinfection plan?

- ☐ Yes
- ☐ No

16. Which pests do you control and with what? 1=traps, 2= poison, 3= biological

- ☐ Rodent pests, storage:
- ☐ Flies
- ☐ Other

17. Where is the manure/slurry stored?

- ☐ Inside the building
- ☐ Outside on the premises
- ☐ Field
- ☐ On concreted slab
- ☐ In a closed container
- ☐ In an open container
- ☐ Unpaved ground in the yard.

18. Where are dead animals stored?

- ☐ In the stall compartment
- ☐ On the grounds outside the stall compartment.

Diseases, use of drugs and antibiotics

1. Can sick animals be housed in isolation from the others?

- ☐ Yes
- ☐ No

2. Where do sick pigs stay?

- ☐ In the pen
- ☐ they still have access to the run/pasture
- ☐ in a sick pen
- ☐ in a sick compartment, -stable

3. Is there a quarantine area?

- ☐ Yes
 - ☐ No
4. Do you use homeopathics on your pigs and if so, how often?
- ☐ No
 - ☐ Yes, rarely
 - ☐ Yes, regularly
 - ☐ Yes, very often
 - ☐ Yes, always
5. Are your pigs treated with antiparasitics (e.g., Panacur, Rintal, Flubenol, Dectomax, Ivomec, Belamisol)?
- ☐ No
 - ☐ No, but exercise and/or pasture areas are changed regularly.
 - ☐ Yes, regularly
 - ☐ Yes, irregularly
6. Please estimate how often the following diseases occur in your herd.
- a. Suckling piglets, weaners, finishing pigs, sows (never, rarely, often, regularly, always):
 - ☐ Inflammation of the joints
 - ☐ Hoof diseases
 - ☐ Neurological diseases (fever, disturbed general condition, swelling of joints, animal holds head crooked, convulsions, animal lies sideways with rowing legs on the floor)
 - ☐ Diarrhea
 - ☐ Diseases of the respiratory system
 - ☐ Skin diseases
 - b. Sows additionally:
 - ☐ Diseases of the urinary and genital system.
 - ☐ Postpartum diseases (decrease or cessation of milk production, disturbed general condition, fever, inflammation of the mammary gland)
 - c. General (never, rarely, often, regularly, always):
 - ☐ Injuries to teats
 - ☐ tail biting
 - ☐ Cannibalism
 - ☐ technopathies
7. Please estimate how often antibiotics are used
- ☐ Never
 - ☐ Maximum once for fattening pigs
 - ☐ Rarely
 - ☐ Sometimes
 - ☐ Often
 - ☐ Always
8. Please estimate how antibiotics are used
- ☐ Group treatment (☐ Never, ☐ Rarely, ☐ Sometimes, ☐ Often, ☐ Always).
 - ☐ single animal treatment (☐ never, ☐ rarely, ☐ sometimes, ☐ often, ☐ always).
9. Please estimate how the animals receive antibiotics
- ☐ Through feed (☐ never, ☐ rarely, ☐ sometimes, ☐ often, ☐ always).

- ☐ About the drinking water (☐ never, ☐ rarely, ☐ sometimes, ☐ often, ☐ always).
Are the drinking water systems cleaned afterwards? ☐ Yes ☐ No
- ☐ Via an injection (syringe).

10. What preparations/active ingredients are used?

11. Are your pigs vaccinated against?

- ☐ Mycoplasma
- ☐ Circoviruses (PCV2)
- ☐ PRRSV
- ☐ Lawsonia (ileitis)
- ☐ Haemophilus parasuis (Glässers disease)
- ☐ Actinobacillus pleuropneumoniae
- ☐ vaccinated with herd-specific vaccines.
- ☐ vaccinated with autovaccines.

12. Are your pigs treated with antibiotics before purchasing new animals?

- ☐ Yes, always
- ☐ No, never
- ☐ Sometimes (how often, criteria?)

13. Are your animals treated with antibiotics before weaning?

- ☐ Yes
- ☐ No
- ☐ Sometimes (how often, criteria?)

14. Are your animals treated with antibiotics before regrouping?

- ☐ Yes
- ☐ No
- ☐ Sometimes (how often, criteria?).

15. Are your animals treated with antibiotics before regrouping?

- ☐ Yes
- ☐ No
- ☐ Sometimes (how often, criteria?)

16. Are your animals treated with antibiotics before transport?

- ☐ Yes
- ☐ No
- ☐ Sometimes (how often, criteria?)

17. If one animal in the group becomes ill and is given antibiotics, are the other animals in the group also treated with antibiotics as a precaution?

- ☐ Yes
- ☐ No
- ☐ Sometimes (how often, criteria?).

18. Has the group of animals under study been treated with antibiotics since being housed?

- ☐ Yes, all
- ☐ Yes, individual animals (how often, criteria?)
If yes, which antibiotic (animals examined/others)?

- Diagnosis (A=respiratory, B=gastrointestinal, C=joints, D= CNS, E=skin, F=combat, G=claws, H=urinary and sexual tract, I=tail biting, cannibalism)?
 - How many animals?
 - How many days?
 - Which antibiotic?
 - Dosage per animal?
 - How administered (O=oral, S=syringe, L=local)?
 - ☐ No
19. Have the other groups of animals received antibiotic treatment since being housed?
- ☐ Yes, all
 - ☐ Yes, individual animals
 - ☐ No
20. What diseases are present in the herd at the time of the examination?

Husbandry

1. With what is the lying surface bedded?
 - ☐ Cellulose products
 - ☐ Spelt husks
 - ☐ Straw
 - ☐ Other:
 - ☐ there is no interspersed lying area.
2. Is there a slatted floor?
 - ☐ Yes
 - ☐ No
3. Do your animals have a free range or live outdoors?
 - ☐ Yes:
 - ☐ → in summer
 - ☐ → in spring
 - ☐ → in autumn
 - ☐ → in winter
 - ☐ Year-round outdoor
 - ☐ Free range
 - ☐ No, neither outdoor nor free-range.
4. If outdoor or free-range:
 - a. Does the run have a roof?
 - ☐ yes, completely
 - ☐ yes, partially
 - ☐ no
 - b. Is the floor in the run paved?
 - ☐ Yes, completely

- ☐ Yes, partially
- ☐ No
- c. What is the type of floor in the run or outdoor enclosure?
 - ☐ Pasture land
 - ☐ Earth soil
 - ☐ Concrete
 - ☐ Plastic
 - ☐ Metal
 - ☐ Is there additional burrowing material/litter (e.g., in the form of straw)?
 - ☐ Yes
 - ☐ No
- d. Is the exercise area used by different animal groups (sows, fattening pigs, other animals) at the same time?
 - ☐ Yes
 - ☐ No
- e. Is the exercise area used by different groups of animals consecutively?
 - ☐ Yes
 - ☐ No
- f. Can mice, rats, and birds get into the exercise areas?
 - ☐ Yes: ☐ Mice ☐ Rats ☐ Birds
 - ☐ No
- g. Where does the drinking water in the outdoor facility come from?
 - ☐ Public water supply
 - ☐ Well with drinking water quality
 - ☐ Well without testing (livestock well).
 - ☐ No extra water
- h. Do livestock otherwise have access to water (e.g., stream/pond)?
 - ☐ Yes
 - ☐ No
- i. Are there puddles or boggy areas in the run?
 - ☐ Yes, always
 - ☐ Yes, at times
 - ☐ No, never
- 5. What type of stall do you have?
 - ☐ Deep litter barns
 - ☐ Sloping floor barns
 - ☐ Open-front barns
 - ☐ Other:
- 6. Soil
 - a. What is the type of floor in the barn?

- ☐ Fully slatted floor
- ☐ Partially slatted floor
- ☐ Full slatted floor with reduced slat percentage
- ☐ Floor fixed flat
- ☐ Deep litter/kicking manure method
- ☐ Other: ...

b. What material is the floor in the barn made of?

- ☐ Earthen floor
- ☐ Concrete
- ☐ Plastic
- ☐ Metal

7. What kind of ventilation is available?

- ☐ active (forced ventilation):
- ☐ passive (free ventilation):

8. What heating system is present?

Heating type:

9. Temperature in the barn?

Feeding

1. Origin of the feed

- ☐ 100% company-owned
 - ☐ Partly own
 - ☐ purchased feed:
 - ☐ 1 supplier
 - ☐ several suppliers
- number of suppliers, constant or changing:

2. Do you use the farm's own basic feed (e.g. corn silage or green fodder) as supplementary feed?

- ☐ Yes
- ☐ No

3. Do you offer roughage, e.g. in the form of hay, green fodder or silage?

- ☐ Yes, everything from your own farm
- ☐ Yes, in proportions from your own farm
 - number of suppliers, constant or changing?
- ☐ Yes, but not from own company
 - number of suppliers, constant or changing?
- ☐ No

4. Feeding technique

- ☐ Rationed
- ☐ Ad libitum
- ☐ Trough feeding by hand
- ☐ Brewers

- ☐ Liquid feeding
 - ☐ Sensor feeding
 - ☐ Automatic dry feeder
 - ☐ Other: ...
5. How and where is the feed stored?

- ...

Water supply

6. Origin of the drinking water
- ☐ Public water supply
 - ☐ Well with drinking water quality
 - ☐ Wells without testing
7. What types of watering troughs are used?
- ☐ Nipple drinkers
 - ☐ Cup drinkers/bowl drinkers
 - ☐ Trough

Crop farming

1. do you practice crop farming?
- ☐ Yes
 - ☐ No
2. do you apply liquid manure/slurry/manure to the arable land?
- ☐ Yes: - only farm-owned
 - ☐ on-farm and off-farm
 - ☐ Off-farm only
 - ☐ No
3. Do you apply liquid manure/slurry/manure to the grassland areas?
- ☐ Yes
 - ☐ No
4. Do you grow cereals?
- ☐ Yes: exclusively from own farm.
If yes, is straw from fields fertilized with liquid manure/slurry/manure used in your own livestock production?
 - ☐ From own farm as well as bought in
 - ☐ No
5. Is feed produced from these fertilized fields on your own farm and fed to your animals?
- ☐ Yes
 - ☐ No
6. Manure removal
- ☐ Liquid manure
 - ☐ Solid manure

Biogas plant

1. Is this one present?
 - ☐ Yes
 - ☐ No
2. Which substrate is used?
 - ☐ Liquid manure
 - ☐ Manure
 - ☐
3. Is only the farm's own material used?
 - ☐ Yes
 - ☐ No
4. Supplier farms:
 - Animal species:
 - Farm type:
 - Production type (e.g. organic):
5. Is the digestate applied to your own cropland/grassland?
 - ☐ Yes
 - ☐ No

Performance parameters

Daily gain:

Feed conversion ratio:

Loss rate:

Fattening runs per year: