Biosecurity

Thomas Kjeldsen Kusk

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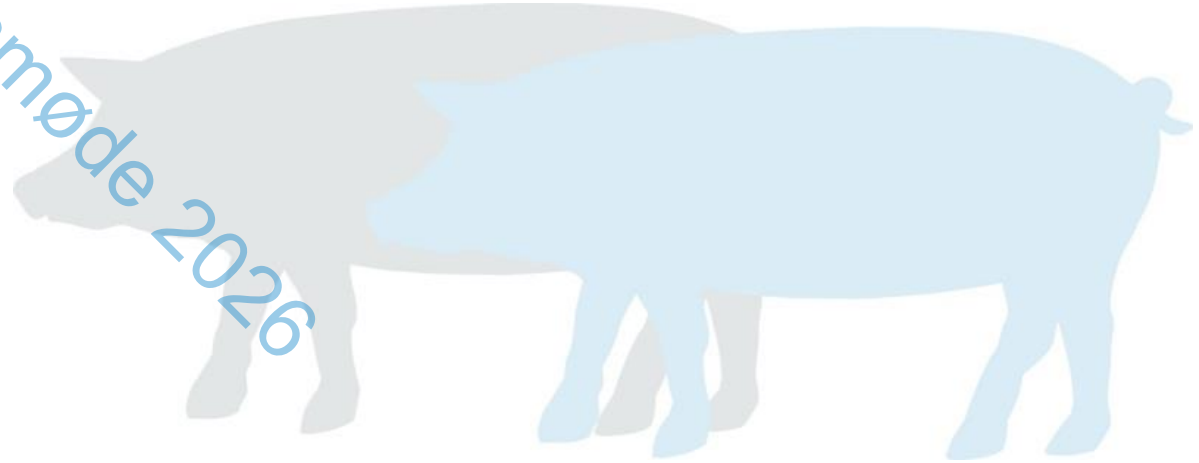

African Swine Fewer

- Always 48 hours quarantine!
- No food from back home
- Hard to kill the virus
- Don’t use the same shoes to go to the farm
- Sweden
- A big threat to Danish pig production

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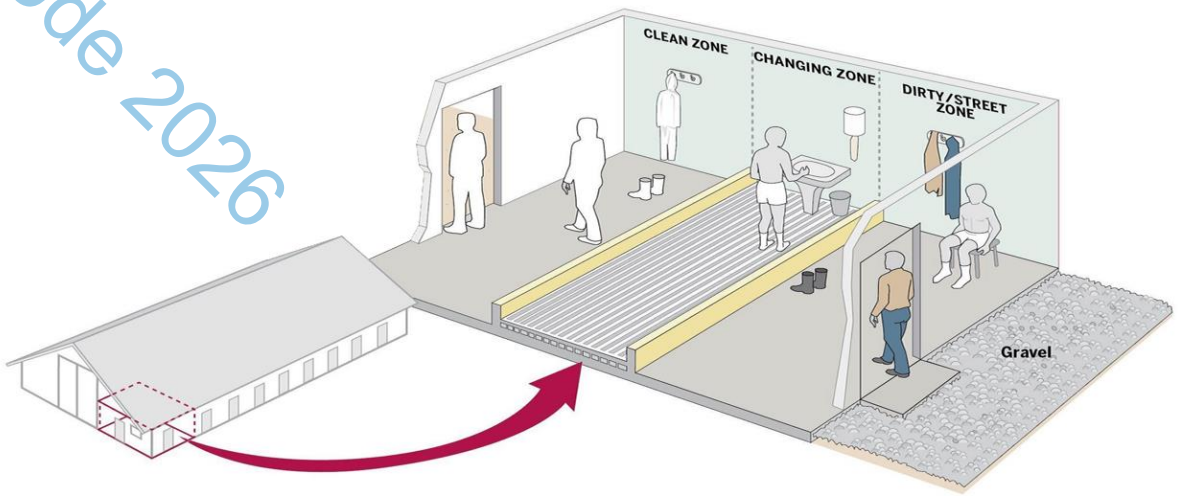

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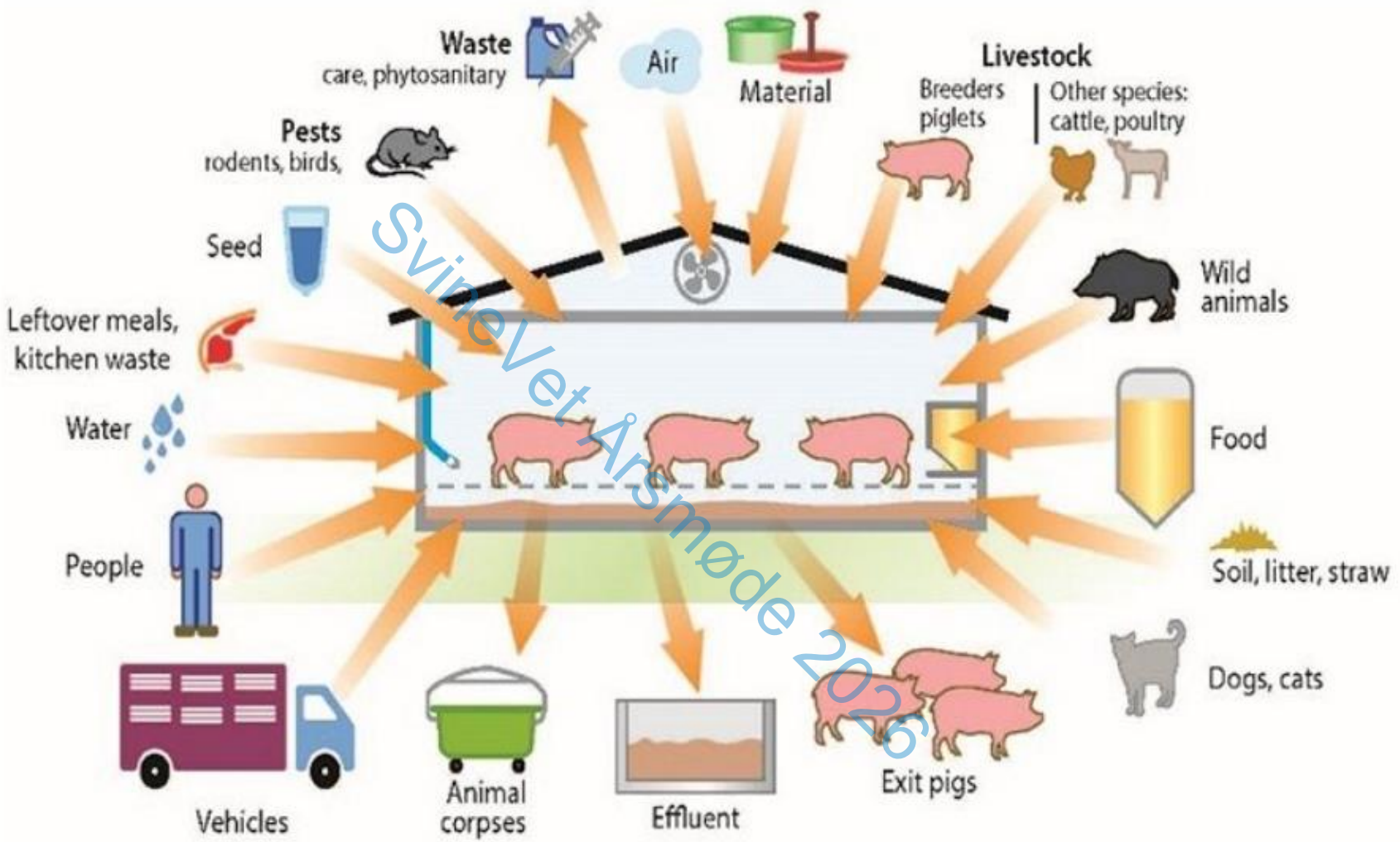
External biosecurity



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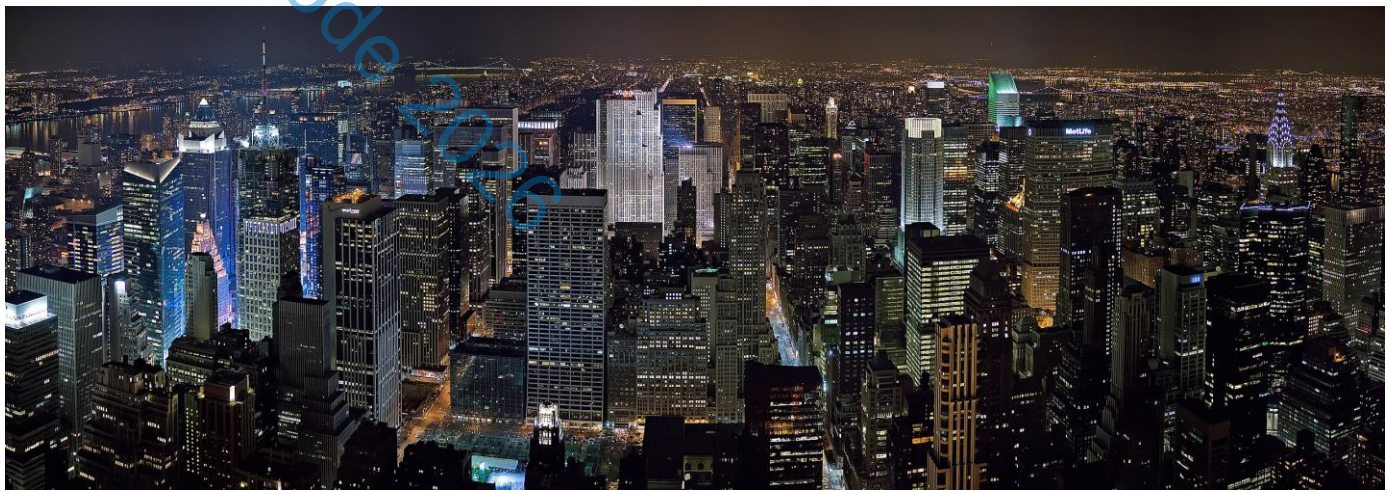
Why is biosecurity so important?

We need to break the routes of infection

- All pigs are born without bacteria and virus
- How can we prevent transmission of pathogens between pigs?
- “a small city”
- New pigs every week – different immunity
- The farrowing stable is like a neonatal department in a hospital



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What is MC REBEL ?

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- **M**anagement **C**hanges to **R**educe **E**xposure to **B**acteria to **E**liminate **L**osses from PRRS
- A set of rules to eliminate PRRS Virus (10 golden rules)
- Management rules to prevent pigs to get infected in the farrowing stable.
- Not only used in PRRS positive stables – works for all bacteria and viruses
- When we move pigs, we make “biological bombs”

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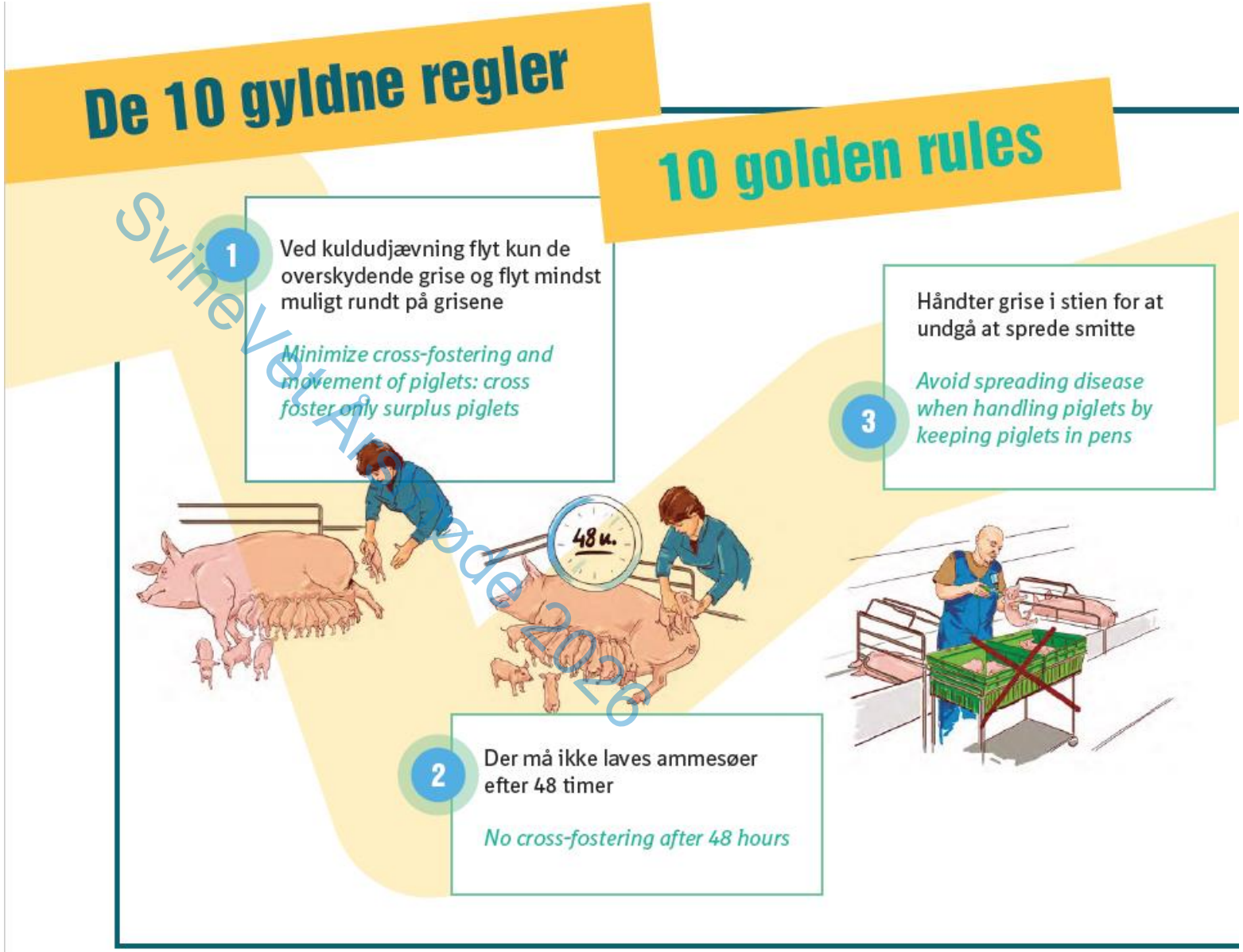
What is MC REBEL ?

- 10 golden rules



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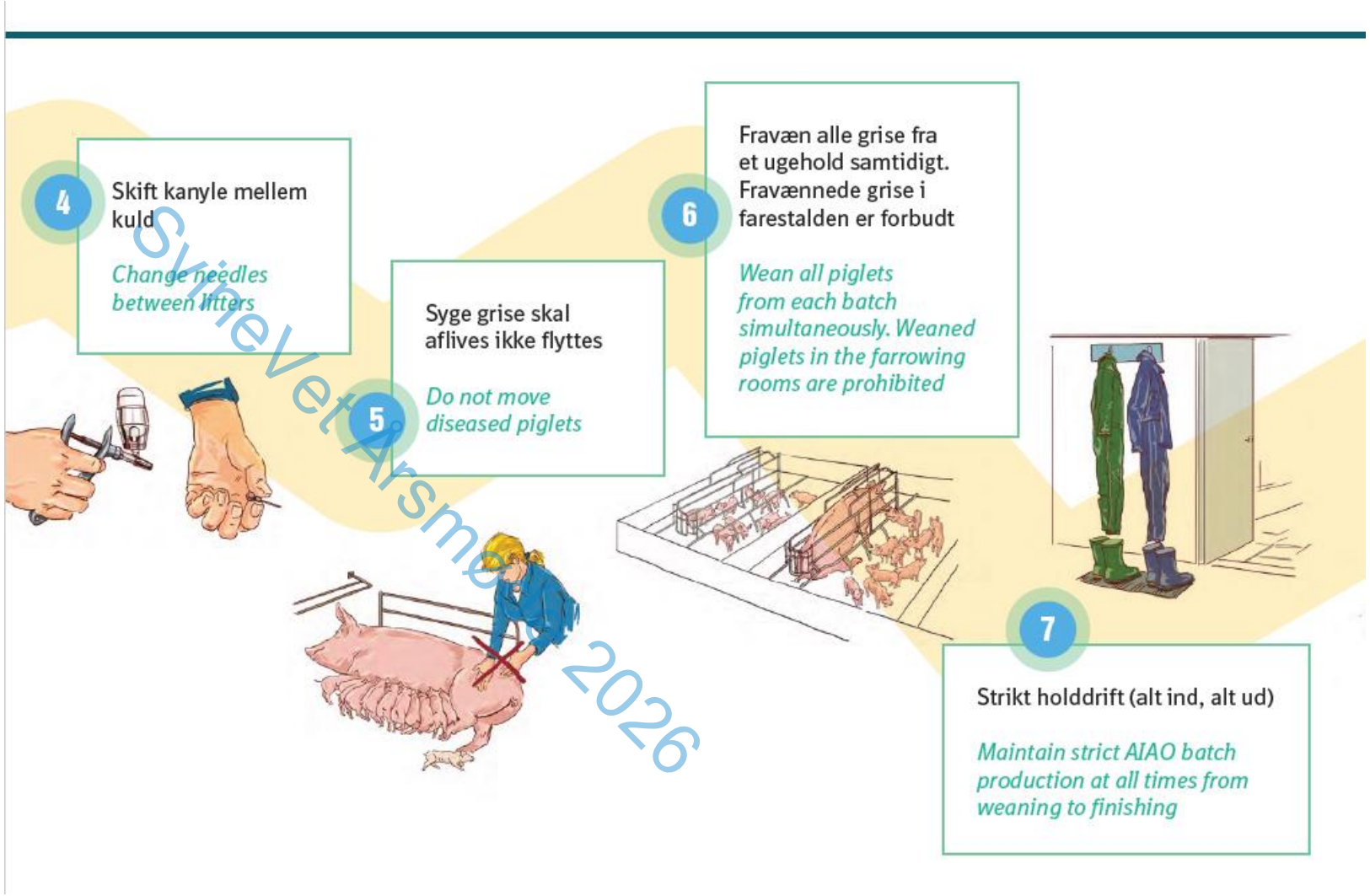

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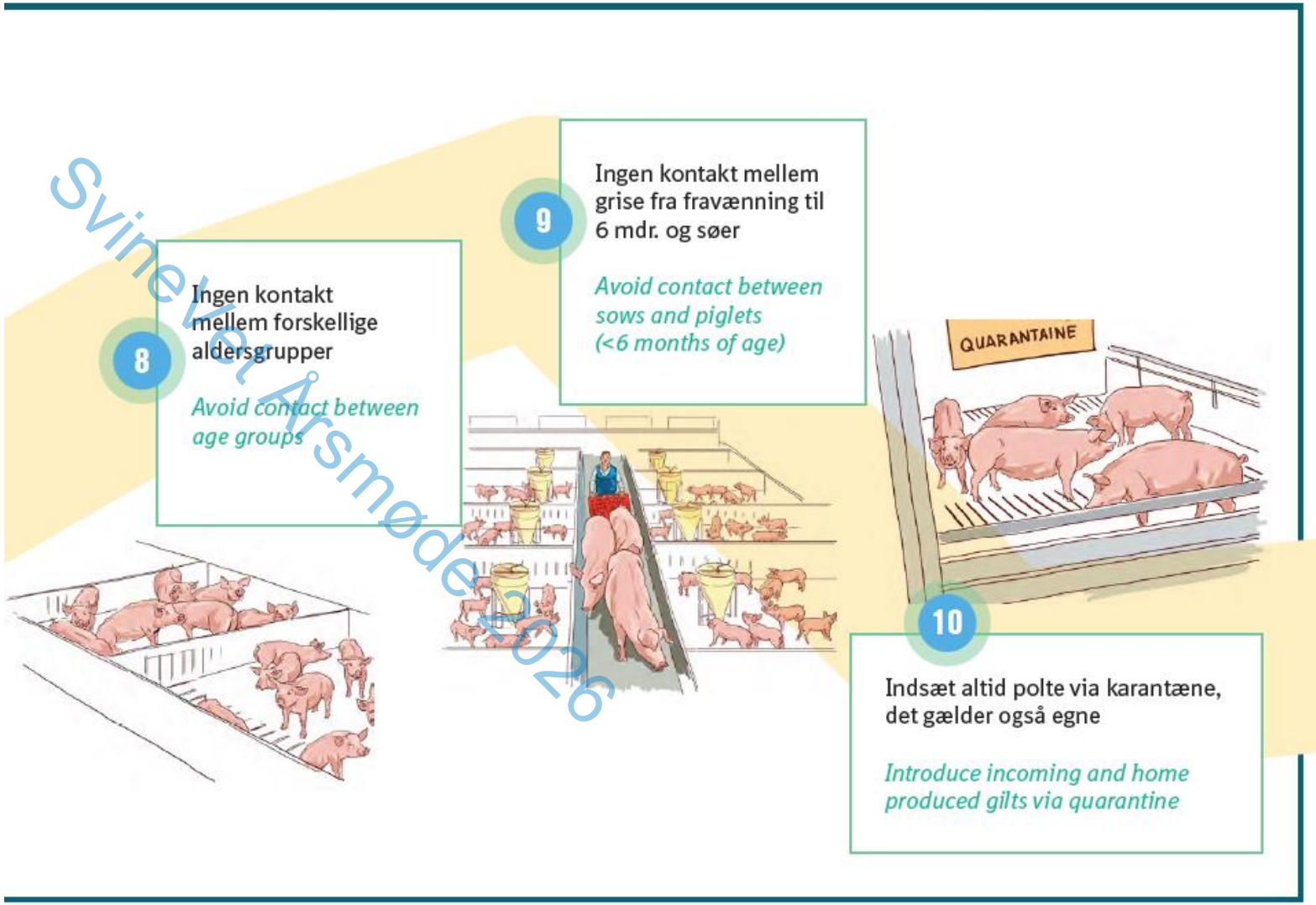

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Farrowing house - piglets

Comingling/mixing pigs

- No mixing after day 4
- Immunity of pigs
- Stressing the sow and piglets – Hierarchy
- Minimize collection sows – Keep bacteria and virus circulating

Fomites

- Gloves
- Use of wagons
- Medicine boxes
- Start with smallest pigs, finish with sick pigs
- Washing and changing boots
- Plastic covers

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The environment in the farrowing crate

- Wet environment
  - Milk
  - Wetfeed
  - Old food
- Hygiene at castration
- 1 needle = 1 team

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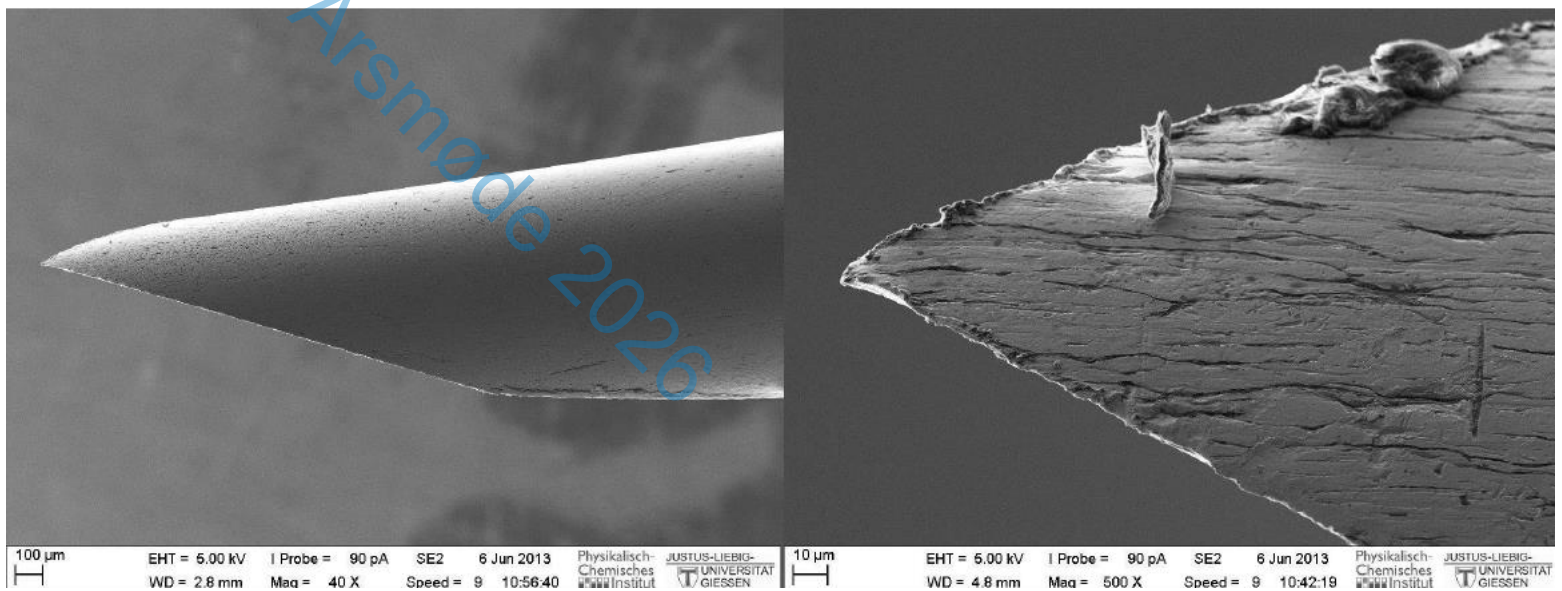

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Preparation of an empty stable

- Proper washing and disinfection – lower infection pressure
- Drying out and heating
  - Weaners: 32-34 degrees on the floor at weaning
  - Slaughter pigs: 21 degrees on the floor
- Humidity test
- Proper cleaning of environmental enrichment material (wood sticks etc.)

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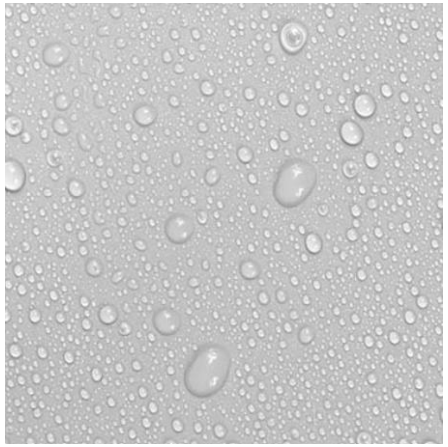

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Internal biosecurity - Weaner and slaughter pigs

Break the infection chain between age groups

- Different immune status between different age groups
- Never mix older pigs with younger pigs (all in, all out)
- Change shoes/boots between age groups
- Sick boxes – What do we do when the pigs recover?

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Take home message

- How can we break the transmission and route of infection on our farm?
- A little is better than nothing
- What is possible in reality?

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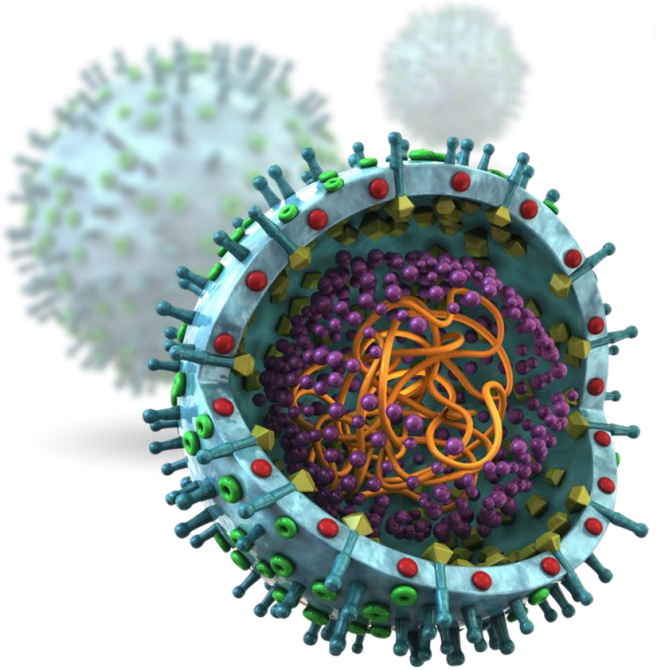

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Questions?

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