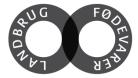


## Take home messages ©





- In the future all Danish sows are loose housed - in all units
- 2013 All gestation units
- 201x All new mating units
- 202y All new farrowing units

#### Successfull loose housing of lactating sows

- Periods before/during/after farrowing
- Principles need to be fulfilled
- Work routines every day or only once
- Management, feeding etc can be learned but pens are 'permanent' – so do it right!
- FF and SWAP pens developed according to
  - Sow, piglets and staff
  - Periods, principles and work routines



# Pig Research Centre

### Housing of lactating sows

#### Free farrowing

- Free farrowing limited in most countries
- And if legal requirement production has decreased significantly

#### So

- We should learn from experiences across countries
  - Ask the most important questions

#### Housing of pigs

- Two tracks
  - Crates
  - Loose farrowing
  - or in between

Temporary crating



Increasing demand

Pig Research Centre



Outdoor

Reduce environmental impact

Carbon footprint

Organic

Loose housing

Loose

Animal welfare

High level of productivity

Controlled / indoor housing

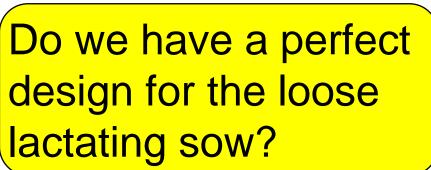
Environment/ resources



# Housing - design

- Think: Before during after
- Include important principles and details
- Think work routines
- Pens might differ -
- Housing of gestating sows
  - Feeding stalls
  - ESF
  - Liquid feed/mash diet
  - Floor feeding
- Service/mating unit
  - Also different needs
    - Mixing/coming into oestrus/fetal implementation/...





# **Different Danish designs**



Will be tested in 2013







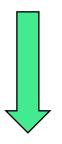


### **Periods**



- 1. Before farrowing
- 2. During farrowing
- 3. Day 0-1
- 4. Day 2-7

5. Day 8-26

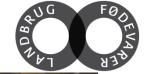


- · 'Upside down'
- Nest-building
- 'Marathon' for both sows and piglets
- Warmth and colostrum
- Handling of piglets large litters
- Milk
- Handling

- Daily supervision
- Milk
- Space at udder and in creep area
- Feed and water

### **Denmark - Loose farrowing**

Pig Research Centre

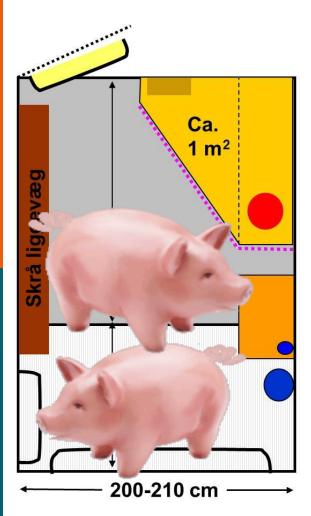


- joint project 08-10

- Research, development and practical experience
- Criteria
  - Sow
  - Neonatal piglets
  - Staff
- Project group
  - Jyden
  - Danish Animal Welf. Soc.
  - DJF AU
  - SAAC
  - Skjold
  - Perstrup
  - Hedegaard
  - SKOV
  - Ergofloor
  - PRC



### **Framework**





#### 1. Creep area adjacent to the aisle

- Piglets are checked everyday
  - Safety
  - Fast
  - Limit risk of disease transfer

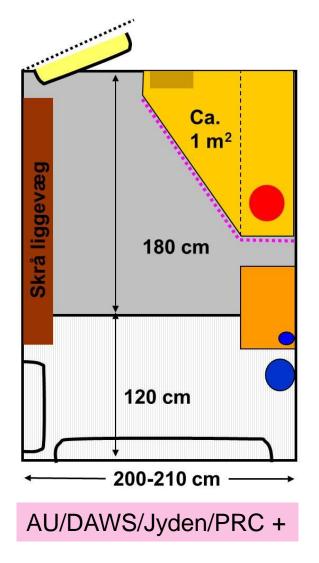
#### 2. Sow-resting area next to creep

- The sows choose to lie next to creep
  - Partly solid floor at least in Denmark
    - Reduce environmental impact
      - Partly solid floor is cheaper than aircleaners etc
      - Possible to use local extraction
    - Warmth dry floors before farrowing– and piglet survival
    - Keep nestbuilding- and rooting material in pen – not in slurry

# 3. The sow walks away (turns away) from feeding area, when defaecating

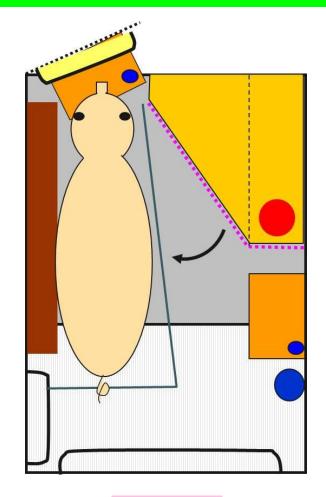
# → Two pen design

**FF** = Free Farrowing





**SWAP** = Sow Welfare and Piglet protection



## Walk the talk



<u>1200 sow unit</u>

### **Details**



#### Sow-dimensions

- Eat, defaecate, rest
- Support when lying down
- No access to creep area

http://vsp.lf.dk/Viden/Stalde/ Staldindretning/Farestald/L osdriftssti.aspx

#### Piglet-dimensions

- Safety
- Easy access to udder
- Easy access to creep area
- Space also with large litters and late in then lactation period

#### Work routines

- Daily or several times a day the whole period
- Once or twice daily but only for a few days
- Once for each litter



# Pig Research Centre

### **FF and SWAP**



# **Economy**





### **Productivity**

- Higher piglet mortality?
- Improved weaning weight?
- Improved sow longevity?
- Less antibiotics?

Sainsbury - By 2020, all our meat, .... products will be sourced from suppliers who adhere to independent higher welfare standards

Antonius



### Investment

- Larger pens
- No standard 'tailor-made'

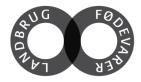
### Premium price

- Premium ≈ branding
- Branding ≈ volume
- Volume ≈ 'standard'

McDonald's moves to 100% Freedom Food Labelled Pork

## Take home messages ©





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### Loose lactating sows



# It's a challenge – But the Danish farmers that have invested don't regret!





#### Project:

Loose lactating sows

- Journalnr. 3663-D-08-00311
- Journalnr. 3663-D-10-00458

With funds from Ministry of Food, Agriculture and Fisheries and EU

