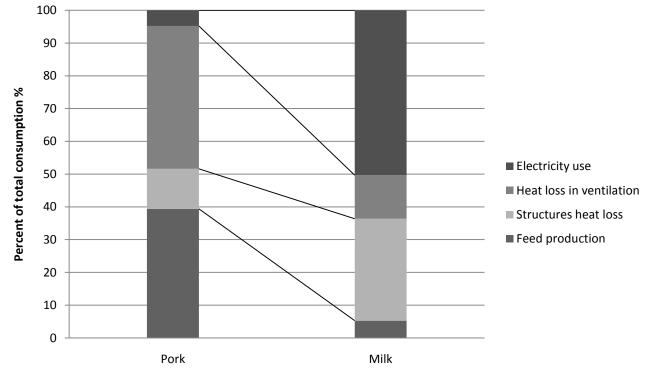
# Energy saving strategies and possibilities

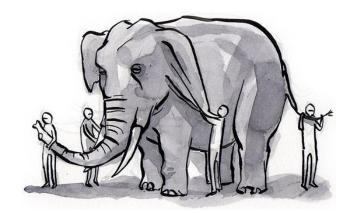
#### **Energy consumption**



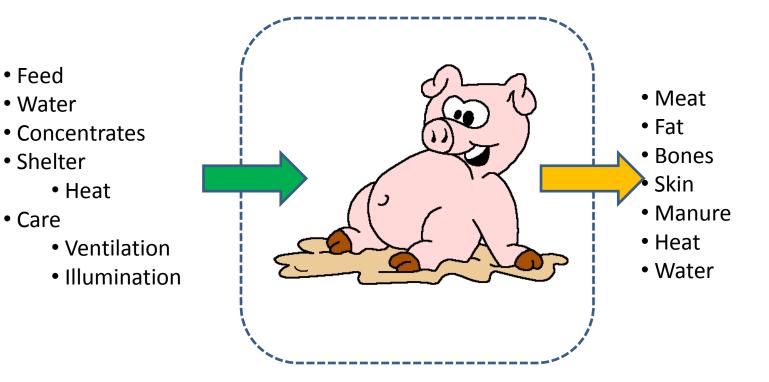
Production

### Strategy

- We should concentrate on largest parts first
- First energy consumption figures are availble after 1,5 years
  - With these figures we can compare the farms together and with figure found from literature
  - We should then concentrate on large consumption figures
- The farmer is mostly interested in economical improvements!
- We are interested in energy efficiency and emissions!

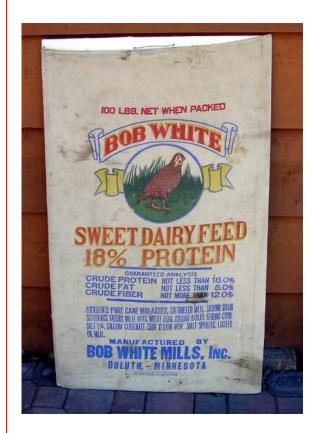


#### Energy use



## Feed

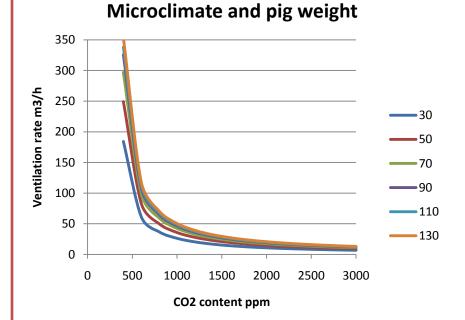
- Feed material is in many cases mostly produced on own farm
- Plant production methods are suitable for this
  - Fertilizers
  - Drying
  - Working methods
- For concentrates only the amount and then feeding strategies can be analyzed



## Buildings

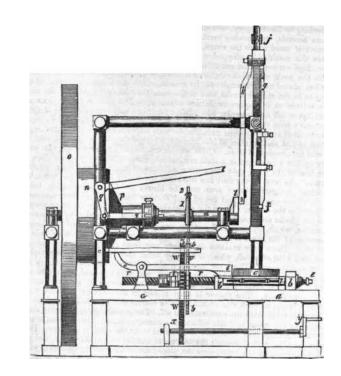
- Good insulation
- Controlled ventilation

   good microclimate
   with minimum losses
- Heat control and recovery



## Machinery etc

- Reasons for high machinery energy consumption should be clarified
- Illumination timing could be improved
- Water and especially hot water usage could be improved





This material has been produced in ENPOS project. ENPOS is acronym for *Energy Positive Farm*.

The project partners are

- University of Helsinki, department of Agricultural Sciences Agrotechnology
- MTT Agrifood Research Finland Agricultural Engineering
- Estonian University of Life Sciences

Project home page is at <u>http://enpos.weebly.com/</u>

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