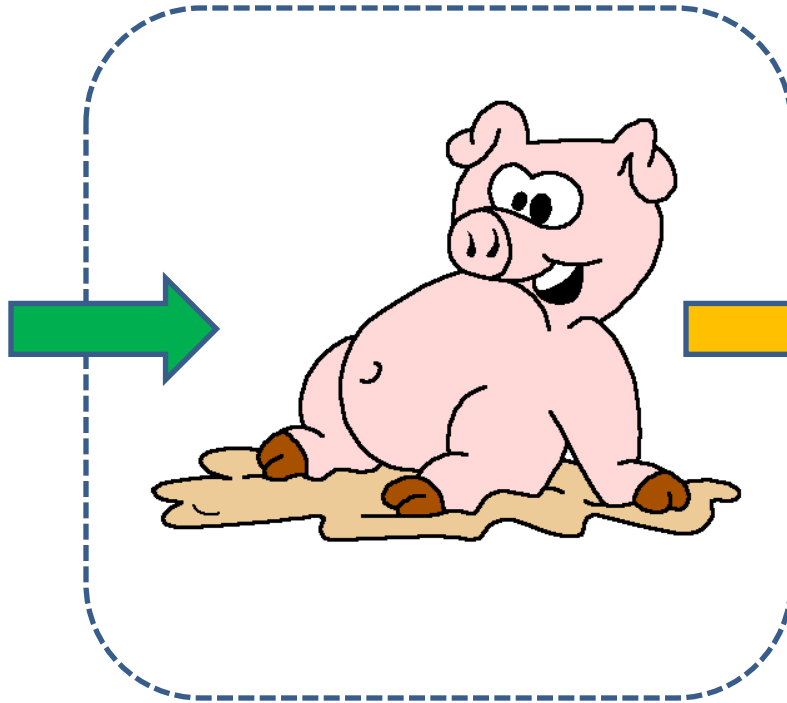


Monitoring energy use on farms,
measurements, bookkeeping,
inventories

Energy use

- Feed
- Water
- Concentrates
- Shelter
 - Heat
- Care
 - Ventilation
 - Illumination



- Meat
- Fat
- Bones
- Skin
- Manure
- Heat
- Water

Feed

- Feed material should be followed at least at the farm level (input to the system)
- Feed material can be
 - own production
 - concentrates
- Bookkeeping and inventories should be made together with the farm management system
 - Are the farmers willing to give this information?
 - The farmer should benefit from our system!
- Feed material energy consumption
 - Farm plant production figures should be used
 - Concentrate energy consumption must be calculated from figures found in literature

Products

- Products leaving the farm should be recorded (= output)
 - We need only amounts, they are quite well recorded on farms
- Allocation (for instance meat, fat, skin, bones) should be made with 'normal' figures
 - We need standardization in the methods

Energy consumption

- Mainly the energy consumption should be recorded
- The parts which are not possible to record or recording does not succeed must be estimated using figures from similar cases or figures found in literature
- Building heating energy consumption figures need also weather information!
- The consumption figures should be checked at least at monthly basis



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

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ENPOS Energy Positive Farm



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