

# My Pig: RFID

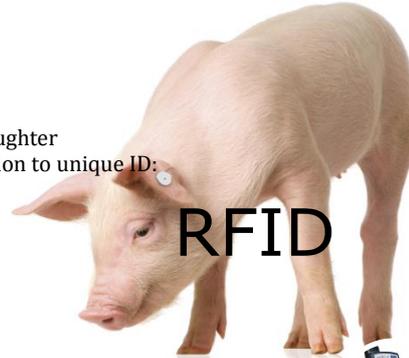
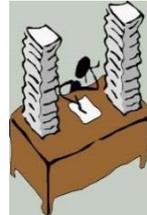
## Motivation

RFID (Radio Frequency IDentification) offers opportunities to store information and intervene based on that. This is used at large scale in the world around us. Amongst other things the project My Pig takes a closer look at the possibilities of RFID.

## Design

Needed for prosperous RFID:

0. Farmers that see the added value
1. **RFID Ear tag:** Identify each individual animal from birth till slaughter
2. **'Readers and other equipment':** Applications to link information to unique ID:
  - a. Readers to put out information
  - b. Linking specific information, e.g.:
    - i. Weighing station
    - ii. Slaughter number
3. **Database:** storage of data
4. **Analyse software:** add value for the pig farmer



4. Software



3. Database

2. Readers

1. Ear tag

## Involved parties



## Opportunities for the pig sector

### Opportunities:

In 2012 commercial partners worked together to develop a useful and affordable ear tag. Most important criteria for a good RFID ear tag is to have less losses when brought in at day 1 after birth until slaughtering. At VIC Sterksel some ear tags were tested. The outcomes of this test, you'll find at the poster 'My Pig: UHF ear tags'.

### Challenge:

The aim of this project in 2013 is to develop a good RFID system for the pig farmer. Therefore the next steps are needed:

- 1) Show added value of RFID
- 2) Test out and develop some applications in the 'experimental space' of VIC Sterksel
- 3) Challenge commercial partners to cooperate to arise new practical applications by offering an open- or co-innovation platform

Based on point 1 will be determined which applications must be developed and what have priority. Thinking off:

- Linking boar data (scanning sperm tube with barcode reader)
- Linking slaughter results
- Linking weighing data
- Linking replacements of the animals
- Linking feeding stations
- Linking administered antibiotics

Biggest challenge is to develop an open data structure, that is owned by the pig farmer, but suppliers of all the different applications are responsible for putting data into the 'open database'.

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