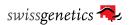


Goals



# Identifying semen straws with barcode

- saves time in the field by automatic reading
- · reduces mistakes, with regard to the further use of the data (e.g. breeding purposes)
- Improves traceability by reliable batch identification (sanitary aspects, quality control, research)
- Fastens business processes (invoices, etc)
- → most advantages arise for companies offering insemination services with employed technicians

Solution: Criteria for a harmonized barcode

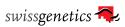
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- No proprietary system (readable with any commercial barcode reader)
- fast and reliable reading → minimize the length of the code
- Compatible with currently used technology (e.g. straw colours, printer)
- Suitable for internationally traded semen word wide unique batch identification
- Flexible to match local needs

20.07.2008

#### Solution: proposed system



- Code 128C: commercial readers are available, provides all ASCII characters, control number included
- · As short as possible (especially for field use)
- Use only straws tested for barcode reading (esp. green colours)
- · Worldwide unique identification semen batches by
  - unique identification of the semen collection centres (SCC)
    (ICAR in collaboration with NAAB)
  - unique batch identification within SCC (either by bull / collection date / ejac. nr or serial batch number)
- Publish the coded information by company on an Internet website (Done by ICAR)
- → creates the possibility of individual, flexible solutions
- → batch numbers require cross references



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## Barcode solutions

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The solution proposed by the European Al Vets 10 digits

196 08 xxxxx

NAAB-stud code / year / batch no. within stud (AIC)

• The Select Sires system

17 digits

NNN bb yyyyy dddddd z

stud code / breed / bull / freeze code / misc

The French System

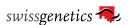
13 digits

NNN 12345 dddd x

**stud code /** bull / date (no. of days since 1/1/02) / ejaculate no. on that day

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#### **Reading of Barcodes**



#### Example 1: 1960890017

- The first 3 digits stand for the stud: 196
- Go to the ICAR web-site and look for the interpretation of the rest
- · Cross reference with shipping papers
- If reasonable, adapt your business software for automatic interpretation

## Example 2: 007HO37080711237

- The first 3 digits stand for the stud: 007
- Go to the ICAR web-site and look for the interpretation of the rest
- · Data can be used without cross reference

## →ICAR Recommendation:

- Draft available
- Comments are welcome: <u>laurent.journaux@unceia.fr</u>
- Submission to ICAR Board in 2009



