r coding system on straws?

To improve the traceability from the production to the insemination

To improve the reliability of the bull identification and thus of the testing procedure

To improve the sanitary safety of AI through the possibilty of tracing any defective ejaculate



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Bar coding of semen straws

How does it work in France?

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r coding system on straws?

To improve and facilitate the recording and monitoring of breeding data

To facilitate the calculation of Non Return Rates per bulls, per ejaculates or per batches of semen

To test different semen processing methods on split ejaculates (batches)

To facilitate the printing of invoices and breeding documents

To facilitate and secure the storage of straws

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echnical challenges

- barcode: 3cm/1mm
- -a straw is cylindric and must also display « conventional" information
- -both clear and dark zones are important and must be distinctly printed

- -Reading must be: quick
 - reliable and repeatable
 - must not interfere with
 - non return rates
 - Must be as universal as possible

t kind of information?

The bull's identity: name? Number?

National? International?

The ejaculate identification:date? Number?

- Within the semen production center?
- Universal through which data base?

What about split ejaculates?

Solutions

Code 128: easier, safer, universal and self controlled

10 digits: 12345 6789 0

Bull number date Batch intra ejaculate

Bull number: 99999 possibilities for 1100 bulls tested every year in France

Date: number of days spent since January the 1rst 2002;

9999 days = 27,3 years May, 18th, 2006= 1599

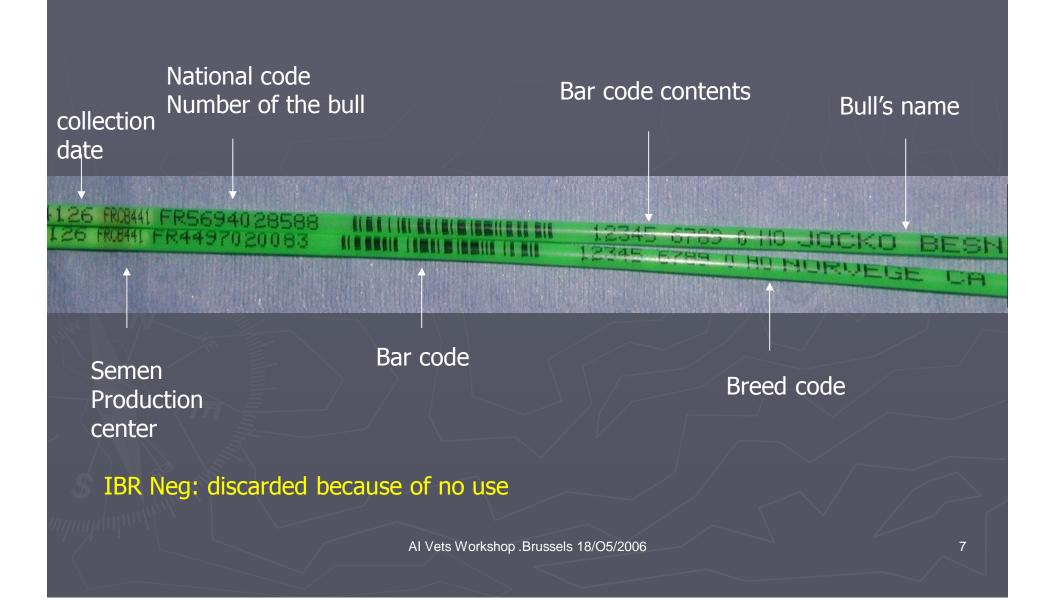
Batch number: 10 possibilities (from 0 to 9)



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Solutions



ay's French situation

Printing:

- two suppliers (IMV,Biovet):Lynx
- 80% of the production labs are equipped
- 100% by the end of year 2006

Reading in the fields:

- Two major AI unions :URCEO and OGER representing one million first AI
- Two different but compatible readers

and potential evolution

- -more than 80% of straws read prior to AI (others produced « outside »)
- -more than 95% reliability and possibility to record manually
- -NRR calculated on routine
- -bar code allows to save time and to secure the data
- -Adding two more digits is technically possible (printing and reading) and would permit to code for the country of production

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Conclusions

It took around 8 years to get an agreement of all semen production centers

Today the system is simple, efficient and reliable

It is transposable to other countries just by adding two more digits identifying the country of origine:(alpha numerical)

Ex: FR 12345 6789 0

Conclusions

A European data base of all European bulls could be managed by Copa Cogeca Such a DB would

- facilitate exchanges of semen between countries thanks to a better traceability
- Allow the calculation of statistics and NRR according to the origine of semen
- Permit international cooperation and experiments