



# Requirements on reliable solutions for livestock identification systems



FAO / ICAR - African Symposium on AIR systems

Pretoria, 2015-04-16



## TAGGING WITH HIGH QUALITY EARTAGS - WHY?

- 👍 Base for efficient herd management, breeding, recording
- 👍 Easy and reliable identification of individuals
- 👍 Optimum welfare compatibility, low risk for animal's well-being
- 👍 High retention → production of less replacement eartags and reduced expenditure of time for application of those

**Everybody in the chain must accept and support the system!**



## COMPARISON OF COSTS

|  | CAISLEY product (loss rate 2%) |       |                | competitive product (loss rate 6%) |       |                |
|--|--------------------------------|-------|----------------|------------------------------------|-------|----------------|
|  | quantity                       | USD   | total_USD      | quantity                           | USD   | total_USD      |
| <b>Eartags</b>                                 |                                |       |                |                                    |       |                |
| purchasing of projected ear tags               | 500.000                        | 0,35  | 175.000        | 500.000                            | 0,28  | 140.000        |
| purchasing of replacement ear tags             | 10.000                         | 0,35  | 3.500          | 30.000                             | 0,28  | 8.400          |
| <b>Production and Distribution</b>             |                                |       |                |                                    |       |                |
| parcels for projected ear tags                 | 5.000                          | 6,50  | 32.500         | 5.000                              | 6,50  | 32.500         |
| parcels for replacement ear tags               | 5.000                          | 2,50  | 12.500         | 15.000                             | 2,50  | 37.500         |
| working costs for projected ear tags (hours)   | 417                            | 14,38 | 5.993          | 417                                | 14,38 | 5.993          |
| working costs for replacement ear tags (hours) | 1.667                          | 14,38 | 23.973         | 5.000                              | 14,38 | 71.918         |
| <b>Farmer's work</b>                           |                                |       |                |                                    |       |                |
| replacement of ear tags (hours)                | 1.667                          | 10,21 | 17.020         | 5.000                              | 10,21 | 51.059         |
| <b>Other costs</b>                             |                                |       | 10.000         |                                    |       | 10.000         |
|  | <b>total</b>                   |       | <b>280.485</b> | <b>total</b>                       |       | <b>357.369</b> |



## EARTAGS HAVE TO HAVE **HIGH RETENTION**

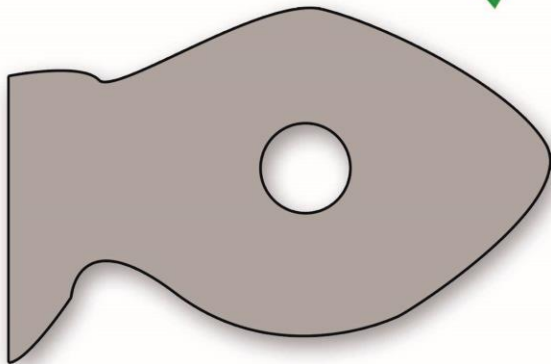
relevant characteristics:

- ✓ construction / design
- ✓ application results
- ✓ wound healing
- ✓ material composition and printing quality

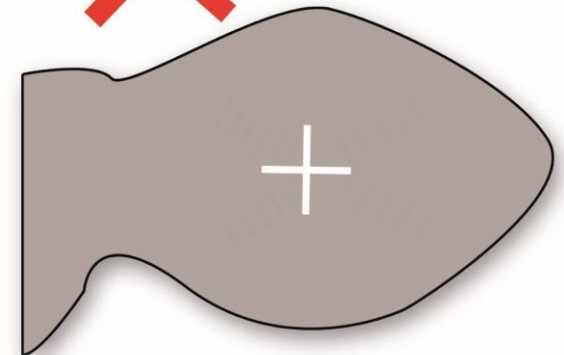
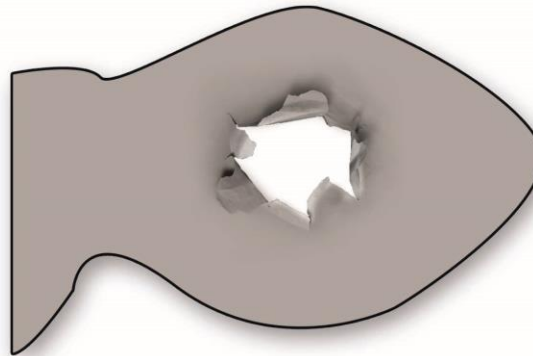


Application - **PUNCHING A CLEAN HOLE**

**Caisley Tag**



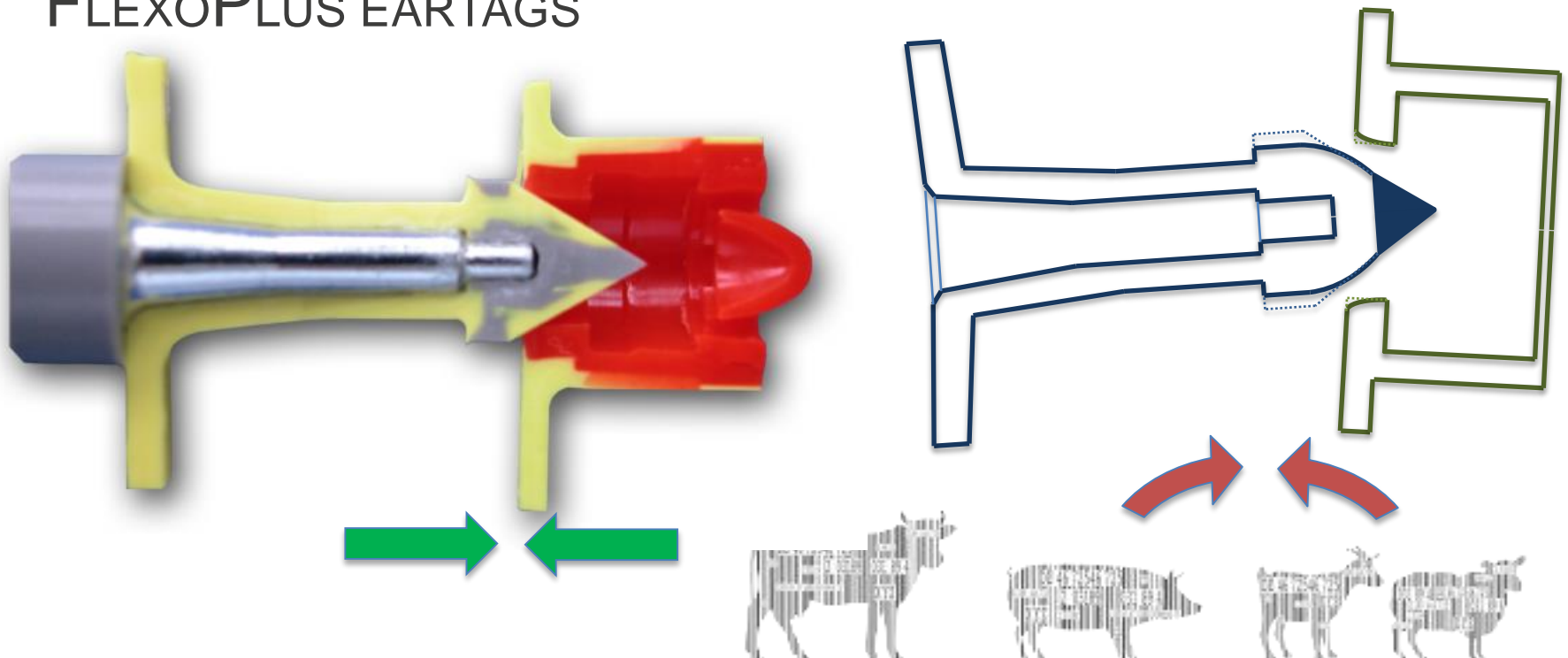
**Other Tags**





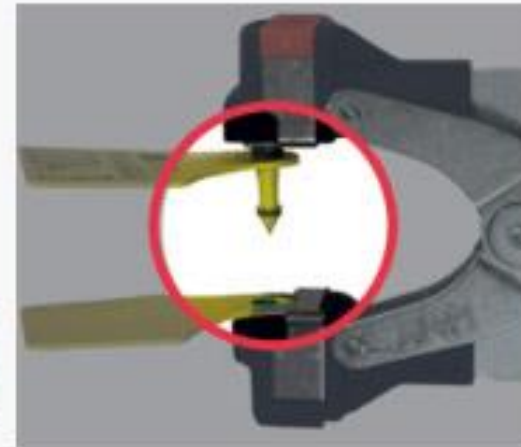
EARTAGS HAVE TO BE **APPLIED SAFELY AND ACCURATE**

LOCKING MECHANISM OF  
FLEXOPLUS EARTAGS



## EARTAGS HAVE TO BE **APPLIED SAFELY AND ACCURATE**

- ✓ parallel closing mechanism
- ✓ one fits all – visual, EID, tissue sampling tags



EARTAGS HAVE TO BE **EASY TO READ**

**Caisley font**

17 38 56

*Traditional font*

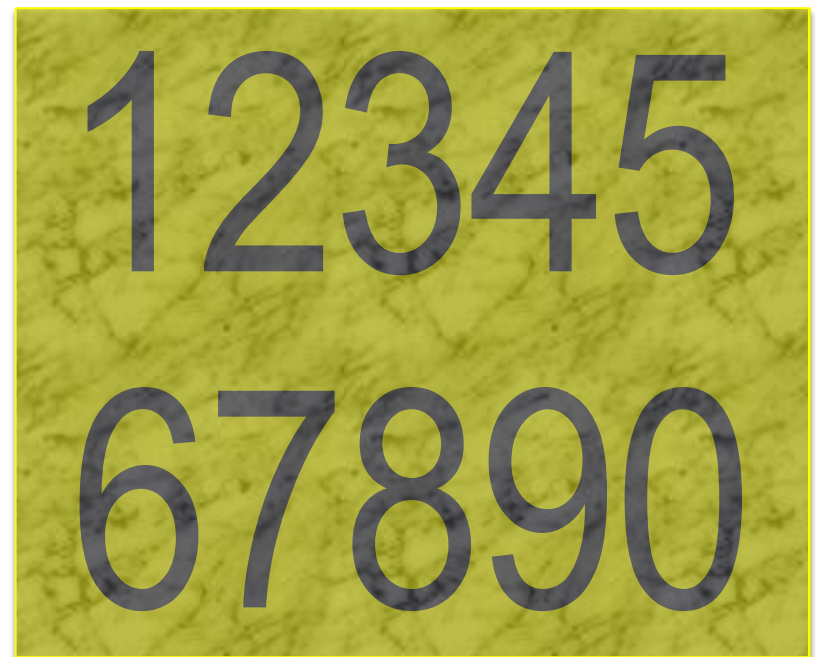
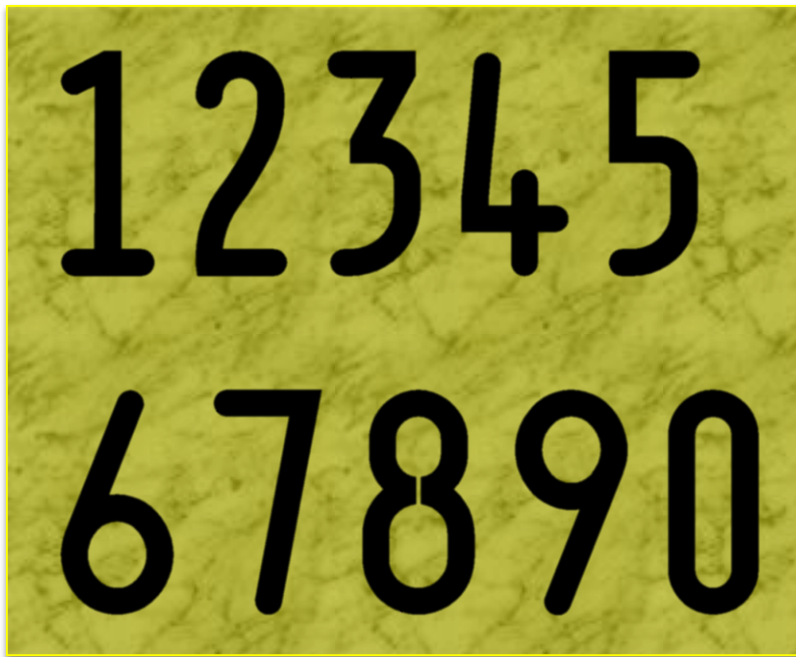
17 38 56

- ✓ numeric characters differentiate clearly from similar ones
- ✓ darkest laser marking





EARTAGS HAVE TO BE **EASY TO READ**



EARTAGS HAVE TO BE **EASY TO READ**

12345  
67890

12345  
67890



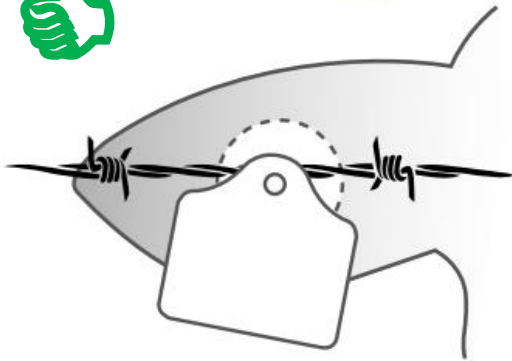
## EARTAGS HAVE TO BE **EASY TO HANDLE ON FARM SITE**

- ✓ units of all components for identification of one animal
  - ✓ no additional packaging
    - avoids mix-up
    - saves time
- during application



## EARTAGS MUST GUARANTEE **BEST RETENTION**

✓ adapted shape



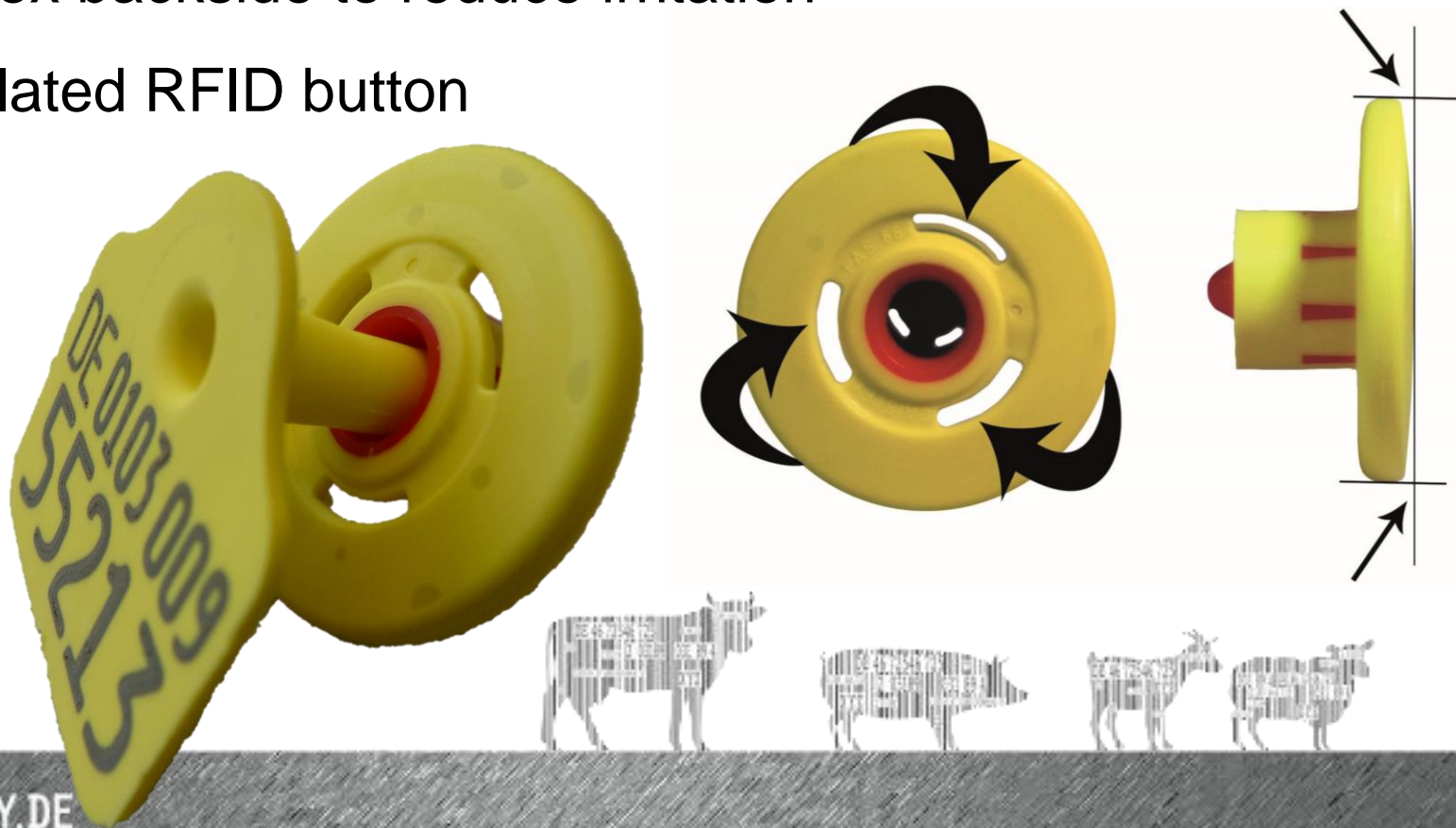
✓ full flexibility  
during the lifetime





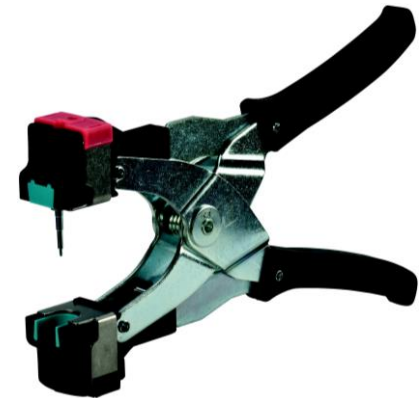
## EARTAGS HAVE TO ALLOW FAST **WOUND HEALING**

- ✓ convex backside to reduce irritation
- ✓ ventilated RFID button





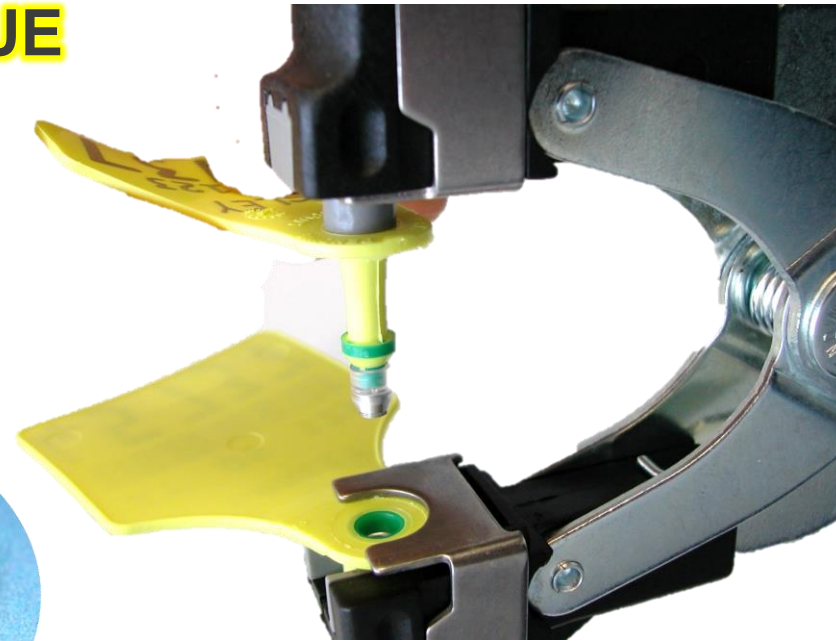
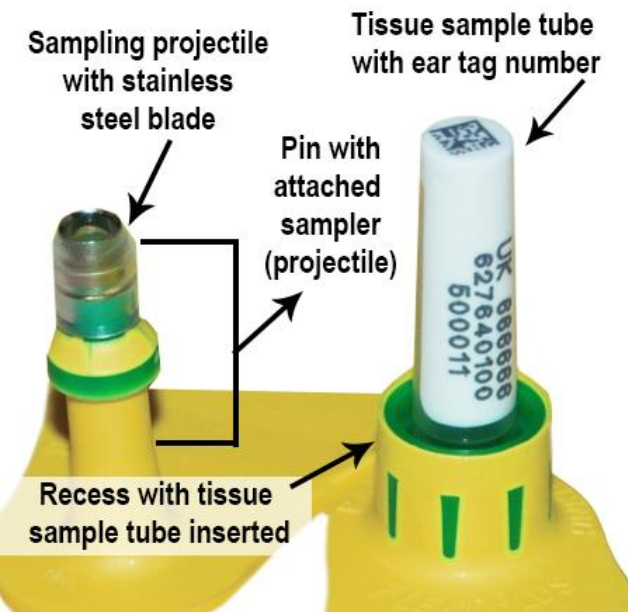
COMPATIBLE **EID TAGS**



EARTAGS CAN CREATE **MORE VALUE**

✓ tamper proof tissue sampling

FlexoPlus GENO



## TISSUE SAMPLING EARTAG **FLEXOPLUS GENO**

- ✓ standardised sampling during the application of eartag
- ✓ secured sample integrity by hermetical capsuling



- fully integrable in automated laboratory processing
- high throughput DNA extraction with standard methods
- long-term storage and easy sample inventory management





## USE OF **FLEXOPLUS GENO**

PARENTAGE /  
GENOMICS



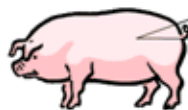
PROOF OF OWNERSHIP



TRACEABILITY



ID tag is artificial ID.



DNA(SNPs) is natural ID.



**THANK YOU!**



DIPL. ING. (FH)  
**HENRIK WINKELER**  
GESCHÄFTSFÜHRER  
MANAGING DIRECTOR  
E-MAIL: [H.WINKELER@CAISLEY.DE](mailto:H.WINKELER@CAISLEY.DE)

CAISLEY INTERNATIONAL GMBH  
HARDERHOOK 31 – D-46395 BOCHOLT  
FON: +49 (0) 2871 23939-0  
FAX: -50  
[WWW.CAISLEY.DE](http://WWW.CAISLEY.DE)

