

# Tissue Sampling

An important element in Animal Health...



Global leader in livestock identification,  
traceability and monitoring.

An Antelliq company

# Tissue sampling since 2008...



- Since 2008 several countries and regions have implemented a BVD eradication schemes using Tissue Sample Tags (TST's) and more to follow
- Since 2008 more than 75 million animals have been tissue sampled with an Allflex tool
- Tissue Sampling is being used for both disease and DNA purposes
  - BVDV eradication & diagnostics
  - Parentage verification
  - Genomic selection
  - Marker assisted breeding
  - Animal & Food traceability
  - Economic breeding selection (Dairy Beef)



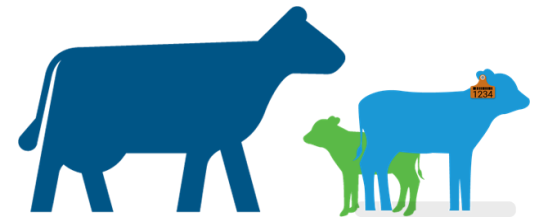
# Sampling at birth ...

- Today the Allflex sampling tools allow to sample an animal at birth, do a first test and retain the tissue for future DNA analysis
- This can be done by an ICAR approved identification & sampling tag (TST) or independent tissue sampler (TSU)
- No need to resample



ICAR  
APPROVED

**“One Sample for Life”**



# Today...

---

- We are already sampling in several countries for A2 milk markers
- We are also sampling for meat traceability and authenticity
- We are equally storing samples for later use
- We can geo-localize animals using EID and add the act of taking a tissue sample

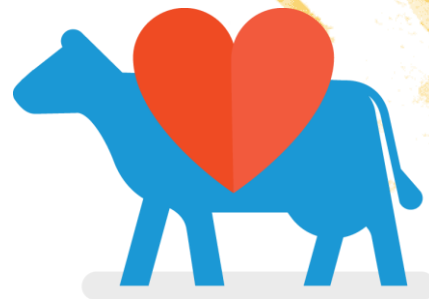
# FARM! TO FORK



# The future...



- Work is being done on TB & ParaTB resistance traits in cattle
  - Optimizing health will be an important genomic selection criteria!!!
- The increase in DNA sampling will go faster, due to genomic selection and sequencing
- Full traceability and transparency will be essential attributes in farming
- **Animal Welfare, Animal Health and Traceability will equally be important**







Thank You

Also visit:

[http://www.scrdairy.com/images/training/TST\\_TSU/story\\_html5.html](http://www.scrdairy.com/images/training/TST_TSU/story_html5.html)