Biotechnologies and precision farming: a new era for the ruminants breeding sector

Xavier DAVID - CEO

Belfast – 31 August 2016
3 main breakthroughs since 2000
New sensors for new data collected
New approach: Big data
New biotechnology: OPU- IVF
New biotechnology: genome editing
New biotechnology: affordable genomic info
Perspectives for the Industry

- Broader breeding goals
  - Health
  - Feed efficiency
  - Disease resistance
  - Climate change
  - Robustness

- Breeding with global approach: GEN X Environment

- Modeling and Herd prediction
Perspectives for the farmers

• Attractiveness thanks to innovation

• Efficient Management

• Labour Productivity

• Competitiveness & Profitability
To reach the society demand

- Animal Welfare
- Sustainable development
- Quality of the products
- Genetic diversity
- Bio economy
And the day...after tomorrow?

The Genome Project-Write

We need technology and an ethical framework for genome-scale engineering
Thank you for your attention

Ruminants members of EFFAB
European Forum of Farm Animal Breeders