

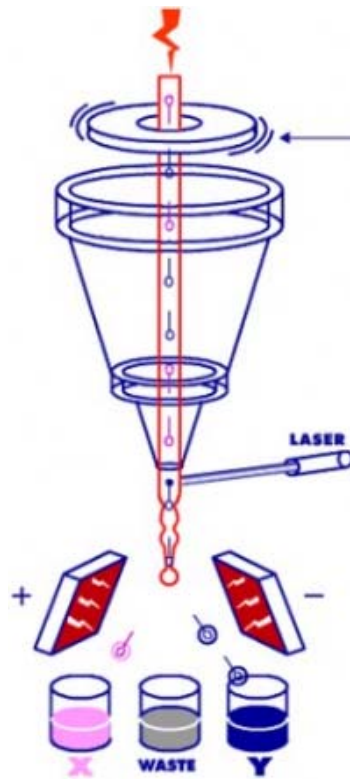
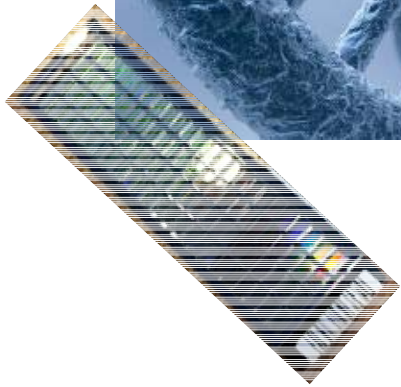
Biotechnologies and precision farming: a new era for the ruminants breeding sector



Xavier DAVID - CEO



3 main breakthroughs since 2000



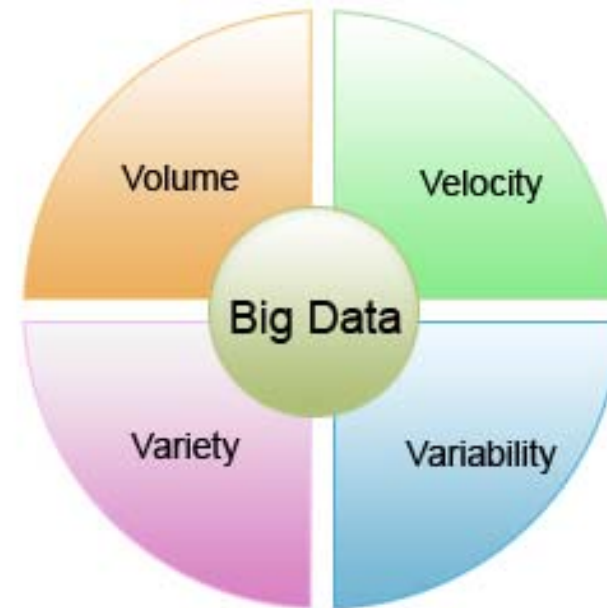


New sensors for new data collected





New approach: Big data



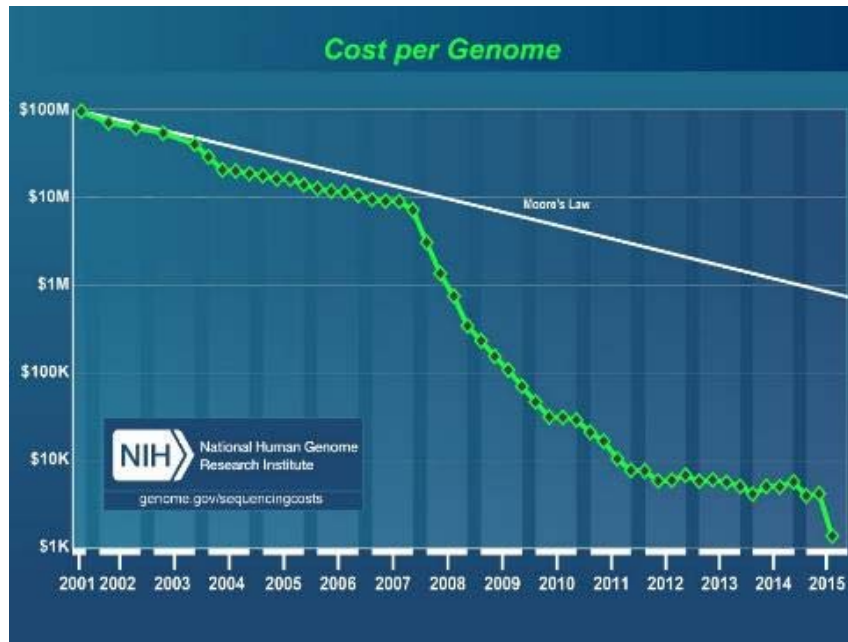


New biotechnology: OPU- IVF





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

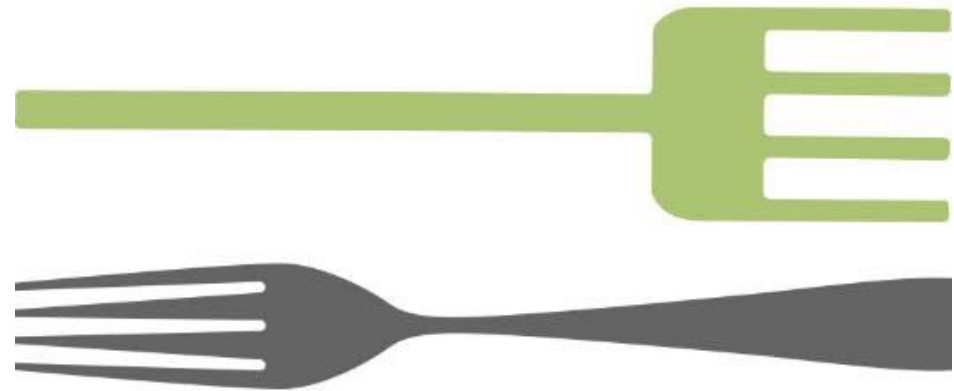
- Attractiveness thanks to innovation
- Efficient Management
- Labour Productivity
- Competitiveness & Profitability





To reach the society demand

- Animal Welfare
- Sustainable development
- Quality of the products
- Genetic diversity
- Bio economy





And the day...after tomorrow ?

Science

PERSPECTIVES

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10.1126/science.aaf6850 (2016).

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

