



Fitter LiveStock Farming

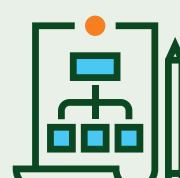
Improve food security and livestock farming sustainability through innovation

Services & Results



PRODUCTS & SERVICES

- New protein feed (green protein, European soybean meal, innovative rapeseed meal)
- New feeding materials (individual feeders, controlling modules)
- Improved and optimized livestock production through new animal vaccines
- Sustainable dairy production through the use of milk-based biomarkers
- Transnational access (TNA) to state-of-the-art cattle research infrastructures
- Improved animal trait ontology for cattle



PROTOCOLS

- NIRS (Near Infra Red Spectroscopy) characterization of feed nutritive value
- Harmonisation of protocols and definition of common guidelines for research methods and data recording
- *Refined In vivo* methods in the field of nutrient use efficiency
- New methods to exploit sensor data for cattle husbandry
- Improved procedures to evaluate cow health and welfare from measurements in milk
- New breeding strategies using proxies of animal efficiency
- Innovate gene banking business models to work on reproductive potential and to reintroduce diversity in existing farming systems
- Life Cycle Assessment and Cost benefit analysis for sustainability appraisal



TOOLS

- Dairy and beef female ranking tool prototype
- Tool for animal health and welfare evaluation (i.e. individual response to stress)
- Tools for individual management of animals
- Cloud-based data platform



DEVICES & SYSTEMS

- Combining proxies for farm management
- Livestock species and categories management
- Proxies and materials to evaluate animal efficiency
- Proxies (Biomarkers) to increase phenotyping capacity of feed efficiency and emissions
- Less-invasive methods to reduce constraints on experimental animals

Who benefits?



Livestock Farmers



Farmers Associations



Research & Academia



Policy makers



Livestock breeding companies



Industry and technology providers



Consumers and citizens

The cluster of research projects tackling the challenges of animal production



www.gentore.eu



www.feed-a-gene.eu



www.h2020-saphir.eu



www.gpluse.eu



www.imageh2020.eu



www.smartcow.eu



These projects have received funding from the European Union's Horizon 2020 (H2020) Research and Innovation programme under Grant Agreements: GENTORE - 727213; Feed-a-Gene- 633531; SAPHIR - 633184; IMAGE - 677353; Gpluse - 613689; SmartCow - 730924.