Traceability, Safety and Innovation in the meat chain: from Field to Industry: Farm Evolution

THE PROJECT

Traceability, Safety and innovation in the meat chain: Farm Evolution project was born in front of concrete need: implement a data collection system to the operator, able to track all the information about origin and quality of the food show on the shelf. Introducing the latest technology in companies, the breeder is able to optimize food diets, evaluate the products quality and then measure the content of livestock manure in order to better manage the process of storage and distribution.

To overcome the crisis the agriculture and livestock sector will have use of all the latest technologies in order to achieve goals simultaneously.

This project constitutes an important element of novelty and represents a solution that allows farmers to be competitive on world markets. Thanks to a control system of planting and harvesting and a precise management of cattle, the farmer will be able to monitor its costs and ensure high quality standards.

All data collected in field and in barn are managed by a unique and innovative software, FARM Suite, that provides storage of data and efficient reporting. The breeder can provide full traceability to slaughterhouse regarding cattle diet and state of health of the herd.
FEATURES & ADVANTAGES

- Full traceability of products in field
- Full traceability of products harvested
- Objective assessment of the quality in the purchase
- Optimization of the food ration
- Optimization of food costs
- Reduction of pollutants in manure
- Highest attainable standard of animal health
- Higher milk production
- Improvement of milk quality
- Optimal management of the development process animal
- Optimal management process waste
- Traceability of meat
- Improvement of meat quality
- Maximize the business income of farms and livestock;
- Improving the quality of the product making it conforms to the requirements of the market in terms of both organoleptic and nutritional properties, both in terms of identification and traceability of the product;
- Reduce the environmental impact of farms and herds of animals for fattening and milk making them eco-friendly.
Farm Evolution Project: Overview

Field

Software
Geographic information systems:
- Cultivated land
- Harvested products
- Treatments
- Data transfer of all data

Hardware
Advanced Weighing System:
- Detect the location using GPS coordinates
- Measure the weight of harvested products saving this info
- Transfer the information to the indicator weighing

Animals & Feeding

Software
Advanced Feeding Management:
- Group of ingredients
- Chemical parameters for each ingredient

Live Stock Advanced Weighing Control:
- Models of evolution weight
- Statistics on weighing data aggregated

Hardware
Analysis for farms:
- Qualitative and quantitative assessment of ingredients at purchase

Weighing system and advanced on-line NIR analysis:
- Determine your location using Tags and Tags Reader
- Full traceability of rations and distribution to the animals
- Optimization of the diet based on the results of analysis
- Animals dynamic weighing system

NIR analysis system for:
- co-farming products, Biomass

Food

Food traceability:
- Meat & Milk quality traceability editing data by hand or by integration with other softwares
- Management and storage of data
- Provide full traceability to the slaughterhouse

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