

THE TRET PLATFORM

THE MILKING EXPERIENCE IN DERVAL

- ARE YOU A MANUFACTURER OR DEALER OF MILKING EQUIPMENT, OR SEEKING A RESEARCH AND DEVELOPMENT PARTNER?
- YOU NEED AN OBJECTIVE EVALUATION OF THE PERFORMANCE AND QUALITY OF YOUR EQUIPMENT OR METHODS?
- WE HELP YOU MEASURE THEIR REAL-WORLD EFFECTIVENESS.
- TRET PLATFORM PROVIDES CUTTING-EDGE EQUIPMENT AND A DEDICATED TEAM OF EXPERTS TO CONDUCT THE NECESSARY TESTS AND EXCEED YOUR EXPECTATIONS.



6 GOOD REASONS TO WORK WITH OUR TEAM ON THE TRET PLATFORM

1

A UNIQUE EXPERIMENTAL INSTALLATION IN FRANCE AND IN THE WORLD



TRET Platform aggregates on a single place a milking robot, a "milking and milk meters" test laboratory including the PiloTraite device, an experimental milking parlor and 3 training rooms.

2

A RIGOROUS APPROACH



We mainly implement standardized procedures validated by international reference bodies: ISO*, IDF* and ICAR*. We can also use innovative methodologies, while remaining robust thanks to our experience and our permanent scientific monitoring.

3

A MULTIDISCIPLINARY TEAM



10 engineers and technicians, from Idele and the local "Chamber of Agriculture", working on 6 areas of expertise (milking, milk meters, milk quality, udder health, cleaning, energy), actively participating in national and international expert groups.

4

A CUSTOMIZED SOLUTION



Our team provides personalized support throughout your experiment, with protocols and resources adapted to your needs and the desired level of confidentiality.

5

AN INTERNATIONAL EXPERTISE



Our "Milking and Milk Meters" laboratory is one of the 3 places worldwide approved by ICAR* as a test center. It is also a recognized location for tests around cleaning procedures, milk quality and milking equipment performance.

6

A NETWORK OF EXPERIMENTAL FARMS



TRET Platform is also part of a French network of partner experimental farms (F@rmXP network, agricultural high schools) allowing, if necessary, to duplicate the trials in different contexts, equipment, breeding systems and sectors.

* ISO : International Organization for Standardization
* FIL : International Dairy Federation
* ICAR : International Committee for Animal Recording

YOUR EXPERIMENTATION IN 4 STEPS



IDENTIFICATION OF YOUR NEEDS AND OBJECTIVES

You display your needs, whether you need to test an equipment, a product, a method, etc., and your questions. We define the objectives of the study with you.

PROPOSAL FOR AN EXPERIMENTAL APPROACH

We define together the personalized terms of the experiment: protocol, material, location, type of animals, etc. and we provide you with a quotation.

STUDY CONDUCT AND DATA ANALYSIS

We carry out the study using the laboratory, the milking parlor and/or the robot of the TRET platform and possibly partner sites. For the data analysis, our team of statisticians provides its expertise.

PUBLICATION OF RESULTS, ACCORDING TO THE DEGREE OF CONFIDENTIALITY AND THE COMMUNICATION OBJECTIVES

A report of the test results is given. Depending on your goals, these results remain strictly confidential or may be disseminated, with our support, within the scientific and technical community.

A BROAD TESTING SCOPE

We can test a wide variety of products, new technologies for precision milking and equipment, in different contexts and constraints, for the 3 dairy species sectors: cow, goat and sheep.

We implement our expertise in compliance with international standards and French COFIT* reference documents:

- Controlability audit (possibility of applying COFIT* controls)
- Operational characterization on simulated milking
- Operational verification of equipment and/or methods
- Tests on the effectiveness of cleaning methods and products in terms of milk quality and/or udder health,
- Tests of equipment, products and concepts during real milking,
- Ergonomic characterization, in a One Welfare approach, the well-being of animals and milkers being linked,
- Tests of laboratories and milking parlors ...

*COFIT : French Interprofessionnel Committee For Milk Production Technics

25 years of experience in milking

Some examples of our achievements:

- Implementation of Pilo'Traite: an experimental pilot, unique in the world, allowing the studies under controlled conditions of the links between the milking machine and milk quality: implantation, evolution of biofilms by varying cleaning and disinfection procedures, performance of protocols and products, etc.
- QualHygAuto trials : tests of effectiveness of 4 milking hygiene automation devices on milking clusters
- Development of a method for control of ACR* (Automatic Cluster Remover)
- Milking cluster tests: analysis of pressure losses, impact on lipolysis, performance according to variations in flow rates and/or vacuum levels.



They trusted us:

DeLaval, Lely, BouMatic, GEA, Agrion, ADFMilking, Fullwood-Joz, WMB, Waikato, MilkRite, Charriau, SERAP, Ecolab, ICAR, FIL, ISO, Institut Carnot, Région Pays de Loire, COFIT, Farm'XP ...

THE TRET PLATFORM

The TRET platform is co-managed by Idele and the Pays de la Loire Regional Chamber of Agriculture. It is located in Derval experimental farm (Western France ?)44), that houses 85 Holstein dairy cows. The platform consist of three devices:

- a testing laboratory, one of the three ICAR-approved laboratories in the world. It is equipped with an artificial udder to simulate milking (cow, goat and sheep), while modulation of the operating parameters to test different equipment and methods,
- a new "conventional" bovine milking parlor, fully modular,
- a milking robot, since 2008 and renewed in 2021.

This tool is also part of various networks, including F@rm'XP, enabling projects to be deployed on other experimental farms, particularly for goat and sheep sectors.



THE FRENCH LIVESTOCK INSTITUT (IDELE) INSTITUTE FOR APPLIED RESEARCH AND DEVELOPMENT

Its mission is to improve the competitiveness of herbivore livestock farming and their sectors. Its work provides technical solutions to cattle, goat, sheep and horse breeders and to economic players in their sectors. One of the challenges is also to provide elements of response to societal issues.

Idele works in the following areas of expertise: genetics, breeding techniques, environment, health, animal welfare, product quality, economics, breeding systems, breeder's profession, information systems, international cooperation.



THE REGIONAL CHAMBER OF AGRICULTURE COMMITTED TO PRODUCTION OF REFERENCES FOR FARMERS

The "Regional Chamber of agriculture of Pays de la Loire" is present in research and innovation, particularly through its IRD (Innovation, Research, Development) team and its 5 experimental farms. These applied research stations are intended to produce technical references for the players in the different sectors they represent (dairy and beef cattle, pork) with the aim of improving the daily lives of breeders (economic, work, technical, etc.). They disseminate their knowledge through qualifying training courses, documents and technical days or visits for farmers, technicians and students.

CONTACTS



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