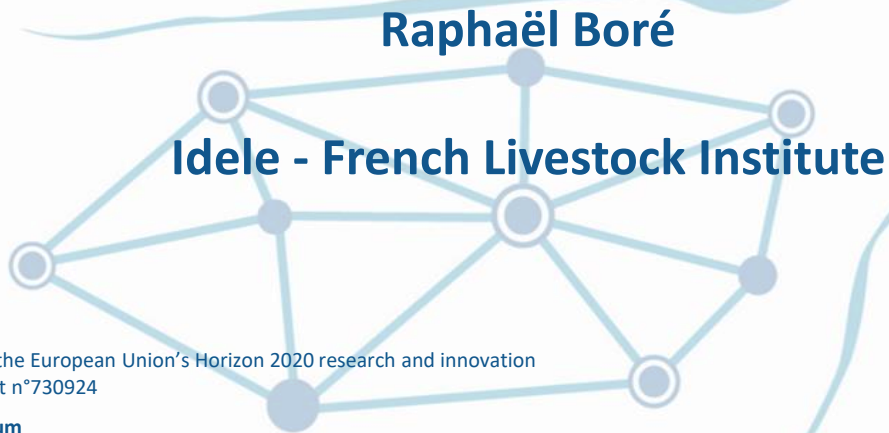


SmartCow

an integrated infrastructure for increased research capability and innovation in the European cattle sector

Idele experience in SmartCow



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Grant Agreement n°730924

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How did you hear about the TNA program?



By Richard Dewhurst (SRUC)

Head of Dairy Research Centre, Scotland's Rural College

&

Transnational Access leader of SmartCow

Partnership Idele –SRUC on the adaptation of Laser Methane Detector to measure enteric methane emission of ruminant at large scale.



How was the preparation of the project and its realization with the RI?

Preparation



IRTA^R

Institute
of Agrifood Research
and Technology

Realization



Only by visio and email
due to covid situation



1 visio for trial presentation



1 visio for protocol details



1 visio for using the LMD



Respect of the protocol



Compliance with the timetable



Update during the trial



Questions when in doubt



Disponibility

What are the conditions for the TNA project to run smoothly and are there any points to improve in the future in the process?



Taking the time to discuss about aims of the trial and outcomes

Trusting each other (between facility manager and user)



Agreeing on a clear protocol

Taking the time to communicate during the trial



Nothing to add for improvement

What scientific breakthrough did the TNA project allow you to achieve that you would not have been able to achieve without this opportunity?

In the short term :

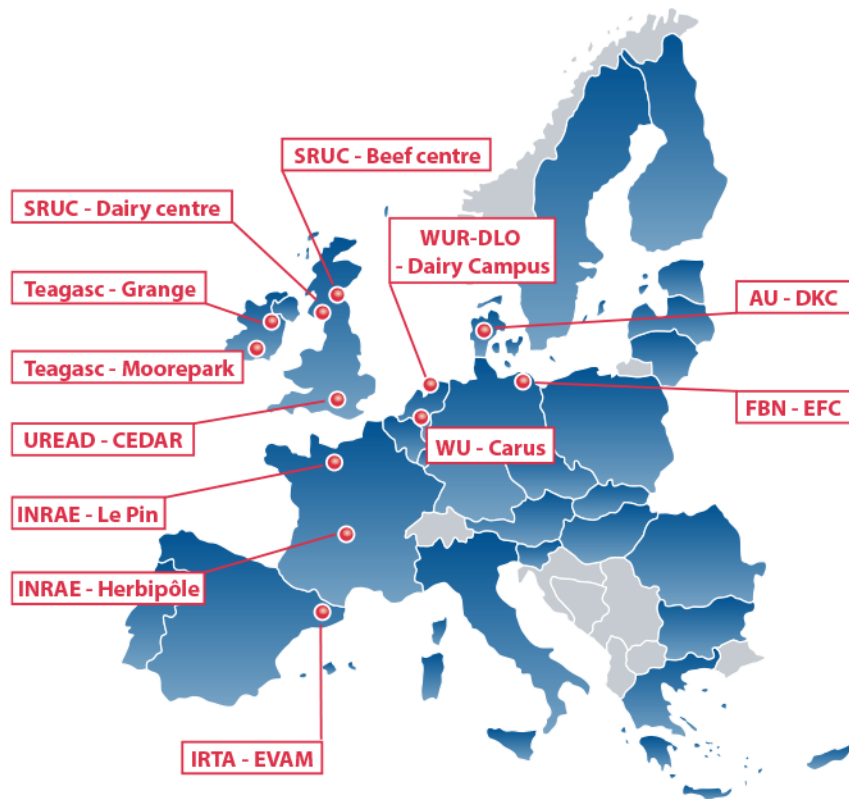
- ✓ Better understanding of the influence of position of the operator on the measurement.
- ✓ Possibility to work on a protocol which reduce the impact of the operator position on the measurement to obtain reliable and repeatable result.

In the long term :

- ✓ Create enteric methane emission references on different breeding or feeding system
- ✓ Contribute to the evaluation of a farmer's correct carbon credit
- ✓ Set up genetic/genomic selection strategies for the reduction of methane emissions.



Thank you for your attention



First-class Cattle Research Infrastructures (RIs) across Europe:

- 11 major RIs distributed in 7 EU countries
- 12 locations, which include 18 installations
- 2500 dairy and 1000 beef cows

- **Networking of RIs** to inventorize resources, harmonize procedures, and share data
- **Joint research activities** to improve experimental methods and phenotyping capability
- **Interaction with stakeholders** to stay in line with industry needs and improve dissemination

<http://www.smartcow.eu/stakeholders/>

TRAINING PROGRAM

For Scientists, Technicians, Stakeholders, PhD students

- Face-to-face training courses
- Free web-conferences
- One-day study tours in 4 different countries

<http://www.smartcow.eu/resources/training/>

TRANSNATIONAL ACCESS CALLS

Offers external users (academic and industry) free access to SmartCow RIs

- 30 projects during the 4 years of SmartCow
- Access to around 10,000 cow-weeks

<http://www.smartcow.eu/calls/>



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