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Integrating Activities for Starting Communities



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



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1 Description

The SmartCow final conference was organized jointly by EAAP, INRAE and INRAE Transfert. The activities started in October 2021, since originally the conference was planned for 19th January 2021. However, the sanitary situation did not allow to organize the conference in January, then it was postponed to April 6th 2022.

In order to avoid further problems due to COVID 19, the organizing team (EAAP; INRAE, INRAE Transfert) decided to organize the conference on a hybrid format, giving the possibility to attend both in presence and remotely.

In January 2022 the registration was open; it was publicized through the project web site, social media and EAAP newsletter using an ad-hoc flyer (see Annex 1). At the closing of the registration (end of March 2022), there was a total of 183 attendees (42 in presence, 141 in remote).

The objectives of the final conference were to present:

- The results of the Networking Activities within the project (i.e., the map of the cattle Research Infrastructure in Europe, the Book of Methods for experiments on cattle) and how you can benefit from these results;
- Examples of successful transnational access to research infrastructures (TNA) projects that occurred during the SmartCow project to give ideas of how you could use the research infrastructures of SmartCow network in the future;
- The project scientific results, such as advances in cattle phenotyping capabilities, digestion techniques and green-house gas methodology, sensors technologies;
- The potential impacts of SmartCow results on the industry;
- The future SmartCow: official launch of the European Research Group (ERG).

The potential targets were:

- Scientists who are potential users of transnational access to research infrastructures;
- Organizations hosting research infrastructures (working on cattle or on other species);
- Stakeholders from the cattle sector at large (industry, policy makers, etc.).

The SmartCow final conference took place on 6th April 2022, in Brussels, at University Foundation. The conference was attended by 42 persons (see Annex 2) in presence and by 70 on line (see Annex 3). Please note that for privacy reasons the name of the persons attending both in presence and on line have been omitted.

The conference (see Annex 4) was structured as follows:

- Session 1: Networking of cattle infrastructures and improving experimental approaches and methods in cattle experiments;
- Session 2: Advances in cattle phenotyping;
- Session 3: Opening access of cattle facilities to new academic and industry users;
- Session 4: Policy makers;
- Round table: Industry and academic needs for research infrastructures in animal science;
- Session 5: The future of SmartCow.



All sessions were recorded and are available [on SmartCow homepage website](#).

Annex 1 - Flyer



SmartCow

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

SAVE THE DATE FINAL CONFERENCE BRUSSELS - 6 April 2022

SmartCow is a Horizon 2020 project, Integrating key European cattle research Infrastructures to promote their coordinated use and development. During the conference, **SmartCow** will present:

- The results of the Networking Activities within the project (i.e., the map of the cattle Research Infrastructure in Europe, the Book of Methods for experiments on cattle) and how you can benefit from these results
- Examples of successful transnational access to research Infrastructures (TNA) projects that occurred during the SmartCow project to give ideas of how you could use the research Infrastructures of **SmartCow** network in the future
- The project scientific results, such as advances in cattle phenotyping capabilities, digestion techniques and green-house gas methodology, sensors technologies
- The potential impacts of **SmartCow** results on the industry
- The future **SmartCow**: official launch of the European Research Group (ERG)

Who can be interested in participating to the conference:

- Scientists who are potential users of transnational access to research Infrastructures
- Organizations hosting research Infrastructures (working on cattle or on other species)
- Stakeholders from the cattle sector at large (industry, policy makers, etc.)

The conference will be held in presence, but there will also be the possibility to follow it remotely.



Annex 2 - In presence attendants

Name	Surname	Organization
xx	xx	European Commission
xx	xx	Agrimetrics
xx	xx	INRAE
xx	xx	IDELE
xx	xx	FEFAC
xx	xx	INRAE
xx	xx	EAAP
xx	xx	European Commission
xx	xx	Università degli Studi di Milano
xx	xx	FLI
xx	xx	EuroGenomics Cooperative
xx	xx	CRA-W
xx	xx	Liège University
xx	xx	EAAP
xx	xx	EFFAB/FABRE TP
xx	xx	FEFANA
xx	xx	INRAE
xx	xx	Agolin
xx	xx	Teagasc
xx	xx	FBN
xx	xx	AU
xx	xx	Idele
xx	xx	INRAE
xx	xx	FVE
xx	xx	TEAGASC
xx	xx	ILVO
xx	xx	INRAE
xx	xx	University of Reading
xx	xx	EAAP
xx	xx	SRUC
xx	xx	Teagasc
xx	xx	University of Bonn, Institute of Animal Science, Physiology Unit
xx	xx	EAAP
xx	xx	INRAE
xx	xx	Agolin
xx	xx	IRTA
xx	xx	INRAE
xx	xx	INRAE Transfert
xx	xx	INRAE
xx	xx	INRAE



XX	XX	CRA-W
XX	XX	INRAE

Annex 3 - On line attendants

Name	Surname	Organization
XX	XX	European Commission
XX	XX	EMBRC-France
XX	XX	Lithuanian University of health sciences
XX	XX	Landwirtschaftskammer Nordrhein Westfalen
XX	XX	Natural Resources Institute Finland
XX	XX	Ministry of Health, Italy
XX	XX	Natural Resources Institute Finland
XX	XX	INRAE
XX	XX	INRAE
XX	XX	INRAE PEGASE
XX	XX	University Ss. Cyril and Methodius Skopje
XX	XX	University of Liège
XX	XX	Cotter Agritech Ltd
XX	XX	Fertiprado
XX	XX	CCPA
XX	XX	SRUC
XX	XX	Lithuanian University of Health Sciences
XX	XX	SLU
XX	XX	INRAE
XX	XX	Palital Feed Additives
XX	XX	Kerala Veterinary and Animal Sciences University
XX	XX	University of Bologna
XX	XX	Agri-EPI Centre
XX	XX	INIAV
XX	XX	INRAE
XX	XX	IZS Lombardia e Emilia Romagna
XX	XX	INRAE
XX	XX	IFF
XX	XX	EDA
XX	XX	EMBRC-France
XX	XX	Agricultural University of Athens
XX	XX	IT Solutions for Animal Production
XX	XX	INRAE
XX	XX	Agroscope
XX	XX	LUKE
XX	XX	Estonian University of Life Sciences
XX	XX	University of Cluj Napoca
XX	XX	Agricultural Institute of Slovenia
XX	XX	IZS Lombardia e Emilia Romagna
XX	XX	AnaEE

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XX	XX	Institute of Agricultural Economics
XX	XX	Idele
XX	XX	Agroscope
XX	XX	Czech university of Life Sciences
XX	XX	Istituto Zooprofilattico Sperimentale delle Venezie
XX	XX	Institute of Animal Sciences for Southern Vietnam
XX	XX	Estonian University of Life Sciences
XX	XX	MTS
XX	XX	Latvia University of Life Science and Technology
XX	XX	National Root Crops Research Institute, Nigeria
XX	XX	CRAB
XX	XX	Delacon Biotechnik GmbH
XX	XX	Norwegian University of Life Sciences
XX	XX	INRAE
XX	XX	LUKE
XX	XX	LUKE
XX	XX	Instytut Genetyki i Biotechnologii Zwierząt
XX	XX	SLU
XX	XX	Allice
XX	XX	Norwegian University of Life Sciences
XX	XX	ELGO-DIMITRA
XX	XX	IT Solutions for Animal Production
XX	XX	LUKE
XX	XX	QUEEN'S UNIVERSITY BELFAST
XX	XX	Lithuanian University of health sciences
XX	XX	WUR
XX	XX	Digitalanimal
XX	XX	University College Dublin
XX	XX	LUKE
XX	XX	Department of Veterinary Services

Annex 4 - Agenda



www.smartcow.eu

<p>6 April 2022 - SmartCow Final conference</p> <p>Fondation Universitaire - Rue d'Egmont 11 - Brussels</p>

08:30 – 09:00 Registration

09:00 – 09:10 Welcome and introduction - René Baumont (INRAE) - project coordinator

09:10 - 09:45 Session 1: Networking of cattle infrastructures and improving experimental approaches and methods in cattle experiments

- ☐ Interactive map and survey of cattle facilities across Europe – Patricia Ryan, Michael O'Donovan – TEAGASC
- ☐ Standardizing vocabulary and methods, sharing data: ontologies, book of methods and data platform – Bjorn Kuhla (FBN); Catherine Hurtaud (INRAE); Anisa Aubin (Agrimetrics)

09:45 – 10:30 Session 2: Advances in cattle phenotyping capabilities (1st part)

- ☐ Refining gold standard methods in cattle nutrition – Chris Reynolds (UREAD); Jan Dijkstra (WU)
- ☐ Proxies to predict feed efficiency and emissions – Cécile Martin (INRAE); Frédéric Dehareng (CRA-W), Gonzalo Cantalapiedra (INRAE)

10:30 – 11:00 Coffee break

11:00 – 11:45 Session 2: Advances in cattle phenotyping capabilities (2nd part)

- ☐ Sensors techniques to phenotype behavior and health – Isabelle Veissier (INRAE), Kees van Reenen (WUR-DLO)
- ☐ Ethics and implementation of 3R in cattle experiments – Kenny Rutherford (SRUC)

11:45 – 12:30 Session 3: Opening access of cattle facilities to new academic and industry users

- ☐ An overview of Transnational Access (TNA) program in SmartCow – Richard Dewhurst (SRUC)
- ☐ Feedback from TNA users: Angela Schwarm (Norwegian University of Life Science); Raphaël Boré (IDELE); Joan Edwards (Palital Feed Additives)

12:30 – 14:00 Lunch

14:00 – 14:45 Session 4: Policy makers

- ☐ Infrastructure work program in Horizon Europe – Jimena Arango Montanez (REA - DG Research)
- ☐ Societal challenges and research need for the livestock sector – Jean-Charles Cavitte (DR AGRI)

14:45 – 15:45 Round table: Industry and academic needs for research infrastructures in animal science: Moderation Florence Macherez (IDELE and Animal Task Force)

Arnaud Bouxin (FEFFAC), Ana Granados (EFFAB/ATF); Sven Dänicke (FLI); Nicolas Friggens (INRAE - GENTORE); Marc Vandeputte (INRAE – AquaExcel); Jaap van Milgen (INRAE - PigWEB)

15:45 – 16:05 Session 5: The future of SmartCow – René Baumont (INRAE)

16:05 – 16:15 Closing

