



Global Methane Genetics initiative

Led by  **WAGENINGEN**
UNIVERSITY & RESEARCH

In Partnership with  **BEZOS EARTH FUND**  **Global Methane Hub**

GMG Dairy Working Group meeting

23-04-2026

Agenda

- Welcome
- Open discussion
- GMG dairy projects
 - **Beat Bapst:** Brown Swiss
 - **Elisenda Rius-Vilarrasa:** Red Dairy Cattle
 - **Rasmus Bak Stephansen & Filippo Miglior:** Jersey
 - **Yvette de Haas:** DK-NL Holstein
 - **Raffaella Finocchiaro & Marcin Pszczola:** IT-PL Holstein
 - **Birgit Gredler-Grandl:** Update GMG



Update GMG

NEW projects & proposals

- **ICARDA:** measure methane in small holder farms in Africa & India
- **Buffalo proposal** (Lead University of Adelaide, Australia, Asian countries & South America)
- **Asia cattle proposal** (Bangladesh, India, Indonesia, and Pakistan)





Share data,
and accelerate genetic progress
to reduce methane emission

Global Methane Genetics Initiative

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Password



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For registration, please contact us at methane-register@datagene.com.au

GMG project: Framework adoption & incentivization system for genetic selection as methane mitigation tool

**Methane
breeding value
validation
protocol**

Webinar
May 11, 2026

**SWOT analysis
trait definition
Selection index
Breeding objective**

Webinar
April 13, 2026

**Review of
policy levers
and market
mechanisms**

Webinar
May 7, 2026

Session at ICAR meeting in Verona: Adoption & Incentives to Breed for Methane Mitigation
<https://icar2026.it/meeting-programme/> & panel discussion

Webinars & WG meetings

Towards guidelines to validate genetic evaluations for enteric methane emissions

Date and time
Monday, 11 May 2026
12:00-13:00h CET

Latin America working group meeting

Date and time
Tuesday, 12 May 2026
16:00-17:30h CET

Beef working group meeting

Date and time
Monday, 18 May 2026
13:00-14:30h CET

Microbiome working group meeting

Date and time
Tuesday, 9 June 2026
12:00-13:30h CET

Webinar planning GMG initiative 2026

Measuring methane emissions using Laser Methane Detection (LMD) in rural livestock systems: key considerations

Date and time
Wednesday 25 March 2026
9:00-10:30h CET

SWOT analysis of methane trait definitions and consequences for breeding programs

Date and time
Monday, 13 April 2026
12:00-13:00h CET

Dairy working group meeting

Date and time
Thursday, 23 April 2026
12:00-13:30h CET

Sniffer data aligning and editing pipelines

Date and time
Wednesday, 29 April 2026
14:00-15:30h CET

Sheep working group meeting

Date and time
Thursday, 30 April 2026
12:00-13:00h CET

Enabling adoption of methane-reducing breeding programs through GHG accounting and MRV frameworks

Date and time
Thursday, 7 May 2026
12:00-13:00h CET

Africa working group meeting

Date and time
Friday, 8 May 2026
13:00-14:30h CET

News
flash*



In person meetings



**World Congress on
Genetics Applied
to Livestock Production**

Madison, Wisconsin
12-17 July 2026



27th AAABG Conference
23-25 March 2027
Geelong | Victoria | Australia

Genetic Advances through Innovative Next-generation Technology



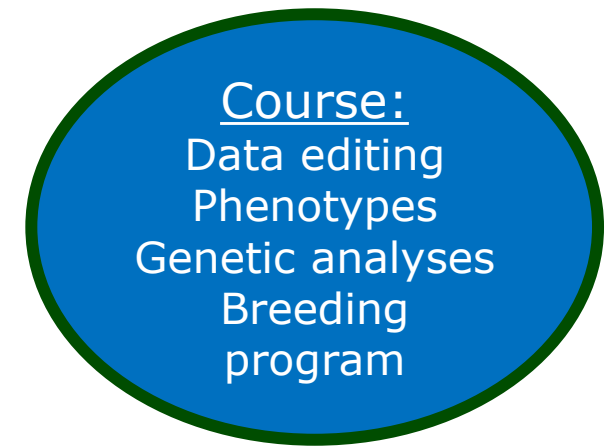
EOI Call for Papers Extended!



Verona, Italy

29 May - 5 June 2026

Shaping the Future of Sustainable Livestock
Let's meet in Verona



Course:
Data editing
Phenotypes
Genetic analyses
Breeding
program

Any other business & closure

Contact:
gmg@wur.nl

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Global
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Hub



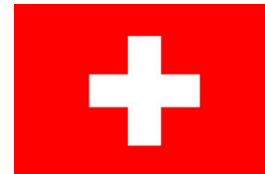
EMBRACE-BS



Enhancing **M**ethane Mitigation Through **B**reeding in Small Cattle Populations - a Flagship **A**cross **C**ountry Initiative with **B**rown **S**wiss

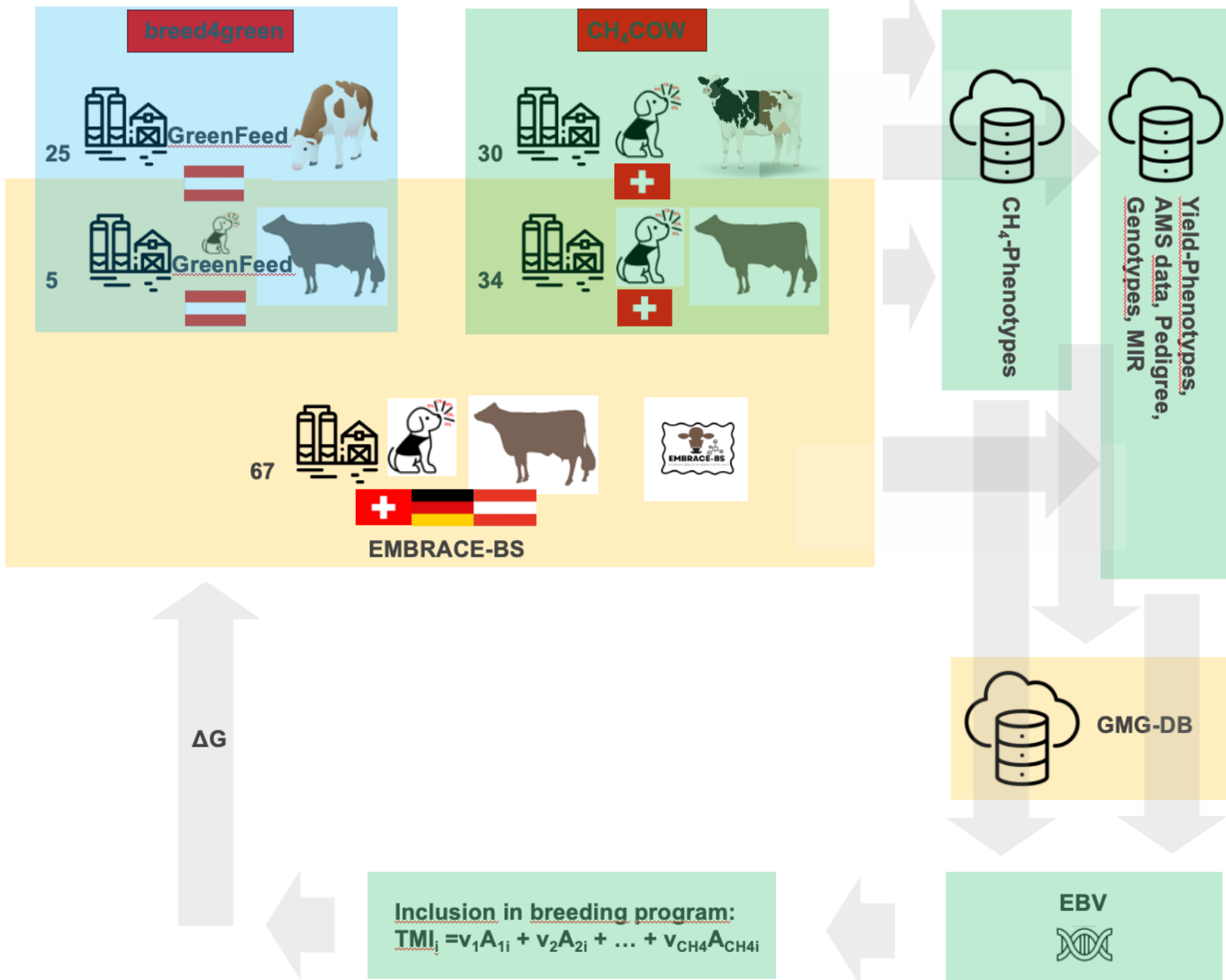
Where we are

Beat Bapst, Qualitas AG



Outline

- Project overview
- Project objectives
- Where we are / first results
- Coming soon
- Examples of challenges
- Conclusion



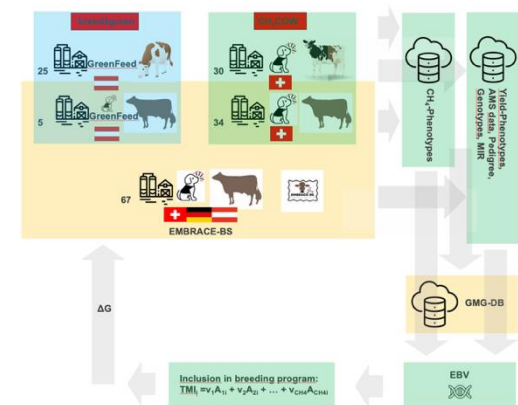
Overview:
 EMBRACE-BS
 is based on
breed4green
 and **CH₄COW**
 projects

Objectives

1. Expansion of the phenotyped BSW populations in AT, CH, and DE
 - EMBRACE-BS: 3360 cows with Sni
 - breed4green: 240 cows with Sni and GreenFeed
 - CH₄COW: 1815 cows with Sni
 - LfL Research farm: 50 cows with GreenFeed
 - Total: **~5500 cows with phenotypes**
2. Merge data/information from these BSW projects to achieve consistency
3. Estimation of genetic parameters (VCE)
4. **Across country genetic evaluation**
5. Collect rumen fluid samples (microHub)
6. Feed the GMG database

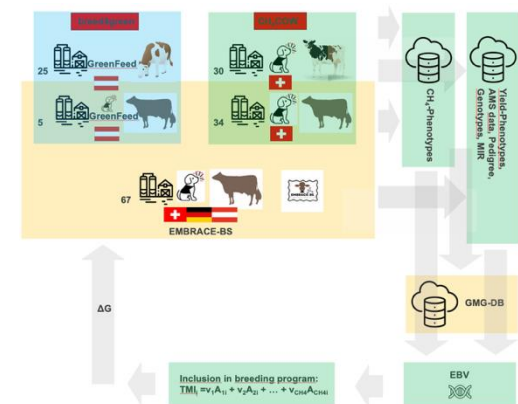
Where we are: 😊

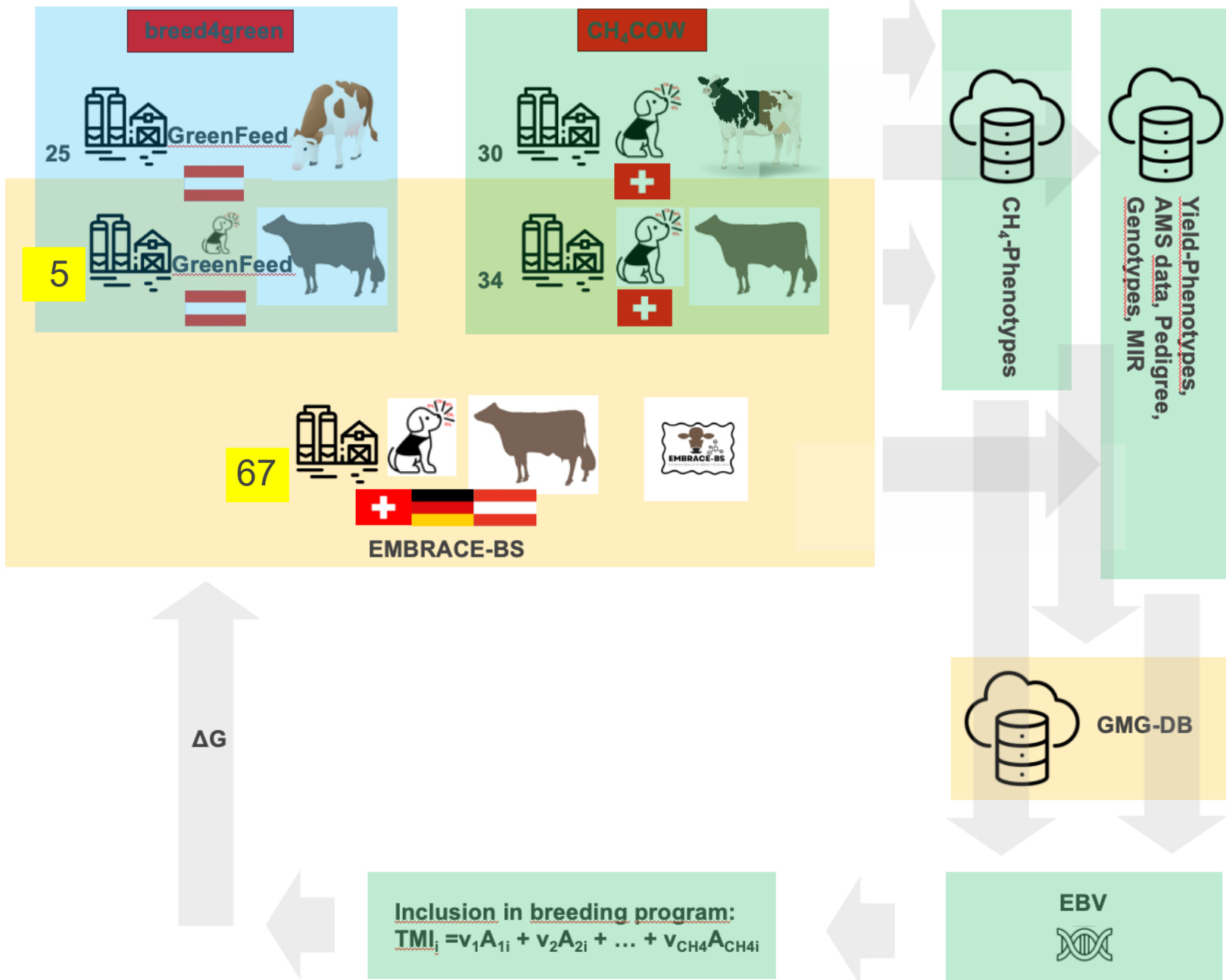
1. Sniffers (tecnosens.it, MooLogger) are now in operation
2. Sniffer data is automatically transmitted (alcantaradata.com) and distributed
3. Quality control of daily sniffer data works on different levels
4. Data editing & phenotypes:
V1 +/- running



Coming soon:
















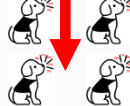






1. Definitions (format, frequency, automation) of additional data transfer: yield, genotypes, pedigree, MIR, AMS
2. Initial feedback to breeders in early summer
3. After the test phase: start feeding the GMG database





Challenge I: 8 MooLoggers in action, phenotyping 72 herds

Challenge I: 8 sniffers in action simultaneously tight schedule

Country	Phenotyping rounds (4-5 months) → 72 herds								
	1	2	3	4	5	6	7	8	9
									
									
									
									

Challenge I: 8 sniffers in action simultaneously tight schedule

1. Is each sniffer working as expected from the start?
2. Is the device made for so many changeovers?

→ A dedicated coordination
is required



Picture: R. Winkler

Challenge II: Farmers are key to success

1. They need to believe in the idea
2. They must be willing to do extra work
3. They must accept few deviation without quitting

→ Farm selection by breeding organizations



Picture: N. Berger

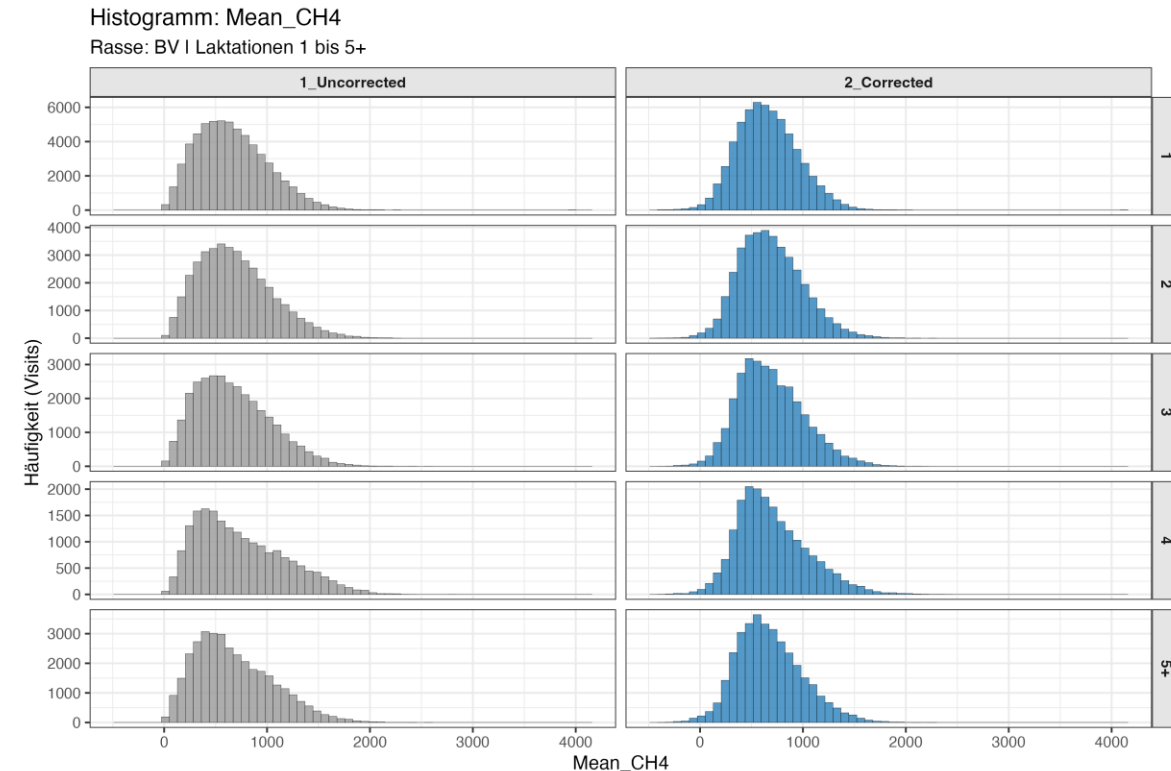
Challenge III: Is the data processing on track?

Difficult to assess before reaching variance components estimation

1. Approach so far:
check distribution

→ Other solutions?

Before and after diurnal correction



Conclusion

- EMBRACE-BS is on track
- New topic
 - Not all developments are yet foreseeable
 - Solutions sometimes need to be developed on the fly
- Knowledge exchange is essential

Thank you for your attention!

Questions / Comments?



Austria:

Christa Egger-Danner, Martin Mayerhofer, Martin Wackerle

Switzerland:

Beat Bapst, Adrien Butty, Annika Frei (ETH Masterstudent), Timothée Neuenschwander, Patrick Stratz

Germany:

Reiner Emmerling, Elena Frenken, Robin Joest

In strong collaboration with:

Lucas Alcantara, BSW Breeding Organisations, Breeders, Aubry (Installation company), GMG team, Tecnosens, Others

Red Dairy Team

Sweden

Elisenda Rius-Vilarrasa, Patricia Ask-Gullstrand, Sofia Nyman, Tomas Klingström

Norway

Bjørn Heringstad & Karoline Bakke (NOR),

Denmark

Trine Michelle Villumsen & Martin Bjerring

Finland

Enyew Negussie (FIN)

Canada

Filippo Miglior, Christine Baes & Debora Santschi (CAN),

United Kingdom

Mike Coffey & Raphael Mrode (UK)

(DNK),

PROGRESS UPDATE

GMGredDairy

Denmark | Finland | Sweden | Norway | Canada | UK



GMG

Red Dairy

WP1 - Progress Report

4/6 partners
collecting data from
the GMG funding

Denmark · Finland · Sweden · Norway ·
Canada · UK

Strong commitment
and active support

Excellent Technical support

Follow-up meetings every 3 months

WP 1 - Progress Overview

Sniffer installation and data collection



Trine M. Villumsen



Martin Bjerring

MILESTONE STATUS – Work package 1

Milestone	2025	Status
Farmers signed on, equipment bought, pipelines set up	Y1	On track
Collection of Phenotypes, pedigree and genotypes on farms	Y1–4	On track
Rumen microbiome sampling (central lab analysis)	Y1–3	On track
Combined genetic evaluation setup	Y3–4	On track
Outreach	Y2–4	On track

NARRATIVE HIGHLIGHTS

Outreach

Papers to WCGALP
and EAAP

Installation

2 sniffers installed in DNK,
4 in SWE, 5 in NOR and 3
in FIN installing Apr–May.

Data Pipelines

DNK operational;
SWE gas DB;
FIN and NOR available

Challenge

Key Metrics — 2025



CH₄ phenotyping, equipment, and microbiome sampling progress vs. targets

952

Cows with CH₄
phenotype
Target: 1,940

14 / 14

Sniffers purchased
11 operational

920

Genotyped animals
with CH₄ phenotype

0

Microbiome samples
Awaiting ethics permit

CH₄ PHENOTYPE PROGRESS

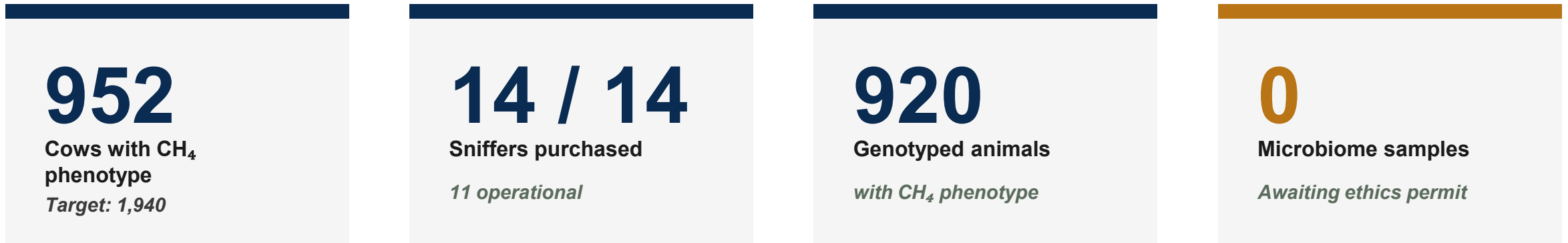
952 of 1,940 (49%)

Target: 1,940 animals

Key Metrics — 2025



CH₄ phenotyping, equipment, and microbiome sampling progress vs. targets



CH₄ PHENOTYPE PROGRESS



COUNTRY DEPLOYMENT STATUS

Country	Sniffers	Installation	Data Pipeline	Microbiome
Denmark	2	Complete	Established	Awaiting permit
Sweden	4	Complete	Only DB Operational	On track
Norway	5	Complete	Ready not tested	uncertain
Finland	3	Apr–May 2026	Ready not tested	Awaiting permit

Swedish project



SECTION

National activities on methane projects



Patricia Ask-Gullstrand



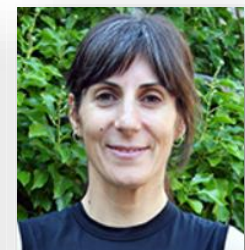
Sofia Nyman



Linnea Bark



Anna Medved



Elisenda Rius-Vilarrasa



Thomas Klingström



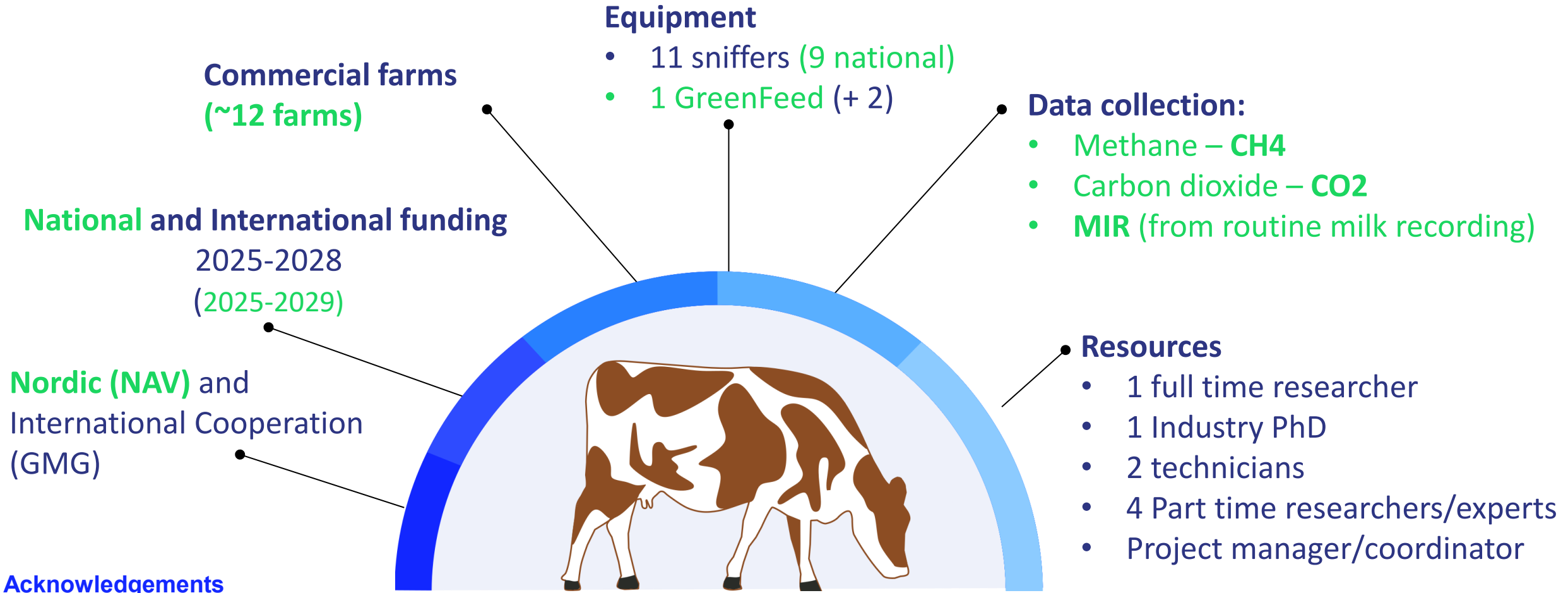
Ingemar Ohlsson

Data infrastructure

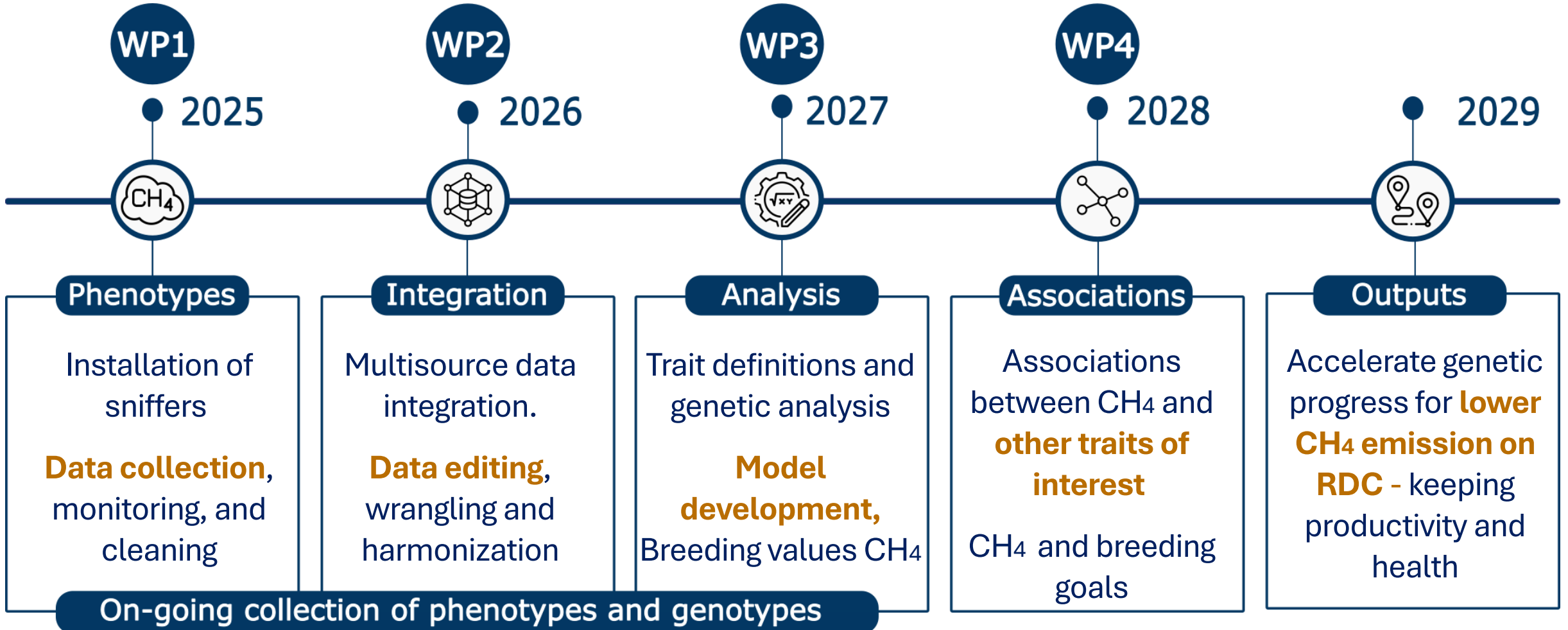


Rebecca Danielsson,
feeding expert

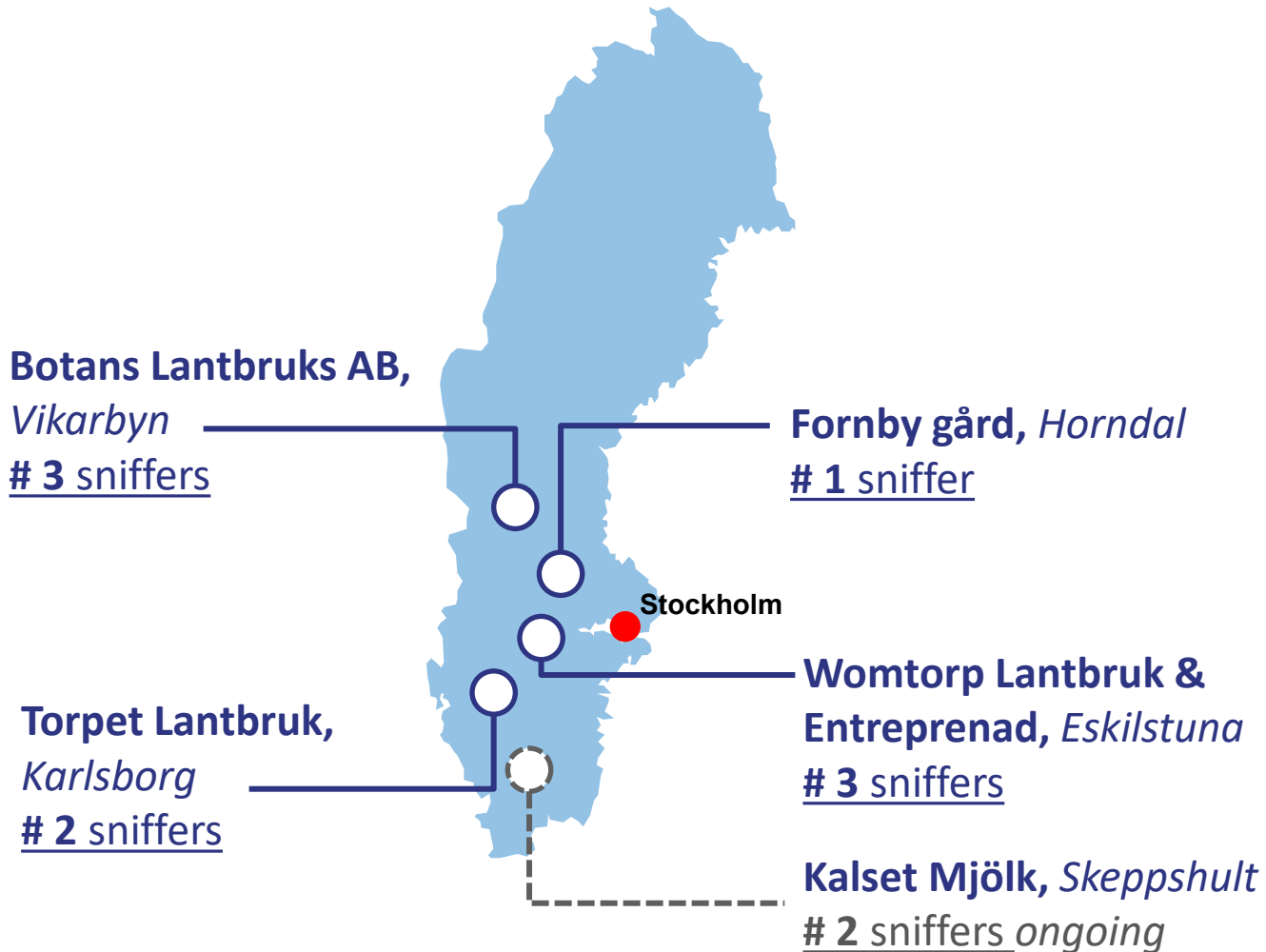
Swedish Methane projects - Red Dairy Cattle



Swedish Methane projects



Methane data collection, today



i

- **Mixed herds, RDC and HOL, but focus on RDC**
- **November 2025** - 2 first sniffers installed “test data”
- **December 2025**, start of “official data” collection

Methane data collection, today – year 2029

i

TODAY

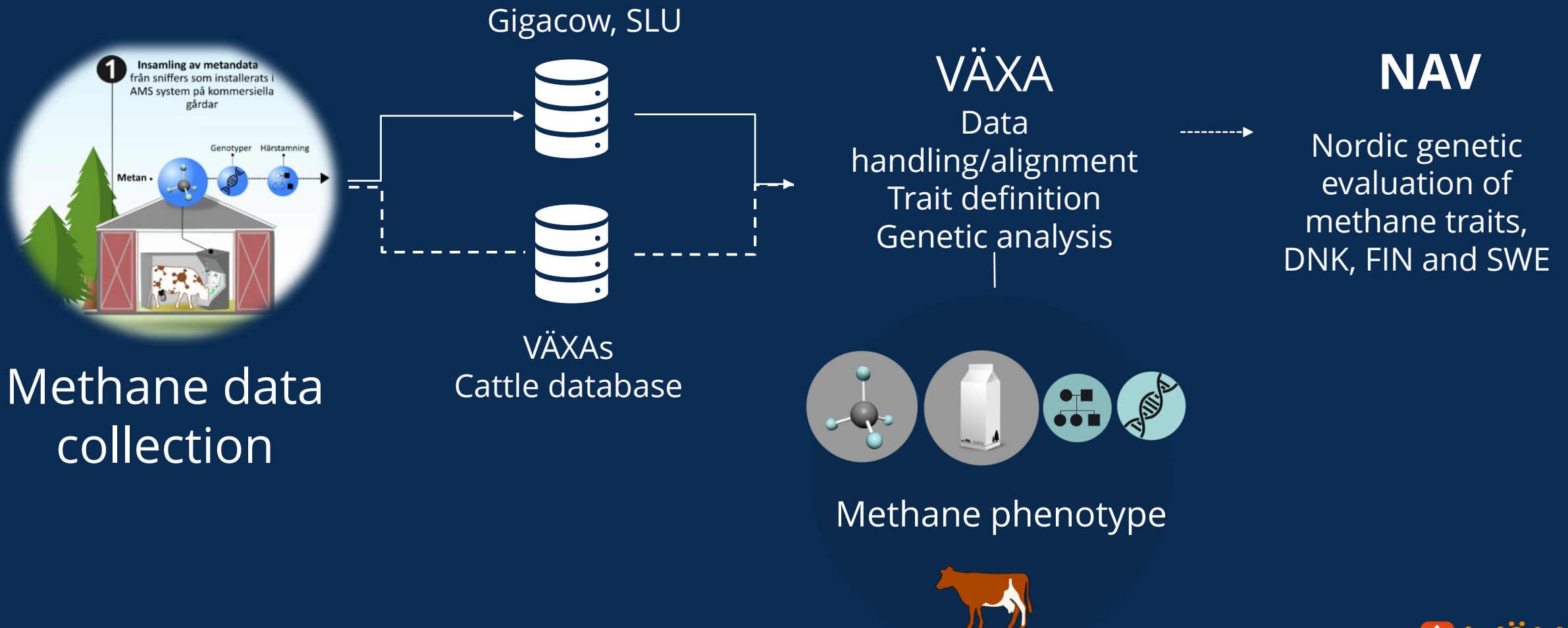
- **# 9** Sniffers
- **# 4** farms
- **# 390** unique methane RDC cow registrations
- Time recording **~3 months**
- **# live data monitoring**
- **MIR data** – all farms in Växa's cattle database

i

Year 2029

- **# 11** Sniffer + **# 1 GreenFeed (+2)**
- **# ~ 20** farms
- **# 2 800** unique methane RDC cow registrations
- Time recording **3-6 months/farm**
- **Proxy for methane trait (MIR)**, on all RDC cows
- Live data monitoring + alert system

From raw data to breeding values



CLIMAT TRAITS

Nordic Breeding Goal - NTM



FEED EFFICIENCY

CONFORMATION

HEALTH

PRODUCTION

Thanks!

Picture + Content

Subtitle or short lede describing the content

Picture placeholder

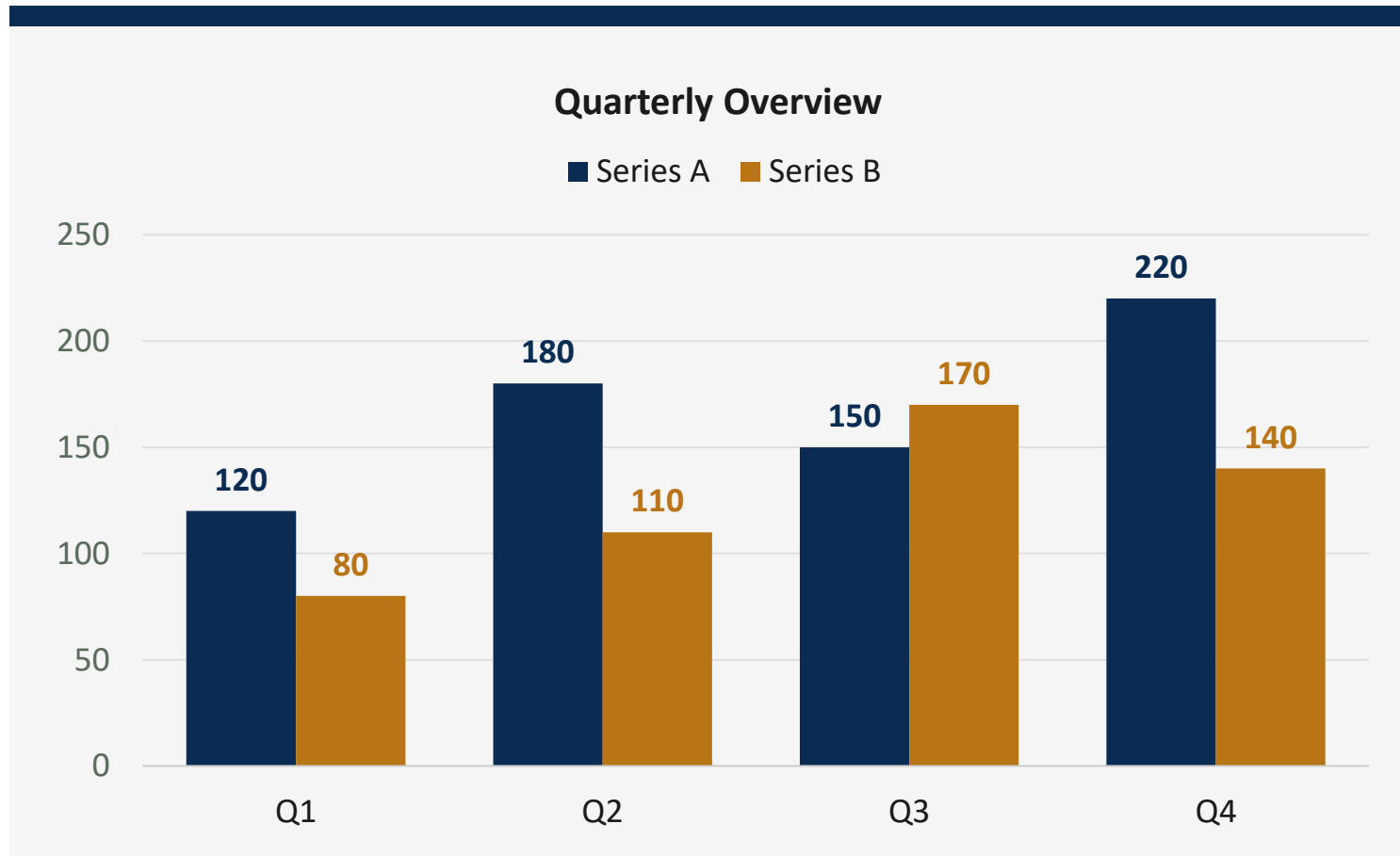
KEY POINTS

Section Heading

- Key point one
- Key point two
- Key point three
- Key point four

Chart Title Goes Here

Brief description of what this chart shows



KEY TAKEAWAYS

- Insight one from the data
- Insight two from the data
- Insight three from the data
- Final observation or next step

Global Methane Genetics - Jersey

Rasmus Stephansen, Trine Villumsen, Débora Santschi, Christine Baes, Filippo Miglior & Olivier Bulot



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In Partnership with



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Global
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By ChatGPT

Global Methane Genetics - Jersey

Methane mainly recorded on Holsteins – why not **Jersey**?

We expect **differences** due to size, genetics and microbial composition in rumen

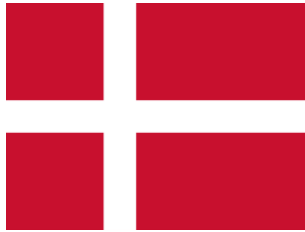
Initiatives already started in Canada and Denmark

An opportunity to **accelerate** number of recordings

World Jersey for global **dissemination** of results



The “yellow” team



What we have achieved so far

Sniffers installed in Canada (6; total 12)
& Denmark (10; total 25)

M1.1 completed, and we are collecting data

Bilateral data sharing agreement -> start
developing bi-country model in summer 2026

PostDoc from Canada visits Denmark -
harmonizing sniffer data

GMG Jersey Poster at WCGALP 2026



Next Steps

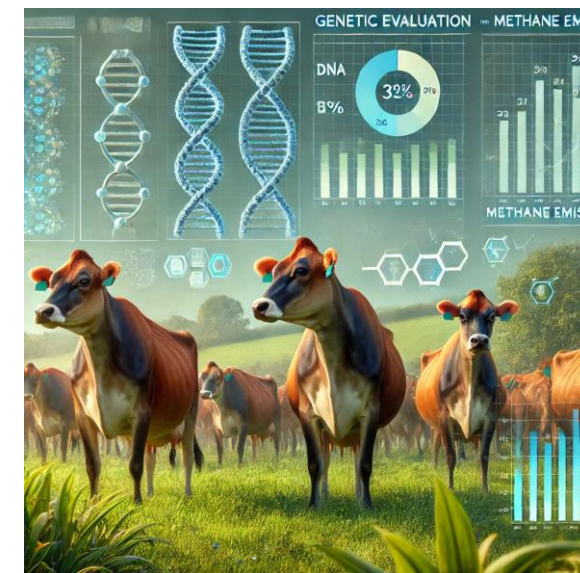
Expect first data upload to GMG database ultimo 26

Start rumen sampling in mid 2026 (only Denmark)

Danish data into NAV Methane evaluation May 2026

Dissemination by World Jersey - one article on starting phenotyping in GMG Jersey

Stimulate interest in other countries with Jersey's



By ChatGPT

Challenges, issues, and open questions

Challenges in getting license from ministry and farmers willing to allow rumen sampling

Many sniffers to install at once and keep up running in terms of costs and recruiting staff

Thank you for your attention

#GoYellowCow



By ChatGPT

International collaboration developing standards and quality control measures for phenotyping with a used in breeding programs, and accelerating the phenotyping

Trine Villumsen, Coralia Manzanilla-Pech, Yvette de Haas, Roel Veerkamp, Viktor Milkevych, Mogens Lund, Chantal van Gemert, Birgit Gredler-Grandl, Anouk van Breukelen, Rasmus Stephansen, Johan Snijders, Martin Bjerring.

Problem:

Lack of standardisation (sniffer/setup)
Comparability across farms/countries
Limits use in genetic evaluation



Objective:

Develop international standards
Harmonize data collection processing
Enable genetic evaluation
Build large dataset (~20k HOL cows)

FROM MEASUREMENTS TO BREEDING VALUES



*Lab and on farm **validation** of sniffers*

***Protocols** for installation & calibration*

***Automated pipeline** (GEDA) operational*

*Bi-country **genetic evaluation***

CURRENT PROGRESS & CHALLENGES

Data

WUR

- 10K HF cows
- 89 farms
- 2018-2025
- Caritech
- CH₄, CO₂ ppm

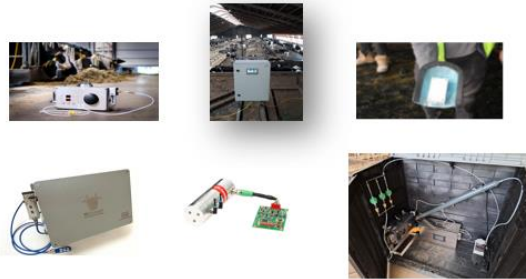
- Future:
- 25 Moologger

AU

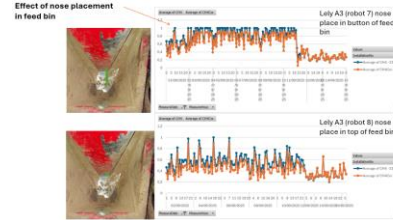
- 9K HF cows
- ~25 farms
- 2016-2025
- Guardian
- CH₄, CO₂ ppm

- Future:
- 30 Guardian

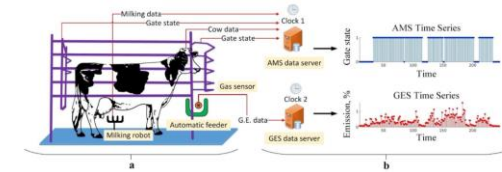
Sniffer comparison



Protocols



Pipeline development

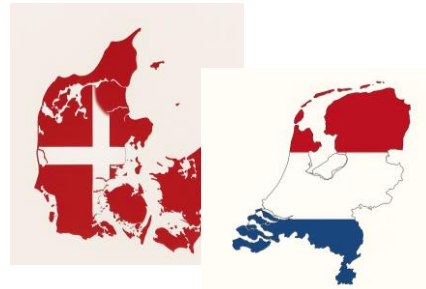


Challenges

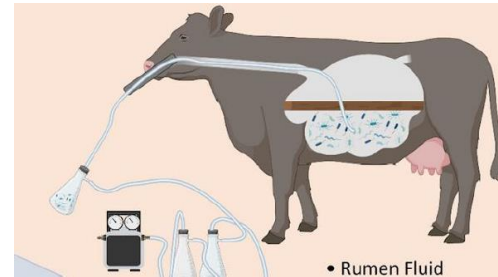
Robust trait



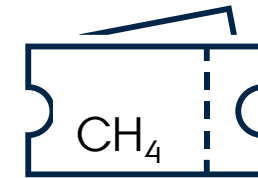
Bi-country evaluation



Rumen samples



Credit system



International collaboration developing standards and quality control measures for phenotyping with a used in breeding programs, and accelerating the phenotyping

Trine Villumsen, Coralia Manzanilla-Pech, Yvette de Haas, Roel Veerkamp, Viktor Milkevych, Mogens Lund, Chantal van Gemert, Birgit Gredler-Grandl, Anouk van Breukelen, Rasmus Stephansen, Johan Snijders, Martin Bjerring.

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FROM MEASUREMENTS TO BREEDING VALUES



Lab and on farm **validation** of sniffers

Protocols for installation & calibration

Automated pipeline (GEDA) operational

Bi-country **genetic evaluation**

CURRENT PROGRESS & CHALLENGES

Data

WUR

- 10K HF cows
- 89 farms
- 2018-2025
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- CH₄, CO₂ ppm

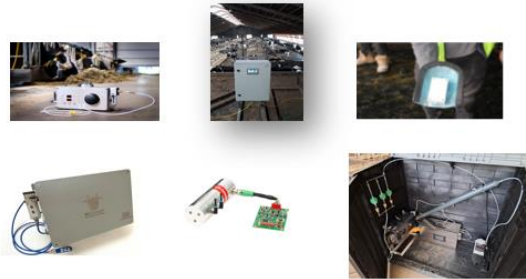
- Future:
- 25 Moologger

AU

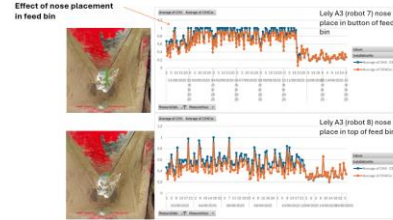
- 9K HF cows
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- Future:
- 30 Guardian

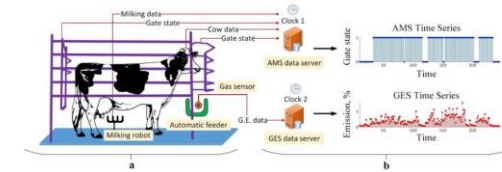
Sniffer comparison



Protocols



Pipeline development

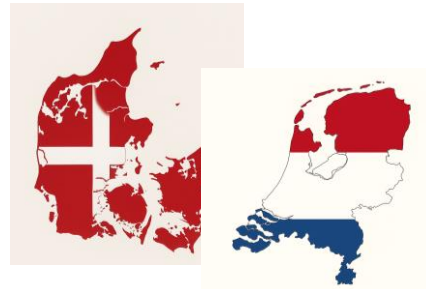


Challenges

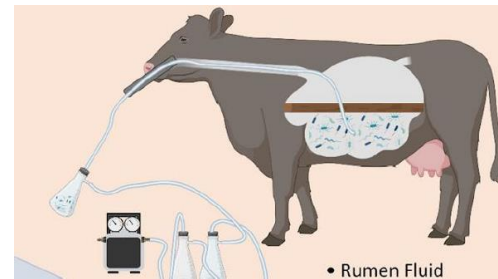
Robust trait



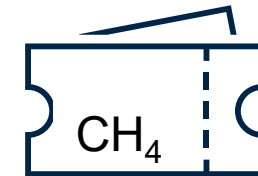
Bi-country evaluation



Rumen samples



Credit system



Sniffer comparison for large-scale methane recording

April 23, 2026

Yvette de Haas, Chantal van Gemert,
Johan Snijder



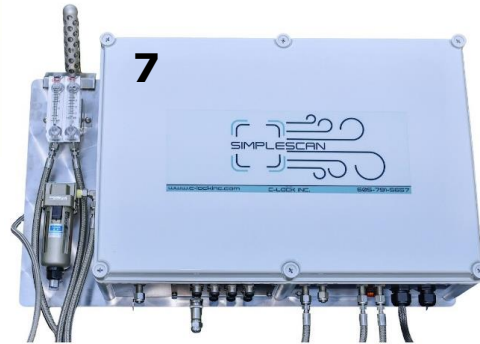
Develop protocols for methane recordings



Establishing quality standards for **sniffers** and setting up test facility (lab and on farm) for different sniffer types that will serve as guidelines when starting to collect methane records

- Compare specifications of commercially available sniffers
- Calibrate and validate a few of these in our Air Quality Lab
- Set up a test facility on farm with different sniffer types
- Validate these sniffers against the lung method* and a GreenFeed
- Set up protocol for methane recordings with a sniffer device

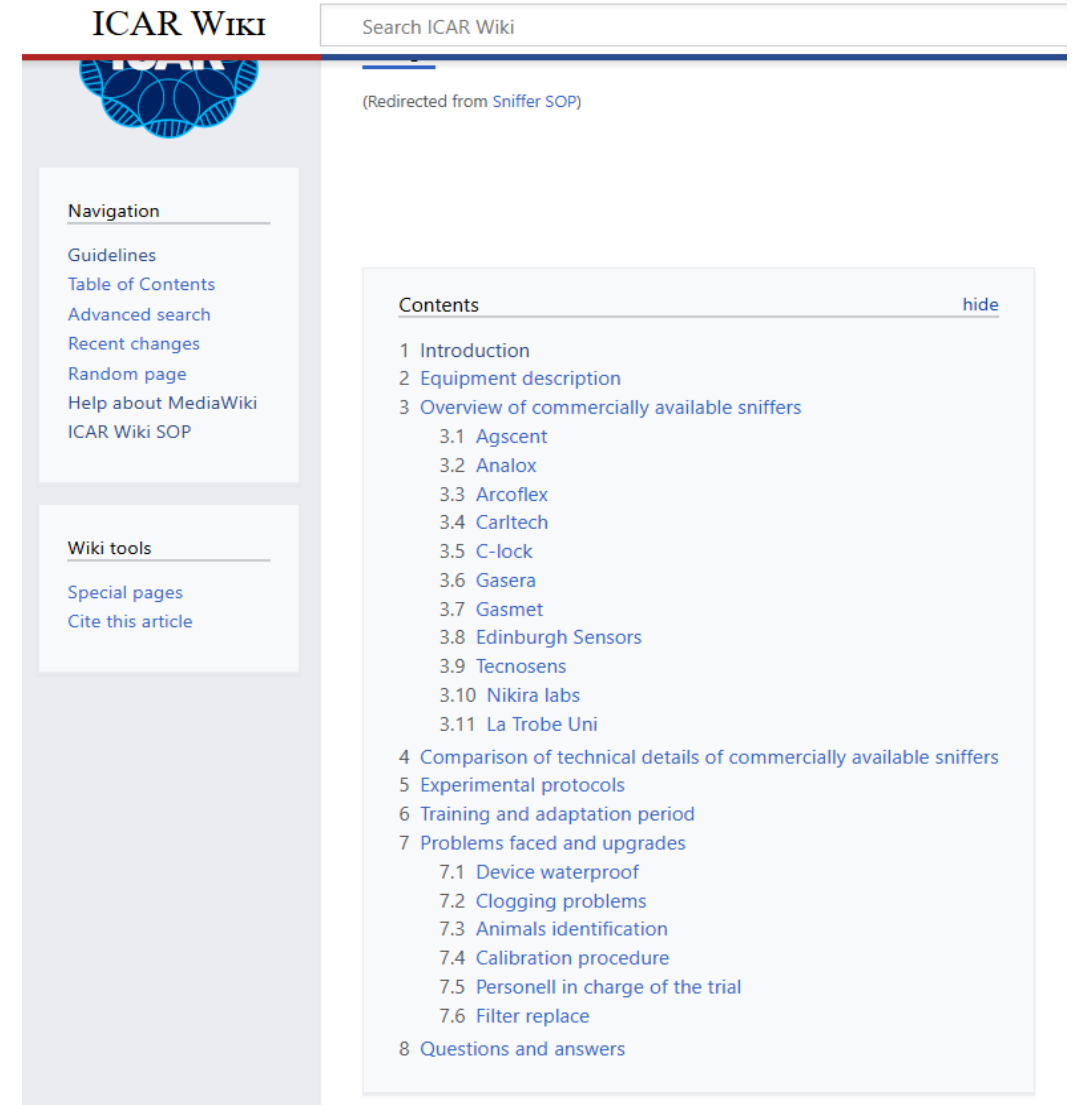
Commercially available sniffers



<https://carltech.nl/en/products>
<https://agscent.com/products/agscent-air/>
<https://gasera.fi/product/gasera-one-pulse/>
Arcoflex: <https://doi.org/10.1016/j.cej.2025.165629>
<https://edinburghsensors.com/products/gas-monitors/>
<https://www.tecnosens.it/en/Tecnosens-products/moologger>
<https://www.c-lockinc.com/products/emissions-monitoring/simplescan>
<https://www.gasmet.com/products/category/portable-gas-analyzers/gt5000-terra/>

Specifications

- Type of (infrared) sensors used
- Measured gas/gases
- Range of gas measurements
- Response time
- Repeatability, accuracy
- Internal data storage
- Interface
- Size & Weight
- IP value
- Price



ICAR Wiki

Search ICAR Wiki

(Redirected from Sniffer SOP)

Navigation

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- Advanced search
- Recent changes
- Random page
- Help about MediaWiki
- ICAR Wiki SOP

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- Cite this article

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 - 3.2 Analox
 - 3.3 Arcoflex
 - 3.4 Carltech
 - 3.5 C-lock
 - 3.6 Gasera
 - 3.7 Gasmeter
 - 3.8 Edinburgh Sensors
 - 3.9 Tecnosens
 - 3.10 Nikira labs
 - 3.11 La Trobe Uni
- 4 Comparison of technical details of commercially available sniffers
- 5 Experimental protocols
- 6 Training and adaptation period
- 7 Problems faced and upgrades
 - 7.1 Device waterproof
 - 7.2 Clogging problems
 - 7.3 Animals identification
 - 7.4 Calibration procedure
 - 7.5 Personell in charge of the trial
 - 7.6 Filter replace
- 8 Questions and answers

ICAR Wiki page: https://wiki.icar.org/index.php/Sniffer_SOP

Set up lab facility



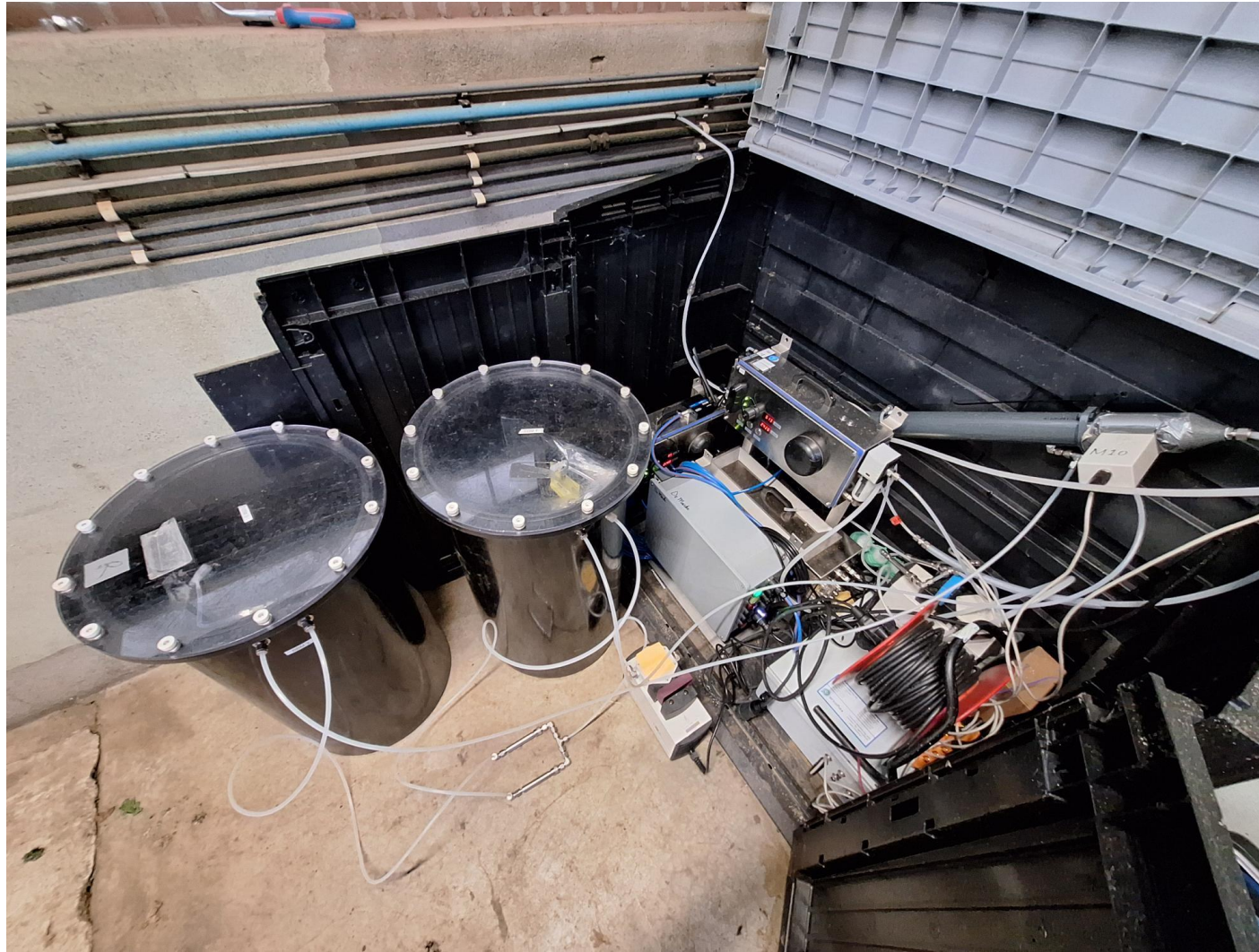
Results from lab testing

Offered CH ₄ concentration (ppm)	Recorded CH ₄ concentration (ppm)							
	Sniffer 1a	Sniffer 1b	Sniffer 2a	Sniffer 2b	Sniffer 3a	Sniffer 3b	Sniffer 4a	Sniffer 4b
145	147	139	160	198	246	287	200	189
295	295	288	308	328	461	280	349	337
595	592	584	603	588	685	668	647	637
1192	1179	1171	1200	1115	1221	1402	1246	1237
1787	1758	1750	1799	1642	2017	2152	1843	1839

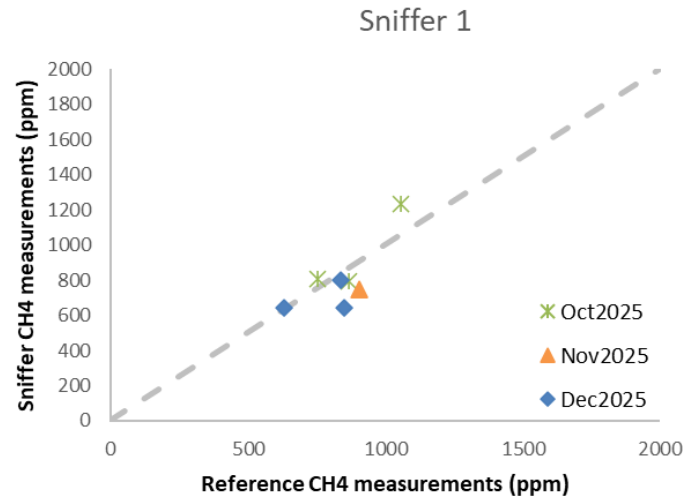
Set up on farm facility



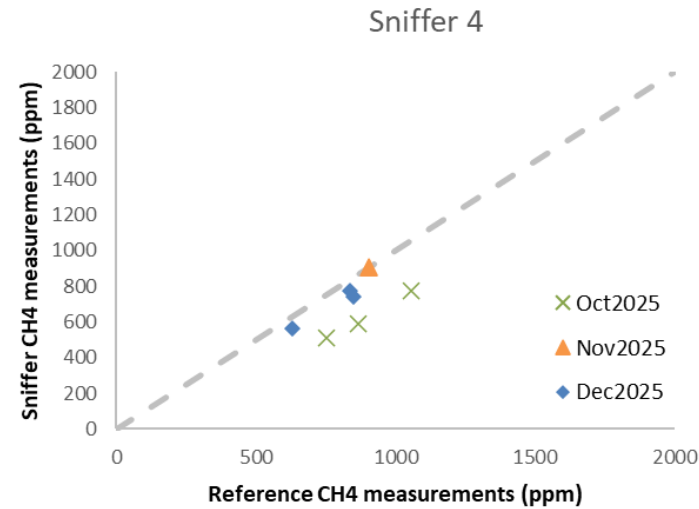
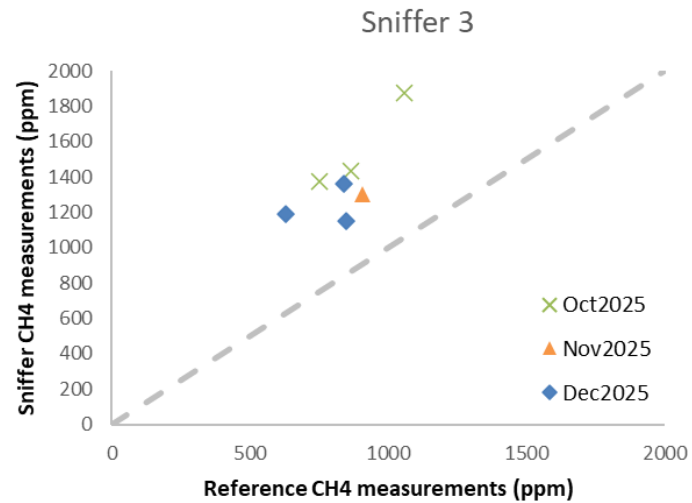
Test facility with lung method (= Gold Standard)



Results from lung method



Sniffer 2
broke down
after only a
few weeks in
the barn



Comparison with the GreenFeed

	Pearson				Spearman rank		
	GreenFeed	Sniffer 1	Sniffer 3		GreenFeed	Sniffer 1	Sniffer 3
Sniffer 1	0.31				0.32		
Sniffer 3	0.33	0.98			0.34	0.98	
Sniffer 4	0.24	0.89	0.91		0.33	0.92	0.95

GreenFeed-visit not at the same moment as AMS-visit; sniffers all same air

Summarizing conclusions

- There are differences in performance of sniffers to record methane concentrations in the breath of dairy COWS
- The lung method is a way to longitudinally monitor the performance of sniffers over time
- First results between methane production (g/d, with GreenFeed) and methane concentrations (ppm, with sniffers) show a positive correlation



Official ICAR testing centre for validation

Validation of sniffer and other methane recording devices with ICAR

- I. Air Quality Lab of Wageningen University & Research
- II. Innovation and Research Center Dairy Campus

➤ Now manufacturers can request validation of their devices through ICAR for *Ruminant gas production CH₄ and CO₂*

<https://my.icar.org/applications-for-icar-validation/edit/>

Thank you for your attention

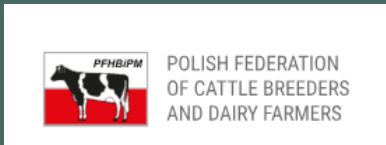
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In Partnership with  **BEZOS EARTH FUND**  **Global Methane Hub**



Yvette.deHaas@wur.nl



GMG: Accelerate the collection GHG data in two European milk-producing countries.

Raffaella Finocchiaro (ANAFIBJ) & Marcin Pszczola (PFHBiPM)
Project Leaders

Italian Partners

- Francesco Tiezzi – University of Florence
- Giulio Visentin – University of Bologna
- Maddalena Zucali – University of Milan
- Guido Invernizzi – University of Milan



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Project overview

MOOLOGGERS ROTATION LOGISTICS PLAN

15 Moologgers – Monthly Rotation – 7,500 Cows in 3 Years



TARGET
7,500
Cows in 3 Years



DURATION
3
Years



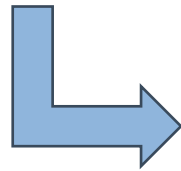
COVERAGE
2,500
Cows per Year



CAPACITY
50
Cows per Robot



RESOURCES
15
Moologgers



Microbiome → 500 cows

- 6 → GMG funding

9 → other fundings or agreements

LOGISTICS FLOW



Install Moologger on Robot X



Collect data for 1 month



Move Moologger to next robot



Repeat monthly rotation

- 2 Farms with 2 ML each for all year long
- All the farms are following the rotation as reported



Project status – Installation through Italy

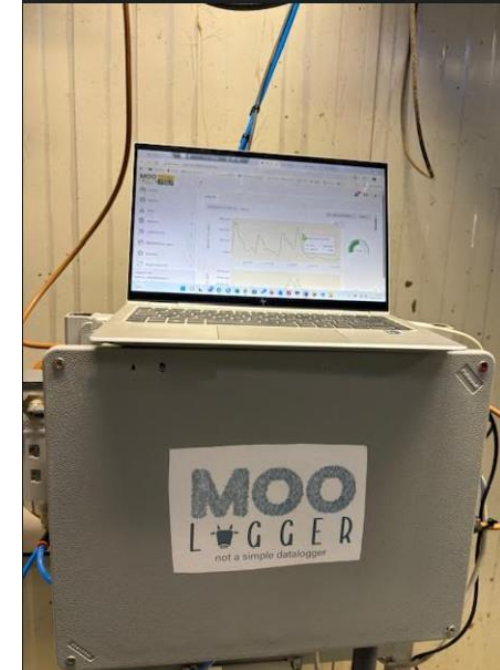
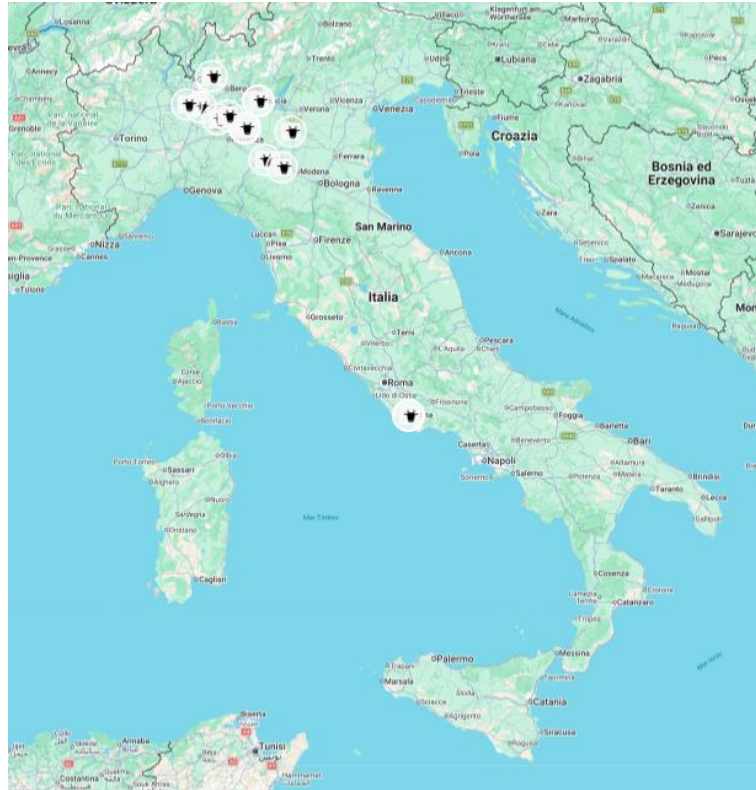
ROBOT DISTRIBUTION IN ITALY

SUMMARY BY BRAND

BRAND	UNITS	TOTAL (UNITS x 50)
TDM	14	700
GEA	5	250
DELAVAL	11	550
LELY	2	100
TOTAL	32	1,600

LEGEND

- TDM
- GEA
- DELAVAL
- LELY



your COW
our FUTURE

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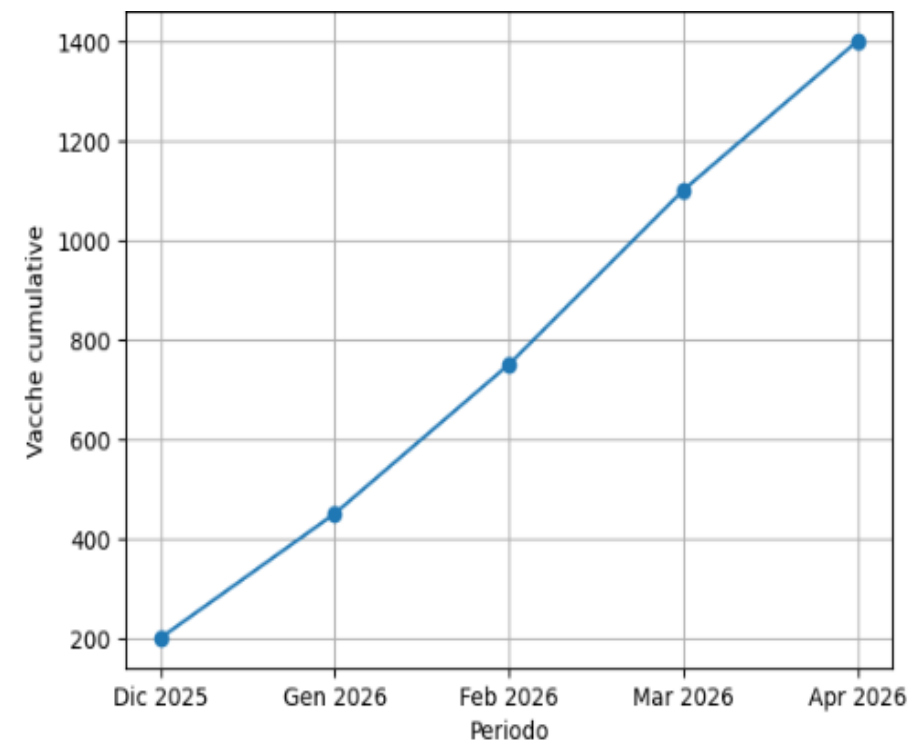
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Project status – data process

- **GMG management tool** to follow the MooLogger logistics
- Once installed every day at midnight ML data are downloaded to ANAFIBJ database
 - Email alerts if data are not downloaded from «X» ML
- Depending on the agreements each AMS company provides the data usually once a week with different ad hoc procedures
- ML/AMS data alignment in progress
 - Testing GEDA
 - Testing in-house scripts

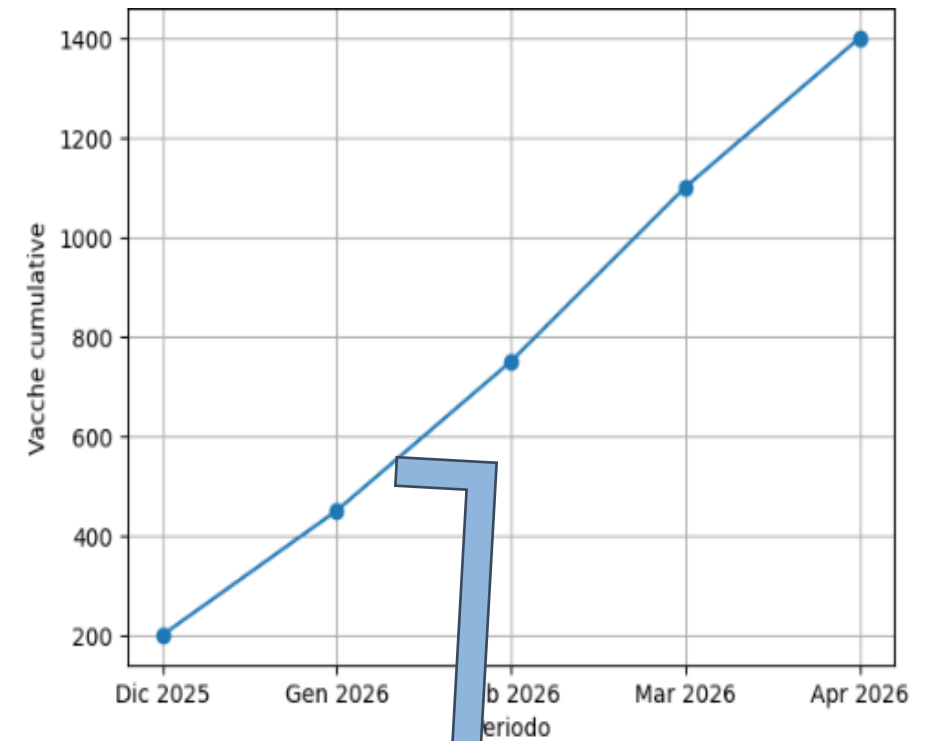
Progressive Timeline Map



Project status – data process

- **GMG management tool** to follow the MooLogger logistics
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Progressive Timeline Map



Microbiome -> + 100 samples collected



Project status – Italy GMG jourey on LinkedIn and IG

Raffaella Finocchiaro · You
Senior researcher · Research and Development office · ANAFIBJ-Italian Holstein...
3mo · Edited · 🌐

GMG initiative project Ch4 data collection.

Today we performed MooLogger (Tecnosens S.p.A) calibration. Thanks to [Alessandro Bracchi](#) for remote support.

Thanks to the Guerini Rocco farm (Genivolta-CR). During one month we record ed ch4 emission of 100 cows. Thanks to [TDM Total Dairy Management](#) for cooperation in this first step, and now together we move to another farm!

[ANAFIBJ - Associazione Nazionale Allevatori della razza Frisone, Bruna e Jersey Italiana](#)

[Wageningen University & Research](#)

[Bezos Earth Fund](#)

👍❤️ Maria Siwek and 56 others · 2 comments · 3 reposts

🌐 Like Comment 🔄 Repost 📧 Send

Raffaella Finocchiaro · You
Senior researcher · Research and Development office · ANAFIBJ-Italian Holstein...
1mo · 🌐

March had already several installations!

Thanks to the farmers and all the AMS companies sharing with us this trip!

[GEA Group](#)
[DeLaval](#)
[TDM Total Dairy Management](#)
[Tecnosens S.p.A](#)

#GMG initiative is going on!
[Wageningen University & Research](#)
[Bezos Earth Fund](#)

👍❤️ Maria Siwek and 52 others

Raffaella Finocchiaro · You
Senior researcher · Research and Development office · ANAFIBJ-Italian Holstein...
2mo · 🌐

#GMGinitiative #Ch4datacollectionandgenotyping

Yesterday we installed another 2 MooLoggers (Tecnosens S.p.A) in 2 different farms. Thanks to the "Istituto Pastori" (Brescia) and to "Giorgio Benetti" (Melegano). Thanks for cooperation with DeLaval

Thanks to all the ANAFIBJ - Associazione Nazionale Allevatori della razza Frisone, Bruna e Jersey Italiana classifiers which are reaching all farmers with AMS to cooperate with this project.

[Wageningen University & Research](#)
[Bezos Earth Fund](#)

Francesca Fumagalli
Alessandro Bracchi
Greta Bonacina

👍❤️ Maria Siwek and 46 others

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Project status – GMG and ANAFIBJ team



Manuel Galleani -IT



Francesca Fumagalli
Coordination with
farmers and classifiers



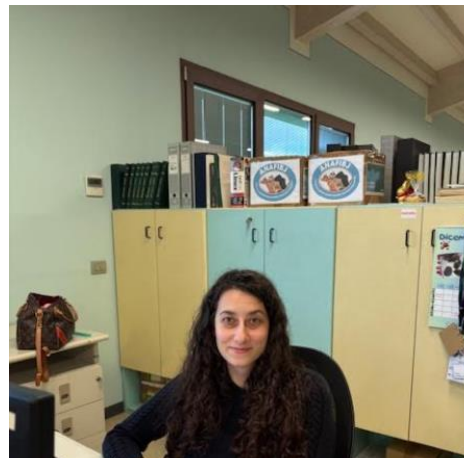
Elisa Ferrari and Elena Moretti
administration



Mirko Bolzoni –
Installation ML



Alessia Pea
preparing samples to
genotype procedures



Chiara Franzoni Migliorati
coordination genotyping
sample



Lorenzo Benzoni
coordination genotyping
sample and farmers contacts

Thank you also to..

- We would like to thank you also all our partners which are helping on data-collection and data analysis

