

Swedish project



SECTION

National activities on methane projects



Patricia Ask-Gullstrand



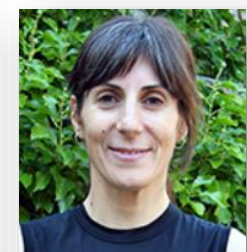
Sofia Nyman



Linnea Bark



Anna Medved



Elisenda Rius-Vilarrasa



Thomas Klingström



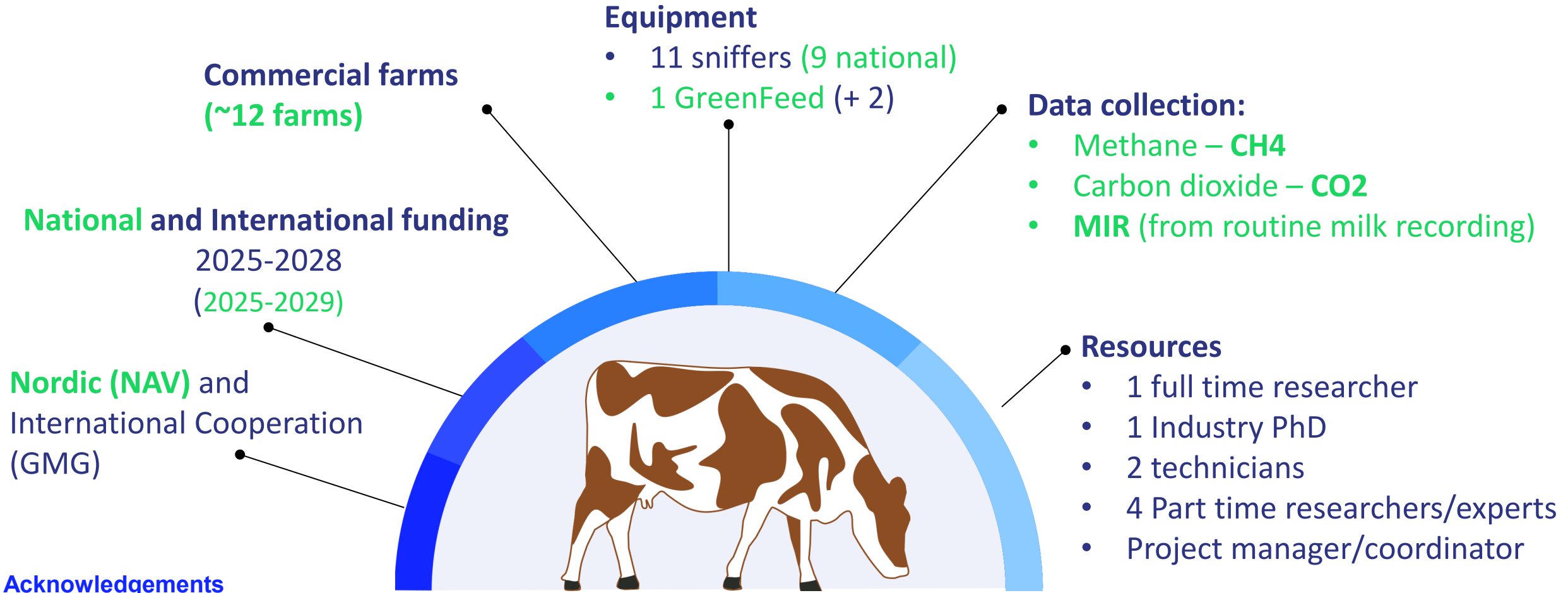
Ingemar Ohlsson

Data infrastructure

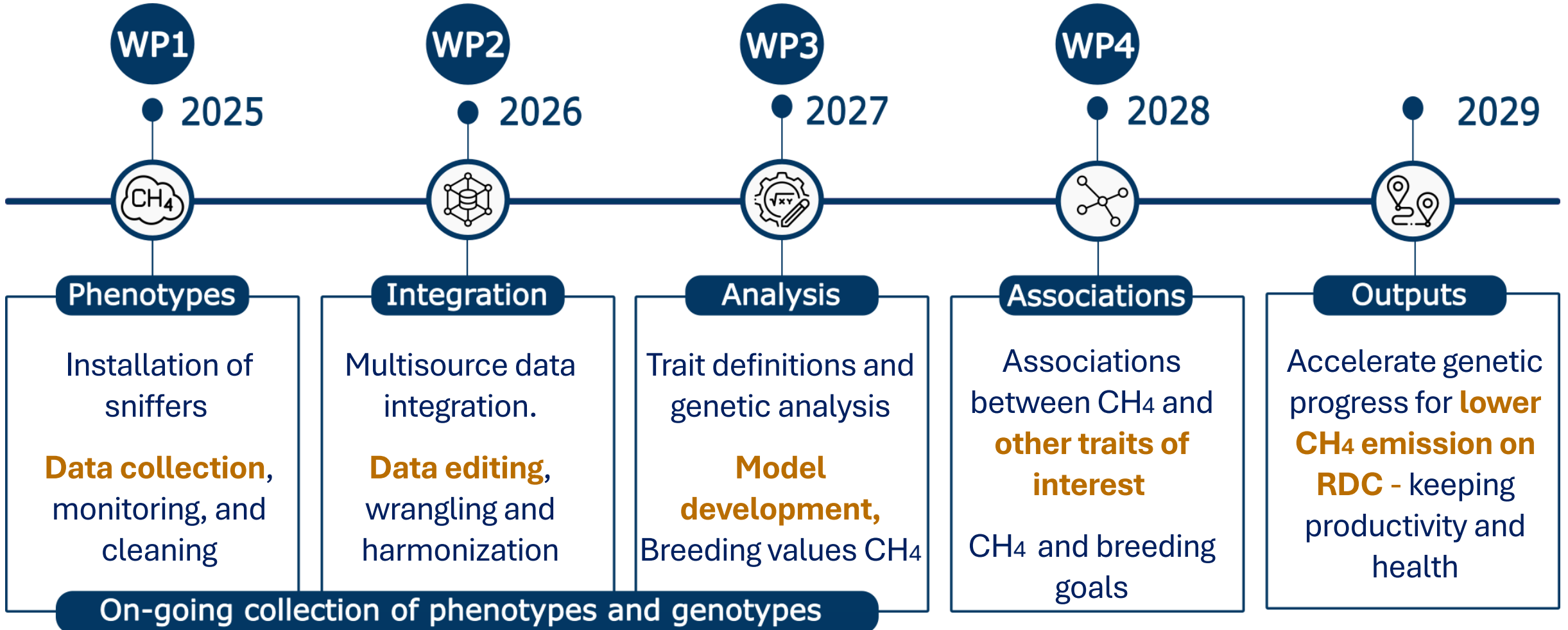


Rebecca Danielsson,
feeding expert

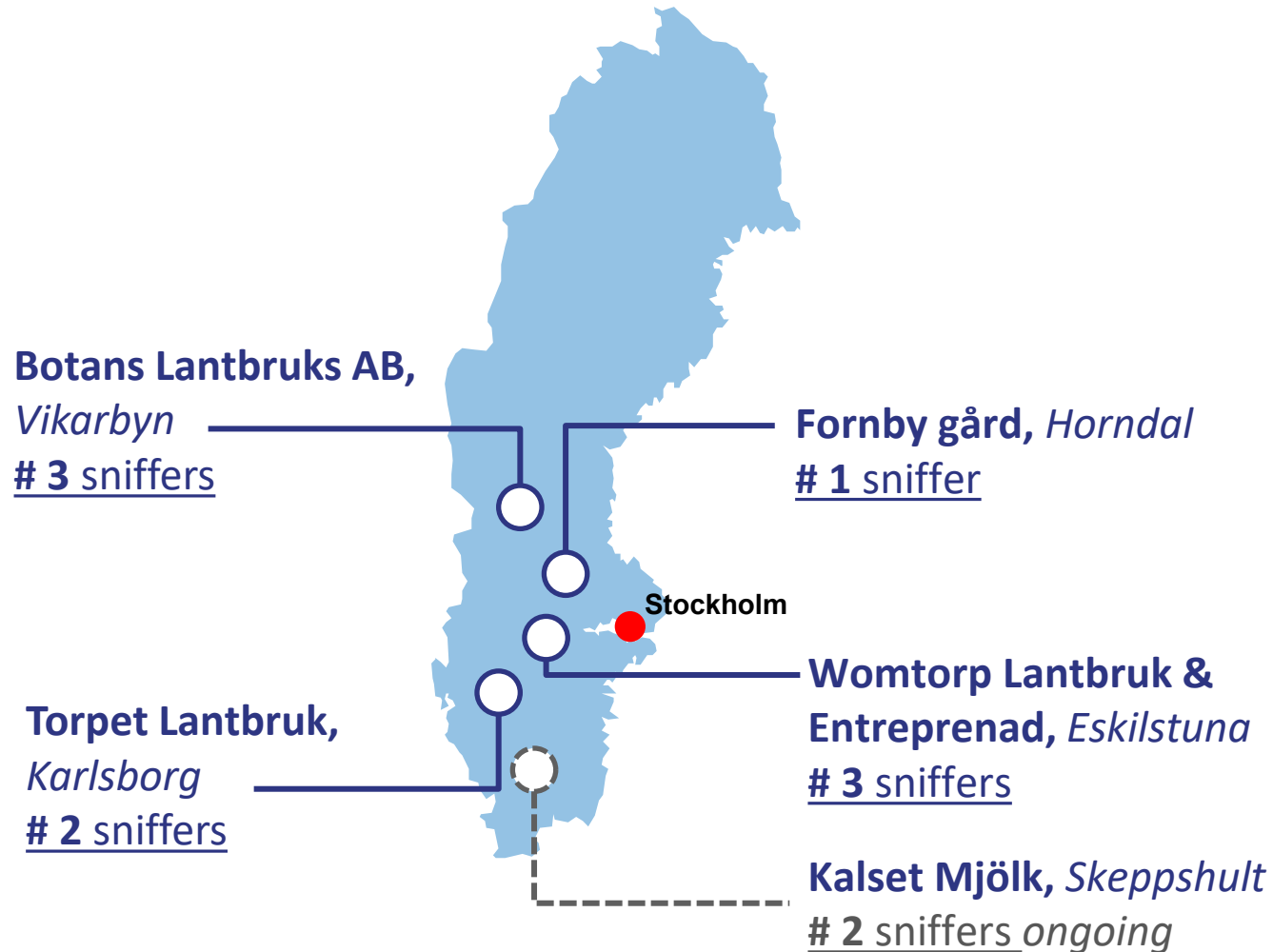
Swedish Methane projects - Red Dairy Cattle



Swedish Methane projects



Methane data collection, today



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- **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

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TODAY

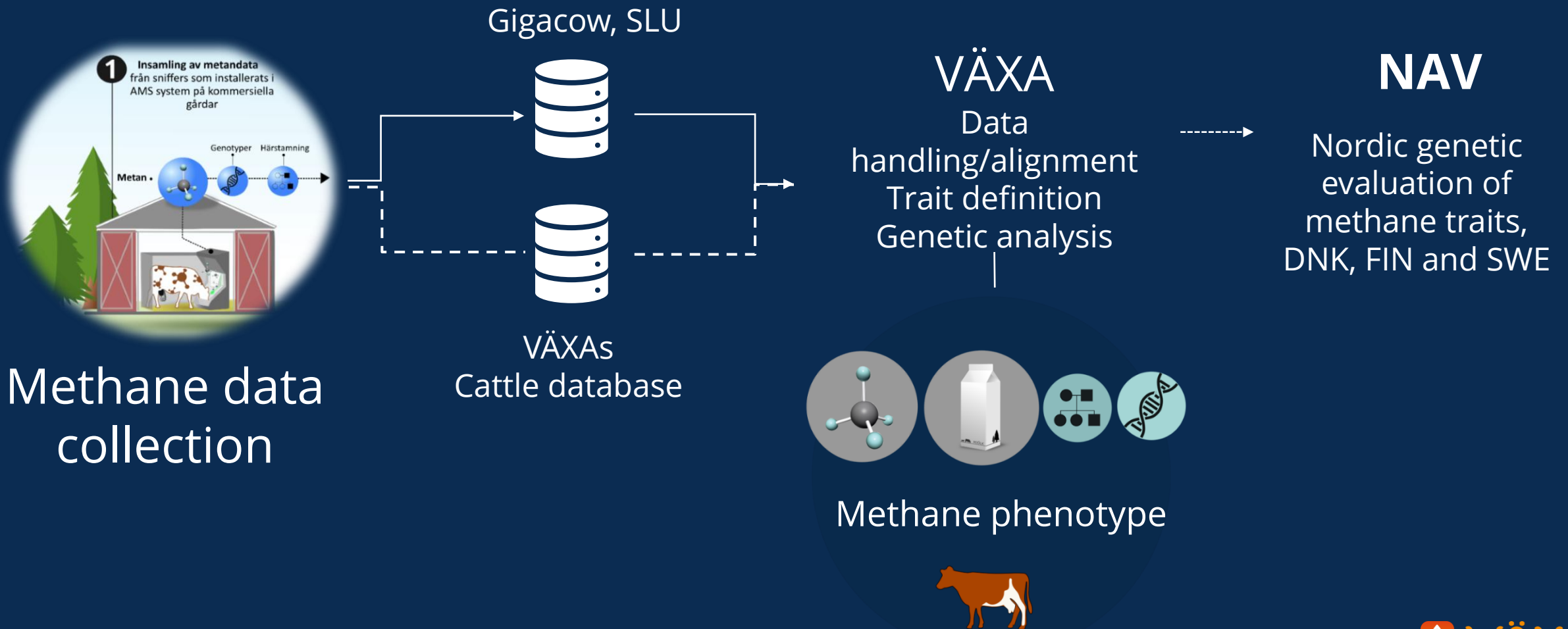
- **# 9** Sniffers in **15** AMS
- **# 4** farms
- **# 390** unique methane RDC cow registrations
- Time recording **~3 months**
- **# live data monitoring**
- **MIR data** – all farms in Växa's cattle database

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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



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

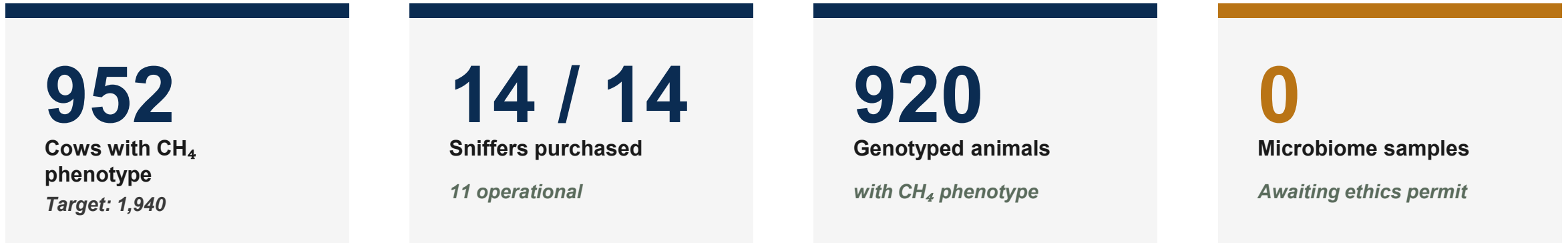
952 of 1,940 (49%)

Target: 1,940 animals

Key Metrics — 2025



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



CH₄ PHENOTYPE PROGRESS

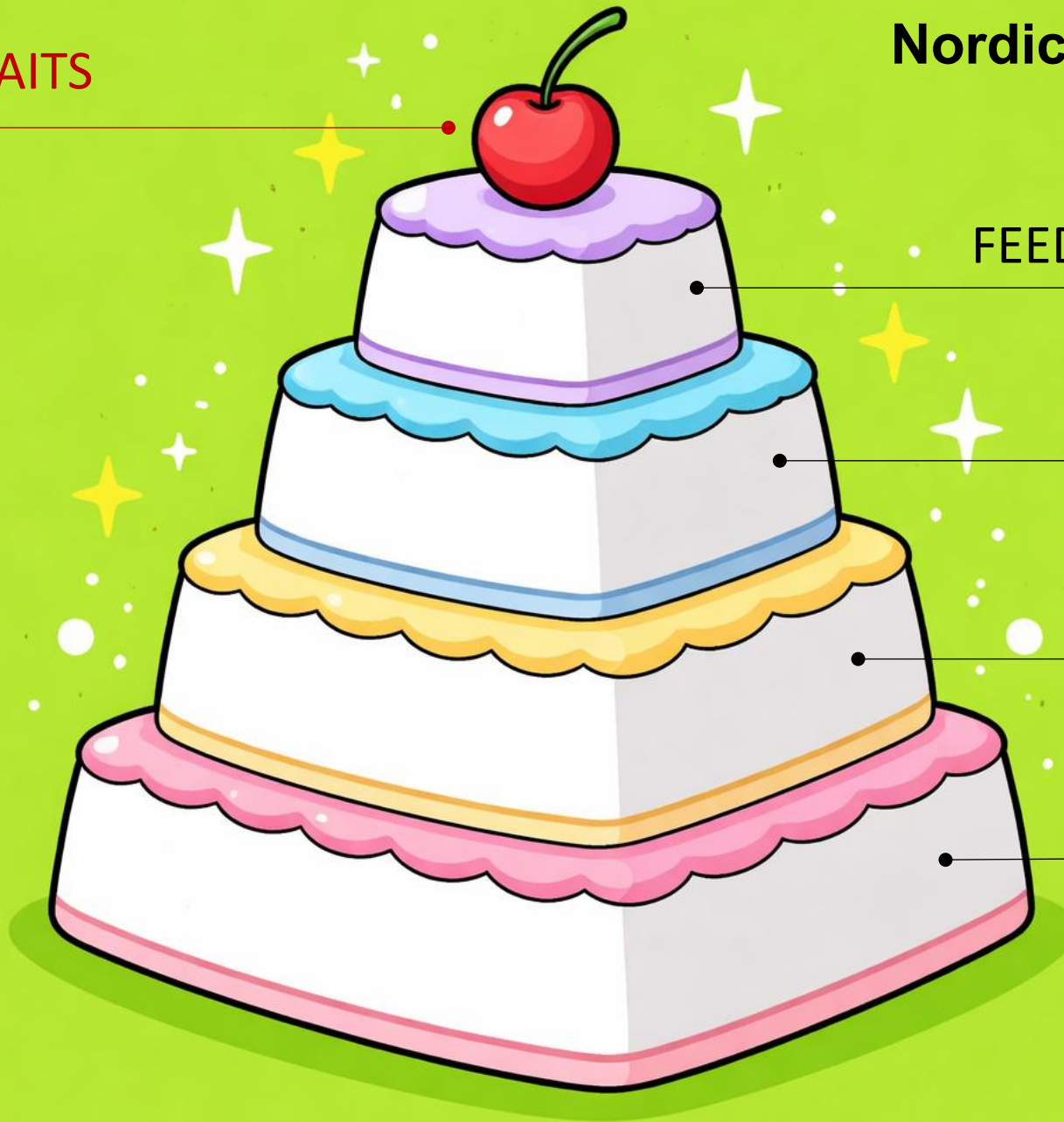


COUNTRY DEPLOYMENT STATUS

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

CLIMAT TRAITS

Nordic Breeding Goal - NTM



FEED EFFICIENCY

CONFORMATION

HEALTH

PRODUCTION

Thanks!