



iDDEN

The international dairy data exchange network

Webinar

iDDEN – implementing ADE

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Thomas Pekeler (vit)

Streamlining data exchange between dairy herds, milk recording organizations, farm service providers, dairy equipment manufacturers and on-farm software organizations.

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- iDDEN as worldwide solution for data exchange
- Design goals of iDDEN
 - Using ADE messages
- Architecture overview of iDDEN
- State of iDDEN
 - Implemented ADE messages
- Using ADE Standard within iDDEN
 - Collaboration with ADE work group
- Summary
- How to get started

Who is iDDEN?



- Owned and governed by a consortium of farmer-controlled member organizations sharing a joint vision
- Each represents a geographical area and/or more than 1 million milk recorded cows
- Represents 20 million cows in 200,000 herds
- Established as a German limited liability company (GmbH) in 2020
- Funding and longevity to enhance, modify and update the data exchange hub as needed

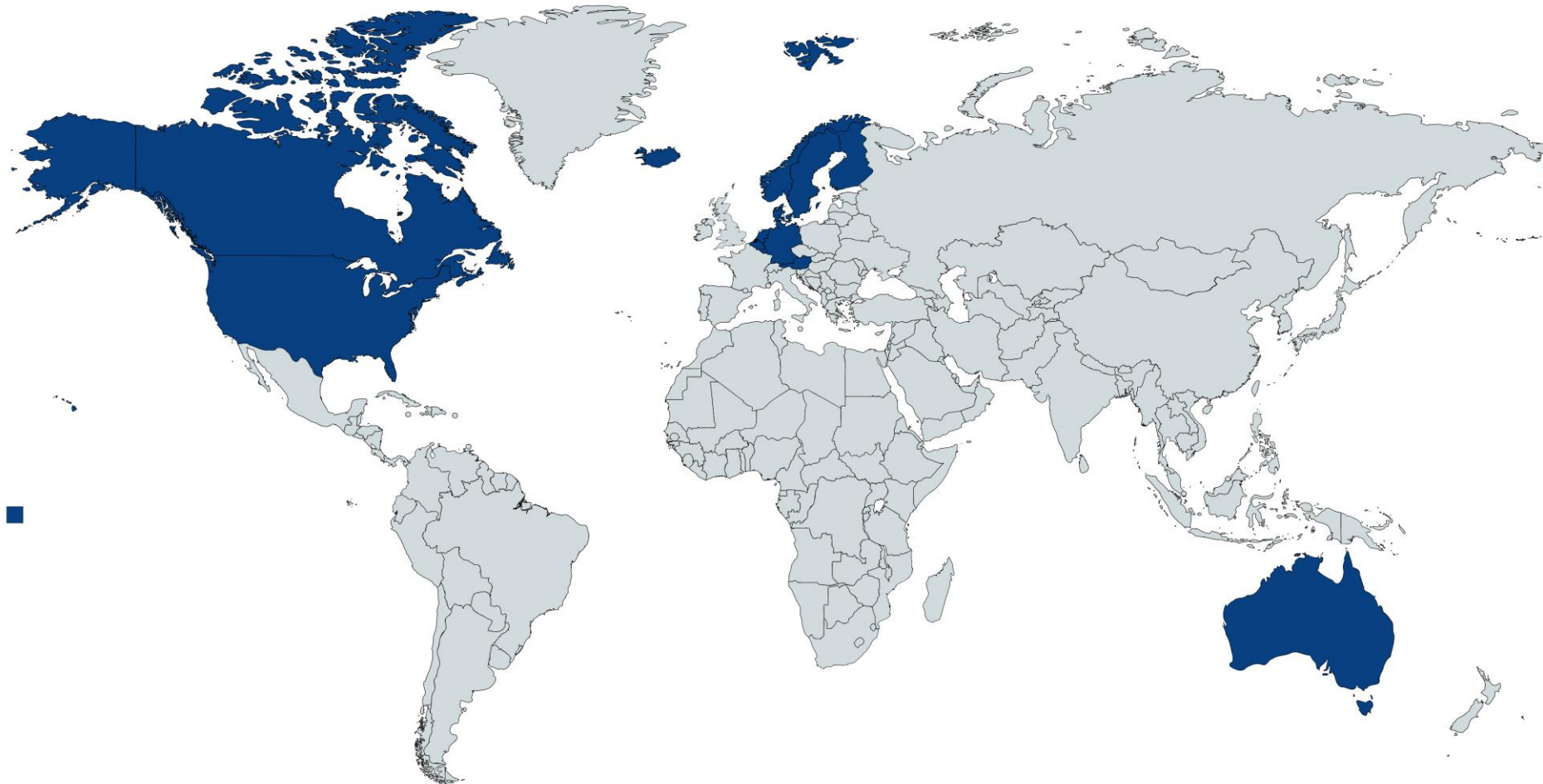
Shareholder	Designated Area Responsibility
CRV	The Netherlands & Belgium
DataGene	Australia
Lactanet	Canada
NDHIA	United States
NCDX ApS	Denmark, Finland, Iceland, Norway & Sweden
RDV	Austria & Germany
vit	Germany & Luxemburg

Scope of iDDEN



- Data exchange system for on-farm data and cloud-based data repositories
- iDDEN solves the problem of numerous costly interfaces
- Provides a technical solution and a critical size to set standards for:
 - Data definitions (with ICAR **ADE** Group) – new standards added as developed
 - Data transfer mechanisms
 - Data exchange protocols to reduce implementation work with different partners
- Secure data exchange via up-to-date authentication systems
- Farmers retain control of their data – they must authorize access
- Partners agree which data they want to exchange and under which conditions
- No data storage within iDDEN (only temporary to manage technical interruptions)
- Provides tools to monitor day-to-day operation of data exchange

Current shareholders

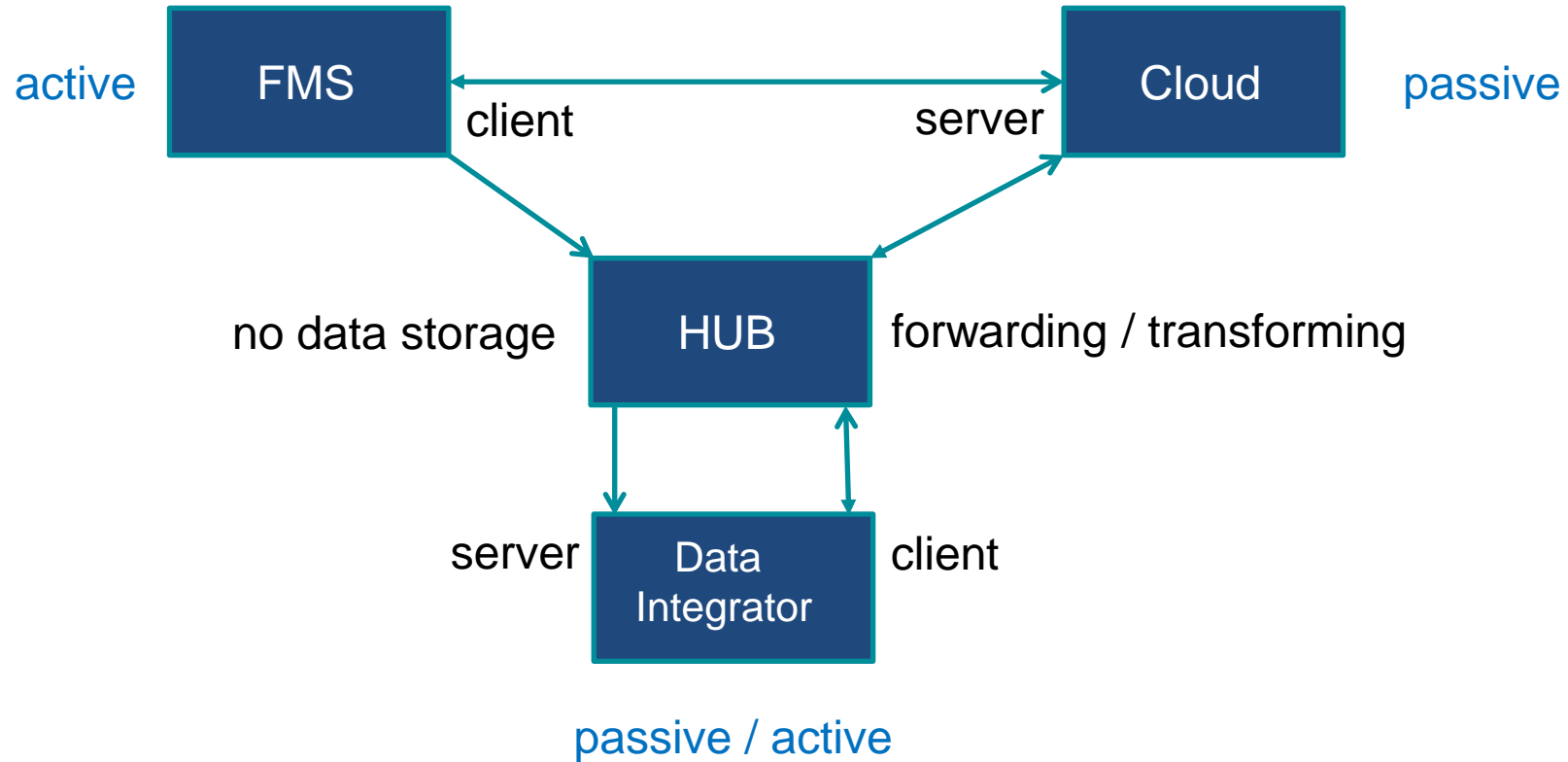


Design Goals



- Reuse as much as possible
 - Authentication / Authorization
 - NCDX Infrastructure
- Standardize as much as possible
 - **ADE Messages**
 - Open Standards
- Integrate only once
 - Implementation against the iDDEN Hub
 - Make national specialties possible

iDDEN Architecture



- 2 Partners using iDDEN in Production
 - Started in June 2022
 - More to follow in 2023
- 12 Partners active in Development
 - Ramp up with more parallel development
 - Contact to more DDOs and OEMs to plan participation
- 31 Use cases or ADE messages implemented
 - More are defined/implemented when needed

Using the ADE Standard



- iDDEN works with ICAR ADE-WG on Standard
- Most ADE messages already implemented in the HUB
 - Messages needed and already defined can be implemented quickly
- Find useful enhancements to standard needed in more markets
 - Take this back to ADE working group, if enhancing of messages is needed or new messages need to be defined
- Prevent special implementations

- Working with ICAR ADE-WG
 - Good discussions on technical and business topics
 - Evolve the standard for the future
- Using ADE as standard in iDDEN
 - Make it easier to convince OEMs to participate
 - National interfaces were wildly used before

How to get started



- Contact the Technical Group of iDDEN
 - Thomas.Pekeler@vit.de
- Find iDDEN documentation and API definitions
 - <https://integration.idden.net/>
- Visit ICAR ADE working group on GitHub
 - <https://github.com/adewg/ICAR/>



THANK YOU

CONTACT US

Heinrich-Schröder-Weg 1
27283 Verden / Aller, Germany
Telephone. +49 4231 955 145
Email. info@idden.org
GM: Dr. Reinhard Reents