



THE GLOBAL STANDARD  
FOR LIVESTOCK DATA

Network. Guidelines. Certification.

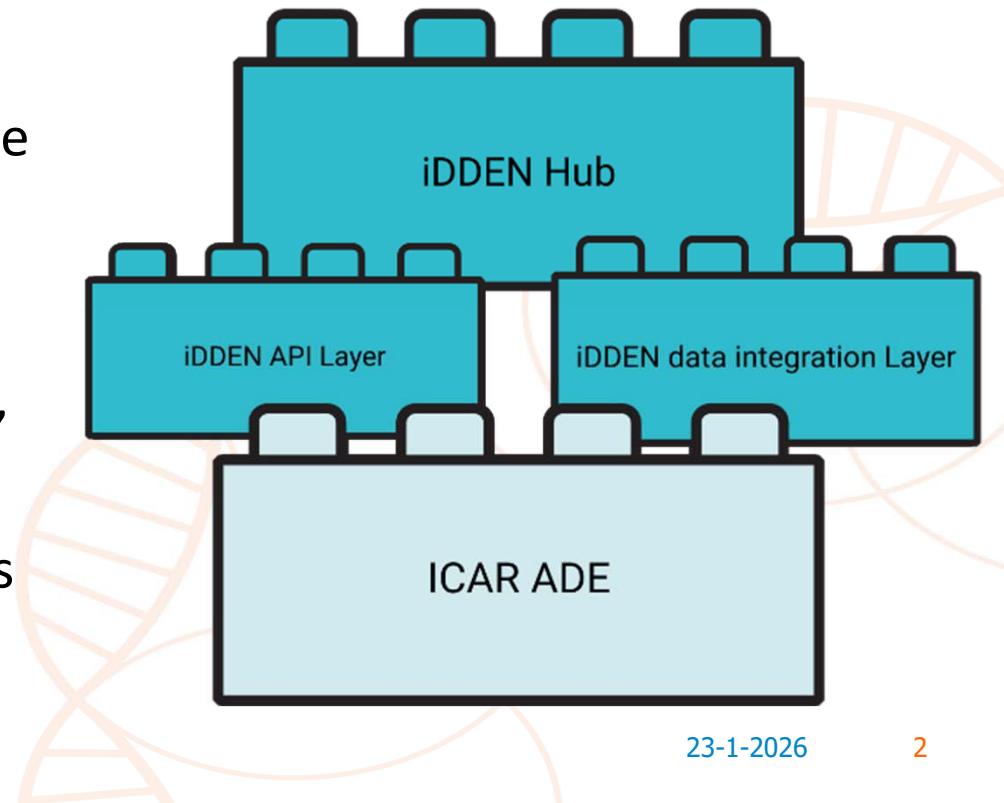
# Use of Animal Data Exchange Standard for Sensor Data Exchange in iDDEN

23-1-2026 Valerija Volcic, iDDEN



## ADE as the core building block from the beginning of iDDEN

- iDDEN Hub is a REST interface that is built on ICAR ADE
- It ensures ICAR ADE-standardised data for clients, abstracting communication logic and database addresses



## Sensor data in iDDEN

- Observation and attention events
- Mostly from pedometers, collars, eartags, boluses, but also from the milking robots' sensors
- These devices generate high-frequency, animal-level time-series data with strong potential for health, welfare, and management insights



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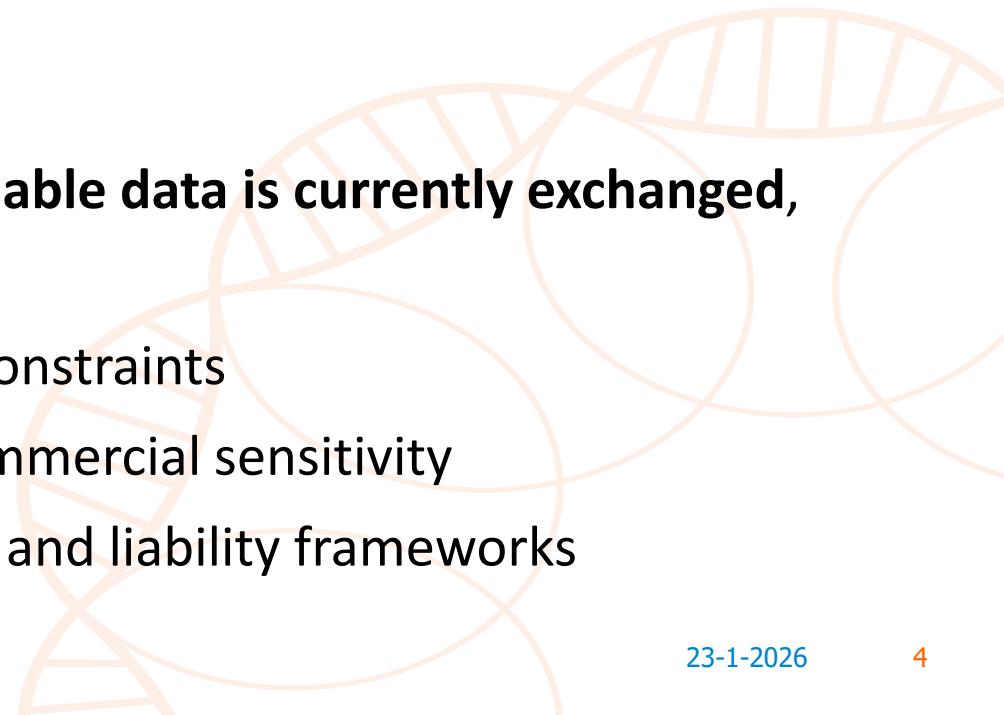
## Sensor data in iDDEN

The **ADE standard** enables **structured, interoperable exchange** of such data across systems

**However, only a subset of available data is currently exchanged,**

due to:

- data quality and validation constraints
- intellectual property and commercial sensitivity
- unclear ownership, consent, and liability frameworks



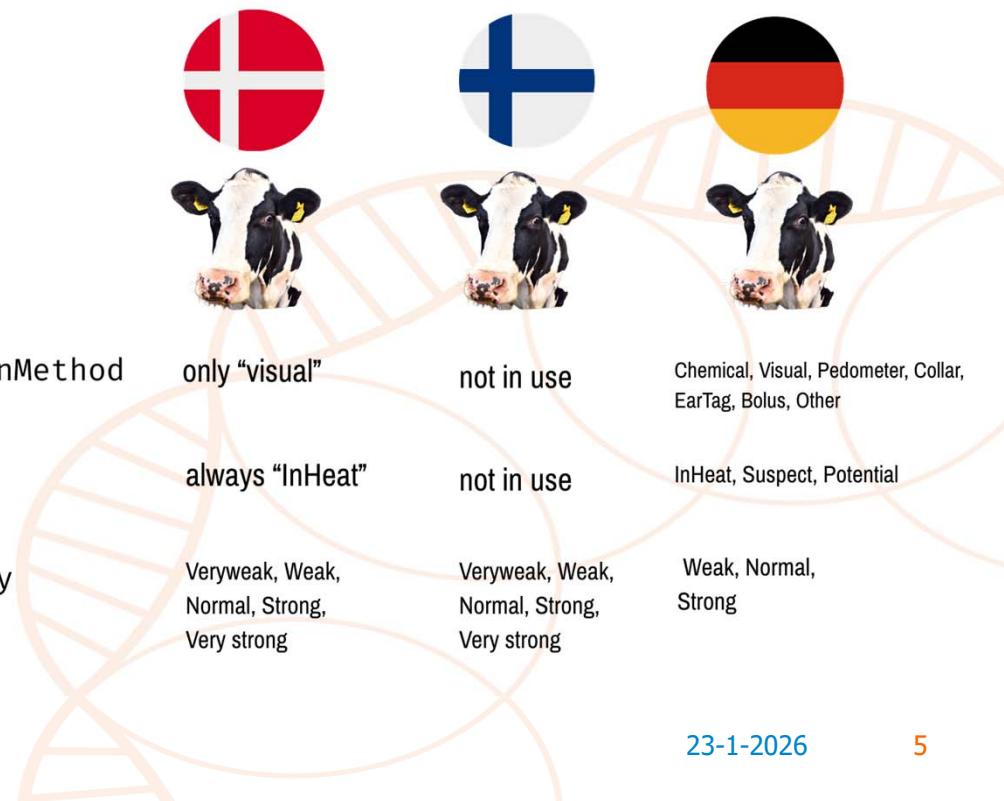
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## How is ADE used in iDDEN to exchange sensor data

- Countries have **different regulatory, operational, and industry requirements**
- iDDEN provides a **neutral platform to jointly interpret the use of specific ADE fields and document country-specific mappings**



# How is ADE used in iDDEN?

- Real example

Farm ID (national ID)



Success, fail statuses      Response time

Id	Message type	Location Id	Client organization	Data provider organization	Created at	Status	Has errors	Duration (ms)
d31bcd2e-581f-401b-6732-08de5701fe47	PostHeats	06712	CowManager B.V.	Vereinigte Informations	19.01.2026 20:01	200		298
ea38b578-8b49-490c-6728-08de5701fe47	PostHeats	06712	CowManager B.V.	Vereinigte Informations	19.01.2026 19:04	200		299
da52857d-d034-4825-6727-08de5701fe47	PostHeats	06712	CowManager B.V.	Vereinigte Informations	19.01.2026 19:03	200		4278



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## How is ADE used in iDDEN?

- Real example

Live demo from the AdminTool

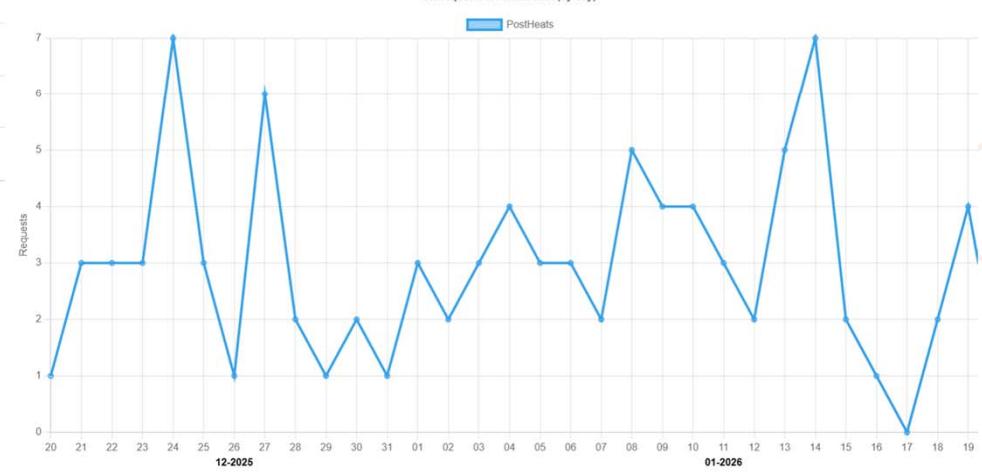
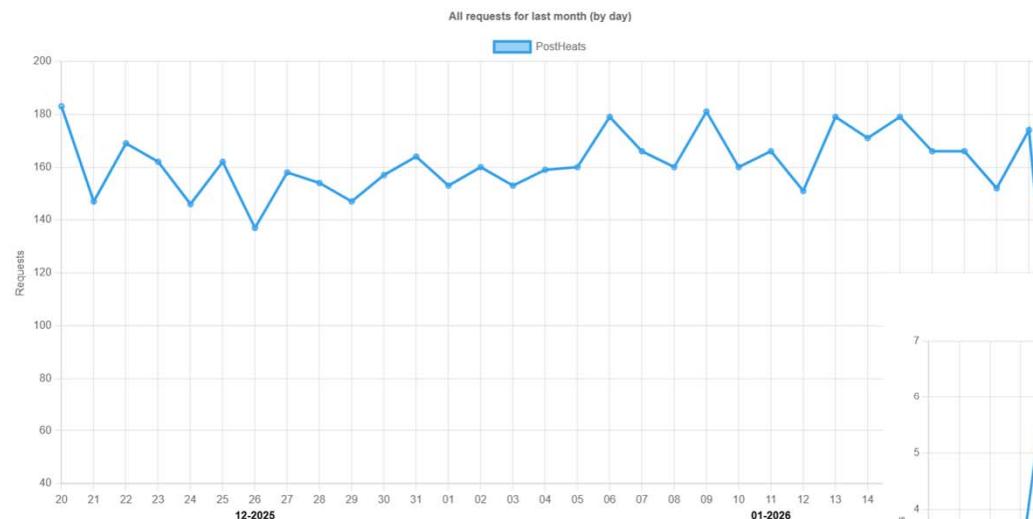


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## How is ADE used in iDDEN?



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**THANK YOU**

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