



Use cases of the implementation of the ICAR ADE standard

ICAR Conference 2022

Overview

- Erwin Speybroeck & CRV
- General description
- Use cases
 - Milking visits
 - I&R reporting
 - Synchronizing reproduction events
- Future developments



BETTER COWS > BETTER LIFE

Erwin Speybroeck & CRV

- Belgium, region of Gent
- 59, married, 2 daughters
- Studied mathematics and informatics
- Working for CRV and predecessors for 35 years
 - IPAR - 1987
 - VRV - 1993
 - CRV – 2002
 - PO team milk/health
- Member of the ICAR ADE technical working group



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Erwin Speybroeck & CRV

Our purpose

Better Cows

We believe that better cows lead to a **better life** for farmers, **their herds** and the **world around us**

Better Life



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https://www.youtube.com/watch?v=V1PhfV-gU_M

Erwin Speybroeck & CRV

Our mission

CRV is a leading customer-focused cattle improvement cooperative, fully committed to adding value for farmers



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General description - partners

Partners



General description - JoinData



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General description - JoinData

<u>Purposes</u> Participations Company mapping Reports Users Clients			
Purposes [22] Imported purposes [32] For reviewing [1]			
		Active only <input checked="" type="checkbox"/>	+ new purpose
Description ^	Datasets	Status	
Bijwerken diernummer en naam U geeft hiervoor toestemming dat, wanneer u een naam of diernummer van ...		active sinds 23 aug. 2021	+ new participation
CRV : zuivelleveranties (eDairy) U geeft toestemming aan CRV B.V. om gegevens van de melkleveranties aa...		active sinds 22 feb. 2022	+ new participation
EMM voor MPR U geeft toestemming voor het opvragen van de melkbeurtinformatie (melkgi...		active sinds 23 aug. 2021	+ new participation
Geïmporteerde machtiging TKI Jongvee		active	+ new participation



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General description - JoinData

Create purpose



Title*

ICAR 2022



Replaces purpose id



Your reference

for my presentation



Related to purpose



Datasets*

Milk invoices UBL



Inseminations



Yield



Choose dataset



Categories*

Technical reports



Financial reports



Choose category



Description

Here you describe what exactly you want to receive and what you are going to do with the data.



Example : I want to receive your milk tank delivery information because I want to use this information for checking milk recording results



Mijn machtigingen



Beheer je machtigingen eenvoudig en houdt overzicht op wie er met je data aan de slag gaat.

Openstaande machtigingen	4
Actieve machtigingen	5
Verlopen machtigingen	2
Afgewezen machtigingen	1
Ingetrokken machtigingen	3

Top 5 afnemers van mijn data



Inzicht in wie jouw data kan inzien en welke data zij van jou ontvangen.

Coöperatie JoinData U.A.	2
Agrifirm NWE B.V.	1
FrieslandCampina Nederland B.V.	1
ZuivelNL	1

Top 5 leveranciers van mijn data



Inzicht in welke partijen data beheren en leveren van jouw bedrijf.

ZuivelNL	1
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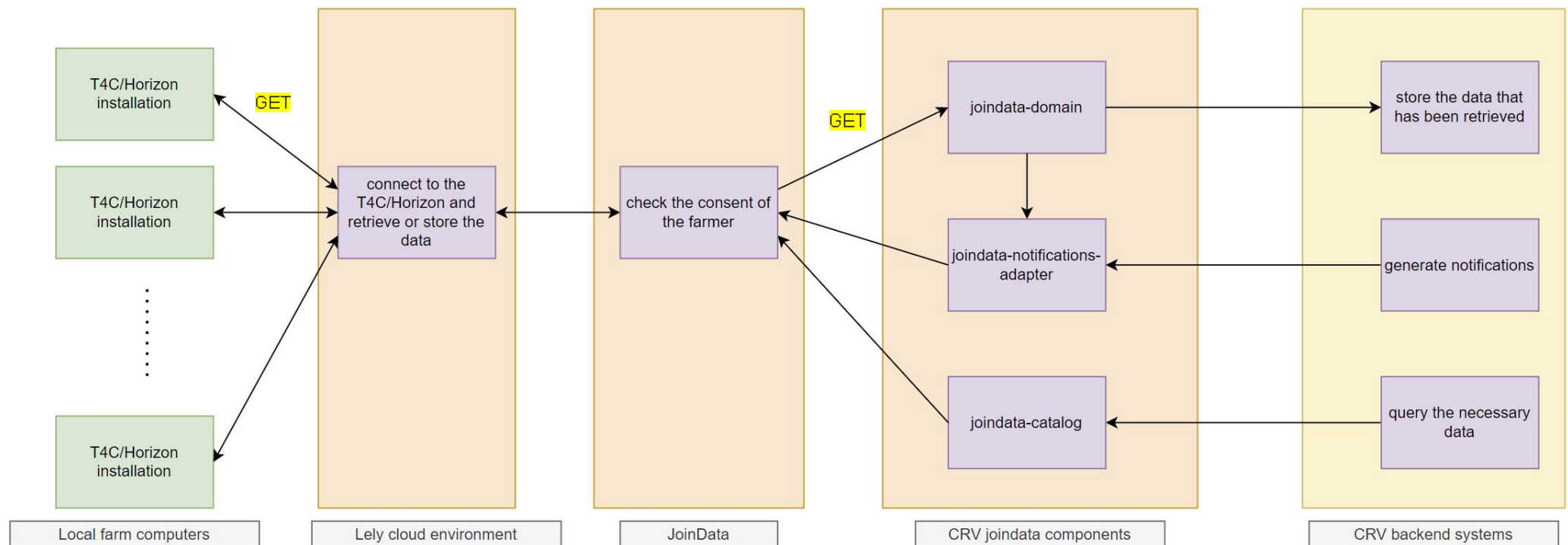
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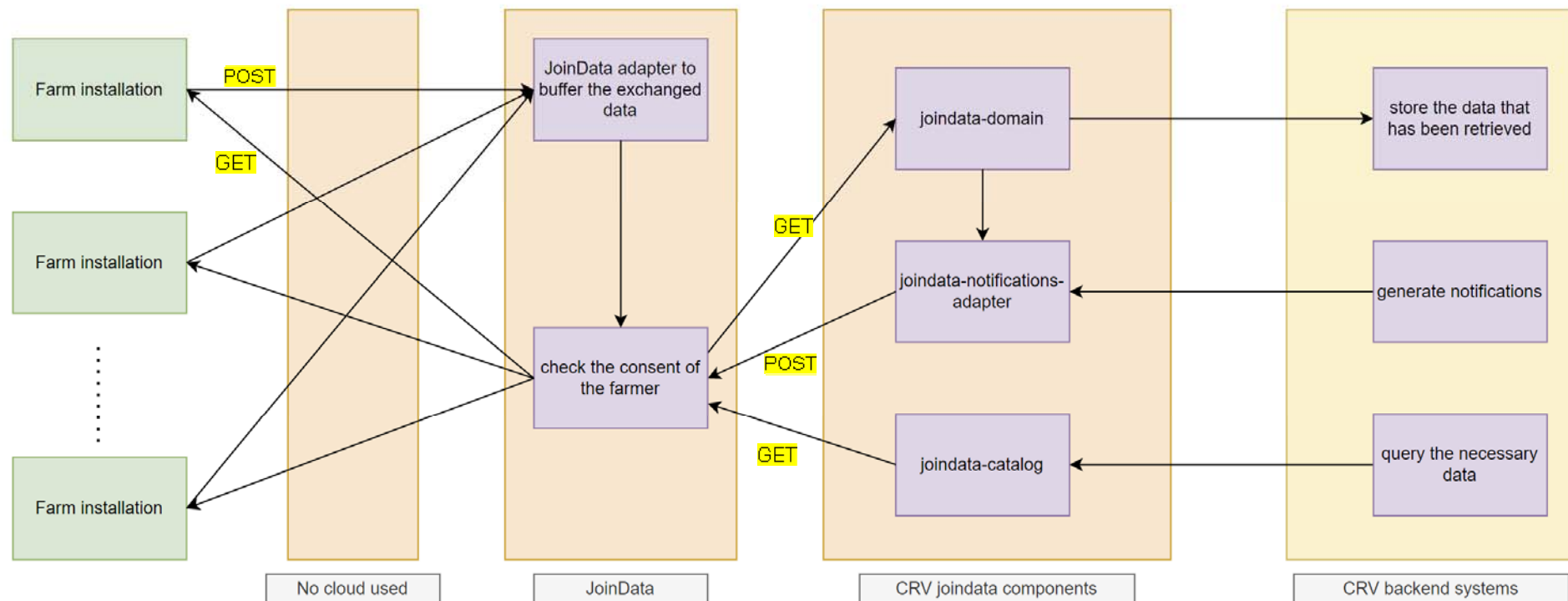
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General description – use cases



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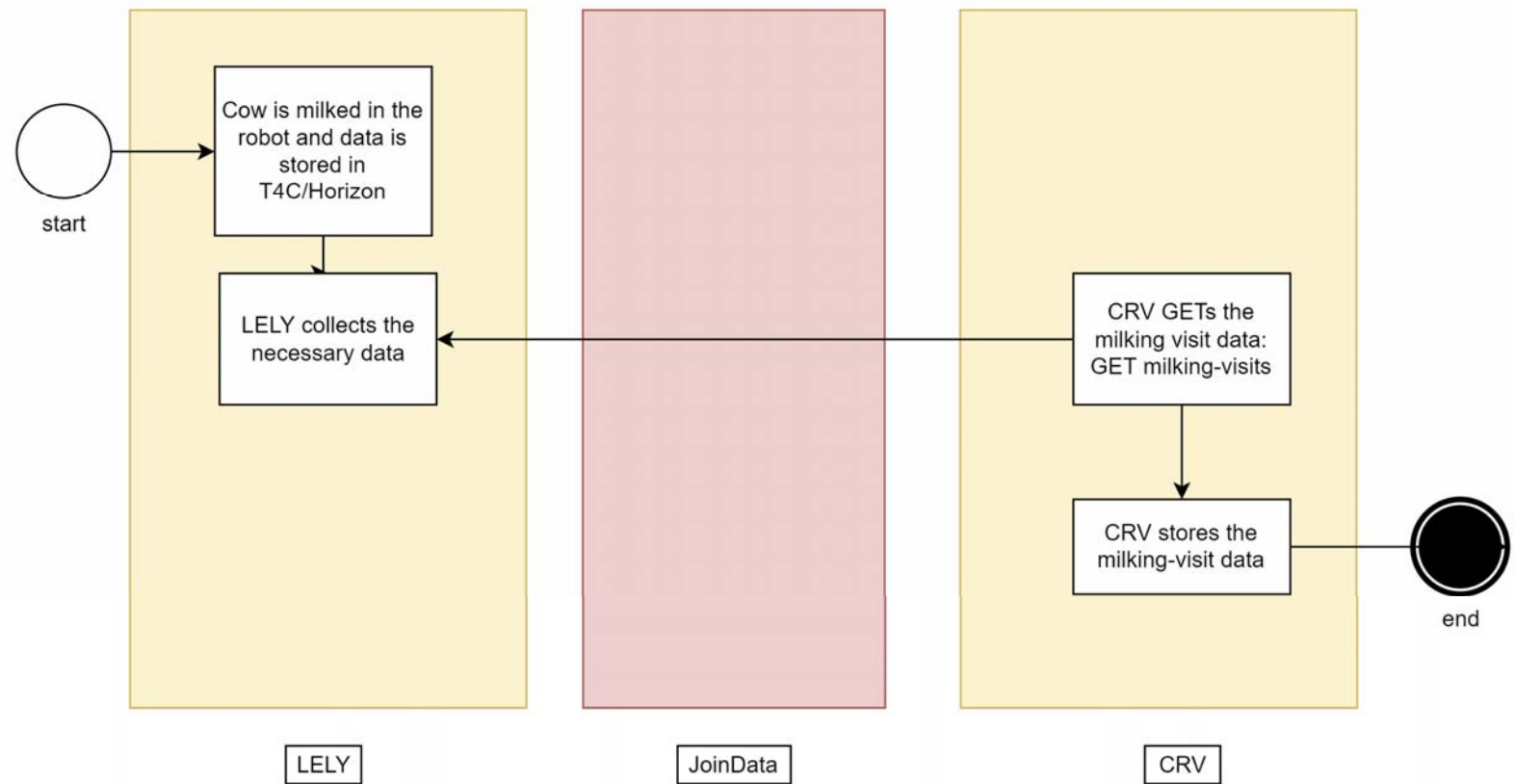
General description – use cases



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Use cases : milking visits

Data is used in milk recording and in breeding value estimation



Use cases : I&R

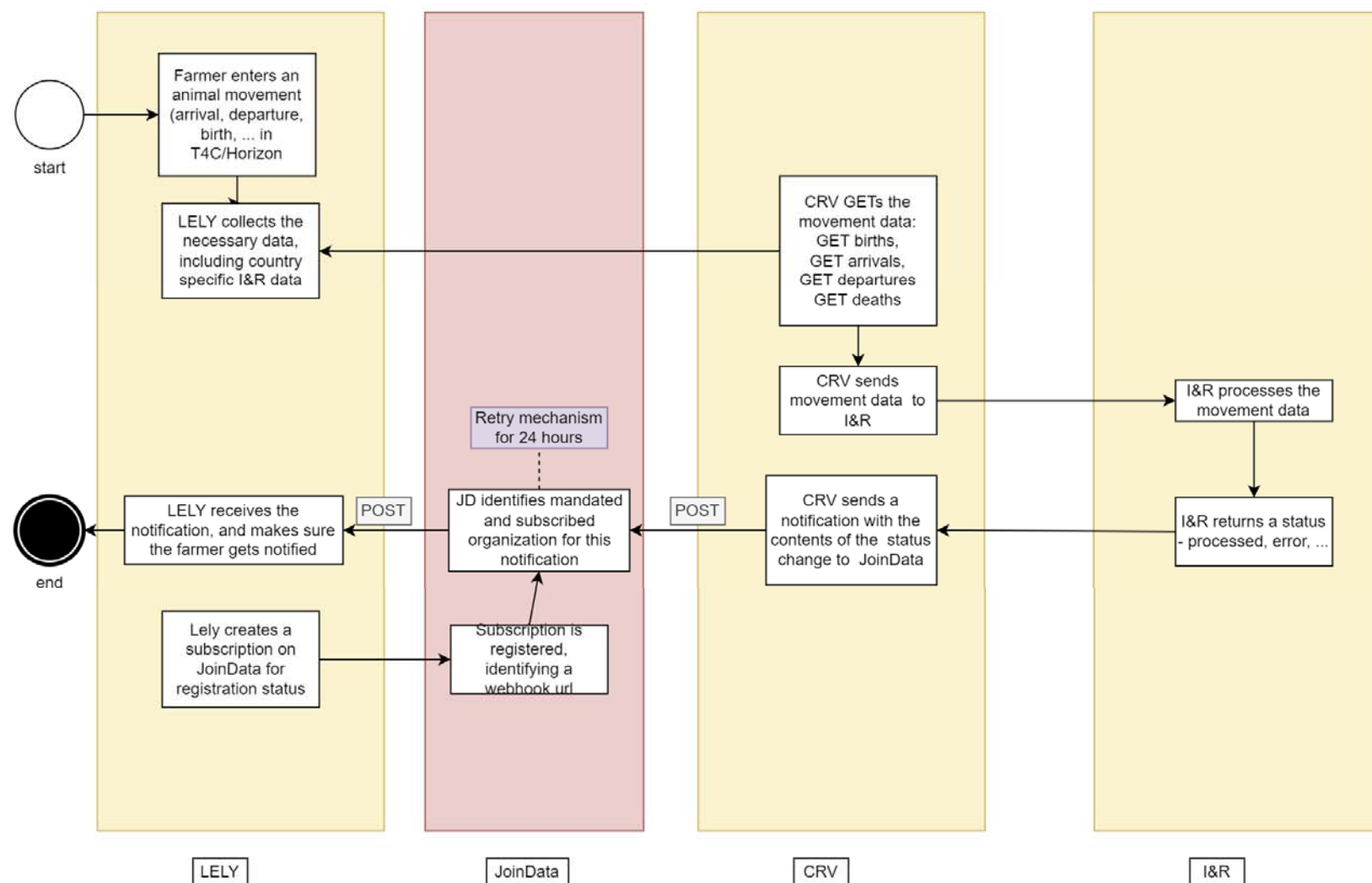
CRV uses the GET animals API
to update the name and management tag of the animal

Lely uses the GET animals API
to update breed fractions and the pedigree of the animal



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Use cases : I&R – CRV facilitates this for Lely



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Use cases : Reproduction – 2 way synchronisation

ADE-1.1-reproduction Reproduction messages approved by the working group

**GET****/locations/{location-scheme}/{location-id}/pregnancy-checks** Get the pregnancy checks for a certain location**GET****/locations/{location-scheme}/{location-id}/heats** Get the heats for a certain location**GET****/locations/{location-scheme}/{location-id}/inseminations** Get the inseminations for a certain location**GET****/locations/{location-scheme}/{location-id}/drying-offs** Get the drying off for a certain location**GET****/locations/{location-scheme}/{location-id}/abortions** Get the abortion events for a certain location**GET****/locations/{location-scheme}/{location-id}/do-not-breeds** Get the animals that were assigned as do-not-breed for a certain location**GET****/locations/{location-scheme}/{location-id}/parturitions** Get the parturition events for a certain location**GET****/locations/{location-scheme}/{location-id}/mating-recommendations** Get the mating recommendations for a certain location**GET****/locations/{location-scheme}/{location-id}/gestations** Get the gestations for a certain location

Use cases : Reproduction – 2 way synchronisation

meta	▼ {	
	description:	Generic meta data on this event
	source*	string
		Source where data is retrieved from. URI or reverse DNS that identifies the source system.
	sourceId	string
		Unique Id (ideally UUID) for the resource in the original source system. Treat source and sourceId as an icarIdentifierType.

Modified-since parameter

Delete notifications (should be changed to meta data functionality)

isDeleted	boolean
	Boolean value indicating if this resource has been deleted in the source system.

Notifications of functional errors



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Future developments

GEA (started in May) and Delaval (starting October)

Cow data for Agrobusiness (phase out Veedata product)

Start with the first partner after summer (feeding company)

Herd management systems

Farmer will need a subscription for a linking module at CRV



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Happy to answer your questions

crv4all.nl



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lely.com



join-data.nl



JoinData
The Future of
Smart Farming