



The Flemish Regional Data Space

From Vision to Reality: Delivering Value Through Data Spaces

How DjustConnect Creates Value in Flanders and beyond



ILVO

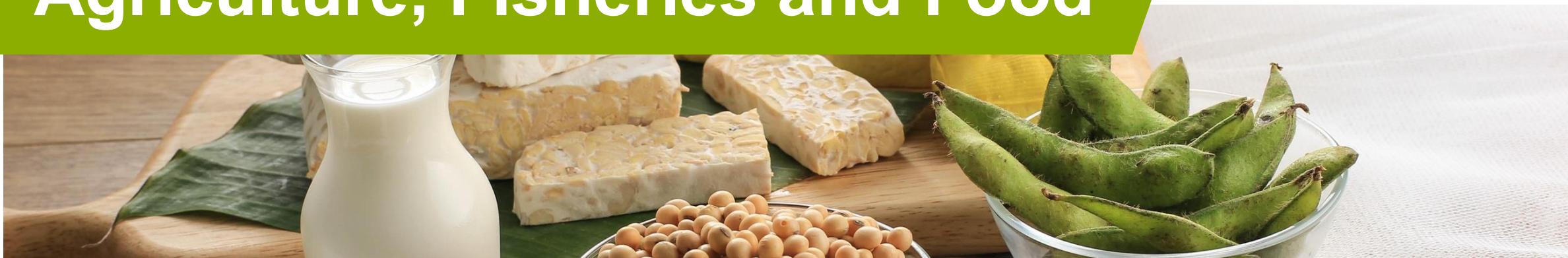


A blue tractor is plowing a field, kicking up a large cloud of dust. The background shows a line of trees and a clear sky.

ILVO

A close-up view of a fishing net with metal chains, partially submerged in the blue ocean water.

Flanders Research Institute for Agriculture, Fisheries and Food





- Ambassador for Digital AgriFood
- Digital Farming is part of the solution towards sustainable food production
- Support our ecosystem to bring valuable products for the end-users

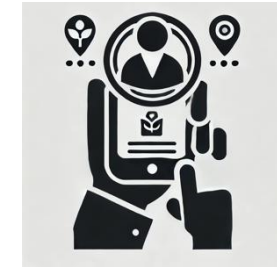
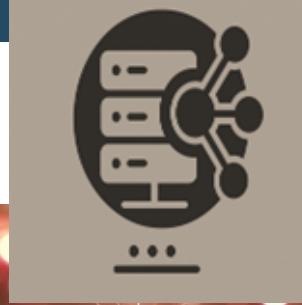
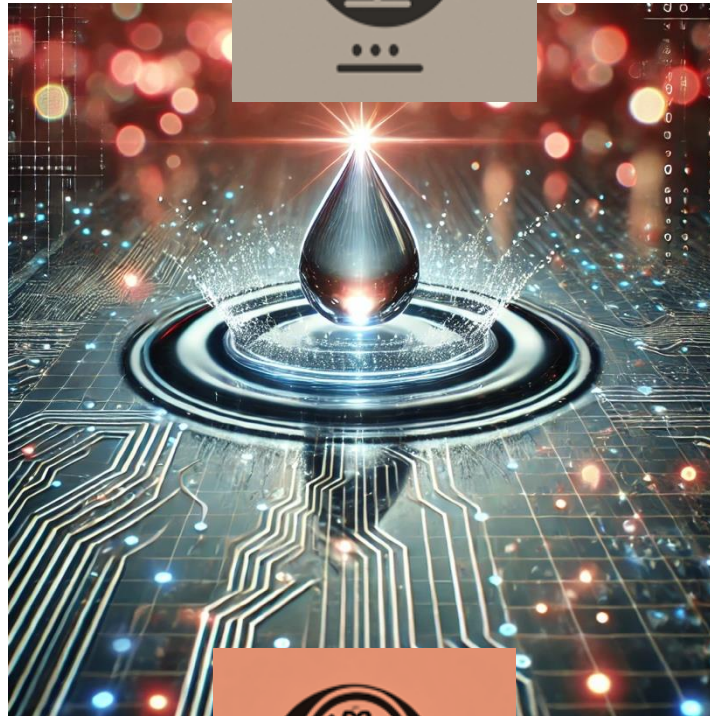


- Ag. Engineer fascinated by all farm machinery and equipment
- Director of the Agrifood Technology department at ILVO
- (Technical) expert in precision and digital farming with interest in the business aspect



Why Share Data?

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I
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What do we need to achieve impact with data?



Access to qualitative data:

Farmers, food companies, advisors, policy makers and researchers need better access to relevant data (e.g., soil maps, weather, input use, sustainability info) — without legal uncertainty or endless paperwork. to create real value.



Security, Trust & FAIR use:

Data ownership, sovereignty, and privacy must be guaranteed: Farmers and food companies decide what data they share, with whom, and why, , under what conditions— no forced sharing.



Interoperability and Scalability:

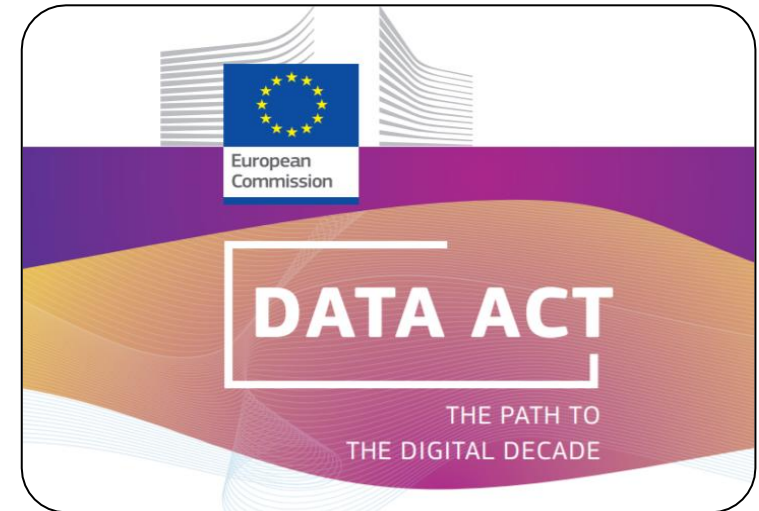
Systems must communicate through standardized or at least interoperable protocols, or more simply said : Make Systems Talk to Each Other.



Clear Governance

How governs the data ecosystem? joint decision-making structure between farmers and ...? Farmer organizations get a seat at the table to defend fair rules. Who else? It's about transparency, shared responsibility, and trust — so the system works for everyone, not just tech giants.

THE BIG FIVE OF THE EUROPEAN DATA STRATEGY





A data ecosystem, defined by a sector or application,



whereby decentralised infrastructure enables trustworthy data sharing

A data space is not a big database.
It is an agreement on how we share data.

Too much
administration

Vendor Lock-In!

Difficult on
boarding of new
digital services

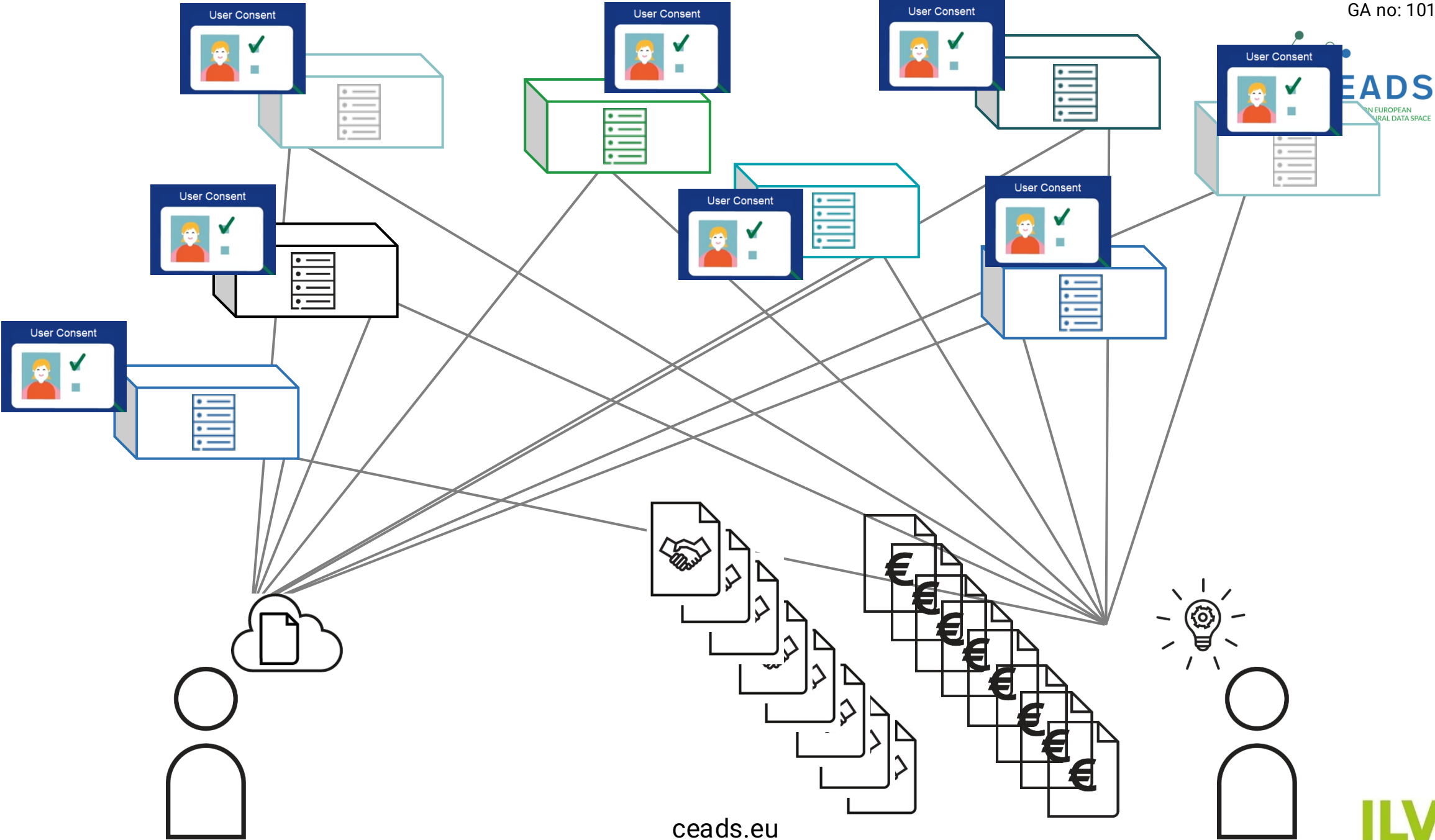
Limited value
creation from farm
data

Too many
applications!

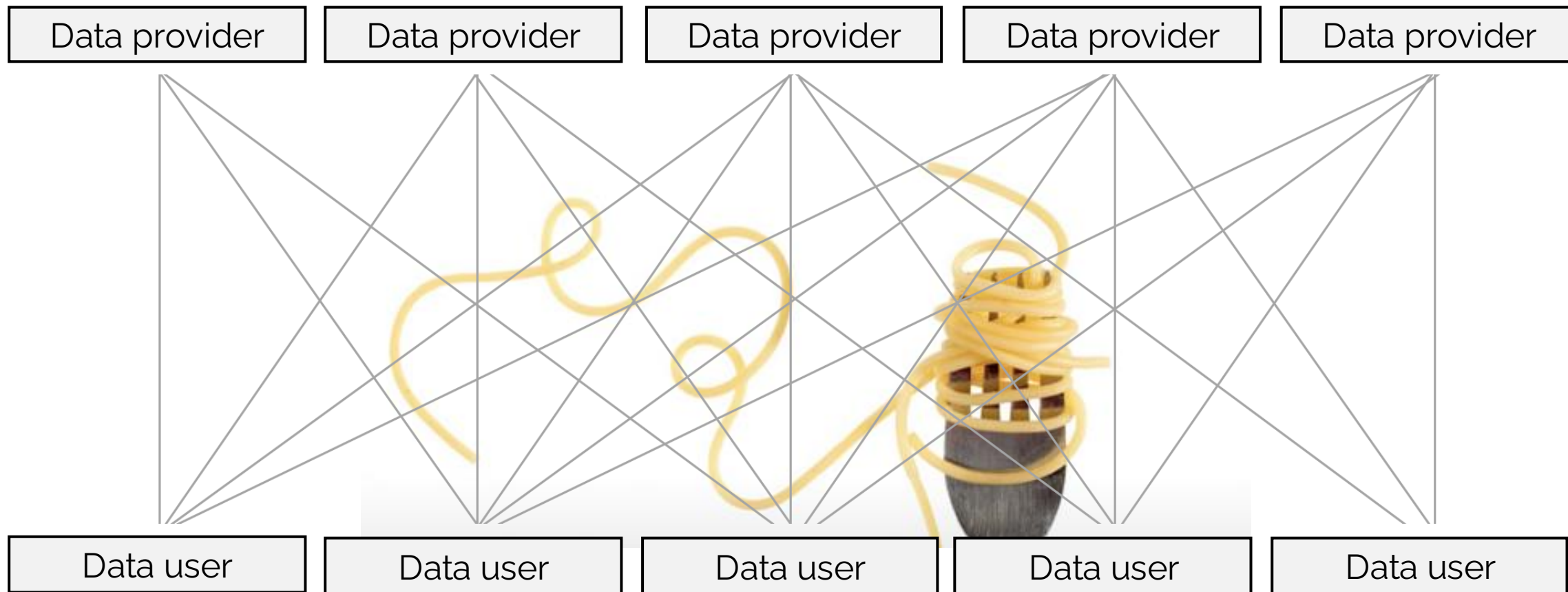
More
complexity!

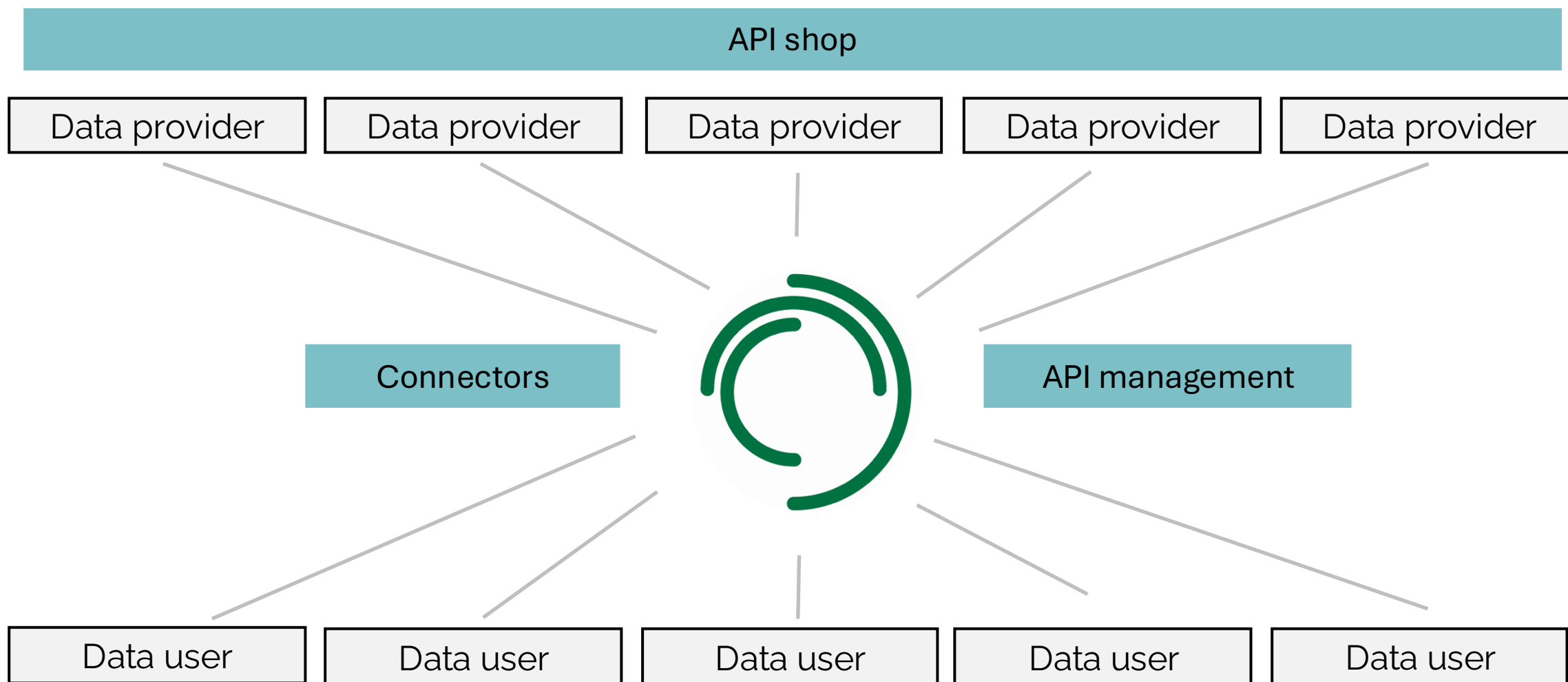


We have data.
We have applications.
But data does not flow!



CEADS
ON EUROPEAN
RAL DATA SPACE







ILVO

1 DATA MARKET

- [ConnectShop](#)
- Making data available to the whole sector

1 'OPEN' PLATFORM

Secure, transparent and controlled transport of data

1 DASHBOARD

- 100% control and respect for the farmer
- Farmer decides when to share data, with whom and why

1 CONTRACT

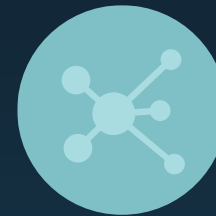
With clear ground rules in line with legislation and Code of Conduct for data sharing in agriculture

FOR WHOM?



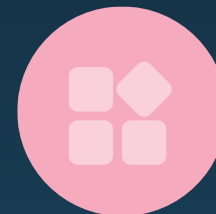
Farmer

Advice
Support
Controlle
Consent
Overview
Less administration



Data provider

Juridical coverage
IT support
ConnectShop
Market expansion
API management



Data user

ConnectShop
Up-to-date data
Innovation
Improve products and services
IT support

ILVO

DjustConnect makes data sharing safe and efficient, with respect for farmer and horticulturist

For everybody in the agricultural food chain, we provide access to available data in a correct way. By feeding data to smart applications administration gets easier and advice tools get more accurate.

Discover the available data in our [ConnectShop](#)

REGISTER AS A FARMER



Flemish Agri Data Space

www.djustconnect.be

LIVESTOCK

ARABLE

POTATOES

DAIRY



API Parcel information of Flemish farmers and horticulturists

Department of Agriculture and Fisheries - Flemish Government

This API provides access to certain parcel data of Flemish farmers and horticulturists, as indicated and processed in the annual Gathering Application (parcel declaration).

[Read more](#)



API Harvesting data

AVR

This API is offered by AVR and gives access to the yield data measured during harvesting with an AVR harvester.

[Read more](#)



API Milk payment statement (Inex)

Inex

This API gives Inex milk suppliers the opportunity to give permission to send their monthly milk payment statement to a third party.

[Read more](#)



API Milk payment statement (Milcobel)

Milcobel

This API gives Milcobel milk suppliers the opportunity to give permission to send their monthly milk payment statement to a third party.

[Read more](#)



API IKM certificate Flemish dairy farmers

IKM Flanders

This API is made available by IKM Flanders. It gives you an overview of the IKM certification of the Flemish dairy farmers linked to the correct PE number.

[Read more](#)



API Dairy Climate Scan - Carbon footprint dairy farm

Klimrek - ILVO - Boerenbond - VITO

This API gives access to the results of the Klimrek scan dairy, which is carried out at Flemish dairy farmers.

[Read more](#)



API WatchItgrow task cards

VITO



API Overview of available water analyses (DGZ)

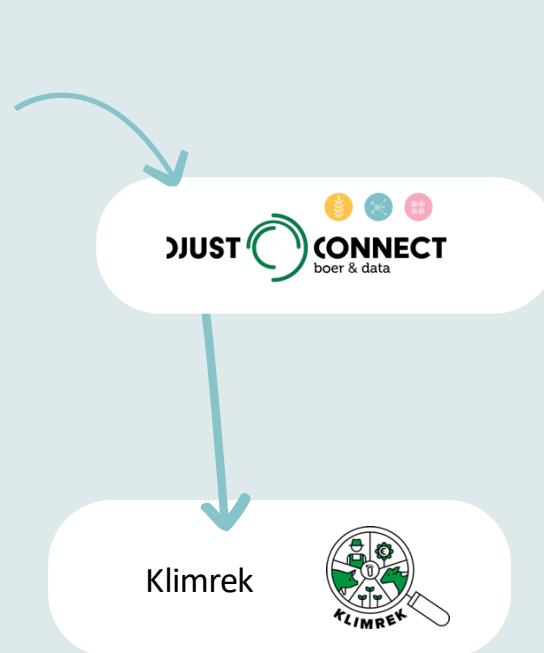
DGZ Flanders



API Overview of Available Water Analyses (Inagro)

Inagro

TRACTOR to Climate Scan





TRACTOR to CLIMATE SCAN

Fuel Data

Farmer grants permission to share data with data user



- ☒ YES
- ☒ NO

Klimrek climate scan

= data user , collects different data sources



DjustConnect

Intermediary between provider and user



CLIMATE SCAN **TO** DATA USER

Klimrek climate scan

The climate impact of the farm is valuable data that may be of interest to other data recipients. The farmer remains 100% in control of the data provider's processed data.



- ☒ YES
- ☒ NO

Data-user

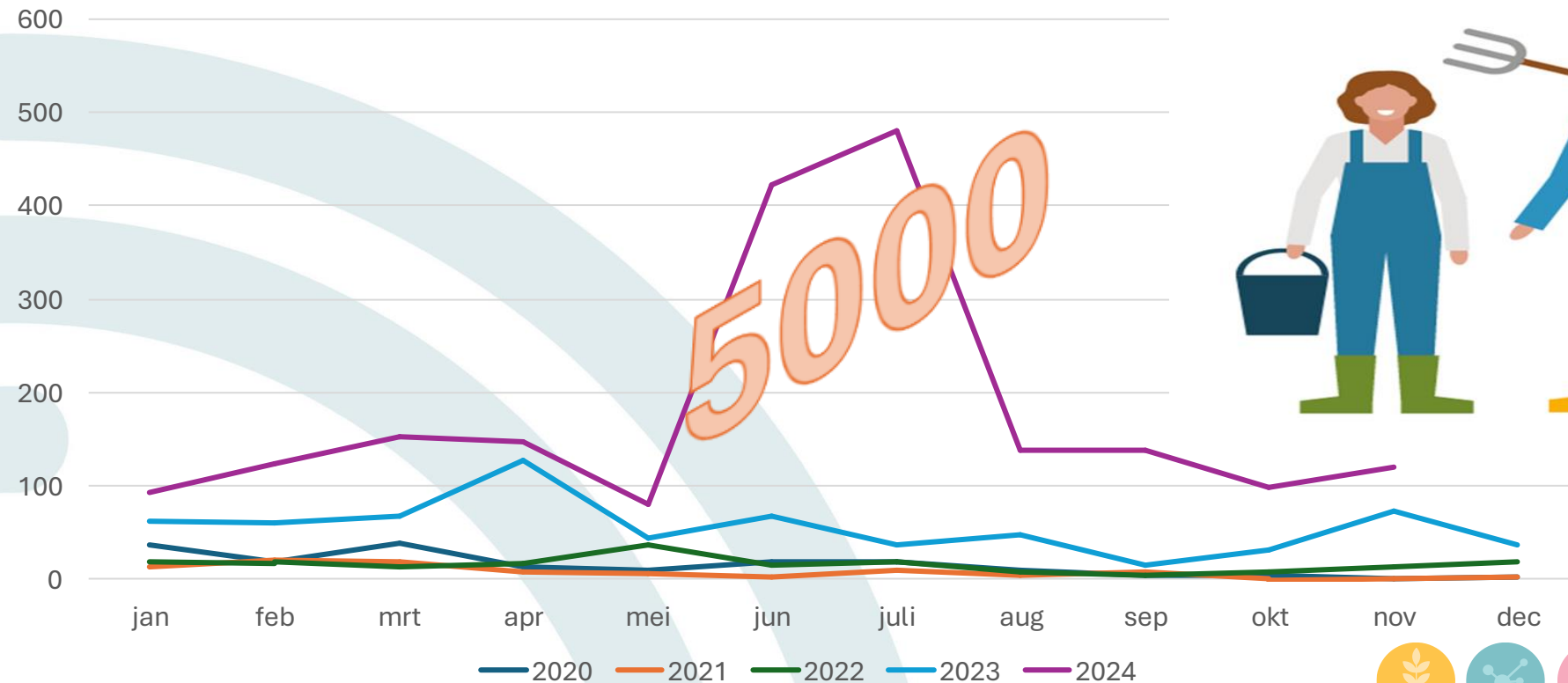
A potato processor needs the climate impact data of its suppliers to comply with CSRD sustainability reporting requirements.



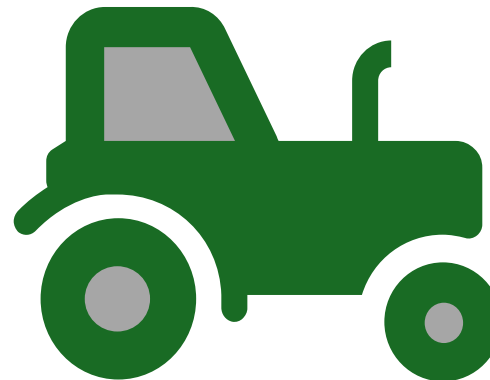
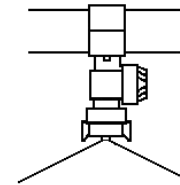
DjustConnect

Intermediary between
provider and user

Number of new farmers joining every month



Flemish Agri Data Space





Neutral



*Public
private*



*Domain
knowledge*



Ownership



ILVO

Flanders Research Institute for
Agriculture, Fisheries and Food



European
Commission



Trust



**Data
sources**



Involved



Support



Flanders
is agriculture and fisheries



DEPARTMENT OF
**ECONOMY
SCIENCE &
INNOVATION**



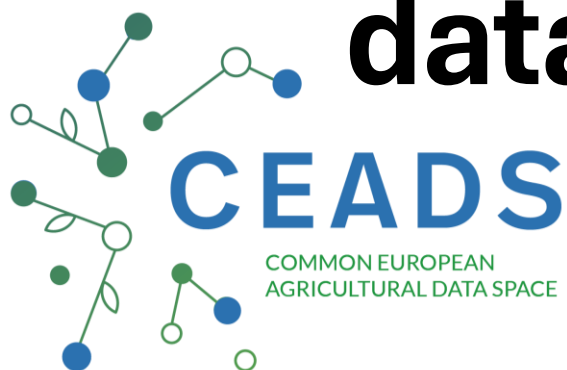
European
Commission

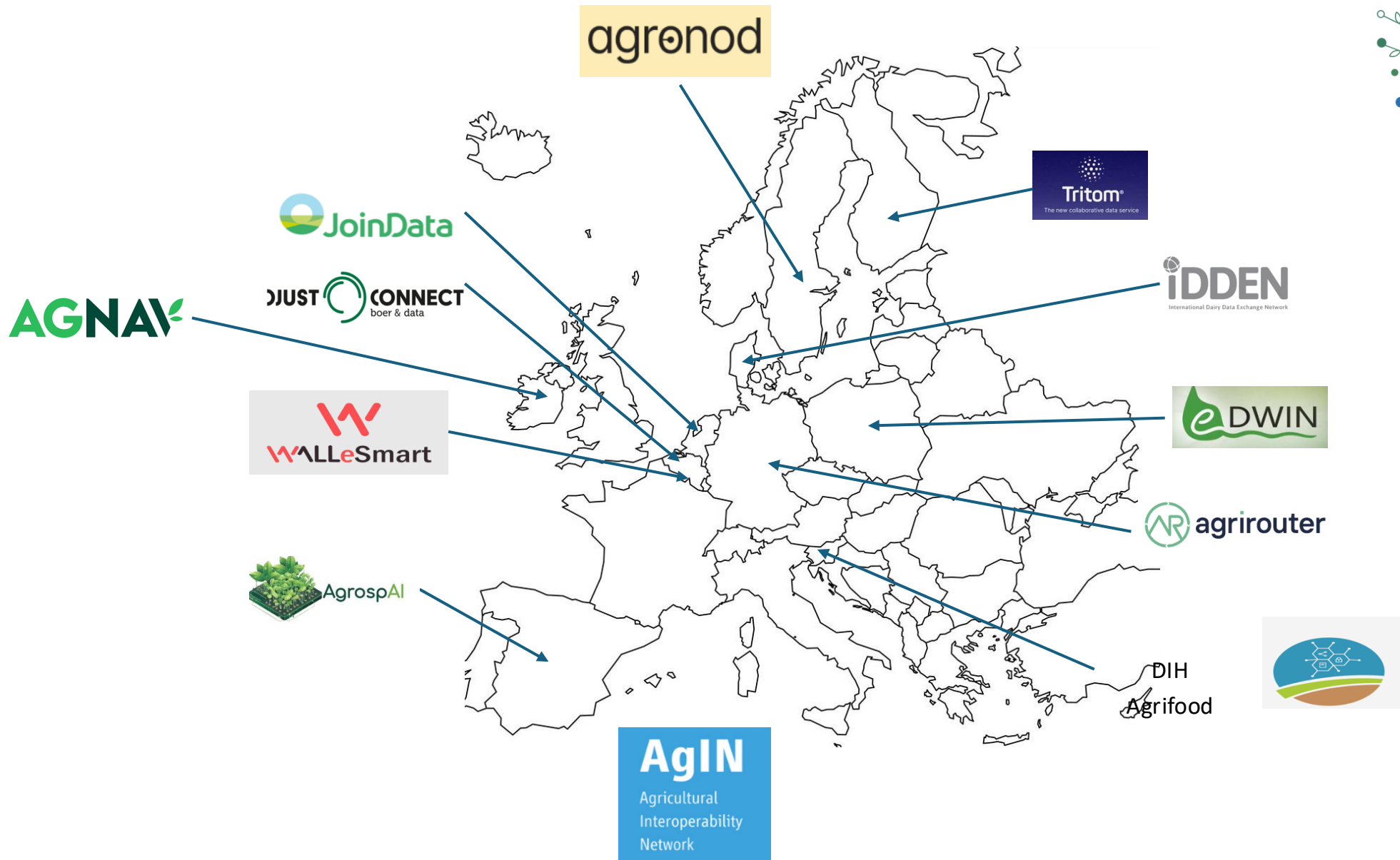


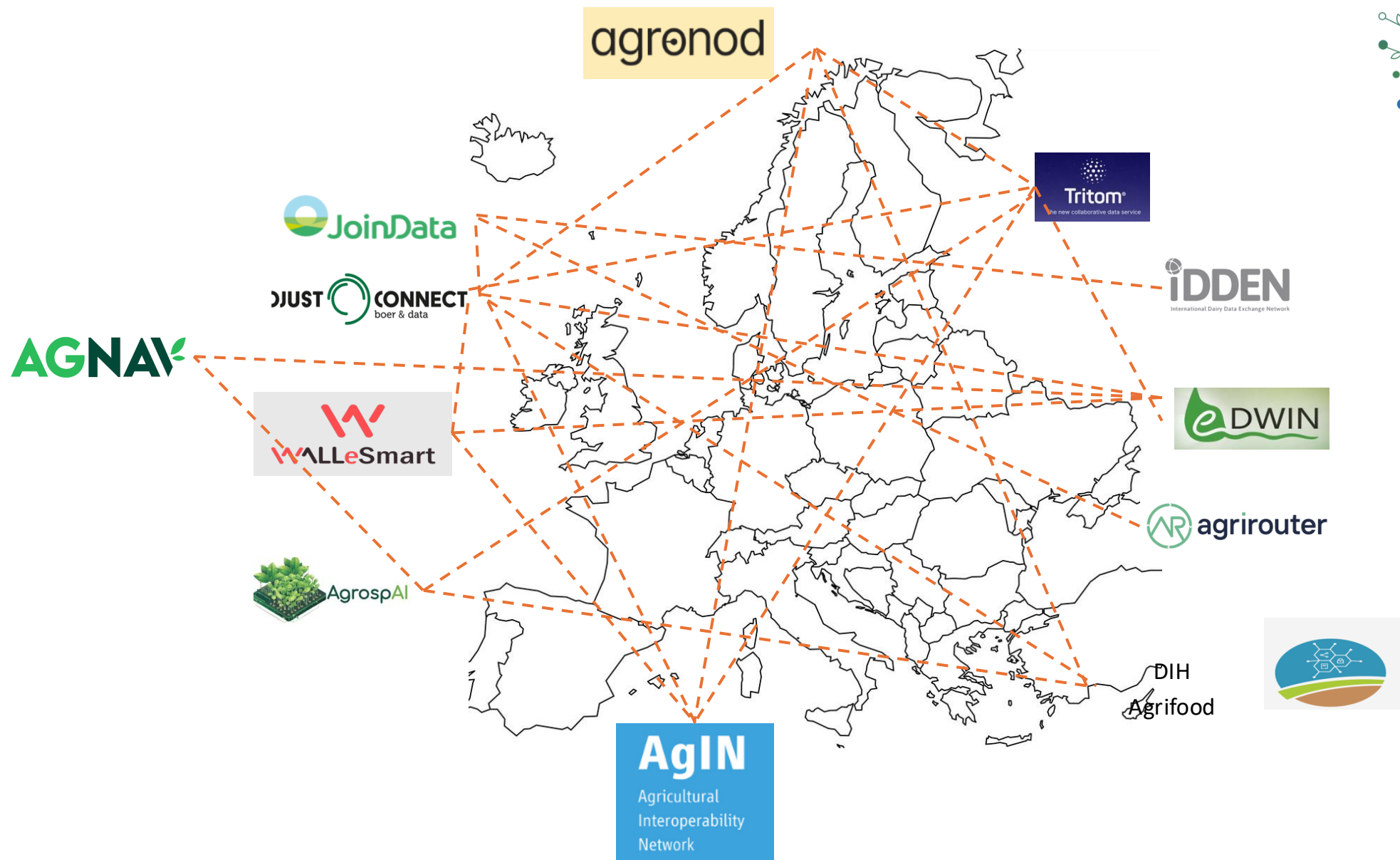
CEADS



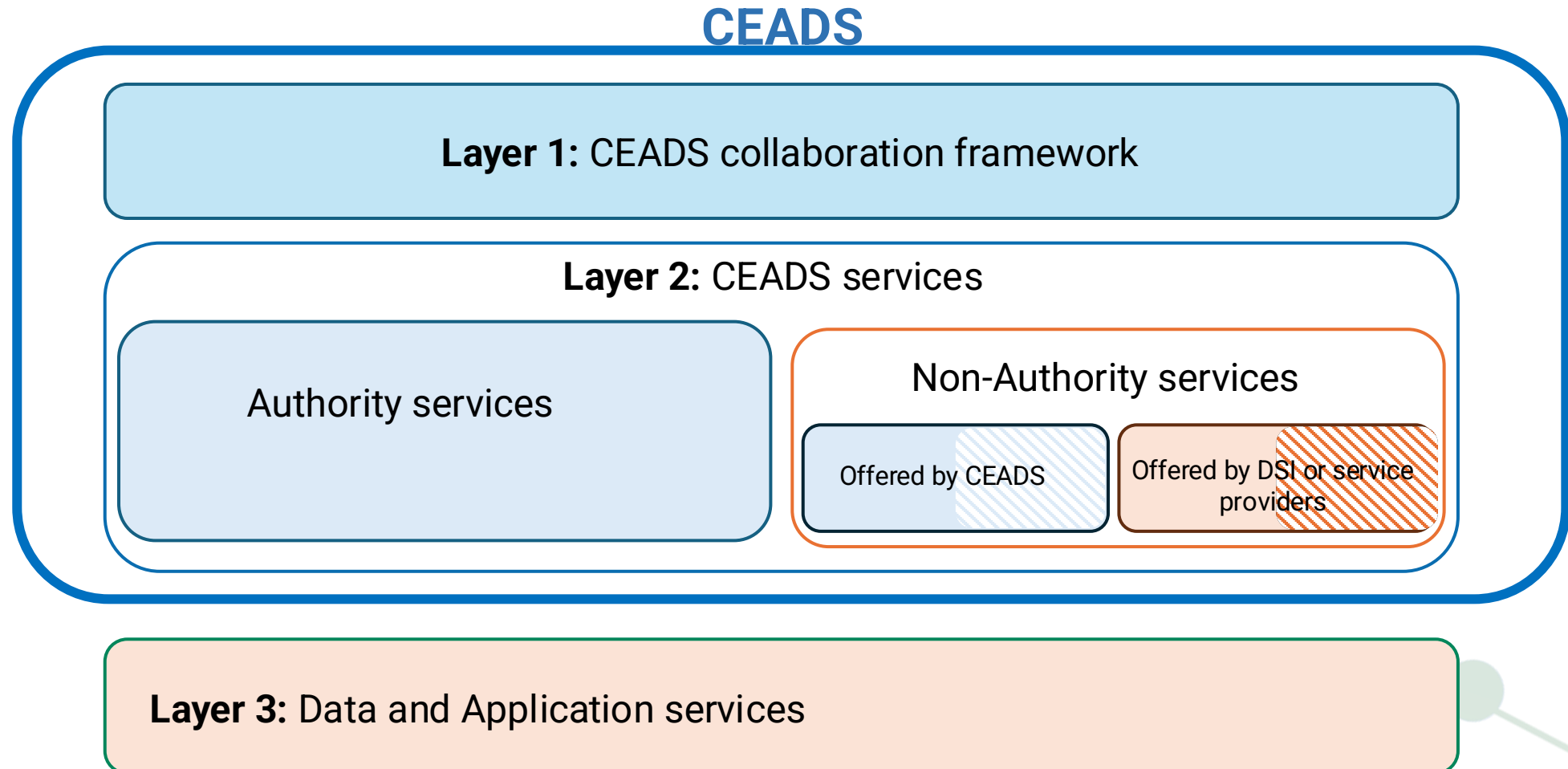
Deploying and operating a European framework for the secure and trusted data space for agriculture





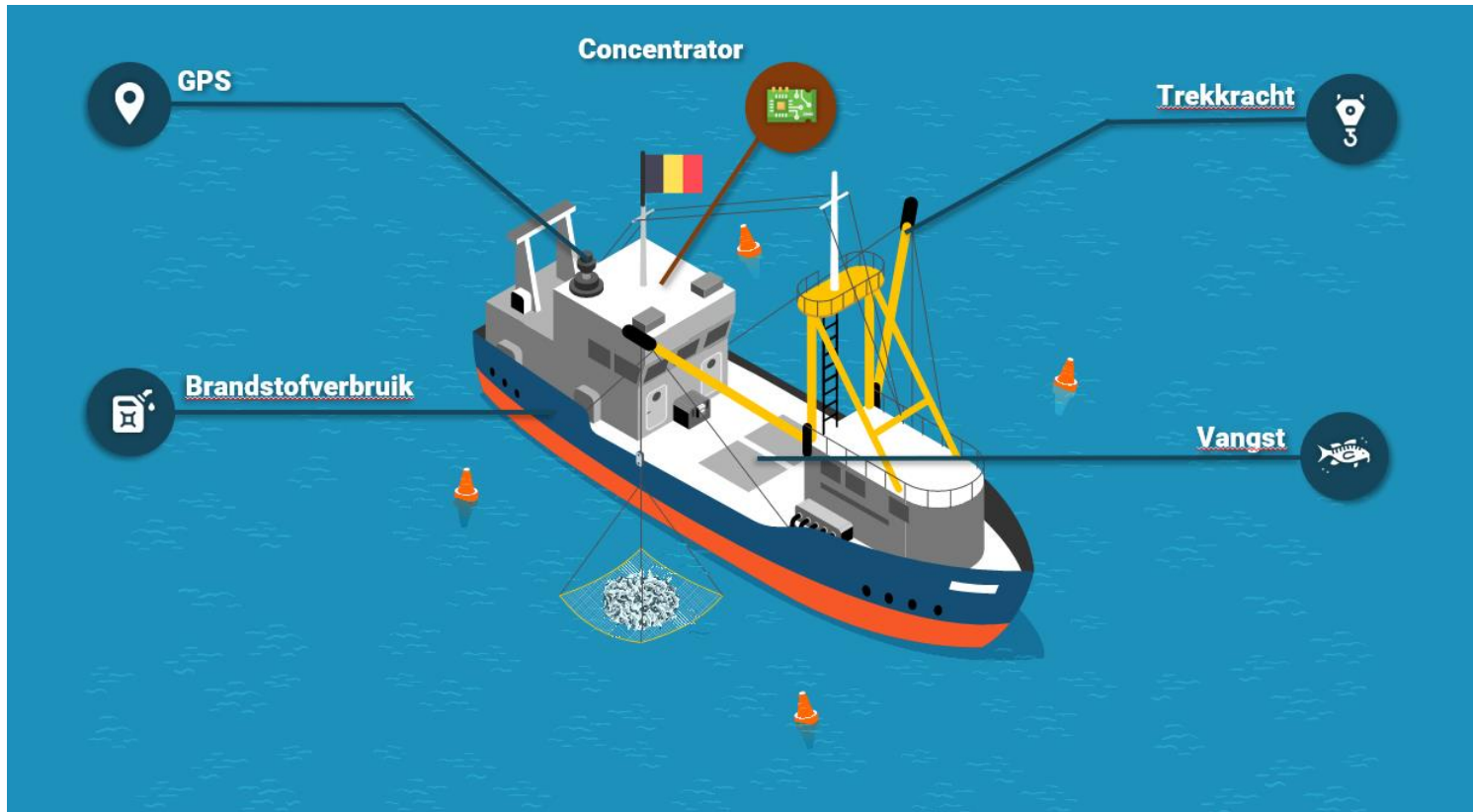


Strategic approach



VISTools: data already exists at sea

The first step is not to invent new data=> it is to make existing data usable and trusted.



Data streams on board

-  **GPS position**
-  **Catch / haul data**
-  **Fuel consumption**
-  **Traction / gear data**
-  **Concentrator on board**

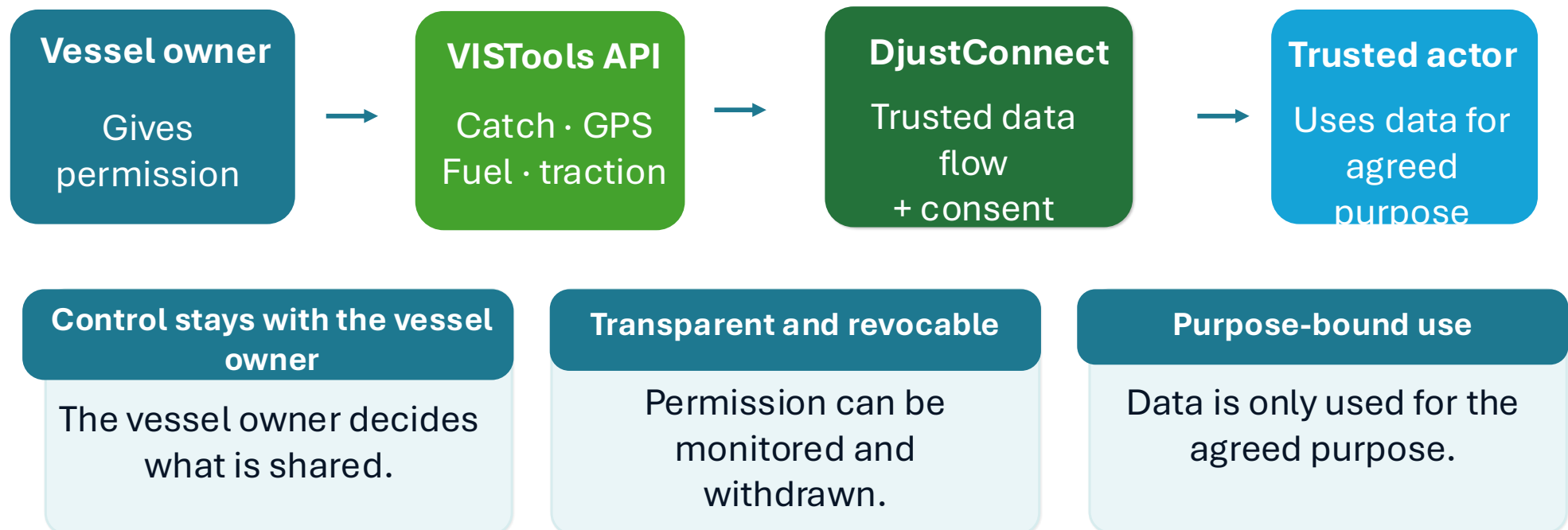
The data is valuable only when it can be shared safely, under clear conditions and with control for the data holder.

**from sensors →
to services**

A practical example: trusted fisheries data sharing

DjustConnect makes an existing data flow usable under clear conditions.

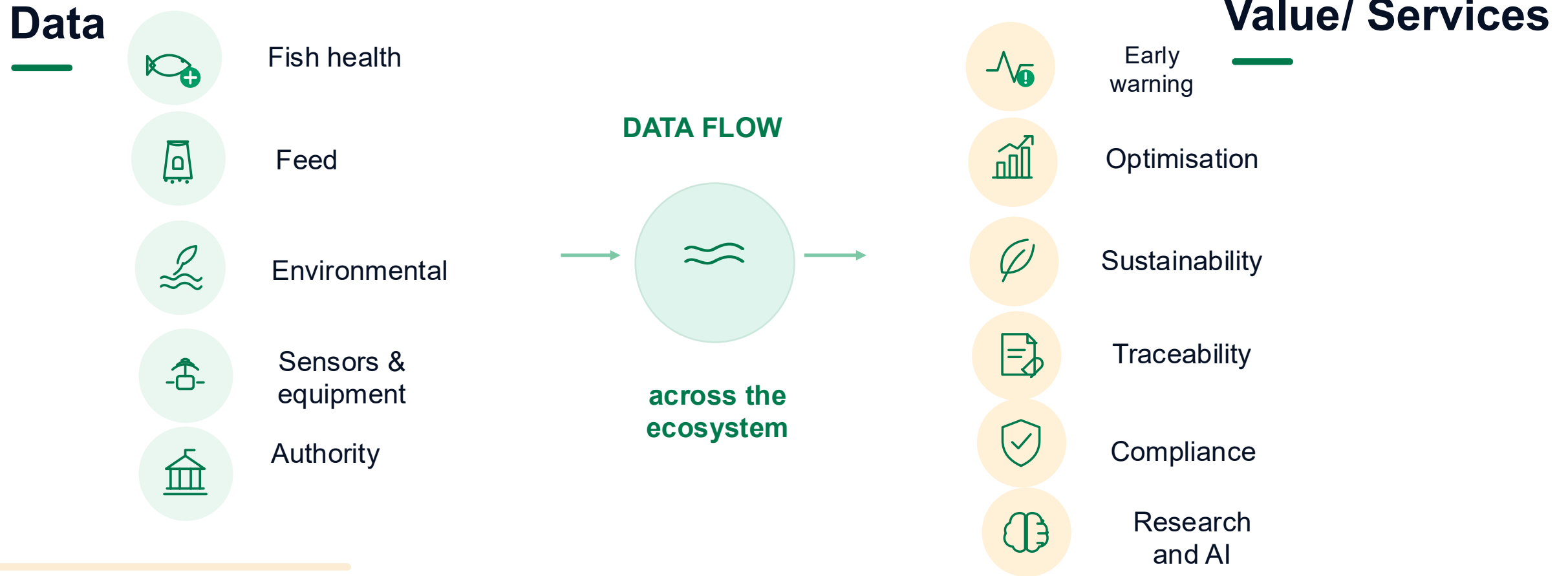
DjustConnect enables vessel owners to decide what data is shared, with whom, and for what purpose.



What can all this mean for aquaculture?

Start with use cases, not technology.

If data can flow across the ecosystem, new services become possible.



Three questions for aquaculture



Where is data locked?

Which valuable data exists but cannot easily be reused?



Where is shared value?

Which use cases require several companies, authorities or research actors to cooperate



What should be common?

Consent

Catalogue



Identity



Standards



Governance



**Start with the value you want to create
then build the data space needed to make it possible.**

Thank you

Farming looks mighty easy when your plow is a pencil and you're a thousand miles from the corn field.

- Dwight D. Eisenhower -



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