



CONNECT

How the development of data ecosystems unlocks the potential of data sharing



EFRO
EUROPEES FONDS
VOOR REGIONALE
ONTWIKKELING



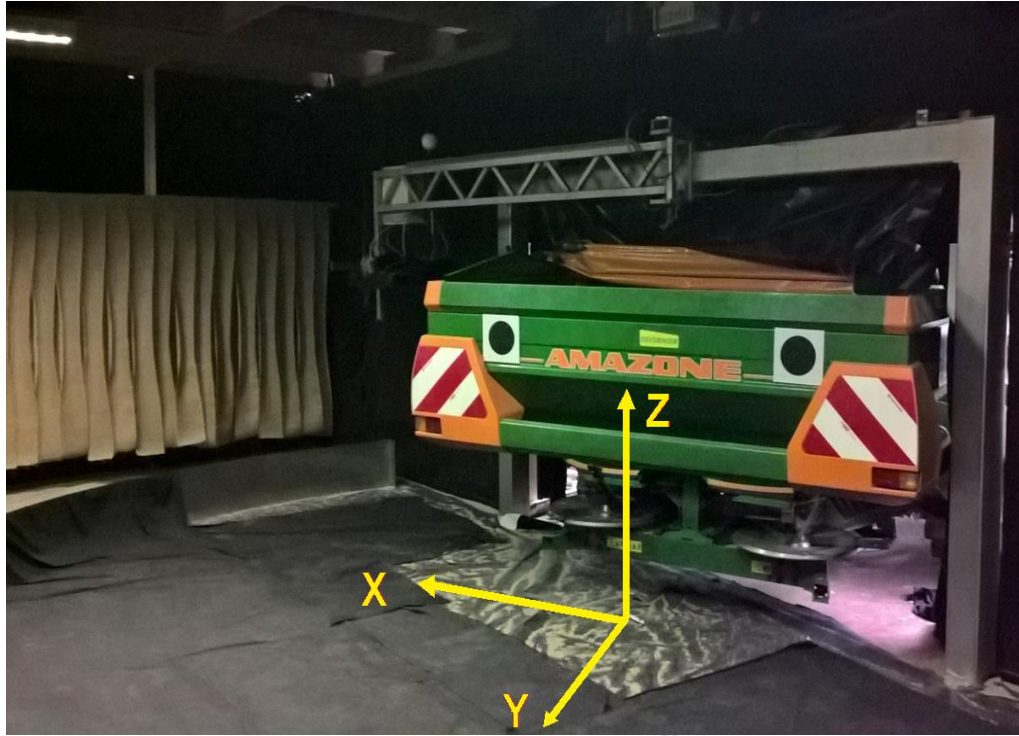
Europese Unie

ILVO
Instituut voor Landbouw-
en Visserijonderzoek

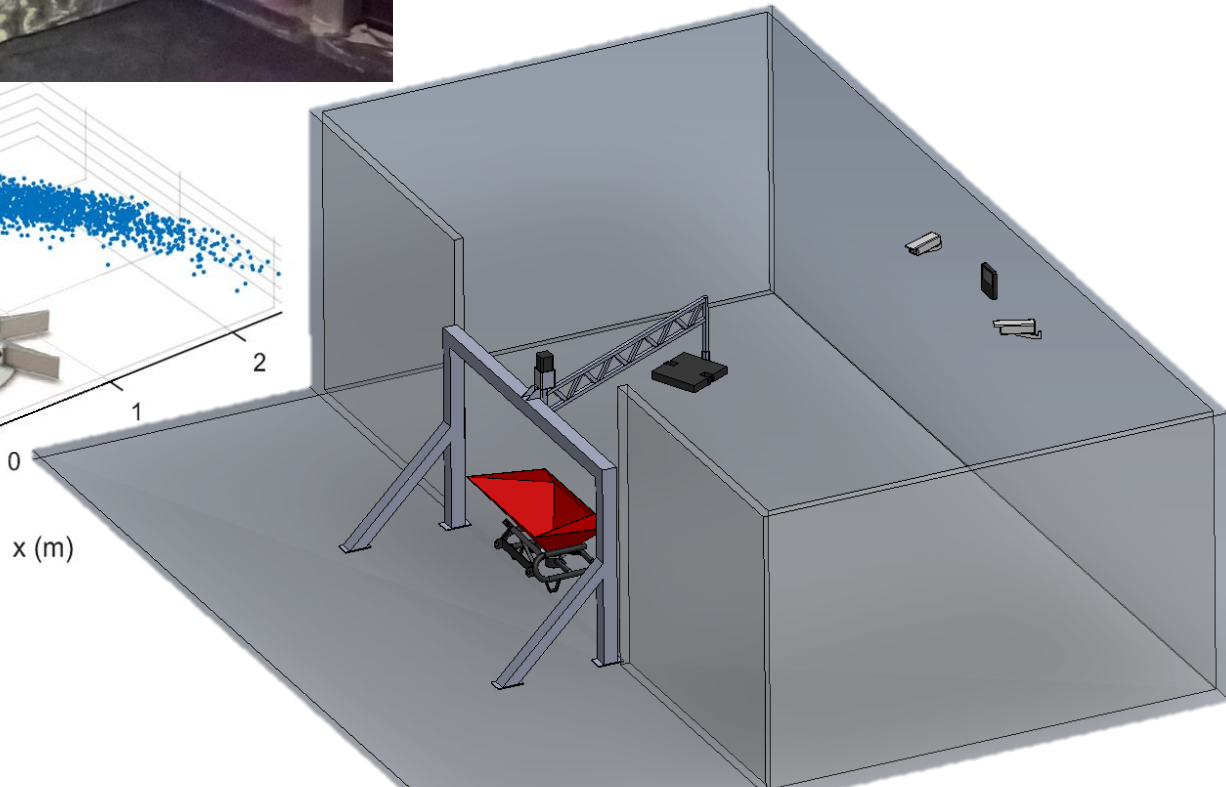
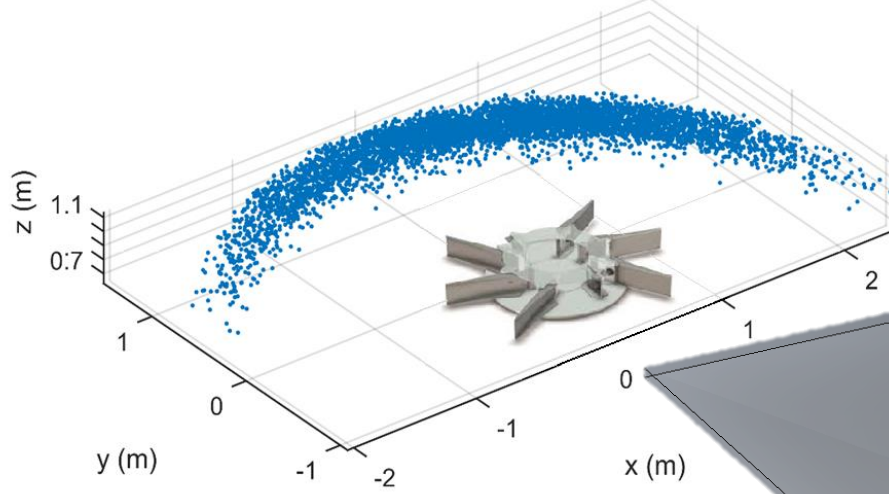


Who am I and why am I here?





- Ag Engineer fascinated by all farm machinery and equipment
- PhD on use of image techniques to predict spread patterns





- Digital Farming is part of the solution towards sustainable food production
- Talk a lot about Data Sharing Let's really start it real practice!
- Support our ecosystem to bring valuable products - services for the end-users
- Underpromise - overdeliver

- (Technical) expert in precision and digital farming with interest in the business/management aspect
- Director of the Agrifood Technology department at ILVO
- Ambassador for Precision farming and Digital AgriFood





Flanders Research Institute for agriculture, fisheries and food

- Research Institute linked to the Flemish government
- Created 85 years ago
- 670 employees
- Located in Merelbeke, Melle, Ostend



"Agro Food Valley" @ Merelbeke/Melle

Plant Sciences

Social
Sciences



Animal
Sciences

Technology
and Food
Science



SYSTEMS APPROACH – INTEGRATED RESEARCH



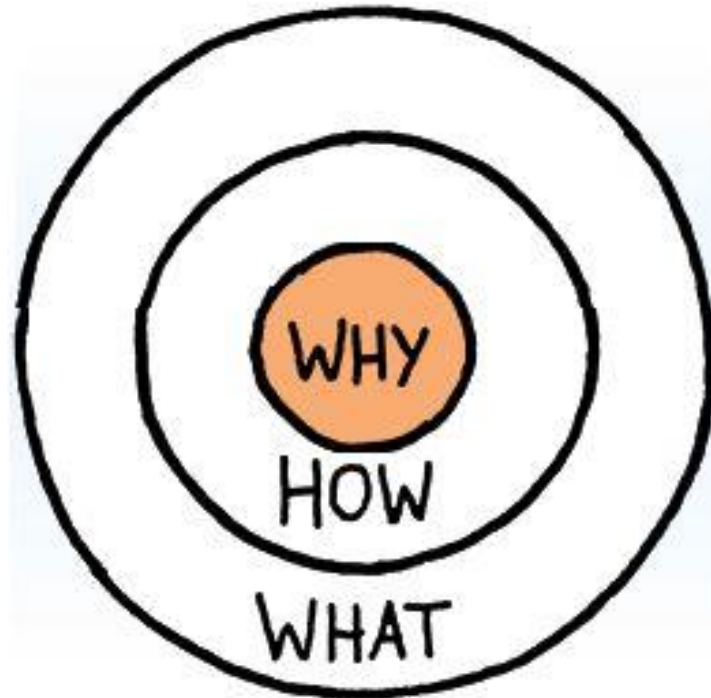
soil → plate



plate → soil



Let's start with the why?





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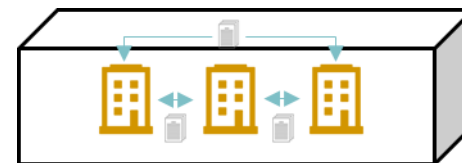
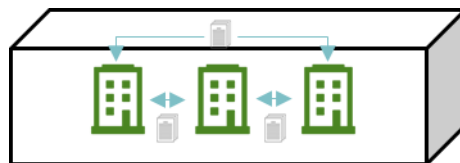
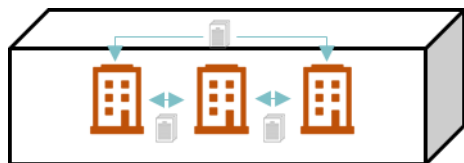
JUST

Data sharing 4.0



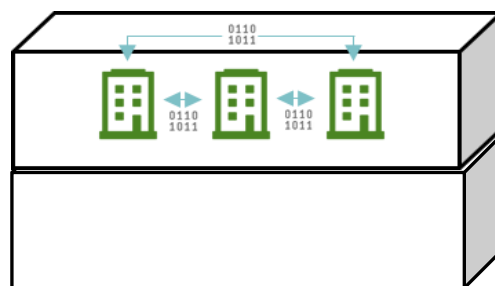


Data sharing 1.0



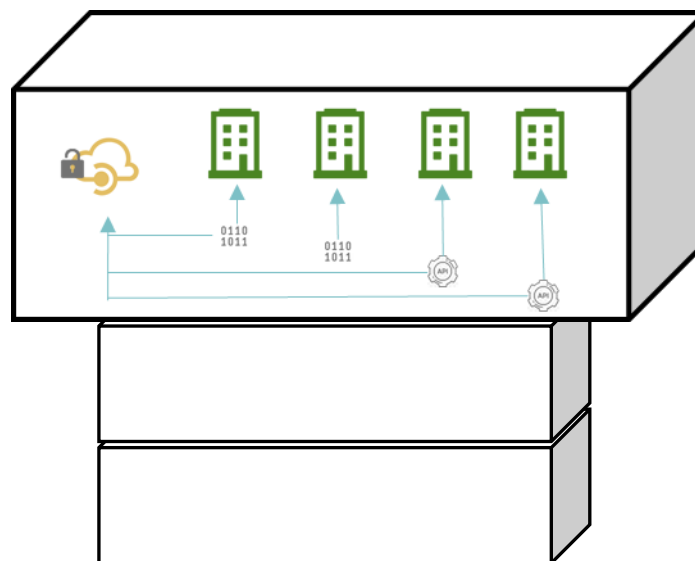


Data sharing 2.0



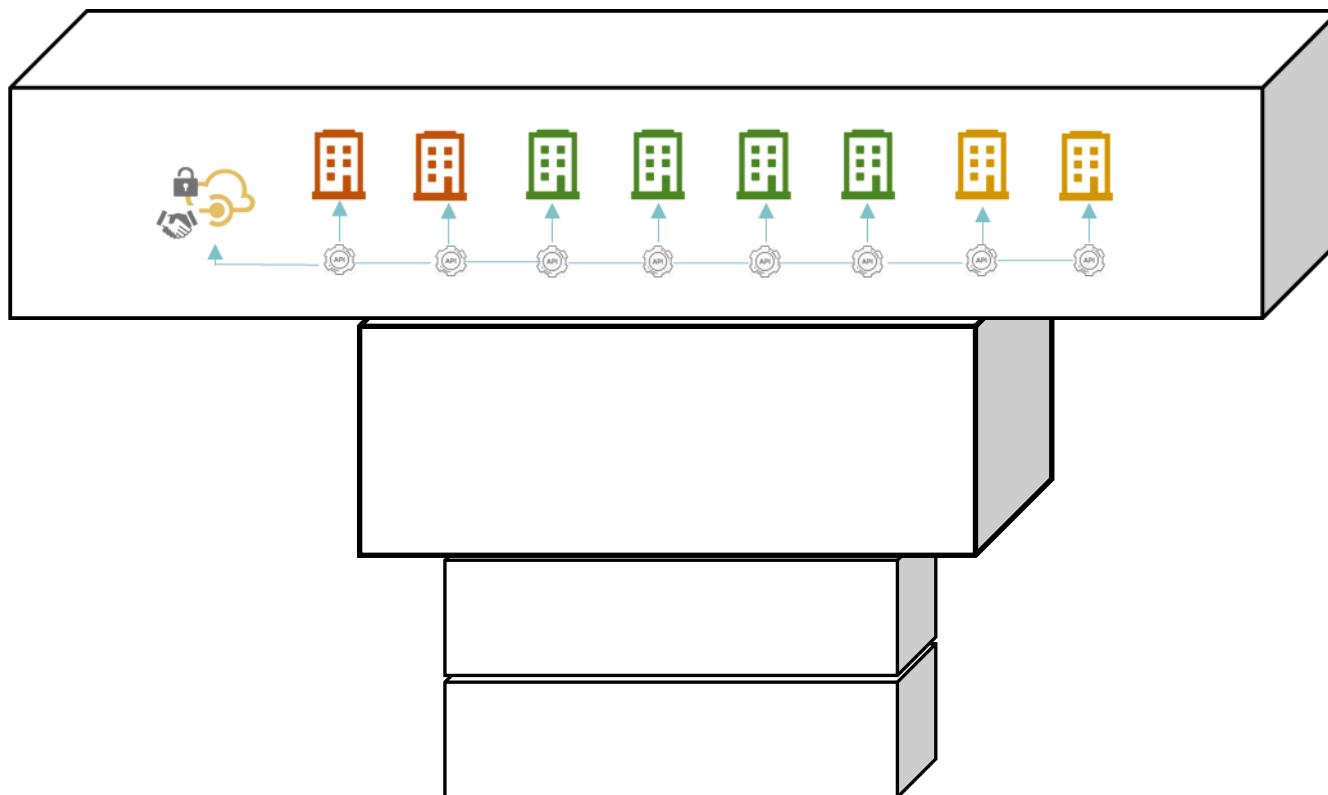


Data sharing 3.0

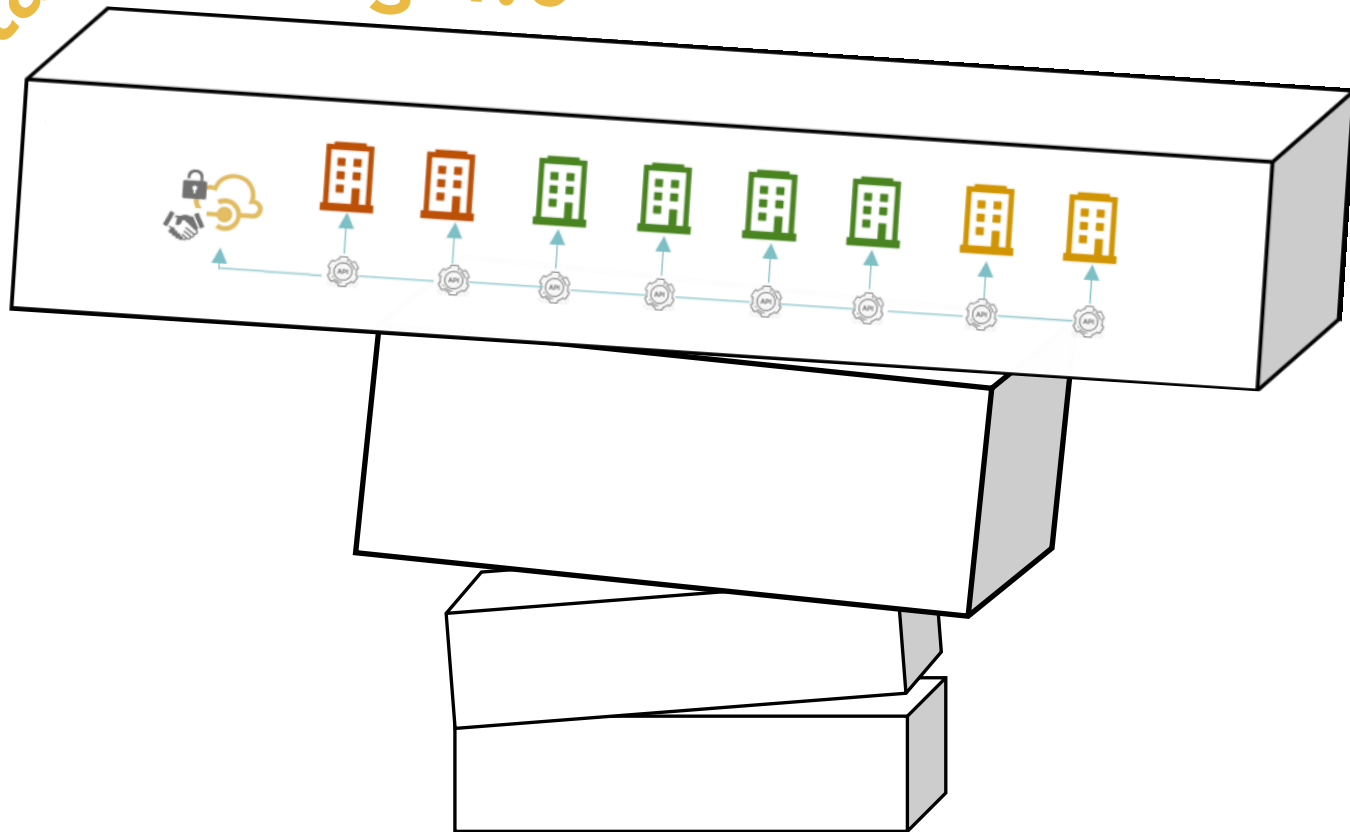


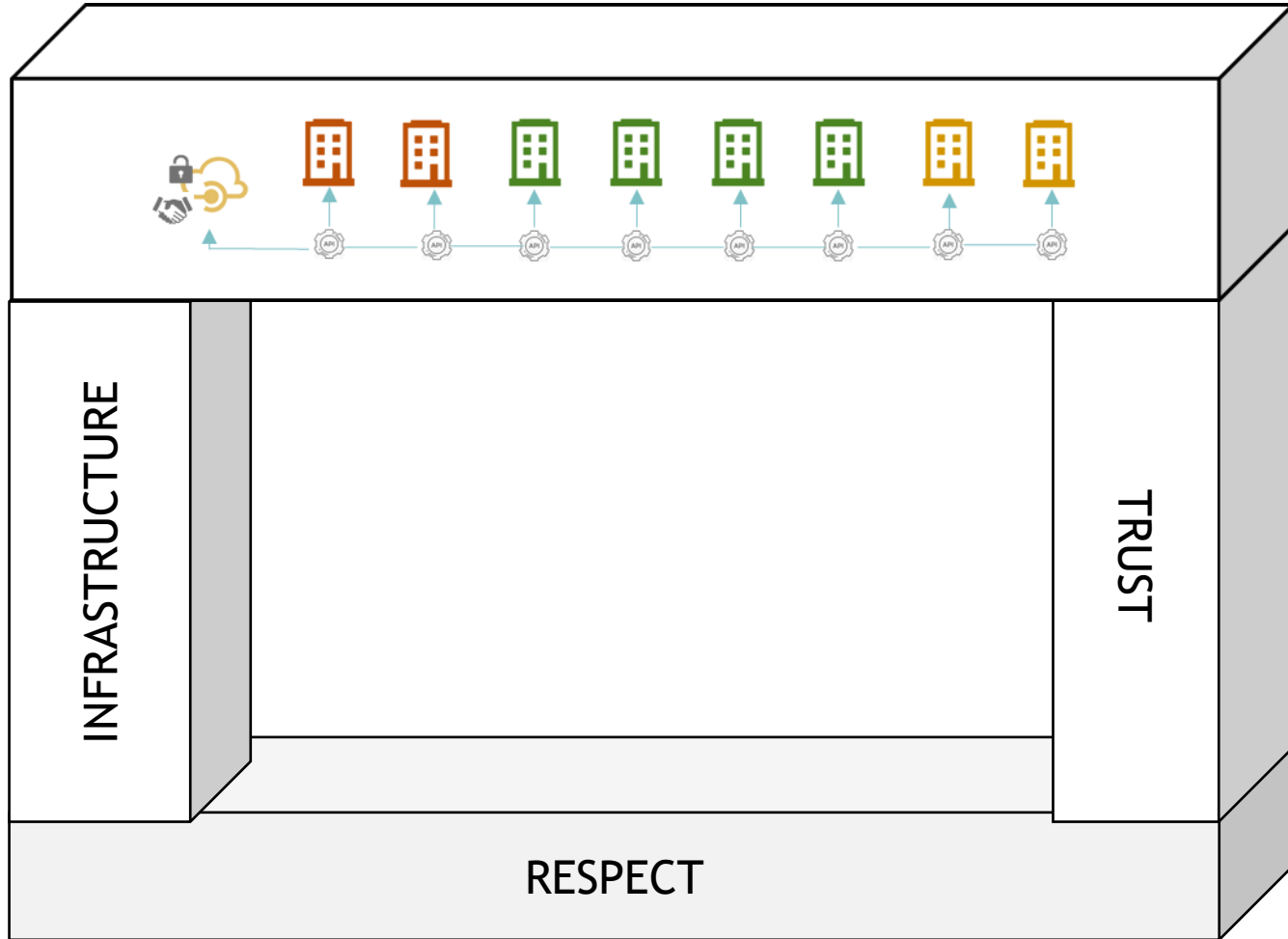


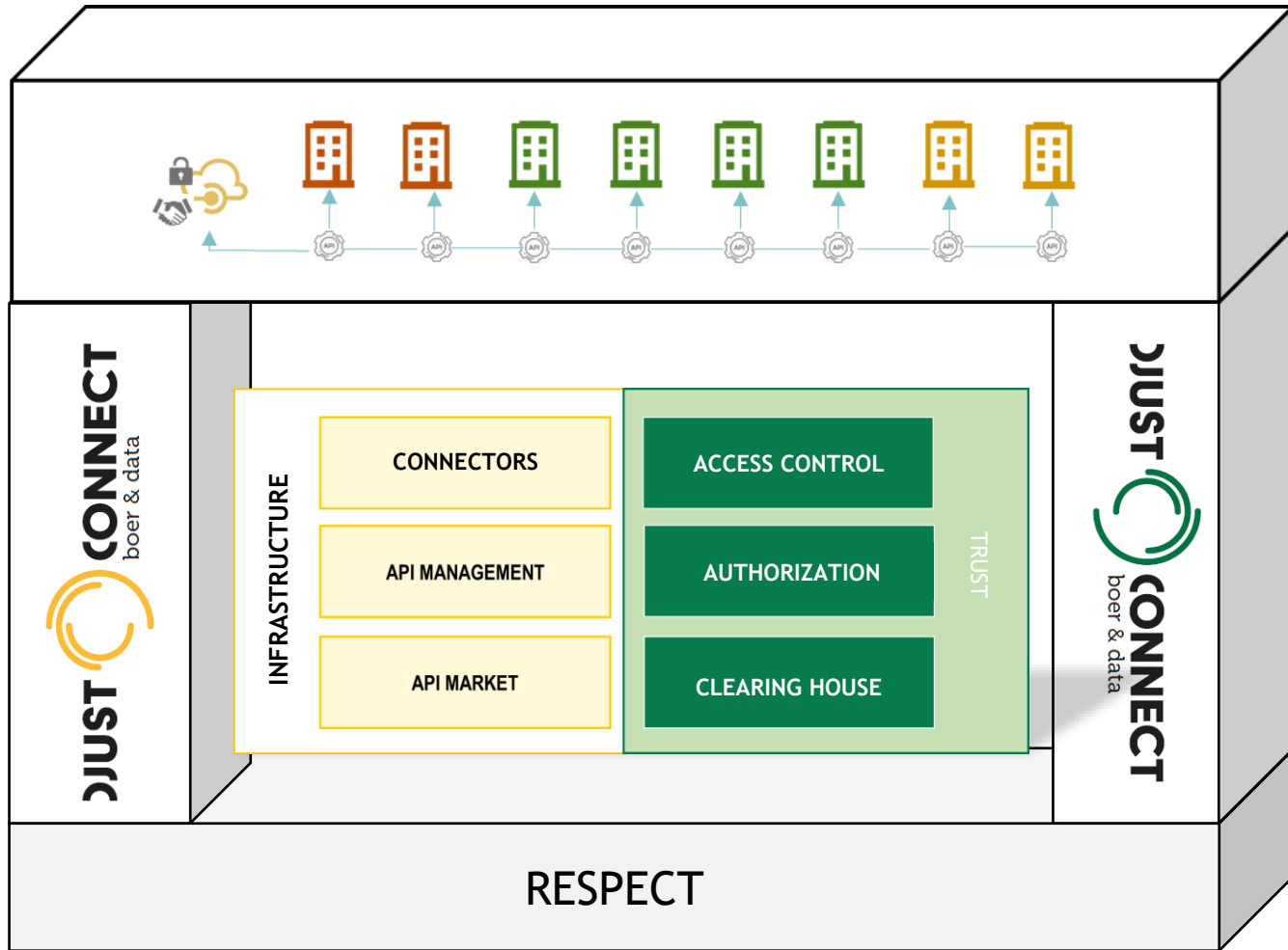
Data sharing 4.0



Data sharing 4.0









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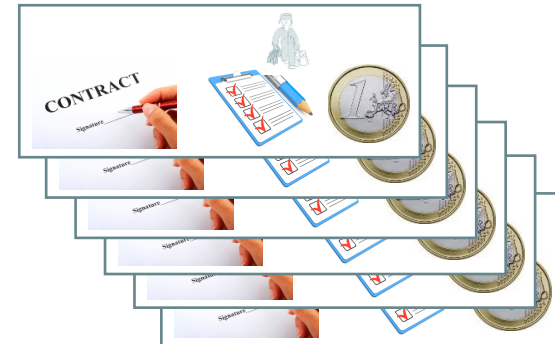
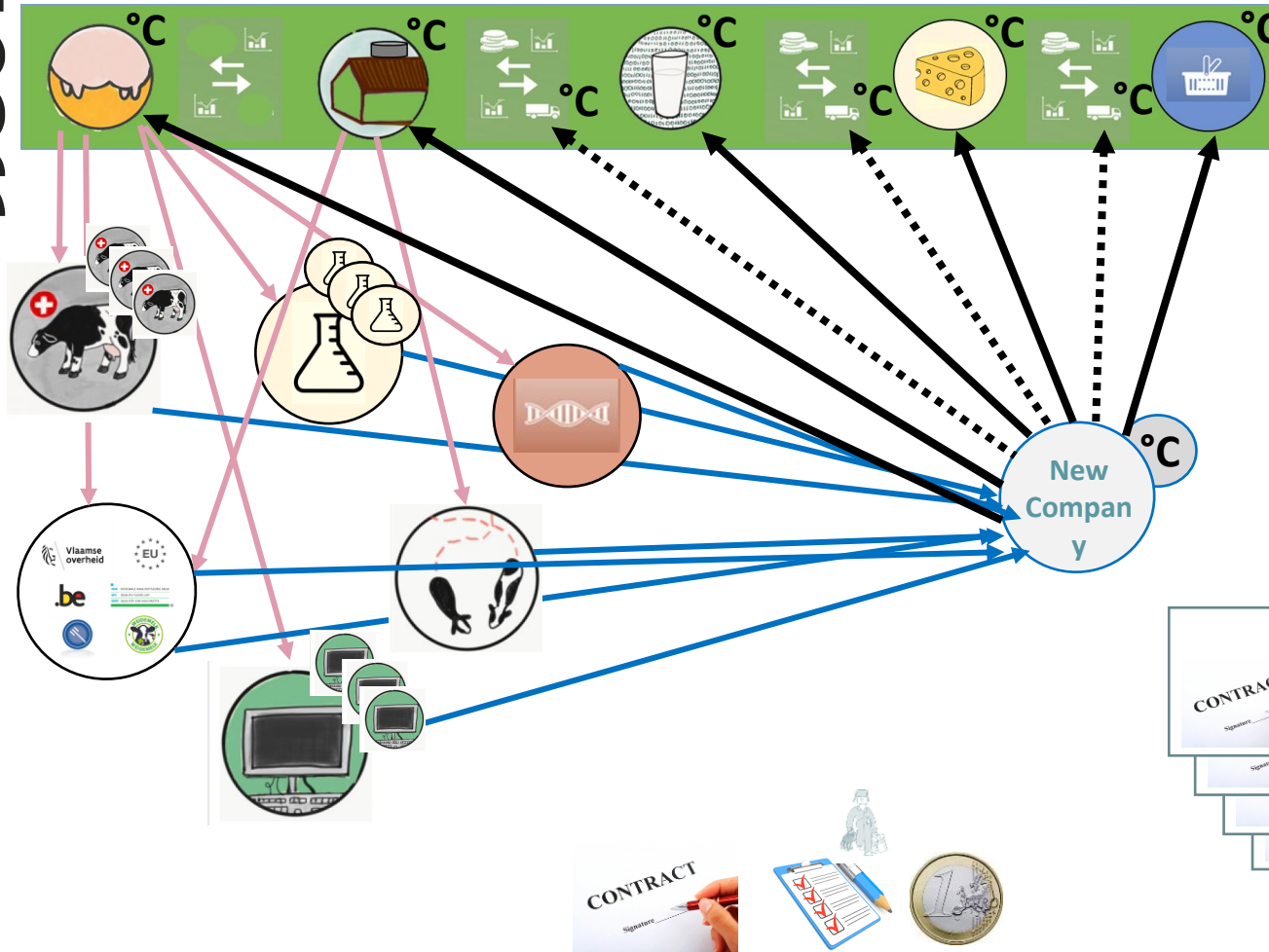
Let's develop and deploy an app?



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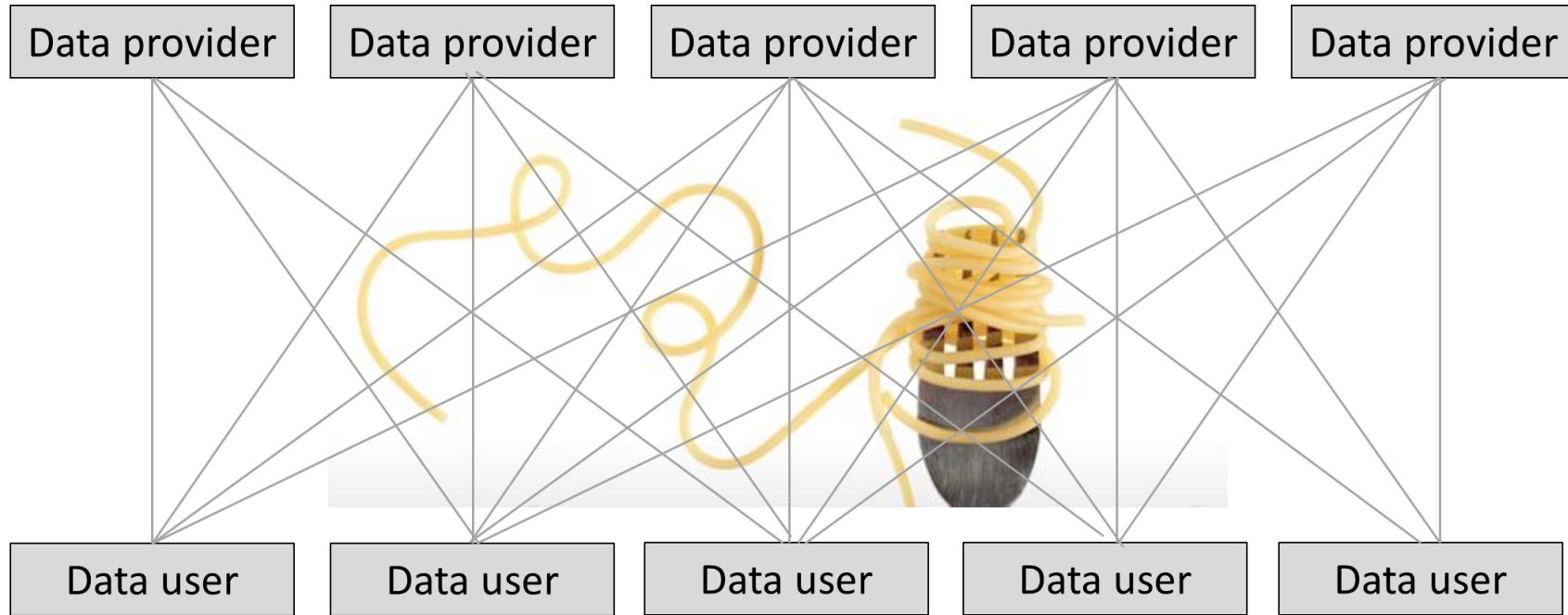




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The ecosystem today?

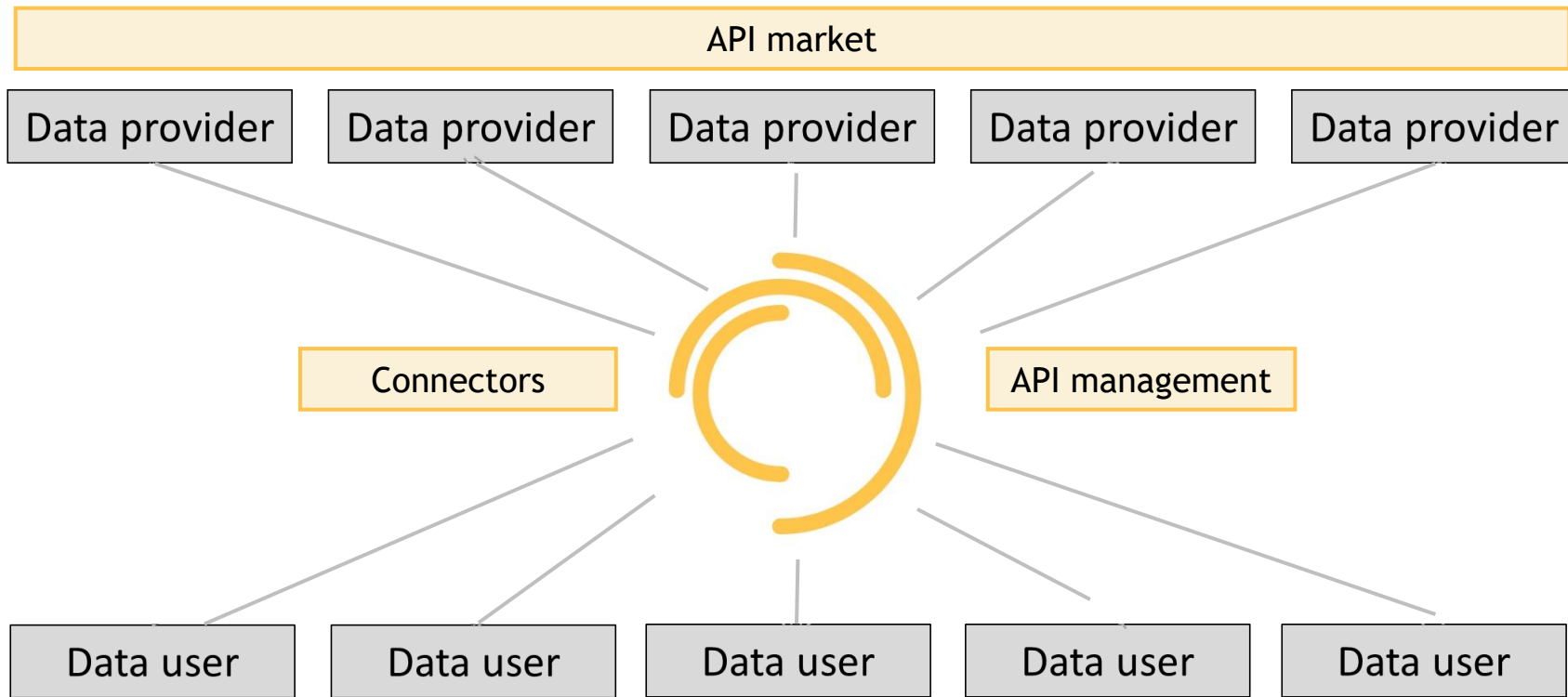




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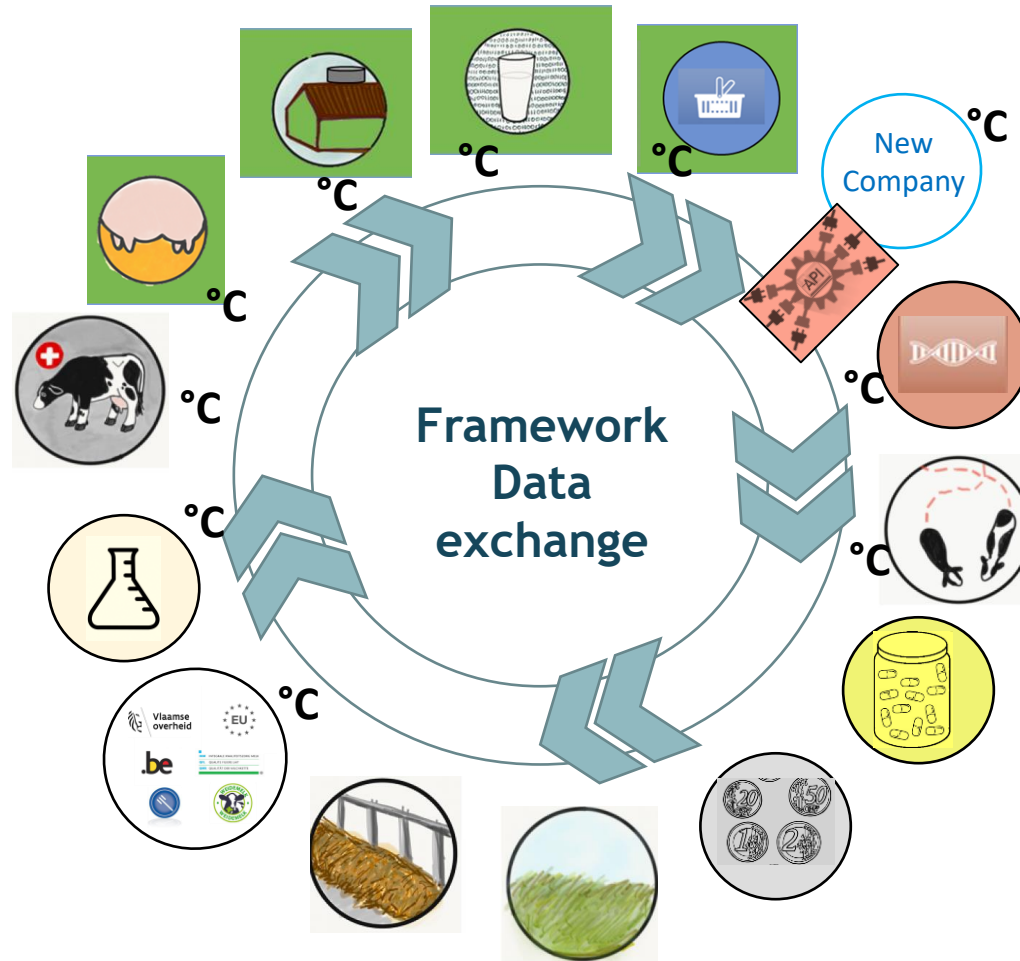


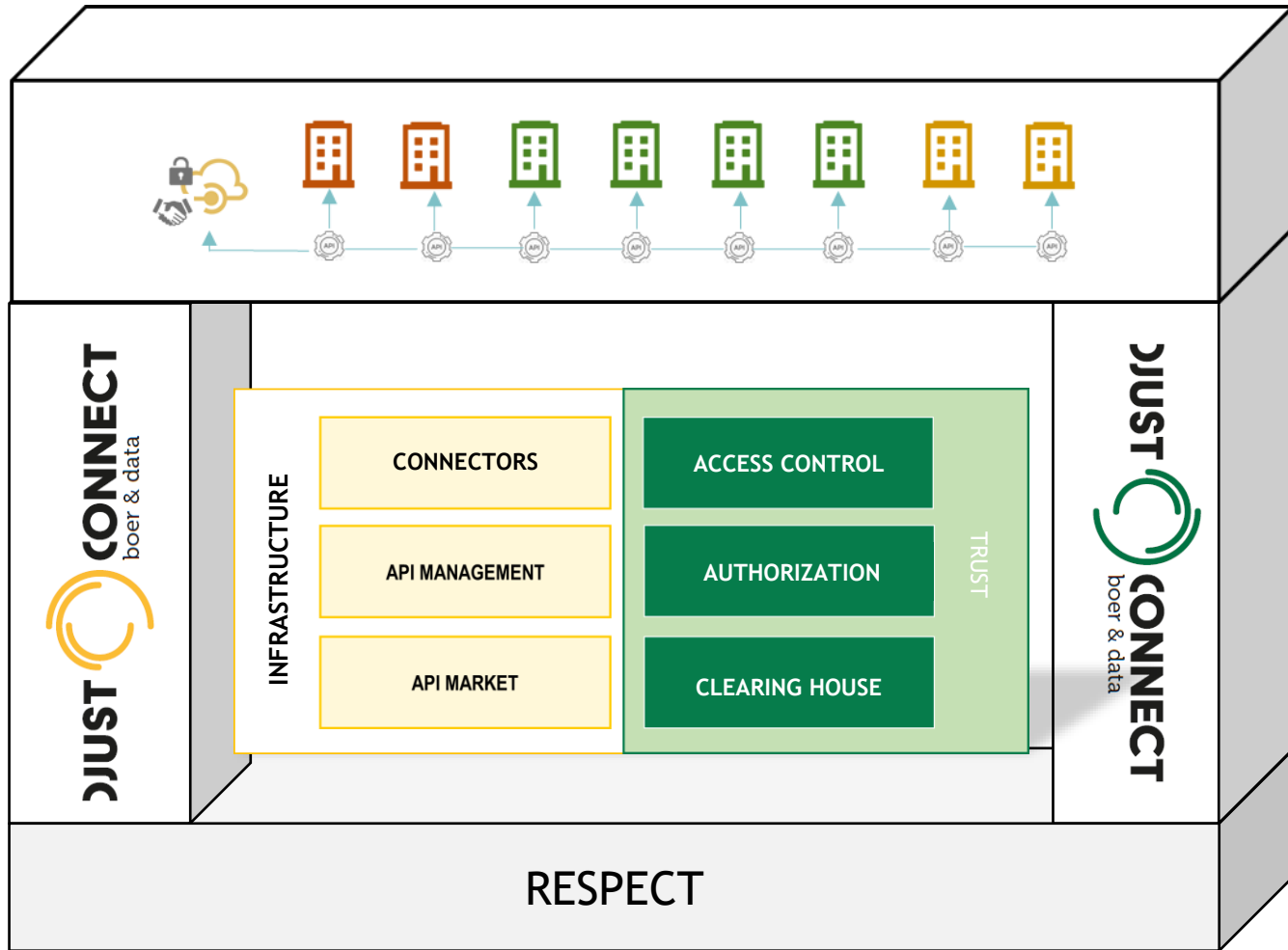


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Infrastructure



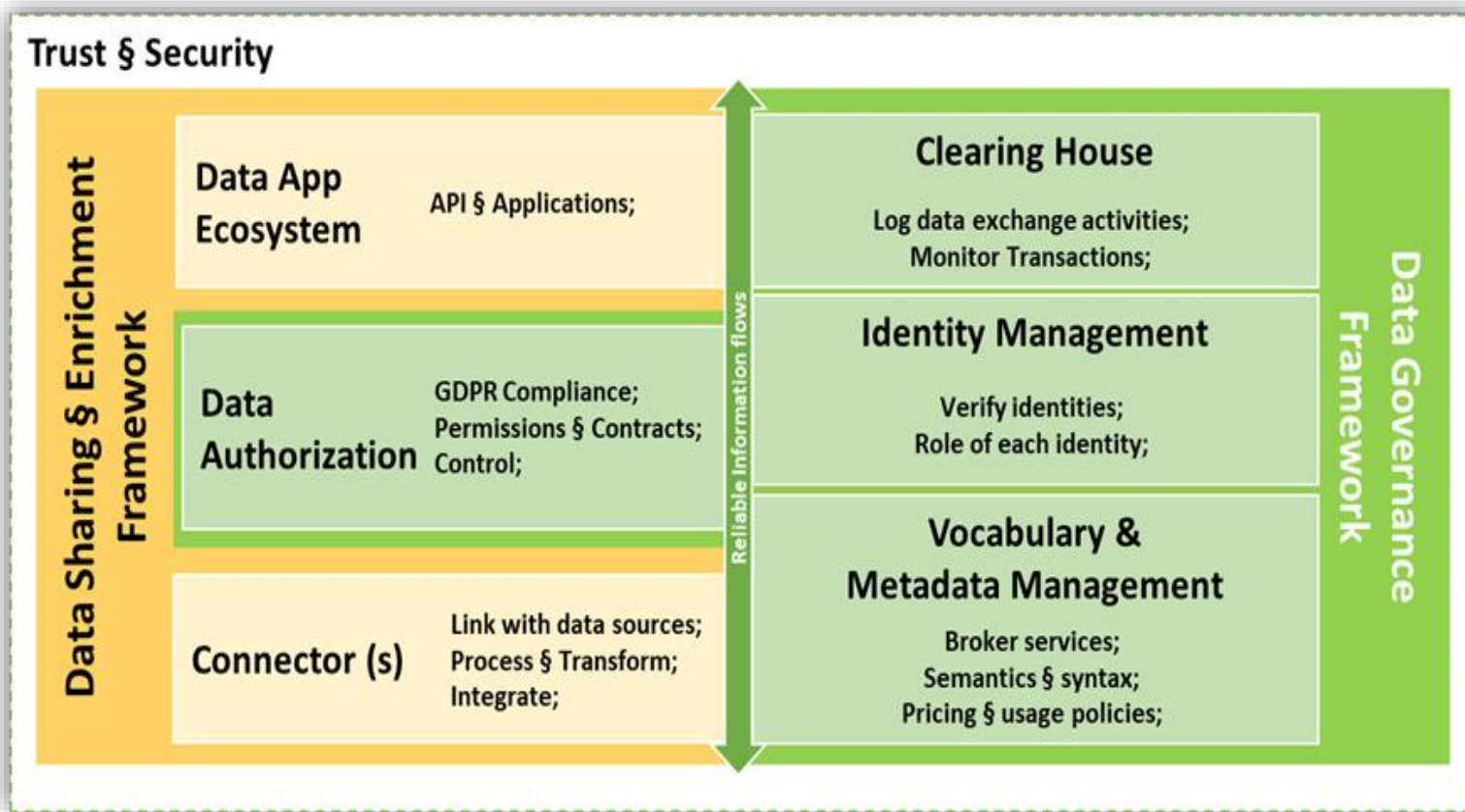




Architecture

Standards for Data Exchange

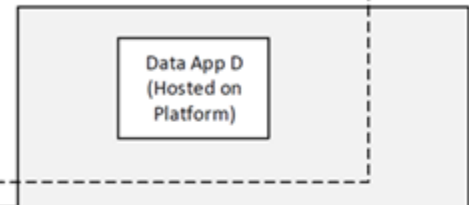
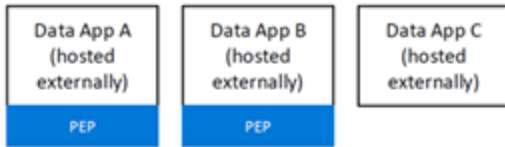
Common Governance Models



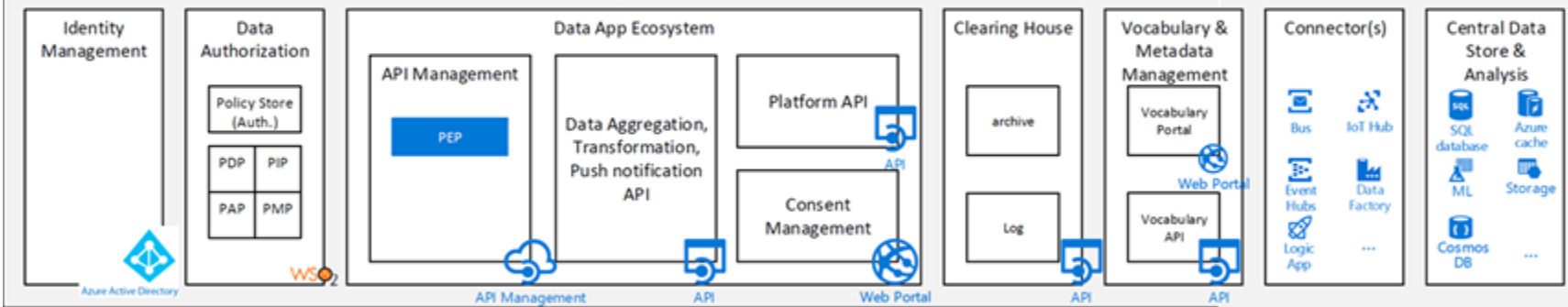


Data User

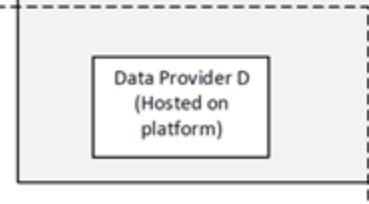
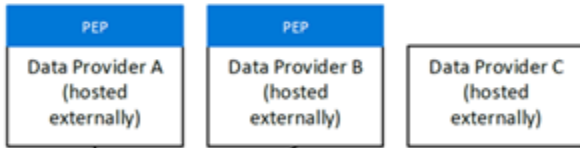
Data Consumers / App Provider



DataHub Cloud Platform



Data Providers



Vlaanderen
is landbouw & visserij



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Respect





EU Code of conduct on agricultural data sharing by contractual agreement

Data originator:

- created/collected the data either by technical means or by himself or commissioned data providers for this purpose
- initial rights
- gives access rights
- benefits or compensation
- data portability

Data provider

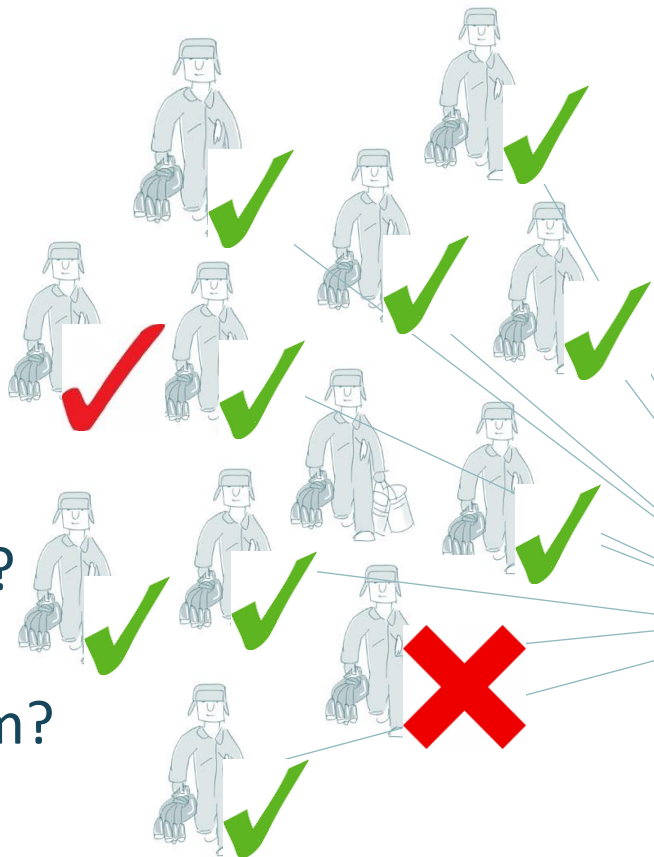
- delivers the data to the user/originator

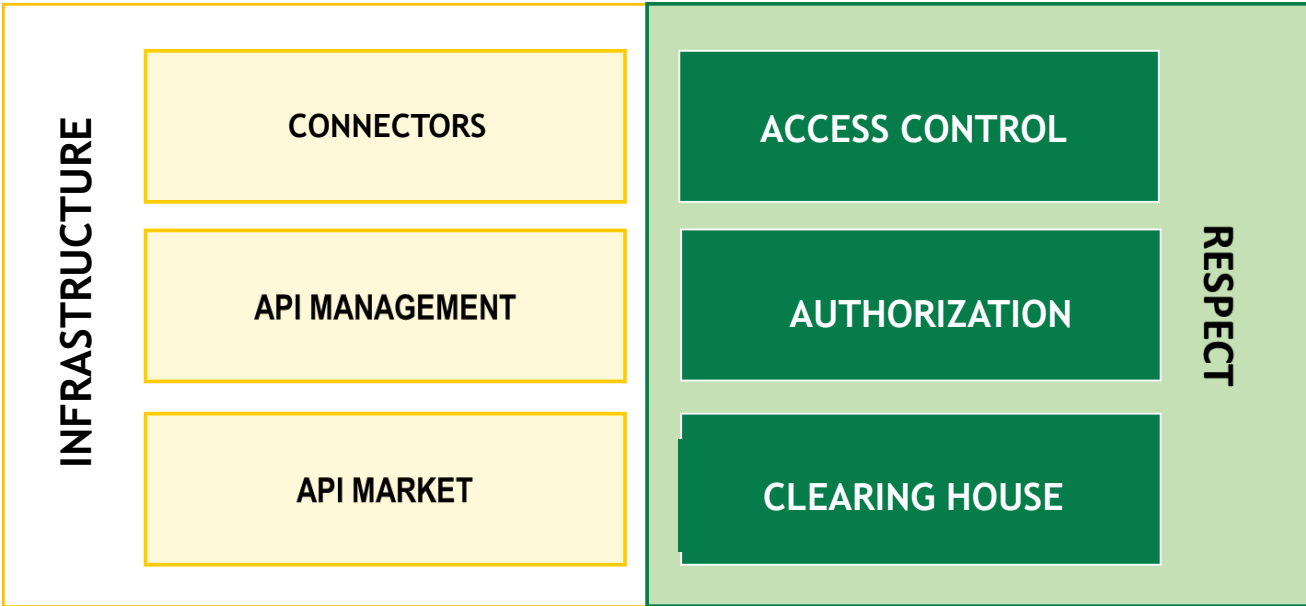
Data user

- Receives data from originator or provider



- ✓ What Data?
- ✓ With Whom?
- ✓ Why?
- ✓ How Long?






Kies manier van aanmelden


Kies hieronder hoe u wil aanmelden. Klik op "meer info" voor uitleg over die manier van aanmelden. Klik op de knop "hulp nodig?" (rechts) voor veelgestelde vragen over aanmelden of om contact op te nemen met de helpdesk.

> **itsme®**
UW LAATSTE KEUZE



[Meer info](#) ?

> **eID en aangesloten kaartlezer**
VEILIGSTE KEUZE



[Meer info](#) ?

> **Beveiligingscode via mobiele app**
GEMAKKELIJKSTE KEUZE



Eerste gebruik? Manier van aanmelden eerst [activeren](#)

[Meer info](#) ?


> **Beveiligingscode via SMS**



Eerste gebruik? Manier van aanmelden eerst [activeren](#)


[Meer info](#) ?

> **VO-token (Vlaamse overheid)**



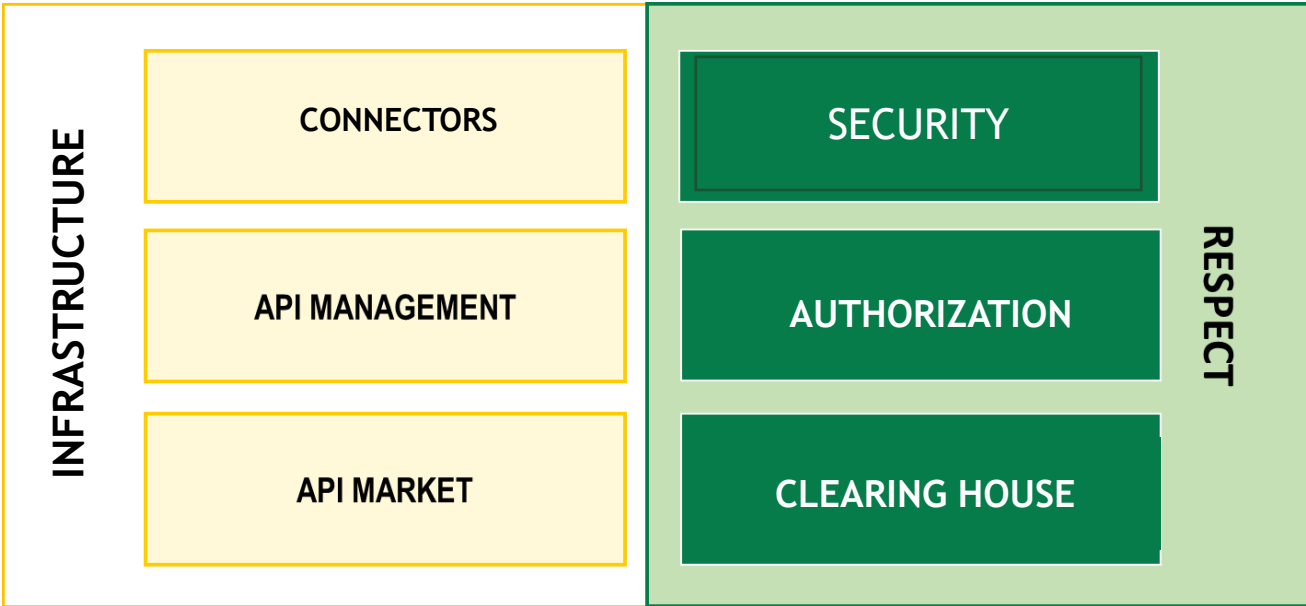
[Meer info](#) ?

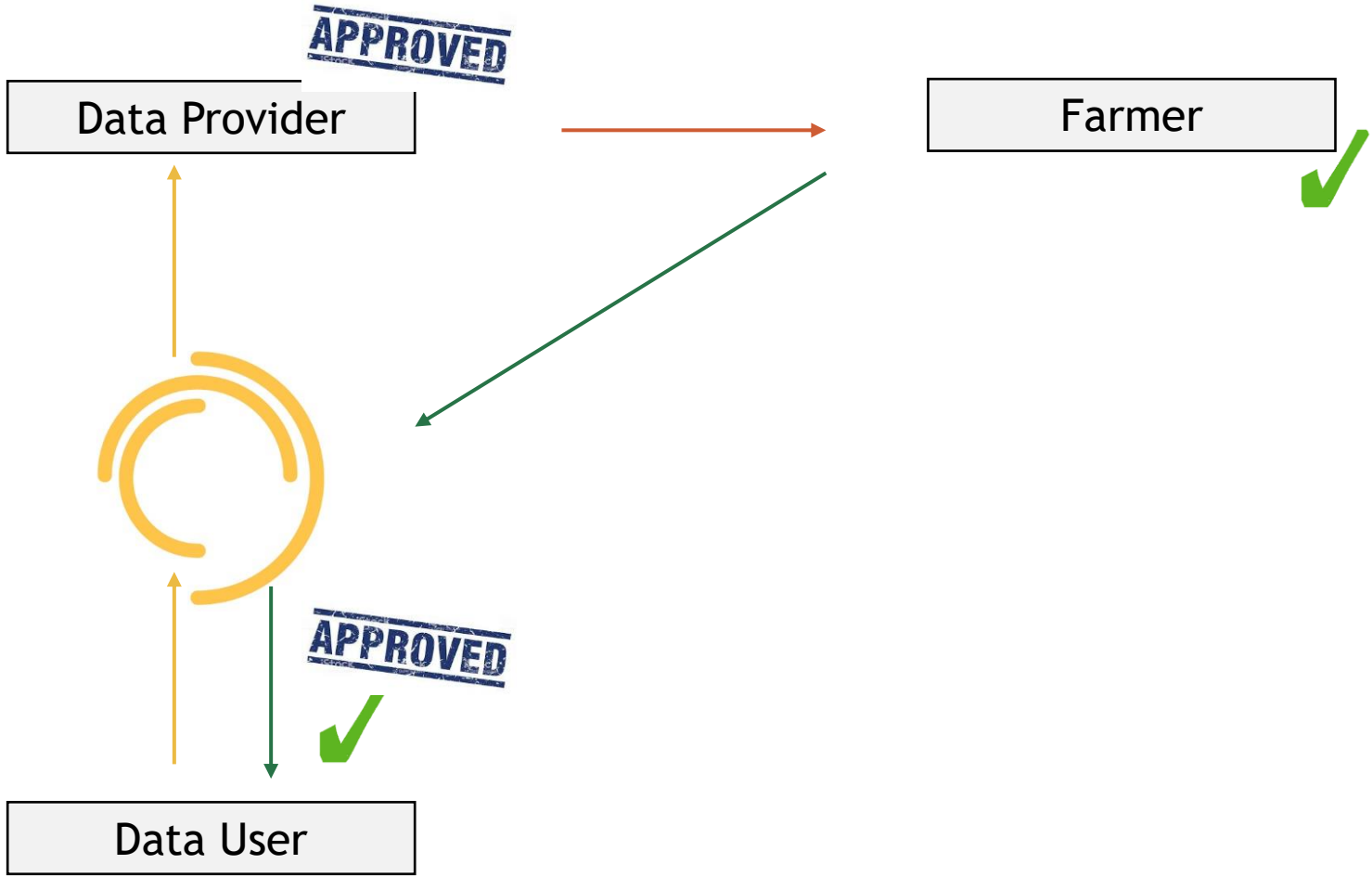
> **Federaal token**



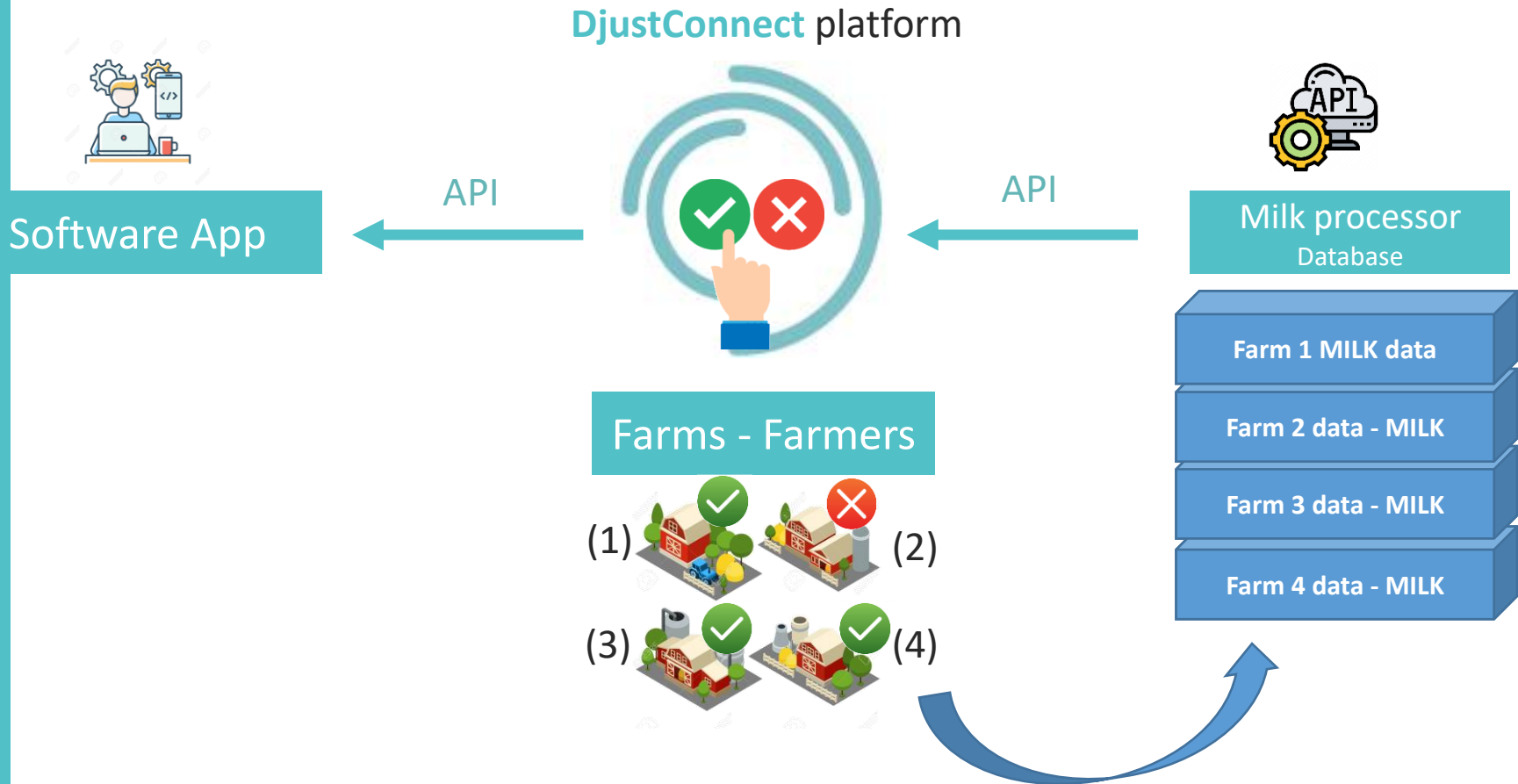
[Meer info](#) ?

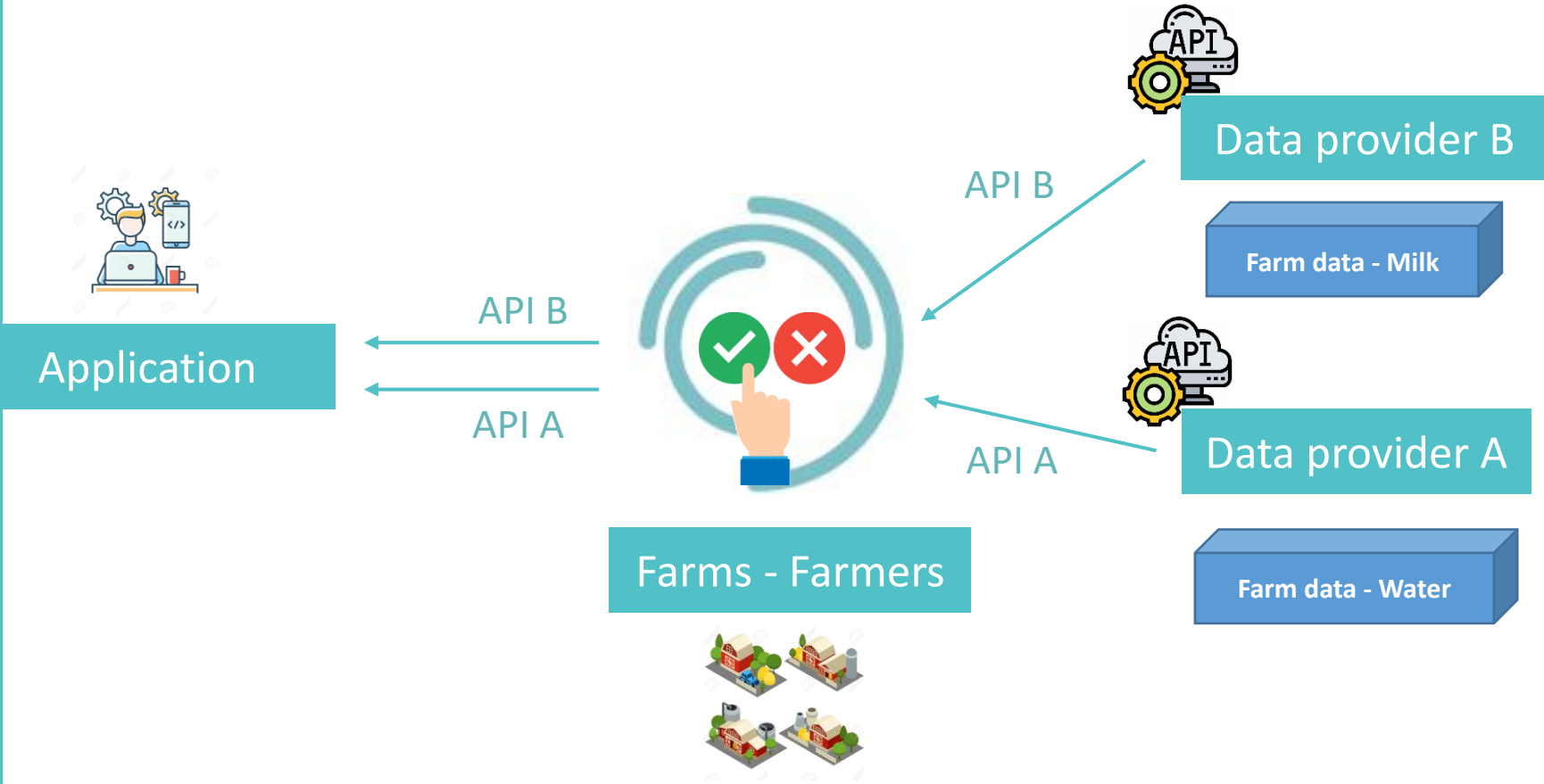
Farmer

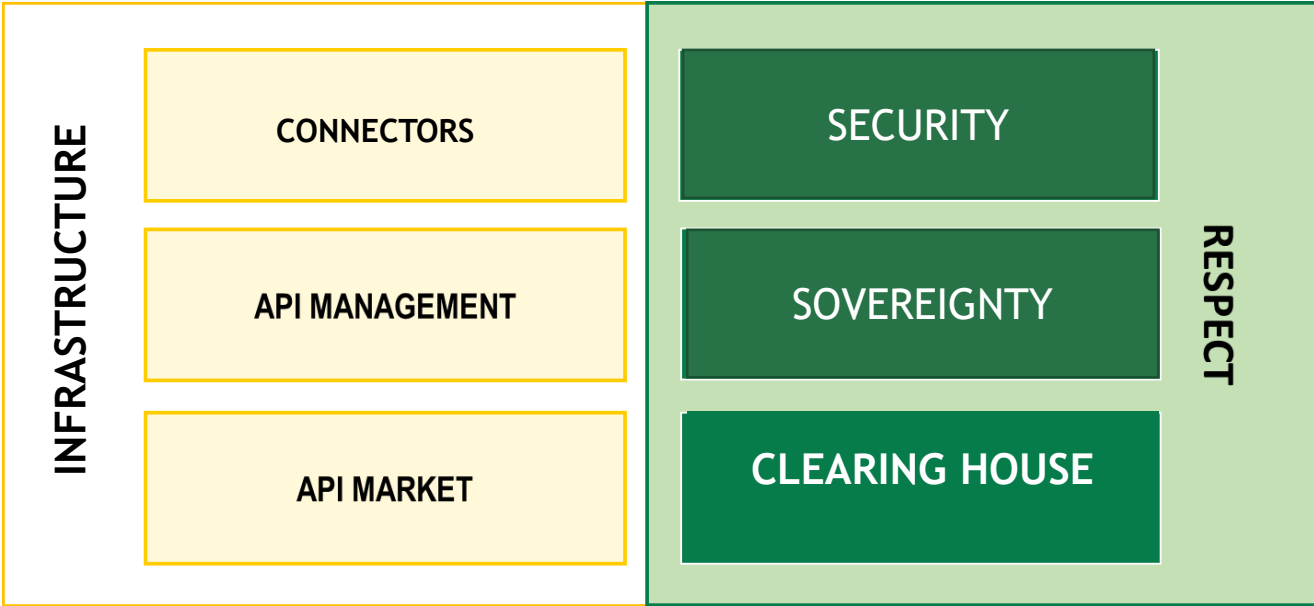




DjustConnect services for the Farmers







Exchanged data (Clearing House)

Showing all data requests from third parties and the corresponding platform action.

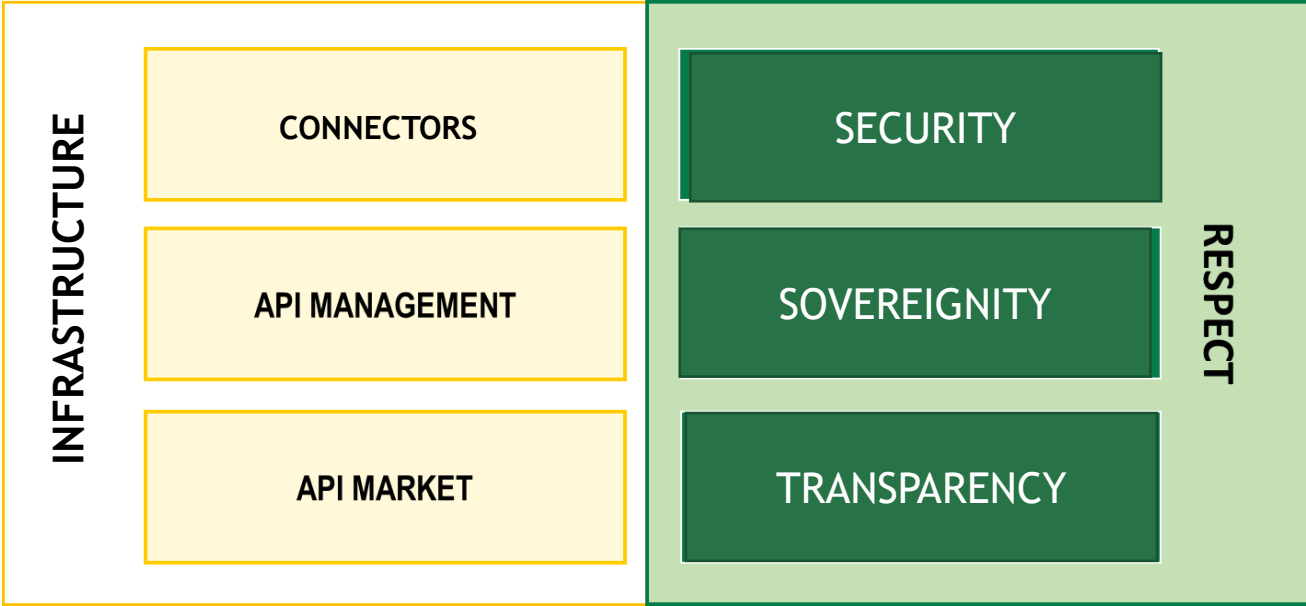
Filter

Data	API	Retrieved on	Retrieved by	Purpose	Action
LabResults	/Data_v2/API	2019/05/15 10:00	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/16 10:00	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/17 10:00	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/17 23:51	App Builder #Z	Detect illness based on milk production	Denied
LabResults	/Data_v2/API	2019/05/18 10:01	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/19 10:02	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/20 10:00	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/21 10:02	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/22 10:01	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed
LabResults	/Data_v2/API	2019/05/23 10:01	App Builder #Y	Retrieve milk volumes on a daily basis	Allowed

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Does not build apps
Provides the sector with **strong**
foundations for doing this



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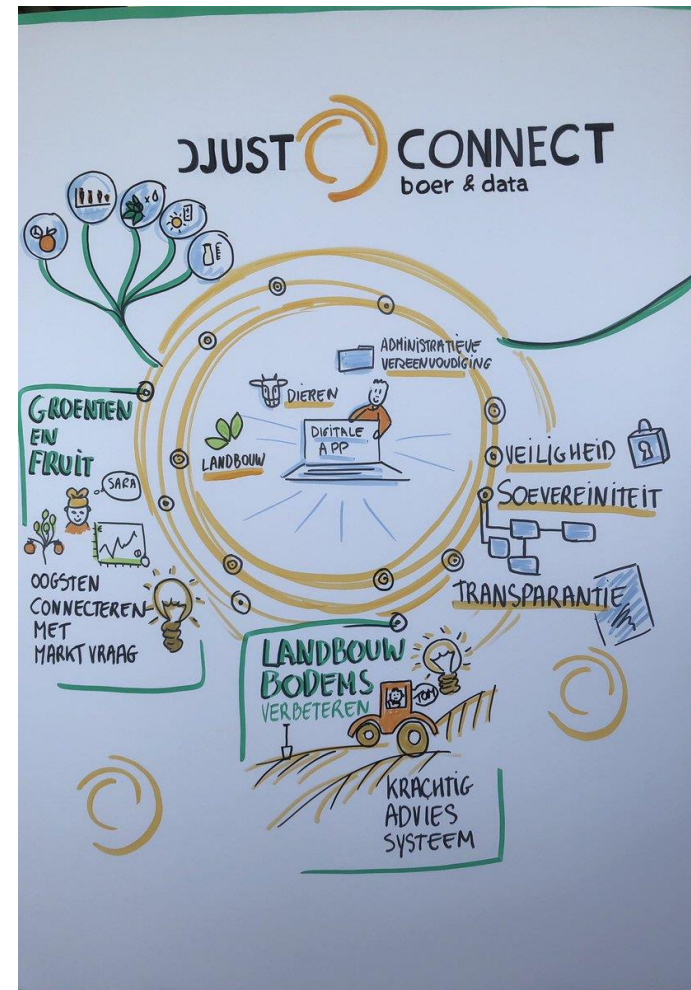
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Roll-out



10/10/2019: Launch event



PERSOONLIJKE UITNODIGING

Netwerkontbijt met lancering IKM-NET

-1^{ste} applicatie powered by DjustConnect-

28 februari 2020

8u30 – 10u

Tent Rundveesymposium

Agridagen Ravels



De driejaarlijkse IKM-audit. Een fantastische hefboom voor kwaliteitsborging van onze Vlaamse melk.

Alleen, de bijbehorende administratieve rompslomp is er voor melkveehouders vaak net iets te veel aan.

*Niemand houdt van papierwerk op zondag.
En niemand stuurt graag een tweede kopie
van een rapport of factuur omdat het eerste
ondergesneeuwd raakte.*

Gelukkig hoeft een audit vanaf 2020 niet meer zo'n gedoe te zijn, want **IKM en ILVO lanceren een nieuwe app**. Mits expliciete goedkeuring van de melkveehouder op zijn DjustConnect dashboard krijgt IKM van onderstaande partners de informatie digitaal aangeleverd.

We vertellen u graag tijdens het lanceringsevenement voor de start van de Agridagen in Ravels:

- ▶ Welke functionaliteiten de nieuwe app heeft?
- ▶ En waarom dit zo'n grote stap vooruit is voor alle betrokkenen?

Nadien krijgt u de kans om te netwerken bij een heerlijk ontbijt.

Gelieve uw komst te bevestigen vóór 21 februari via [deze link](#).

Indien u graag een inkomkaart voor de Agridagen wenst te ontvangen kan u dit ook via de link laten weten.

IKM-NET wordt mogelijk gemaakt dankzij de medewerking van:



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STABLE-TO-TABLE.COM



18/02/2020:

1^{ste} application

12 data providers

4000 users (farmers)

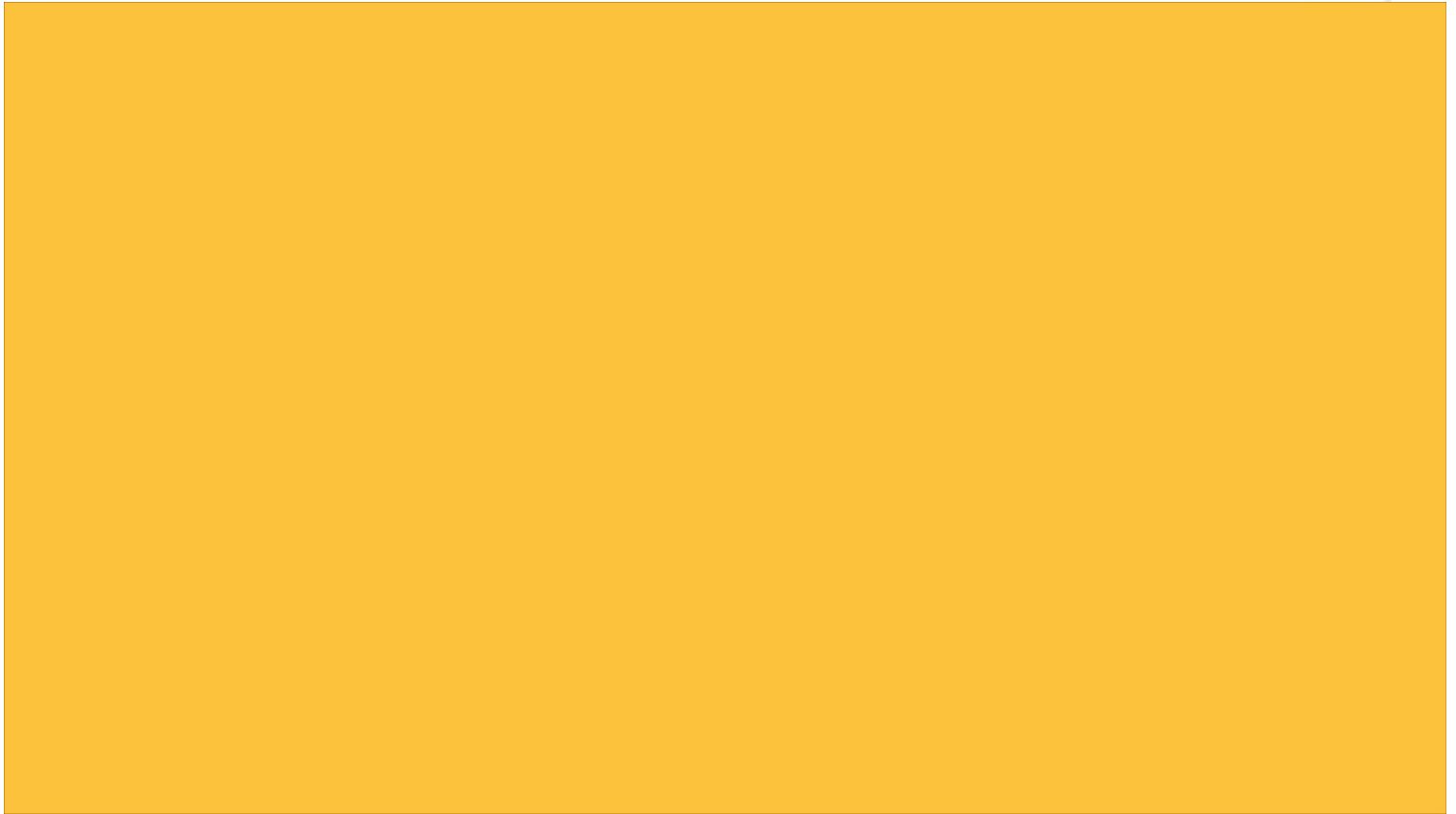


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https://www.youtube.com/watch?v=GaB3jz_oGko



<https://www.youtube.com/watch?v=RDHqJ3Prz1I>