



# Data Ownership, Legal Issues, Privacy and Security

Code of Conduct for Ag Data

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- Biggest data generators in agriculture
- Need data to operate the machines in the field
- Strong relationship between equipment dealers and farmers
- Use data for better equipment

# Connected machinery

And confidential company data



# The Agricultural Evolution

1.0



## Mechanization

- Introduction of tractors
- Increase in efficiency
- But labour-intensive system
- Relatively low productivity

2.0



## Green Revolution

- New agronomic management practices
- Use of fertilizer and pesticide
- Improve seed quality
- Increase yield

3.0



## Precision Ag

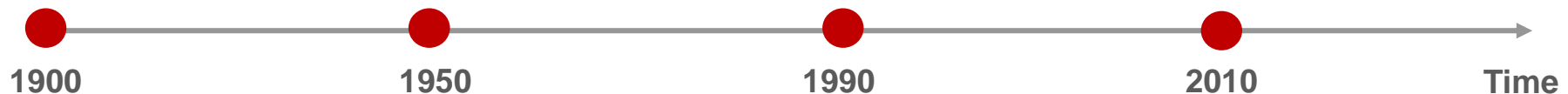
- Guidance systems
- Yield Monitoring
- Variable Rate Application
- Telematics
- Data management

4.0



## Digital Farming

- Farm Management system in real time
- Added-value services
- Automation capabilities
- Improve Agri processes & food value-chain (data platforms)



# The value of farming data

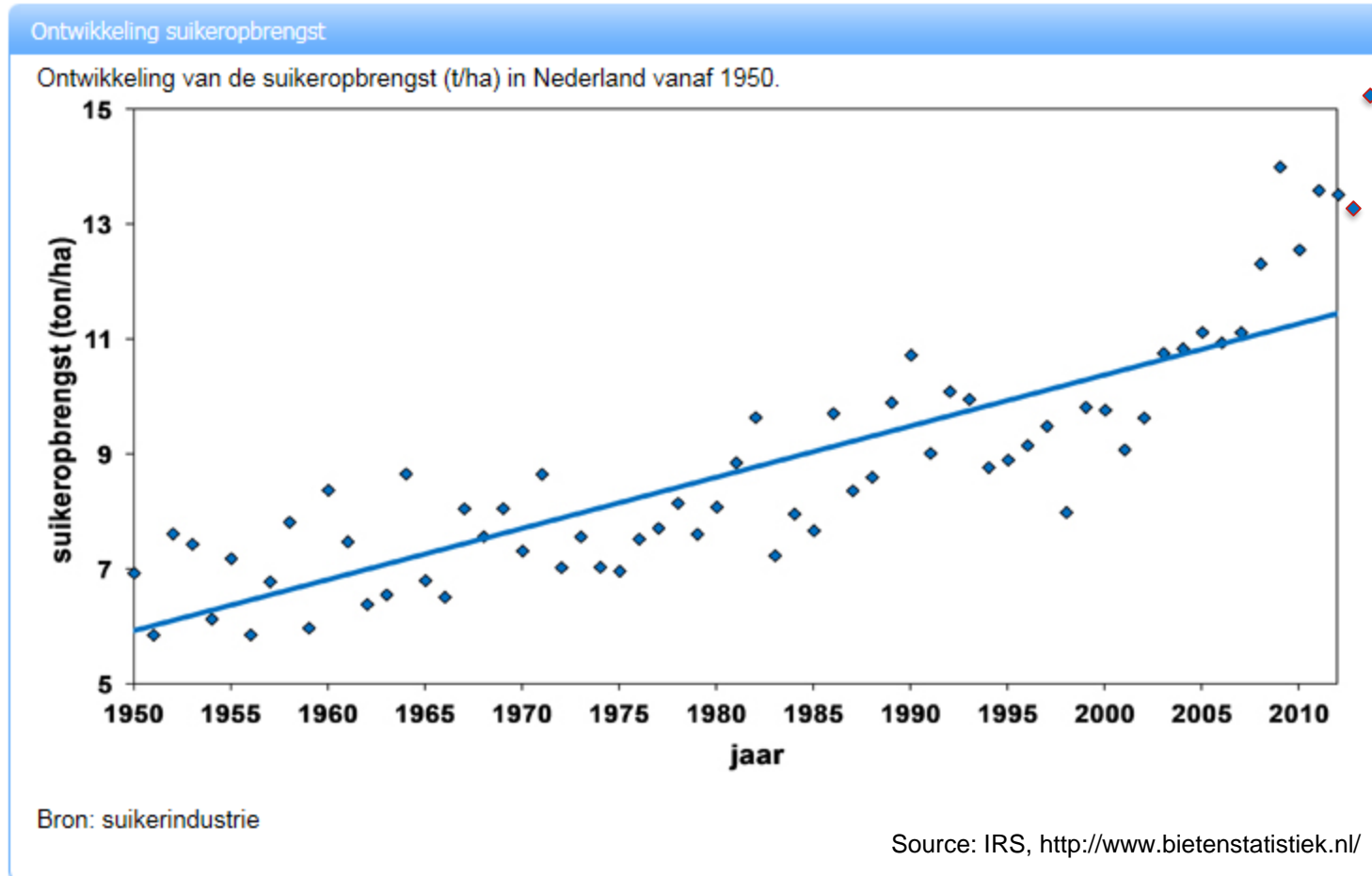
## Value creation outside the farm

- The value is not in the data, but in the algorithms and the improvements it brings.
- A lot of value is created outside the farm: through suppliers or in the food value chain.
- Farmer is reluctant to invest in IoT technologies: value not proven, user friendliness, interoperability, misappropriate data use, small scale farming, ... eco-system not established
- Farmer is the key decision maker  
(purchases of equipment, agro-chemicals, services, ..., sale of products)



# The value of the eco-system

Sugar yield improvements through collaboration and data exchange (The Netherlands)



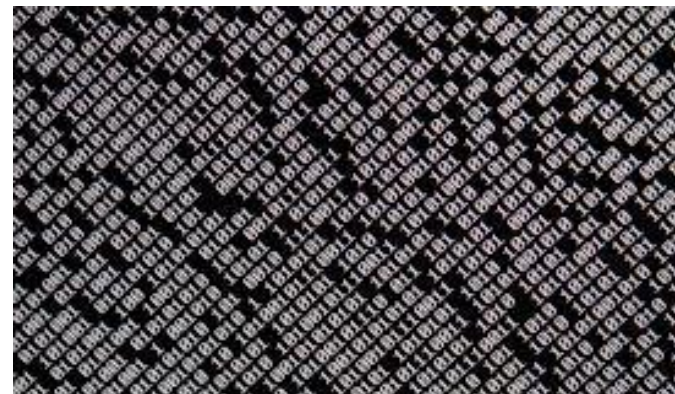
This example from a closed, local, crop specific eco-system sets the goal for a global open ag eco-system.

# Data privacy and data ownership

The importance of trustworthy partners

Farmer “owns” is his data (i.e. controls who has access to the data of his farm)

- Power shift through skewed balance in insight
- Field data can not be anonymised
- GDPR and GPS data
- Potential roadblock for innovation
- Returning value to the farmer



# Code of Conduct

Status

Promote proper behaviour

Needs to bring **transparency**  
and **create trust!**

- Code of conduct draft with the partners
- Now being presented to other organisations for feedback and adoption

**copa**\***cogeca**  
european farmers      european agri-cooperatives

**fertilizers**  
**europe**



**CEMA**





# Farm data sharing check list

When using a product or service that captures or exchanges data from the farm, answer the following questions:

- Is there an **agreement** in place?
- **What** data is collected?
- **Who** owns/controls access to the data?
- What **services** are delivered?
- Will my data be used for **other goals** than providing me (the farmer) a service? Is it clear what these are? Can I agree/disagree? What are/is the benefits/value for me (the farmer)?
- Is data shared with **other parties**? What rules do the external parties adhere to? Can I agree/disagree with sharing data with other parties?
- Can the service provider **change the agreements** unilaterally?
- What happens when the service provider **changes ownership**?
- Can I **retrieve my dataset** from the system in a usable format?
- Will I be updated on **security breaches**?
- Can I **opt out** of the service and have my data deleted from the system?
- Is there a **contact point** to assist me with my questions?

Questions?