

# Farm Data Train

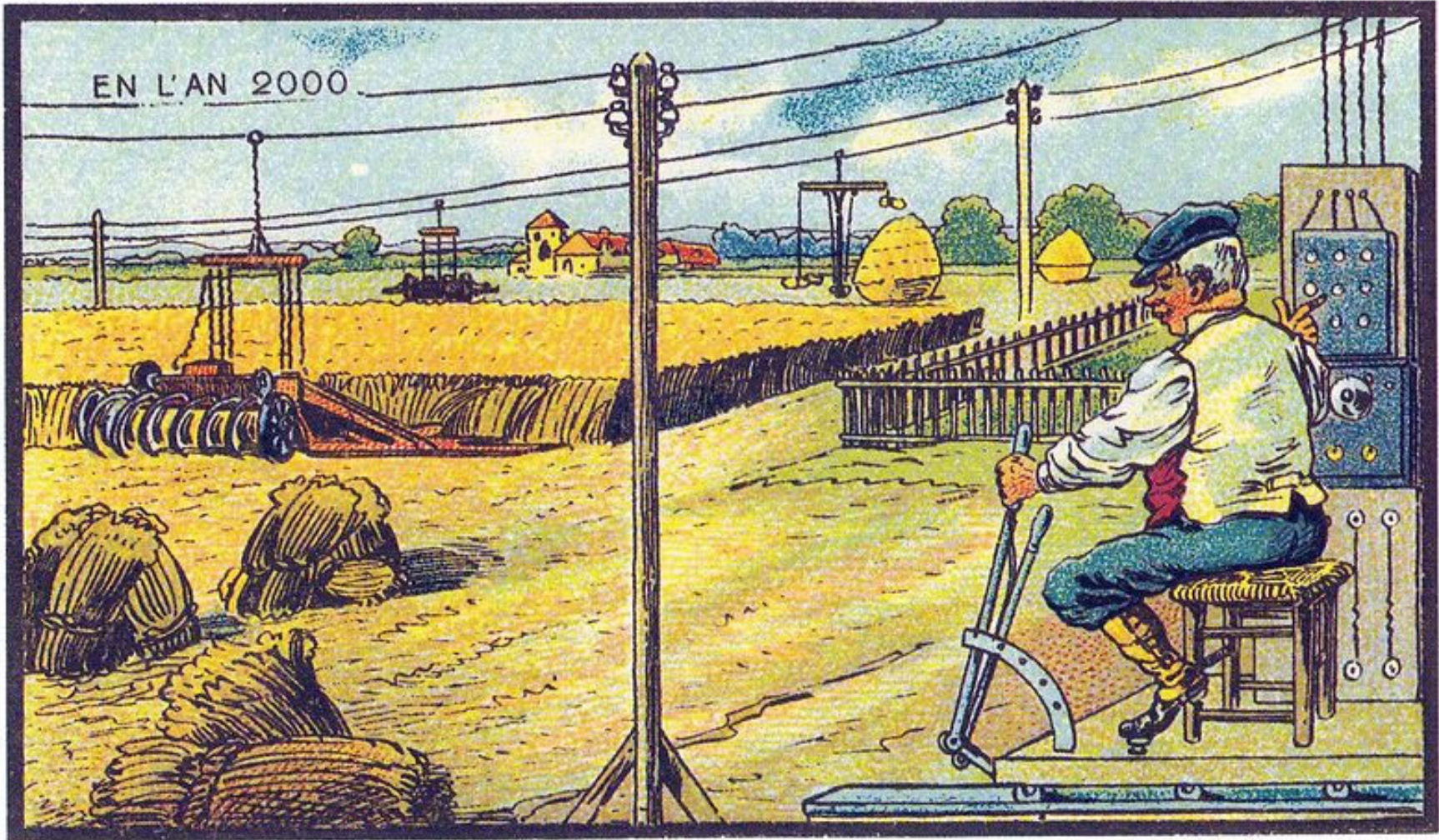
Ben Schaap, Matthijs Brouwer & Richard Finkers

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Wageningen









A Very Busy Farmer



**gODAN**  
Global Open Data  
for Agriculture & Nutrition

A Global Data Ecosystem  
for Agriculture and Food



## Realizing a Global Data Ecosystem for Agriculture and Food

“This paper looks at the challenges and principles that must be addressed in **building a global data ecosystem** for agriculture. These begin with building incentives and trust – amongst both data providers and consumers – in sharing, opening and using data. Key to achieving this will be developing a broad awareness of, and making efforts to improve, **data quality, provenance, timeliness and accessibility**. We set out the key global standards and data publishing principles that can be followed in supporting this, including the **‘Five stars of open data’** and the **‘FAIR principles’** and offer several recommendations for stakeholders in the industry to follow.”





Watch the [Farm Data Train](#)



# Farm Data Train Blueprint for Wageningen University and Research

- 1) **Stations: locations that contain FAIR data.** Stations can range from very large core databases to small personal databases. A station has house rules; each data element has an associated license describing what a visiting train is allowed to do with that data element. This can range from nothing to anyone can use this element as they wish. Stations are built and maintained by trusted parties and governed by the data owner.
- 2) **Trains are 'workflows' executing specific research questions** or use cases that need FAIR data. Trains are built and maintained by the research and analytics communities.
- 3) **The track sets, maintains and checks the rules of interactions** and is the interface between trains and stations. Only certified trains and certified FAIR data stations are allowed on the track and their use is fully controlled and auditable.

# Farm Data Train Stakeholder Consultation

## Wageningen stakeholders:

- Food Safety Prediction
- Linked data @WUR
- Food informatics
- Big Data Value Models
- Data Stewardship
- Crop protection and precision agriculture (Akkerweb)
- AgroDataCube
- Data Exchange Services
- Coordinator Infrastructure

## External stakeholders:

- Dairy sector (TNO)
- JoinData
- Personal Health Train
- Zorginstituut NL
- GO FAIR Initiative
- GODAN

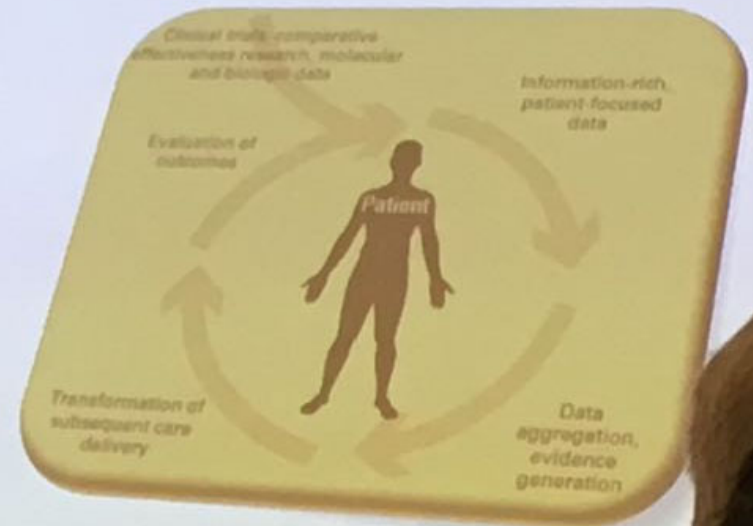


## Barriers to sharing data

[..] the problem is not really technical [...].  
Rather, the problems are **ethical, political, and administrative.**

*Lancet Oncol 2011;12:933*

1. Administrative (I don't have the resources)
2. Political (I don't want to)
3. Ethical (I am not allowed to)





# Things to look at

- Results of FAIRification Challenge available at:  
<https://docs.google.com/document/d/1yEwx-0RiUx4PaJ1A0ks6UWPX3-wV0B6T3jcljVNHbhk/edit#>
- GO FAIR Food Systems Implementation Network Manifesto is being set up, please join!
- Watch the Farm Data Train!

# gODAN

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for Agriculture & Nutrition

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