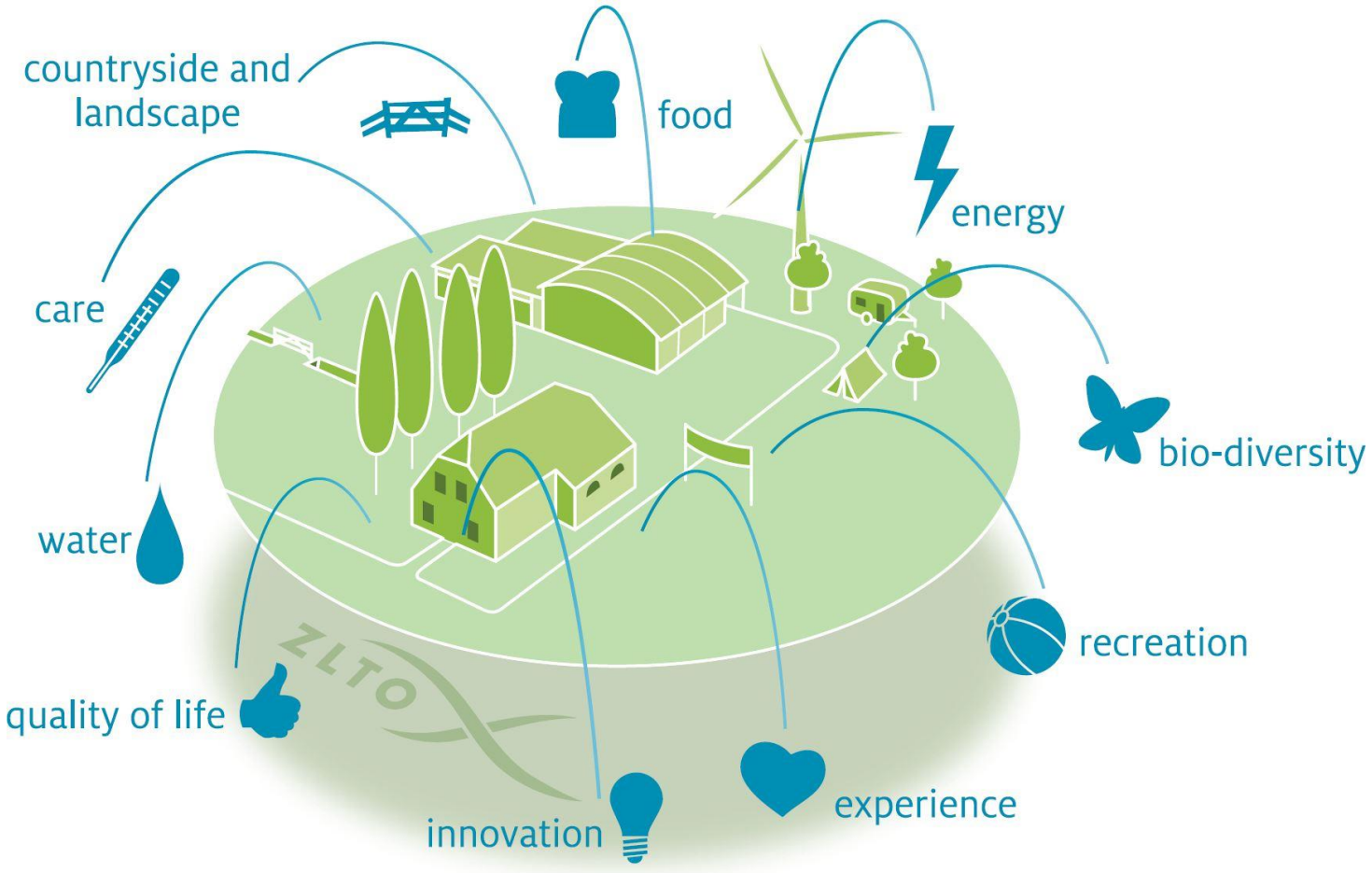
ZLTO: FARMERS ORGANISATION



Partner in Regional, Interreg, National, H2020

WITHIN FIELD MANAGEMENT ZONING

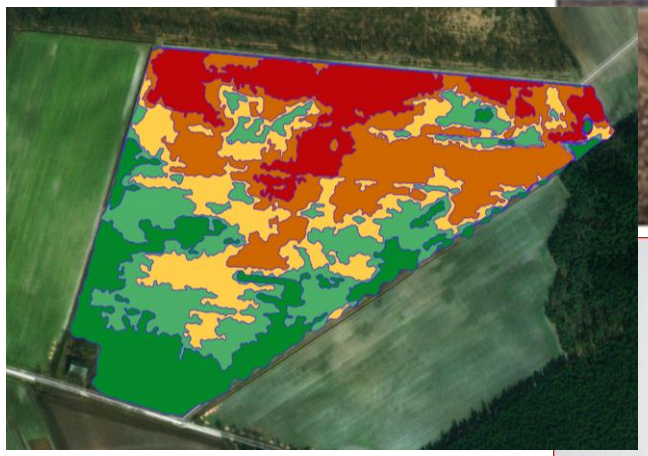
Arable use case 1.1

- Focus on Potato, 2 arable farms on sandy and clay soil
- 4 IoT demonstrations (wireless transmission of data, yield prediction and mapping, crop protection in management zones, and track&trace bulk storage)
- IoT devices, integration and equipment in each demonstration

MALAGA 27-11-17

Tooling the members: Compost calculator

- Optimum use of compost
- Max improvement soil
- Acepted addition
  - Logistics and impaction
  - Minerals
    - Enterprise/ parcel: Legal max
    - Subparcel: soil life
- Need of simple decision support tool
- Basis: Soil Scan/ Field zones
- Task maps for machines



LINK TO LOCAL KNOWLEDGE

Very practical test of soil quality,

Raising awareness of farmers and others (students, citizens)

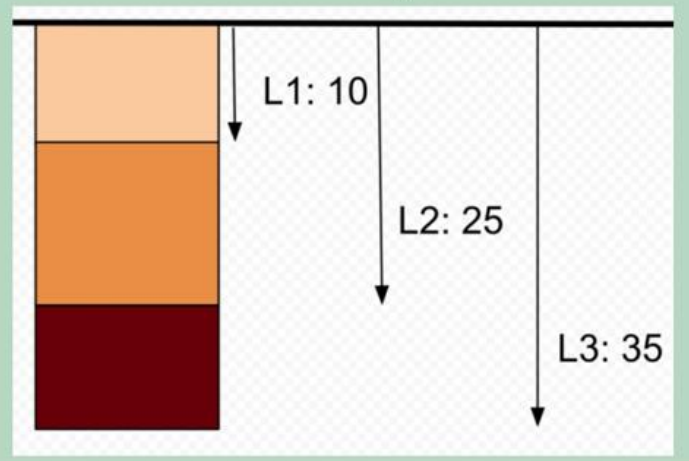
Capsella Soil Health app

Granular (rounded surfaces)

Crumb (rounded surfaces but large than granular)

Blocky Small

from 25 to 35 enter **10, 25 and 35**.



A layer is identified by:

1. assembly of aggregates of similar shape and/or dimention
2. Homogeneous color;
3. Similar presence of roots

Collaboration, bridging between communities

With a **community based** approach, leading to **practical tools for farmers** and citizens,

Capsella could make a difference, appreciated by farmers and challenging professionals.

CODE OF CONDUCT ON DATA
BETTER CONTRACTS FOR FARMERS

Great expertise among contributors CoC

Energy of Organisations around CoC, to

- Communicate with members and clients /suppliers
- Join related initiatives and groups
- Reach guarantees for long term data exchange: contracts

Challenges:

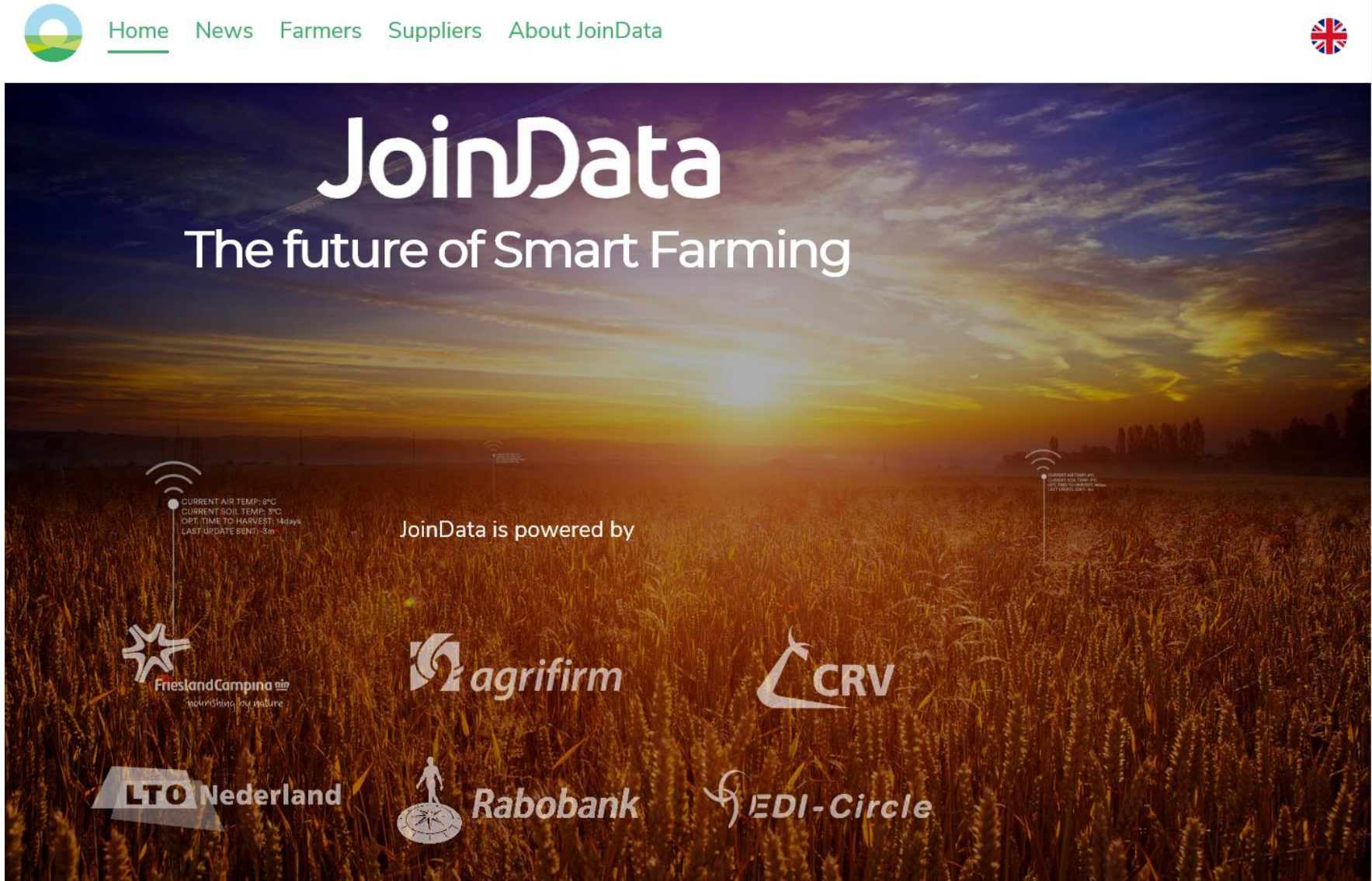
- Juridical-organisational issues/ ethics:
- Business aligning & development
- Founding and sustaining networks/ecosystem/groups
- Technical solutions of data exchange, inclusive for farmers; f.i. Joindata NL
- Develop projects and new initiatives

Support of EU projects like IoF2020, SmartAgriHubs

JOINDATA

TIALORED DATA EXCHANGE

- Founded by cooperatives and farmers organisation
- Open for all data using organisations
- All farmers are member via their organisation
- Authentication & authorisation on high level
- Detailed yes/no
- No organisation can influence data streams, so no vendor lock-in
- Link to CoC: detailed CoC implementatieon

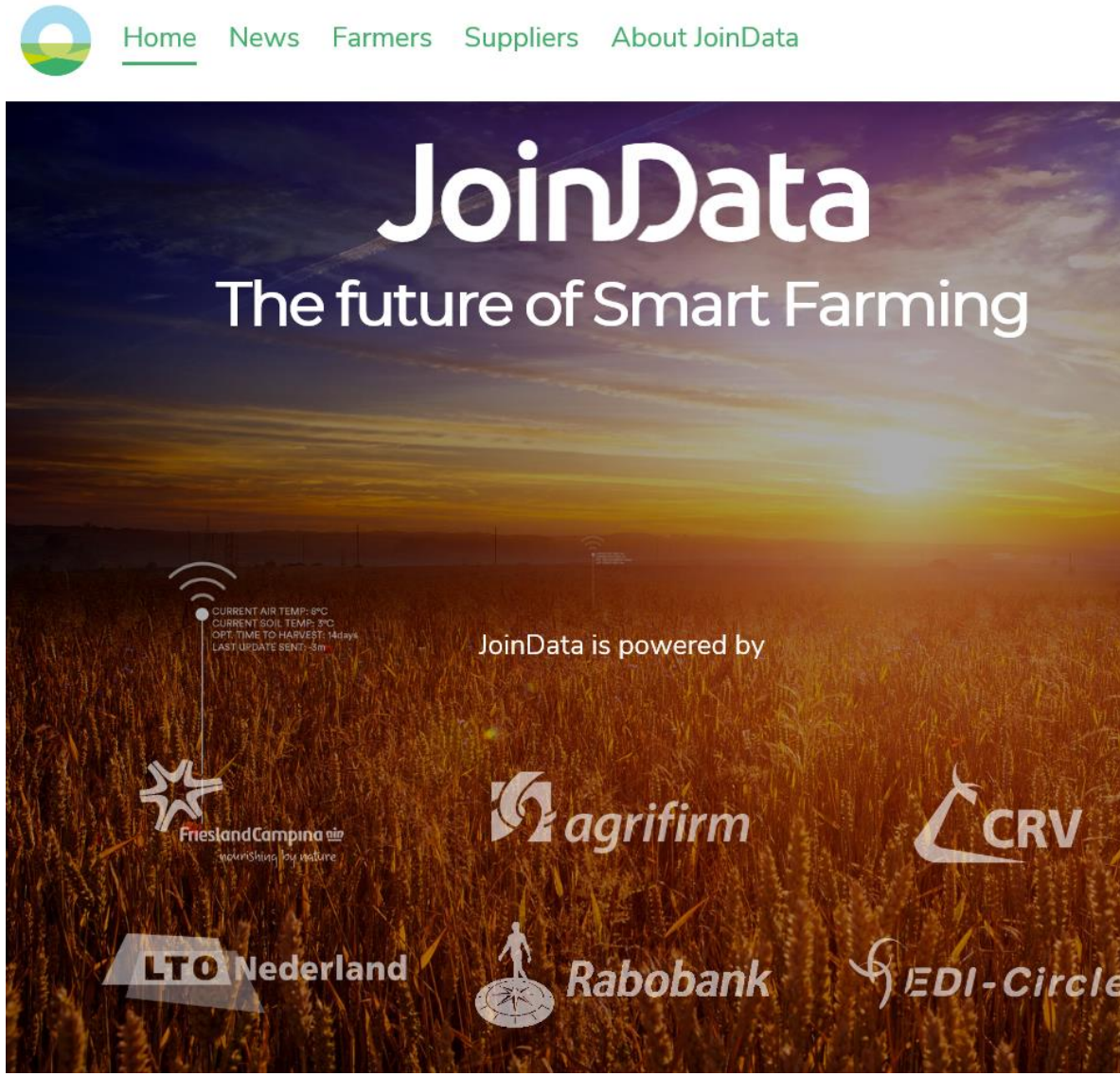


ORIGIN OF JOINDATA: TRANSACTION & SENSOR

SENSOR DATA

Smart Dairy Farming

- 5 years Friesland-Campina
- Milking machine producers
- Combine with milk control
  - Tank milk
  - Milk per cow: CRV
- Data Broker tool in Joindata



ORIGIN OF JOINDATA: TRANSACTION & SENSOR

TRANSACTIONS

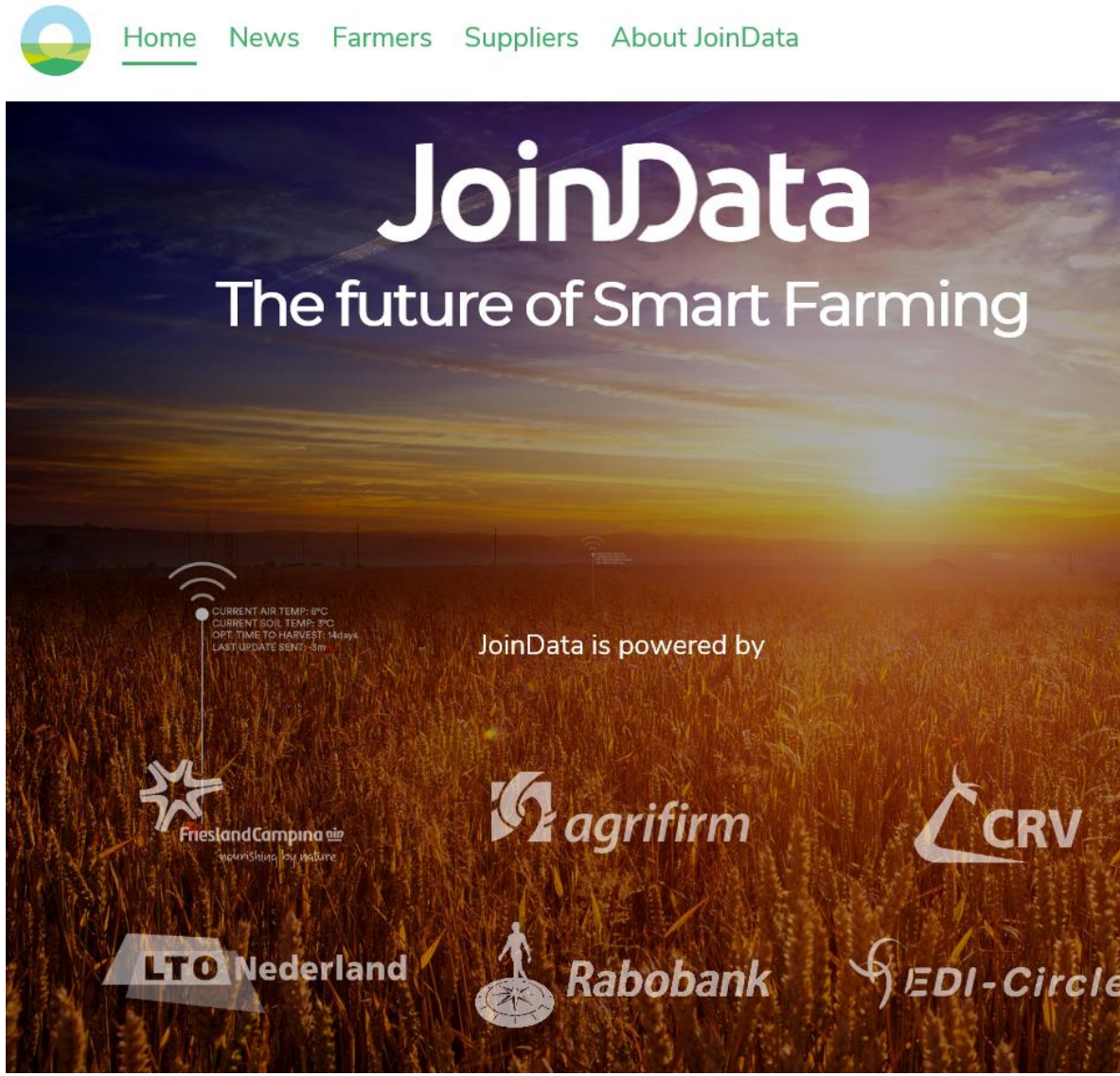
Edi Circle

- 15 years, accountant platform
- Low cost, flexible
- >100 companies (most farmers)

Kringloopwijzer (nutrient balance)

- 18000 farmers

One authorisation tool



ORIGIN OF JOINDATA: TRANSACTION & SENSOR AUTHORISATION DASHBOARD

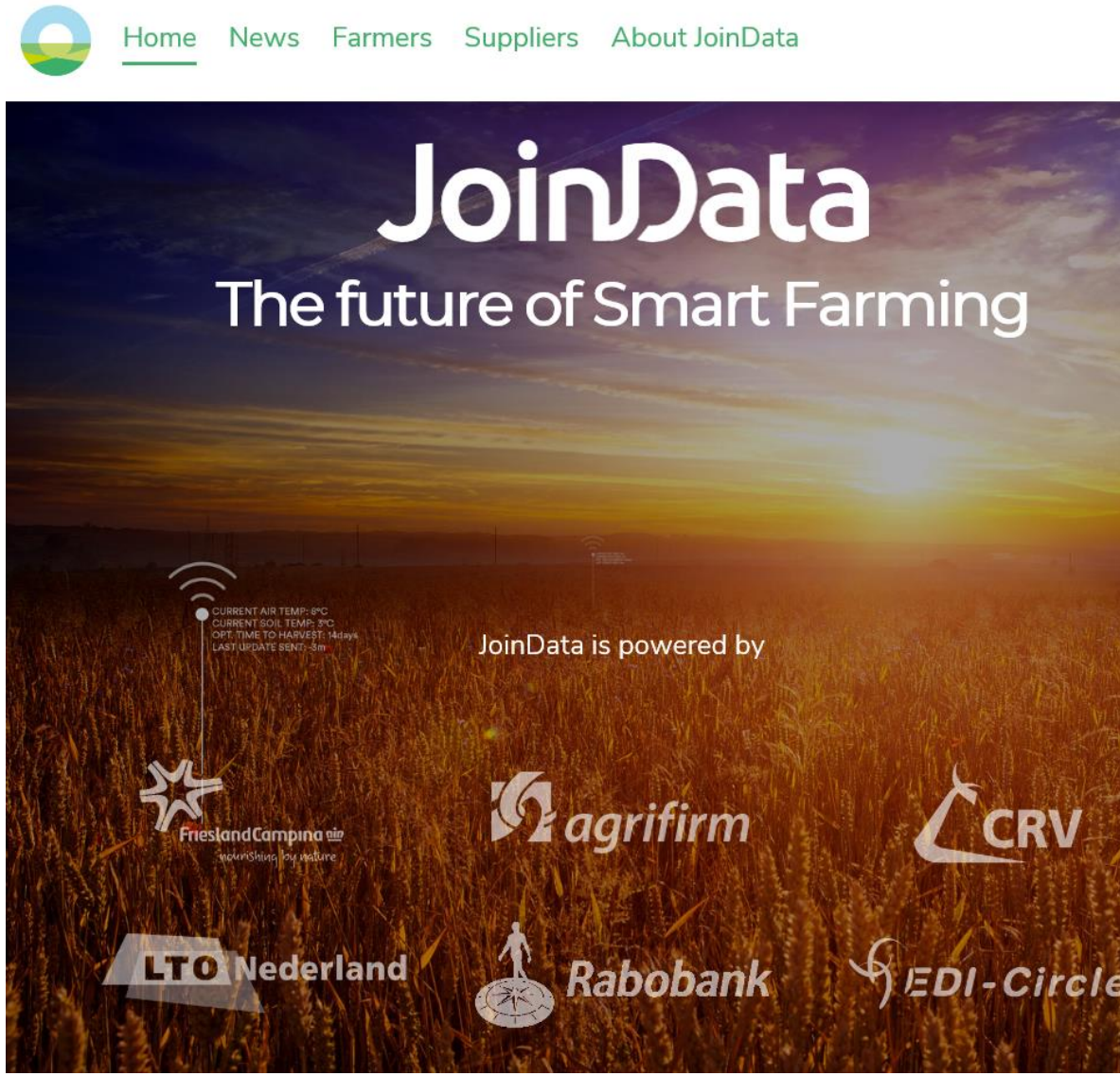
ZLTO 2016, plans:

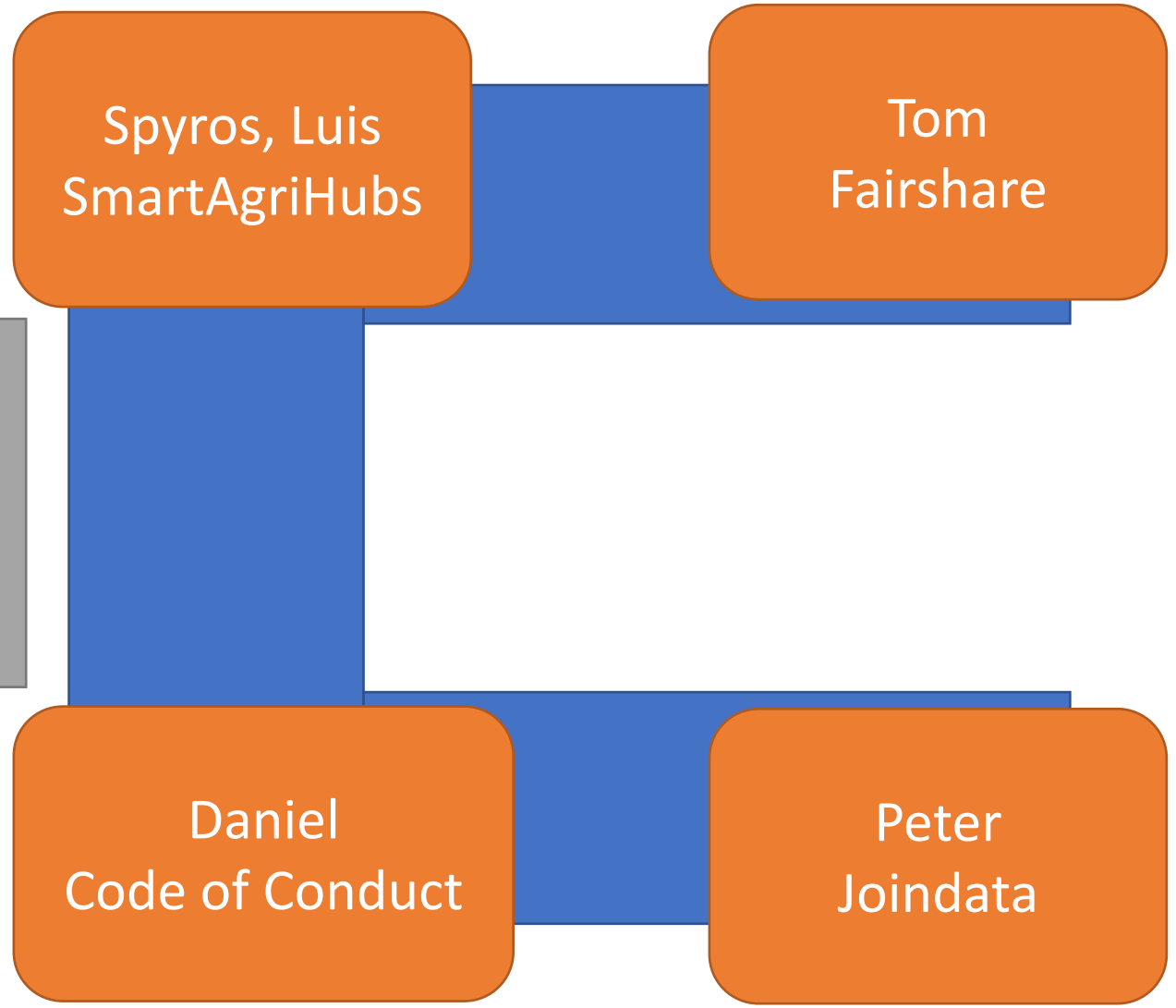
- Continue with existing tool
- Make available for all data

LTO 2017, realised

- Co-founder Joindata
- European context: BE/ILVO
- Audit commission

INDEPENDENT DATA COOP



DATA WORKSHOP:

(Short intro)
-What can YOU do for….
-What chances you see in your network