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FIELD DATA EXCHANGE



The challenge

Agriculture is Essential for Human Existence



Agriculture contributes about 1/4 of global greenhouse gas emissions



Creating new areas for farming reduces natural environments that are necessary for balancing the climate and for biodiversity



Intensive farming is degrading our soils



95% of our food is directly or indirectly produced on our soil



Agriculture produces biofuels for our energy



Agriculture produces textiles for our clothing

Today's Agriculture is Not Sustainable

Regenerative Agriculture is the Solution








WE MUST TRANSITION TO A NATURE-POSITIVE FOOD SYSTEM

In the decades to come, we must **'produce more, with less'** while protecting and restoring ecosystems at the core of all agricultural efforts.

Accessible Agricultural Data

IS ESSENTIAL FOR RESPONSIBLE RESOURCE MANAGEMENT TO ACHIEVE
A NATURE-POSITIVE FOOD SYSTEM

Multidisciplinary Data

-  Plant
-  Machinery
-  Soil
-  Animal
-  Land
-  Weather
-  Farm business



Technology for Scale



Automated
data collection

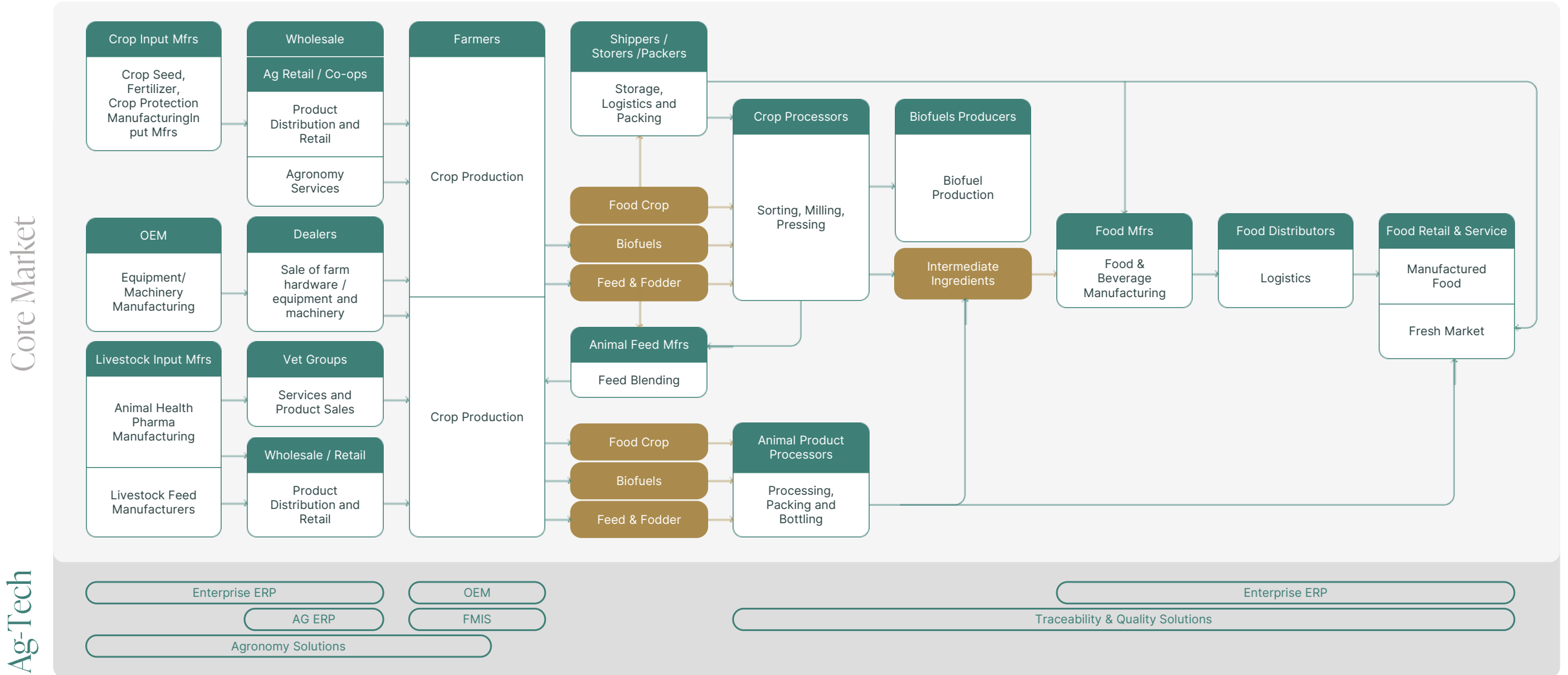


A single source for data
interoperability



Seamless data
aggregation

Agriculture is a complex and fragmented market...



...WITH NUMEROUS DATA FORMATS, LACK OF STANDARDS AND NO QUICK WAYS TO AGGREGATE INFORMATION ACROSS THE INDUSTRY

Varda aggregates supply chain data for collaboration and traceability

OVERCOME CHALLENGES RELATED TO PROLIFERATION OF FORMATS AND SILOS ACROSS THE INDUSTRY



Agriculture is complex and fragmented



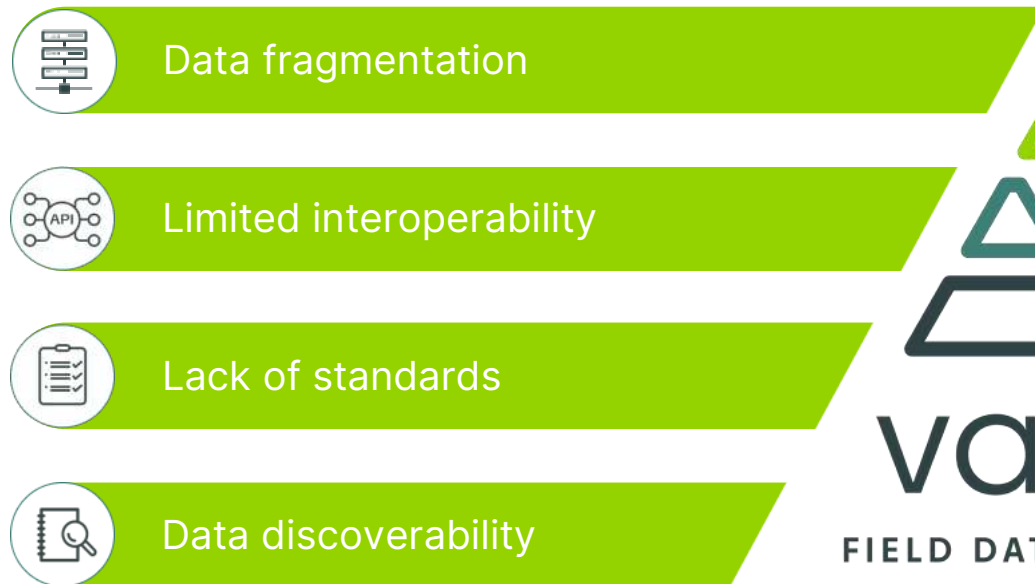
Each step in the chain generates and uses data with the specific processes



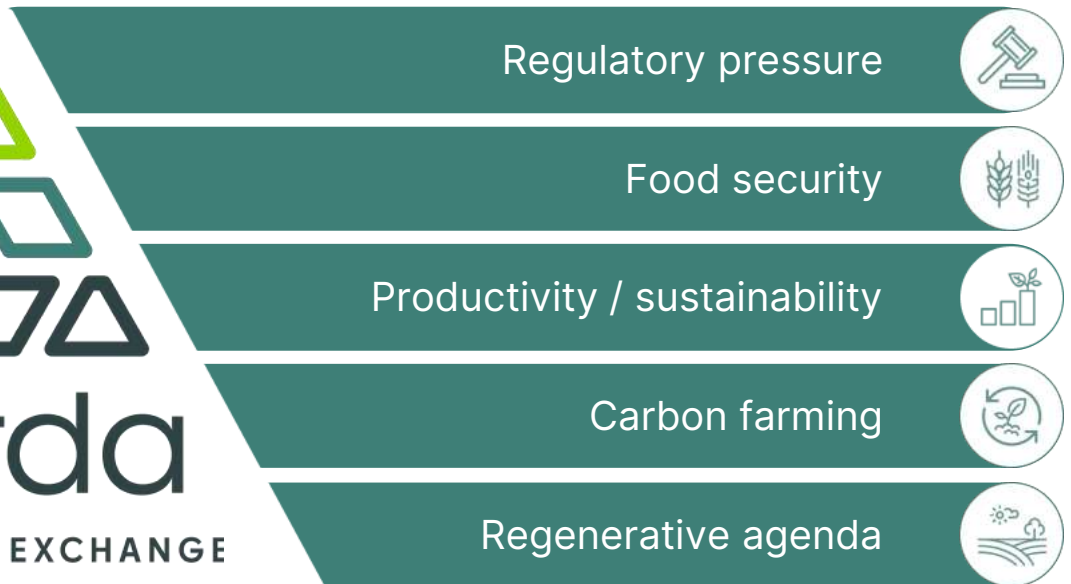
Except for commodity specifications there is no standard for data to move across the supply chain

Varda helps solve data fragmentation and silos

Data support needs



Market demands



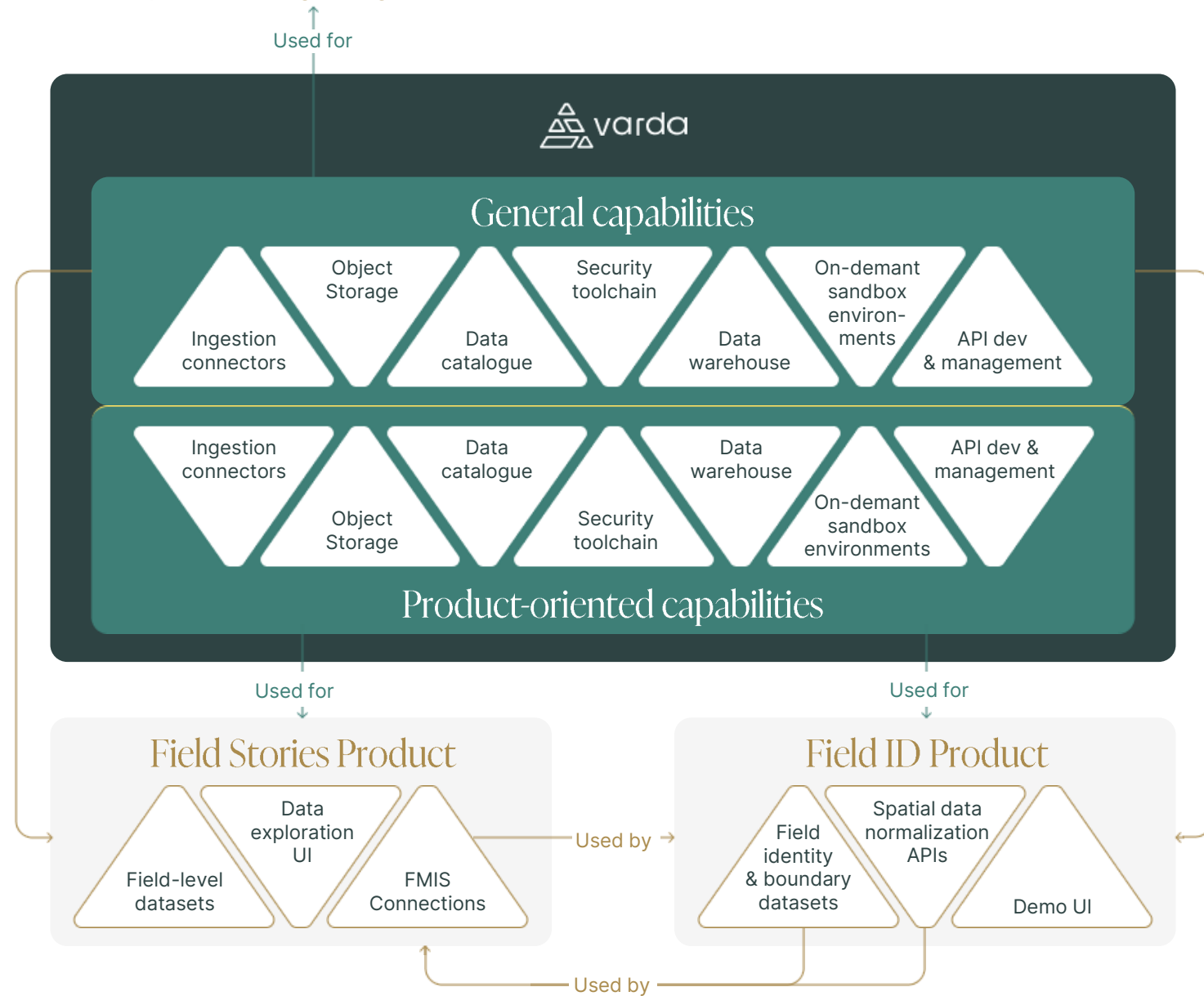
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FIELD DATA EXCHANGE

...TO ACCELERATE THE TRANSITION TOWARDS NATURE-POSITIVE FOOD SYSTEMS

Early-stage data exploration:
non-production, lightweight interfaces

Varda Platform

DATASET CAPABILITIES FOR GENERAL
DATA EXPLORATION AND PRODUCT-
ORIENTED ANALYSIS



Product: Global Field ID

AN API-BASED SYSTEM THAT ASSIGNS A
UNIQUE ID TO EVERY AGRICULTURAL FIELD,
CONNECTING DATA ACROSS THE AG-FOOD
SUPPLY CHAIN



Global Field ID is a “universal language”
for data discovery and exchange
in the ag-food industry

Without Field ID

DATA IS SILOED WITH DIFFERENT FIELD FORMATS AND IDENTIFICATION SYSTEMS ACROSS APPLICATIONS



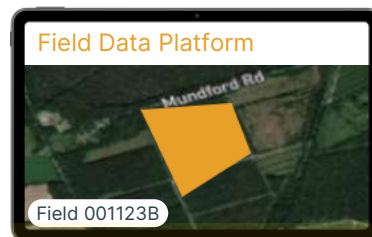
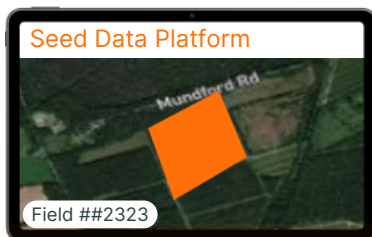
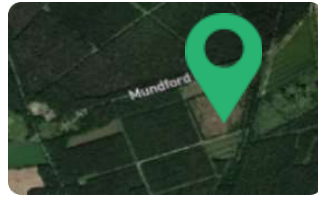
With Field ID

DATA CAN BE SHARED ACROSS THE INDUSTRY AND IS TRACEABLE THROUGH THE SUPPLY CHAIN



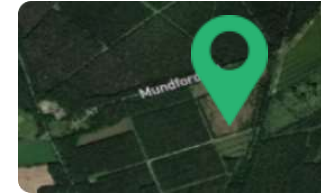
Without Global Field ID

DATA IS SILOED WITH DIFFERENT FIELD FORMATS AND IDENTIFICATION SYSTEMS ACROSS APPLICATIONS



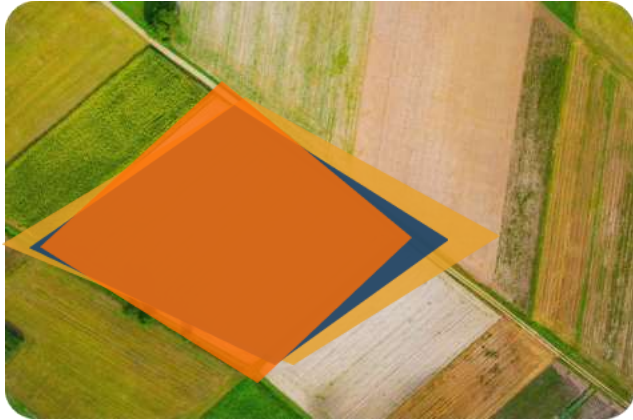
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DATA CAN BE SHARED ACROSS THE INDUSTRY AND IS TRACEABLE THROUGH THE SUPPLY CHAIN



Without Global Field ID

DATA IS SILOED WITH DIFFERENT FIELD FORMATS AND IDENTIFICATION SYSTEMS ACROSS APPLICATIONS



A different boundary for each platform



Different ID for each data source

With Global Field ID

DATA CAN BE SHARED ACROSS THE INDUSTRY AND IS TRACEABLE THROUGH THE SUPPLY CHAIN



Interoperability between platforms



Same ID for each data source

The Problem

MULTIPLE FIELD FORMATS AND IDENTIFICATION SYSTEM
EXIST ACROSS APPLICATIONS

How The Solution Works

GLOBAL FIELD ID CREATES A SINGLE SOURCE OF TRUTH
FOR EVERY AGRICULTURAL LAND PLOT

Global Field ID Can Connect Many Boundary IDs

BOUNDARY IDS ARE BASED ON GEOMETRY AND SPATIAL DELINEATION OF A LAND PARCEL. NEW BOUNDARY IDS ARE CREATED WITHIN A FIELD ID BASED ON TYPES, SEASONS, USERS AND SOURCES.

Different types:
delineated,
fertilizer, harvest
boundary...

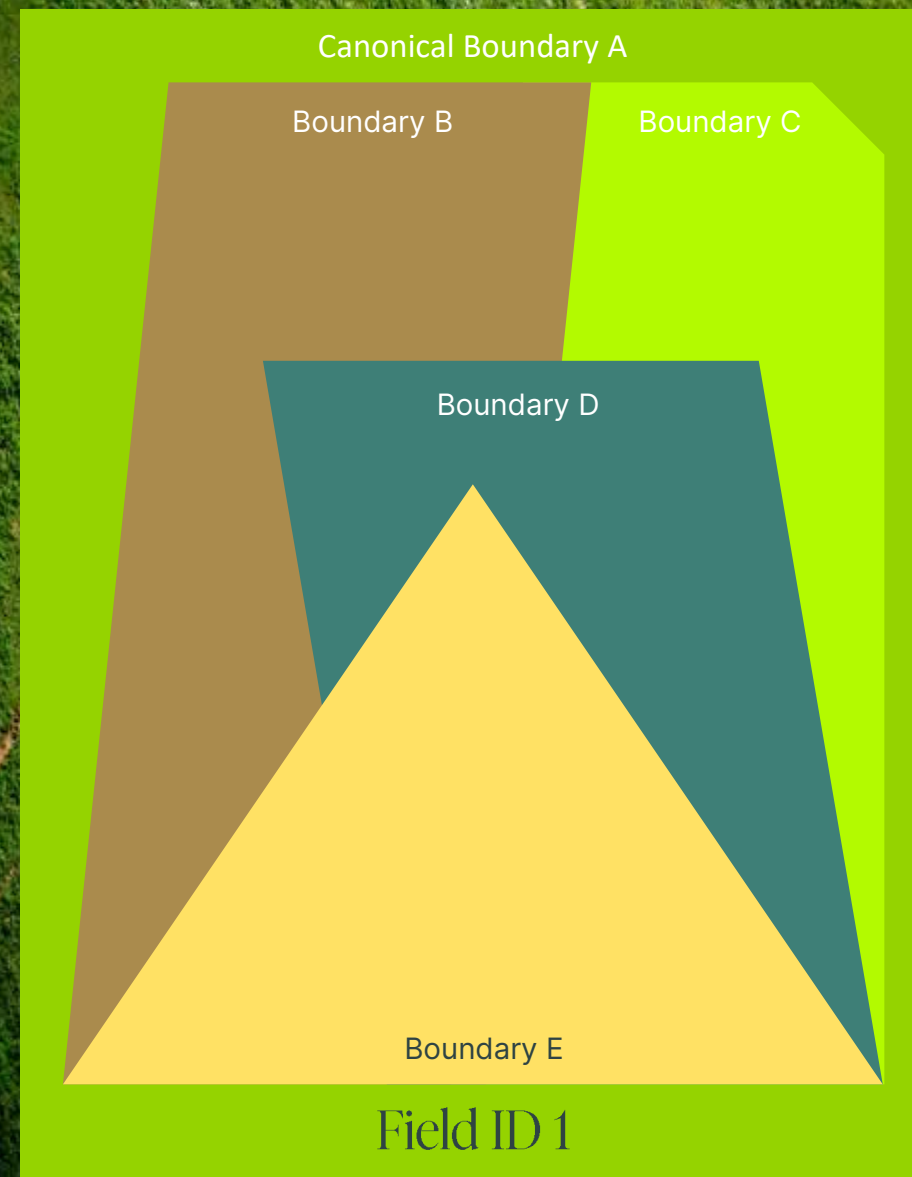
Different times:
harvest 2021,
harvest 2022...

Different users:
user 1 of field 1,
user 2 of field 1...

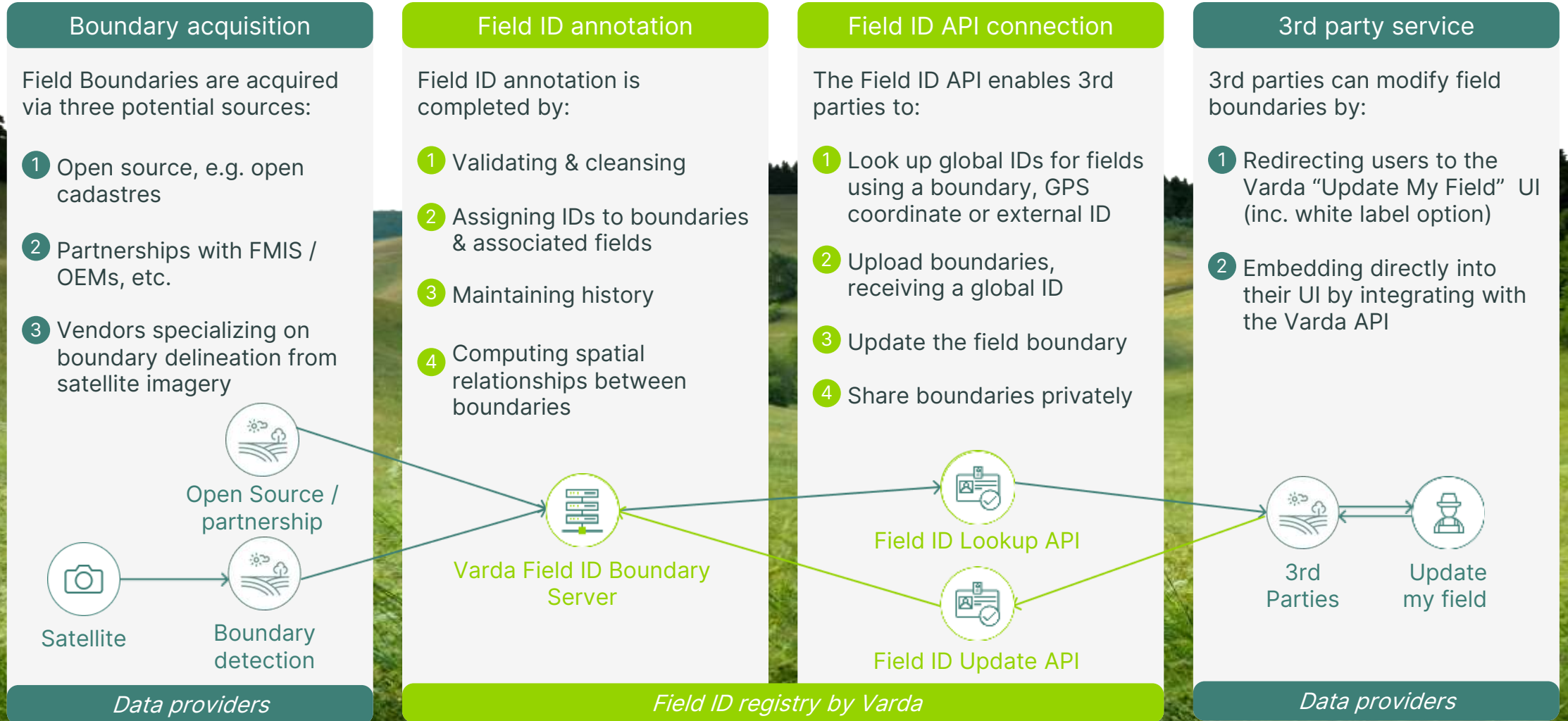
Different sources:
government LPIS
or grower's FMIS

Global Field ID

Global Field ID is not tied tightly to geometry like a Boundary ID. It has a degree of permanence beyond seasons and retains history over time.



The Global Field ID system



Global Field ID benefits

Enable Interoperability

Information about each unique field can be shared among users and digital farming tools for enhanced impact analysis and more efficient use of resources.

Scale Up Carbon Farming

Increase transparency and trust in carbon farming markets and reduce risks of double-counting land-based carbon credits, ultimately expanding financing for farmers' transition to regenerative farming practices.

Enhance Traceability

Establish an uninterrupted chain between ag input, farming practices and land output, helping growers comply with increasingly stringent regulations and consumer demands.

Customers

Customers & value proposition

FIELD ID WILL PROVIDE BENEFITS TO EVERY
SEGMENT IN THE AG-FOOD SUPPLY CHAIN

Ag Input Distributors /Retailers

- Bring together multiple data sources
- Improve interactions with your customers and suppliers

Customers & value proposition

FIELD ID WILL PROVIDE BENEFITS TO EVERY SEGMENT IN THE AG-FOOD SUPPLY CHAIN

Input Manufacturers

- Enhance the connectivity of your operations
- Collaborate more easily with the industry ecosystem
- Improve digital services for farmers

Customers & value proposition

FIELD ID WILL PROVIDE BENEFITS TO EVERY SEGMENT IN THE AG-FOOD SUPPLY CHAIN

Farmers

- Integrate multiple field data sources more easily
- Extract more value from precision farming tools
- Make regenerative farming practices more visible to your customers

Customers & value proposition

FIELD ID WILL PROVIDE BENEFITS TO EVERY SEGMENT IN THE AG-FOOD SUPPLY CHAIN

Food Companies

- Strengthen traceability across your value chain
- Document real impact from your regenerative farming or net-zero programs

Customers & value proposition

FIELD ID WILL PROVIDE BENEFITS TO EVERY SEGMENT IN THE AG-FOOD SUPPLY CHAIN

AgTech

- Share geospatial data within portfolio solutions and with external solution providers
- Enable easy onboarding of new customers
- Streamline data sharing, scalability and monetization of as-applied data

Mission, Vision & Values



Our mission

To accelerate the transition towards a nature-positive food system

Our vision

To make farm and field data the key ingredient of the next “green revolution,” spreading its benefits across the whole ecosystem, from farmer to consumer

Our values

Learning / Impact / Optimism / Respect

People



Varda's AgTech Expert Leadership Team

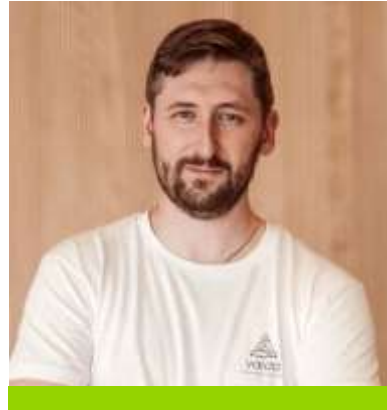


Davide Ceper
CHIEF EXECUTIVE OFFICER



Fernando Grasso Trigo
CHIEF OPERATING OFFICER

Versatile professional with legal and financial background



Andrew Jenkinson
CHIEF TECHNOLOGY OFFICER

Former CTO at Agrimetrics – deep data and technology knowledge



Simone Sala
DIRECTOR OF GLOBAL SOIL & ECOSYSTEM SOLUTIONS

PhD in agri science, expertise in multilateral organizations (FAO)



Deise DallaNora
DIRECTOR BRAZIL & LATAM

Extensive knowledge of agronomy and Brazil's market



Ana Rodríguez
HUMAN RESOURCES MANAGER

Extensive HR experienced in Europe

Varda's AgTech Expert Leadership Team

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Ana Rodríguez

HUMAN RESOURCES MANAGER

Extensive HR experienced in Europe



Varda's organization

DIVERSE TEAM WITH 30+ EMPLOYEES
SPREAD ACROSS 8 DIFFERENT COUNTRIES





Let's work together

TO ACCELERATE THE TRANSITION TO
A NATURE-POSITIVE FOOD SYSTEM



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Agriculture contributes about ¼ of global greenhouse gas emissions

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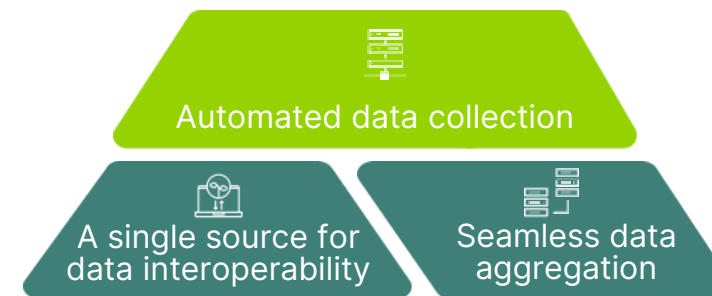
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