

agmatix

Digital Nutrition Platform
CPCN 2021





Agenda

- agmatix company
- agmatix Digital Nutrition Platform - Crop Advisor (CA)
- CA – General flow
- CA - Live demo
- 2022 - Future features
- Questions



At a Glance

Agmatix is developing tools that allow the standardization of agronomic big data into actionable insights.

These tools address various pain points faced by Ag professionals, such as managing agronomy research trials, optimizing nutrients for growers at the field level, or enabling downstream suppliers to gain visibility and tracking of sustainability metrics of their sourced goods.

The overarching core between all of our tools is high grade agronomic data, which are standardized and harmonized using AI and advanced ontologies developed in-house.



Agro-Tech Company



Founded by ICL 2020



Digitizing Agronomic Research to actions at farm level



Core tech data Science



Agronomy Knowhow



~50 FTE's



Developing Leading Digital Field Trials' Technology

Our solution allows customers to **aggregate, standardize, enrich** and **analyze** data from agronomic research and field trials and transform it into **actionable insights** and **decision support systems** for agro professionals to use.

Core Tech:

Axiom – Our core technology was developed to automatically ingest, standardize and curate agronomic data at scale.

Product Modules & Capabilities:

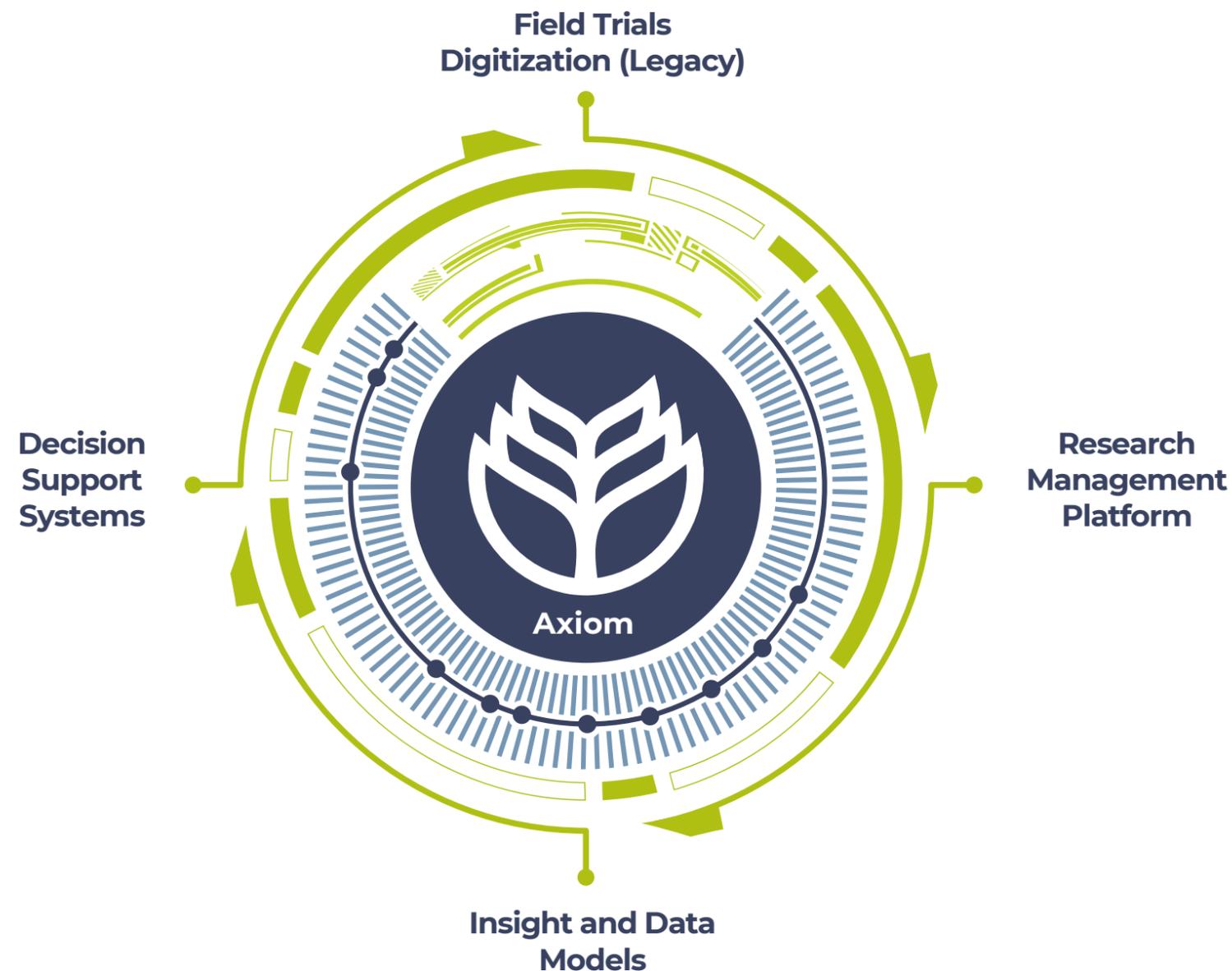
Field Trials' Digitization – automatically ingest and standardized legacy data from field trials and experimentation

Research Management Platform– digitally manage field trials from A to Z including data collection and analysis

Insights & Models – Self analysis tool and advance ML models derived from the field trials and experimentation data.

Decision Support Systems – Our crop advisor tool enables the translation of insights into actual DSS's for agro professionals

agmatix Technology for Digital Field Trials



A single engine that drives the agronomic innovation cycle from research and experimental data into real life actions and back, with continual improvements.



Data Quality

Our strategy to leverage data from field trials and agronomic experimentation generates **significant competitive advantages** and **differentiates** agmatix from other agro data solutions in the market (sensors, farm management etc.)

Data Assets sourced from Field Trials and Experimentation

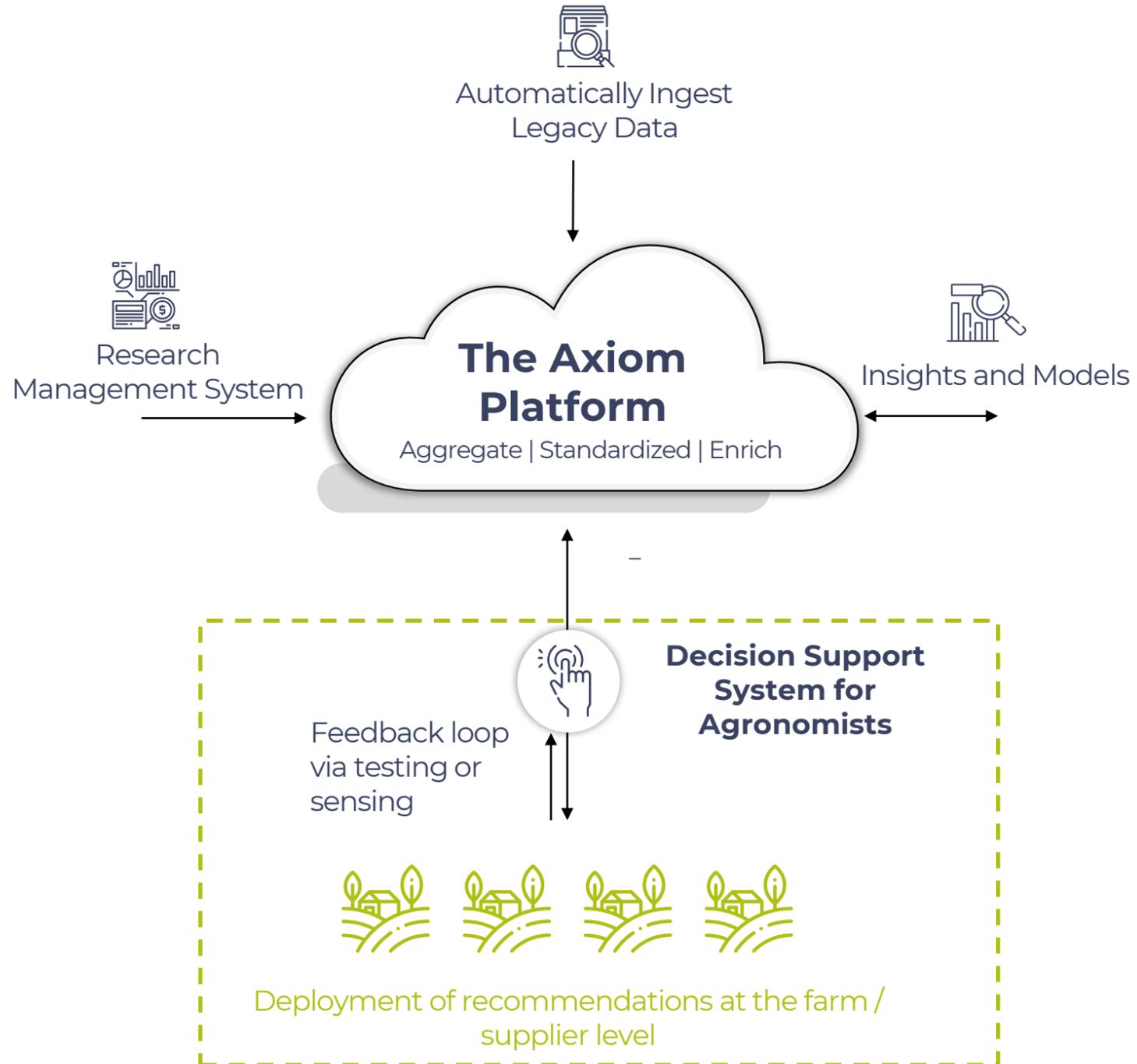


Data from field trials is **of high quality** as it is performed in a **controlled environment** and is **highly comprehensive and complete** (complete = includes all supportive data) which allows our technology to **increase analysis productivity** and return **results faster, and which are more scientifically sound** than other agro data players.



From Research Data To Practices

Translate Standardized Data To Dynamic Crop Models In Your Supply Chain



Developed Technology

Crop Database

- Worldwide researches and field trials
- Localize data
- Removal rate approach
- 12 essential nutrients
- Crop Phenological stages
- Crop variety



Nutritional Algorithm

- Soil type characteristics
- pH
- EC
- Field analysis (soil, water, tissue)
- Alerts and notifications

Reporting Capabilities

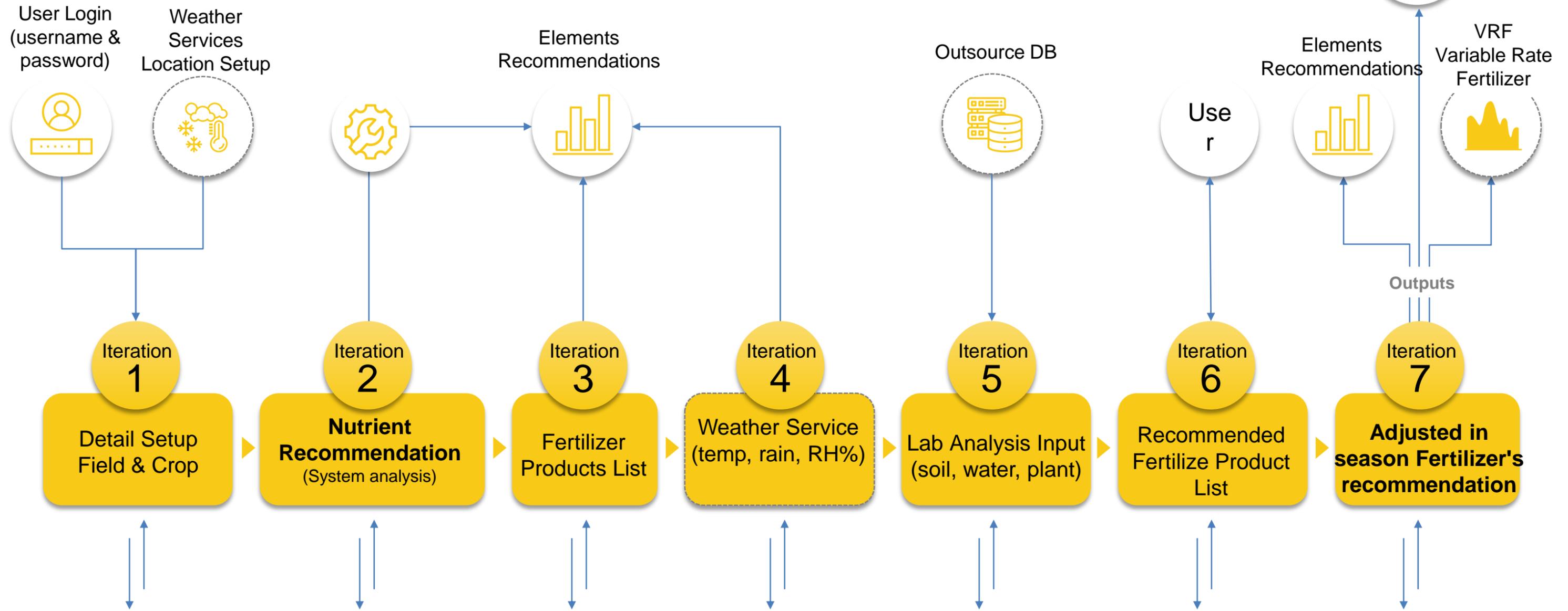
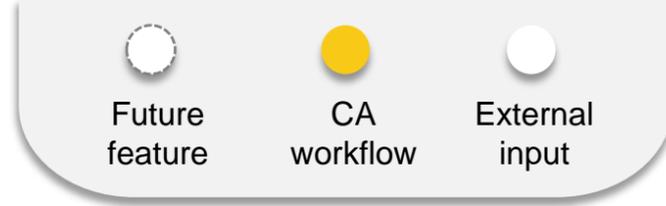
- Summary report
- Summary fertilizer list
- Sustainability Index
- Sharing capabilities

Fertilization Setup

- Nutritional fulfilment
- Quantitative and proportional
- Adjustable and localize fertilizer list



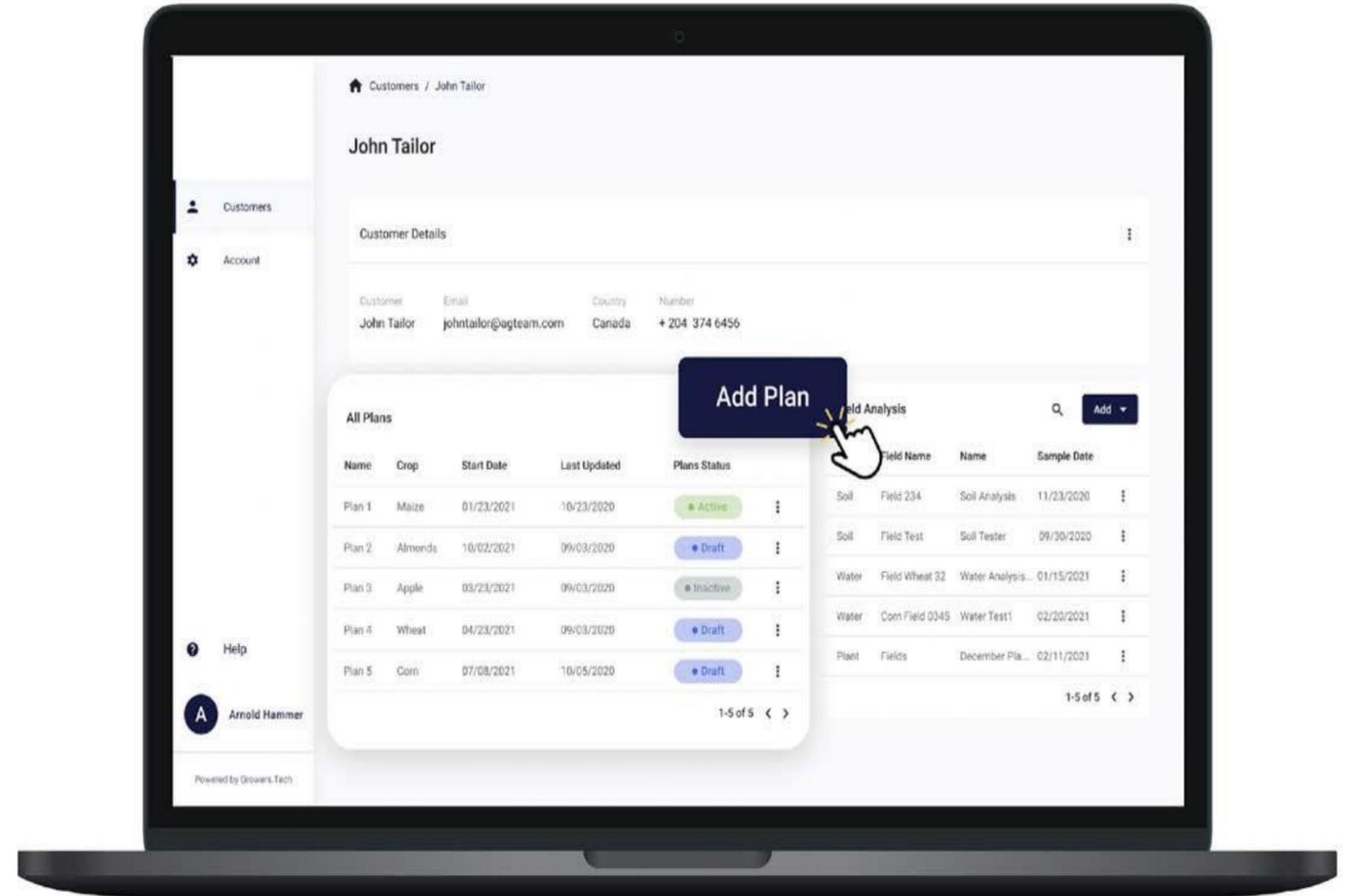
Detailed Architecture



CA Database
 Crops, Removal rate, Harvest index, AVG yield, Analysis combination (soil, water and tissue), Fertilizer's product list, Regulatory standard



Demo





2022 - Future Features

- ❑ Keeping the Axiom data enrichment
- ❑ Maps and geo-location functionalities
- ❑ Soilless applications
- ❑ Control release fertilizers (CRF) prediction
- ❑ Sustainability- Soil health and CFP indexes
- ❑ Weather integration
- ❑ Satellite imagery – MZ; Bio index
- ❑ VRF calculation
- ❑ Machinery integration

Thank You!

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