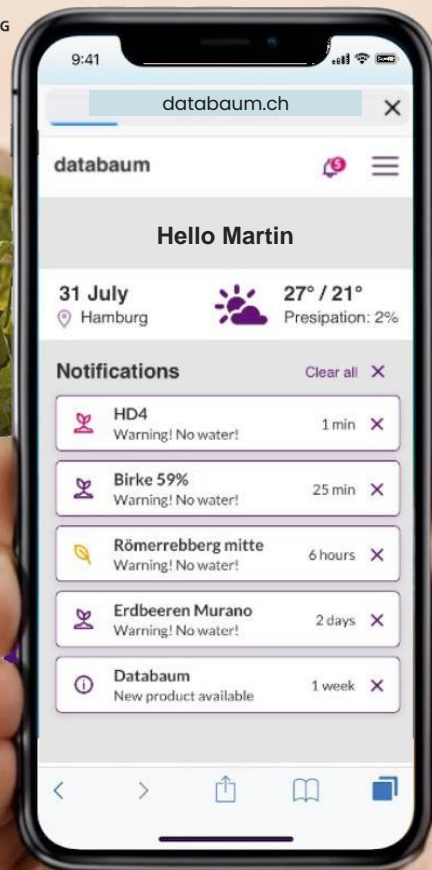




Unlocking the potential for healthy and sustainable farming

databaum combines bioscience and big data with advanced technology to revolutionize soil and plant health



We are facing severe challenges in securing our food supplies

Agriculture requires a massive transformation **NOW** to nourish our next generation

Outlook

By the year

2050

farmers will have to produce more food than has been grown in the whole of history.

Global warming could cause a

30% reduction

in food production in many regions

Status-Quo

European soils

>60% unhealthy

suffering from erosion, compaction, sealing, pollution, desertification and loss of organic carbon, nutrients, water and biodiversity.

Costs of soil degradation












€50 bn per year

in the EU have been estimated by EU authorities.

databaum's aim: A greener tomorrow with 1m tons less CO₂

Resulting from a reduction of pesticides, fertilizer and water usage in agriculture

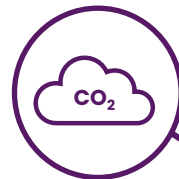
Overview of crops by dabaum focus and reduction potential across key ecological impact areas in EU

Crop	Cultivation area in '000 (ha)	1	CO ₂ reduction in '000 (t)	2	Pesticides usage in '000 (t)	3	Fertilizer usage In '000 (t)	4	Water usage In '000 (l)
 Grape	6.730		334.593		142.202		92.013		100.378
 Apple	4.820		103.152		43.840		23.209		36.103
 Orange	3.930		93.109		32.588		23.277		37.243
 Potato	18.130		21.232		4.802		2.688		13.872
 Wheat	220.760		32.853		7.392		4.107		21.355
 Paddy	165.250		243.154		54.710		54.710		133.734
 Sugarcane	26.350		64.570		15.143		9.686		38.742
 Coffee	11.332		17.836		4.013		2.230		11.594
 Cocoa	11.536		1.412		35		177		1.200
 Corn	205.870		97.886		10.768		10.768		76.351
 Sugar beet	4.400		39.895		12.966		2.992		23.937
Total	679.113		1.049.802		329.457		225.835		494.510

databaum is the solution to solve various ecological key challenges

Through our data, technology and platform we have the opportunity to impact the agriculture sector in the most meaningful areas

1 Carbon reduction



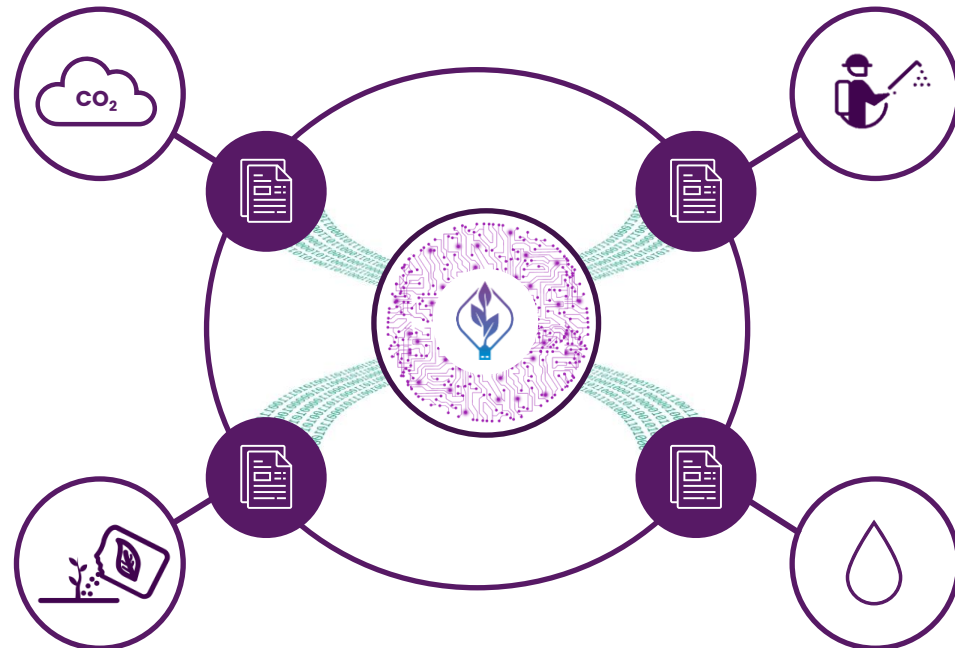
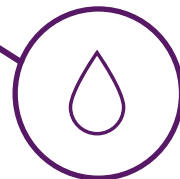
2 Pesticide reduction



3 Fertilizer reduction



4 Irrigation reduction



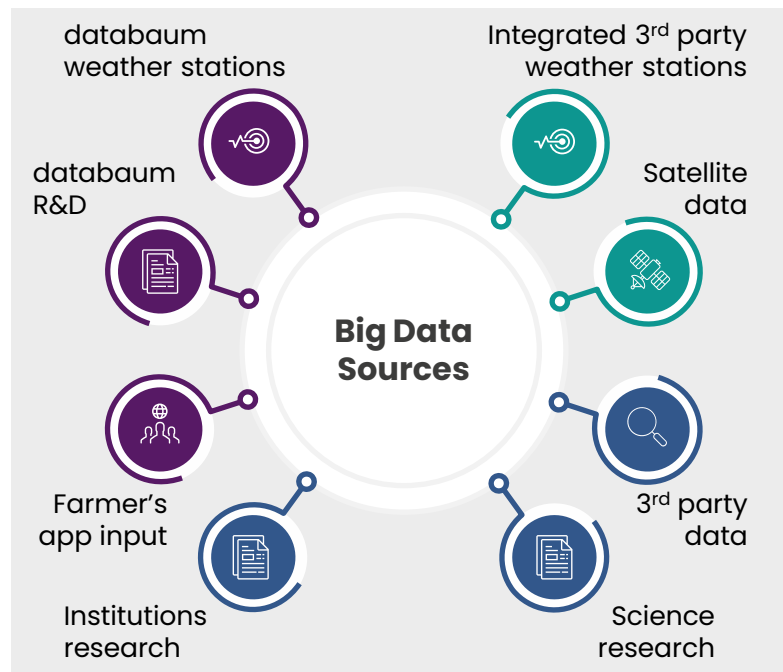
Precise field data is key to generate meaningful insights

databaum notifies farmers about required actions to sustain field health

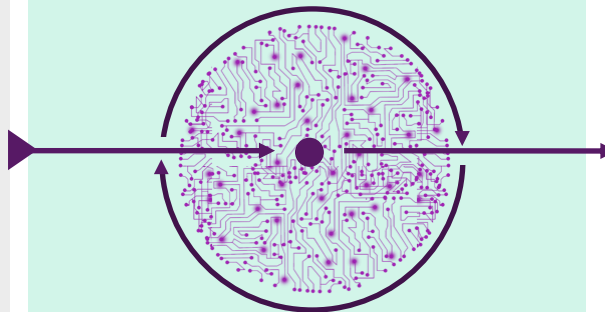
Data input - Comprehensive data collection feeds various databaum algorithms

Data operations and analytics - Making data insightful

Data app - Field/plant mgmt. platform

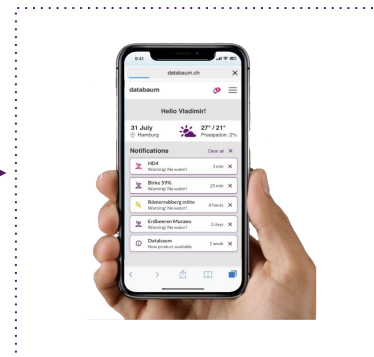


databaum algorithms



- AI algorithms to bring the valuable information
- Precision increases with more high-quality data

databaum app




- Insights are being pushed to app
- Action advice is provided in the app
- App is fully functional and in use already


We developed our own sensors, algorithms and user platform
Key is to have an independent solution to provide farmers an unmatched experience

1 Sensors


Soil sensor
CHF 299




Rain sensor
CHF 388



Air sensor
CHF 388



Leaf sensor
CHF 388





2 Data & Algorithms

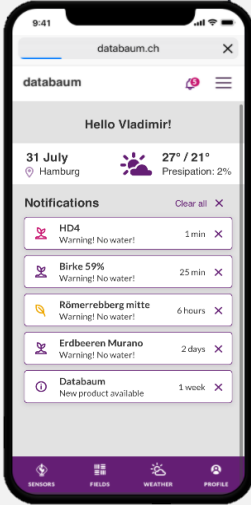
Data points collected
(01.10.2023)

16,797,288

Key algorithms to date

-  **AI disease prediction**
-  **Treatment recommendation**

3 Plattform/ App (SaaS)



Recurring fees

Starter
From CHF 299 p.a.

Professional
From CHF 950 p.a.

Master Farmer
From CHF 2'499 p.a.

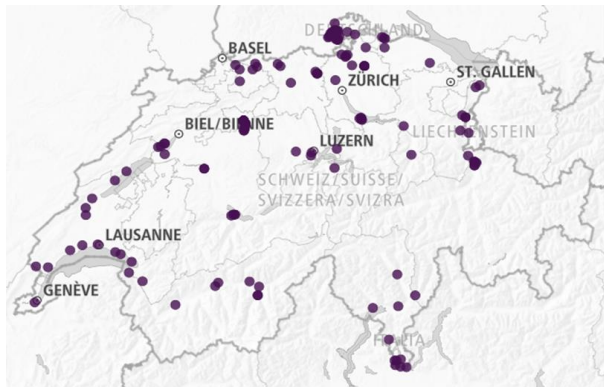
IP – Trademark is registered.

Patent filing (technical character to serve a technical purpose) – Q2, 2024

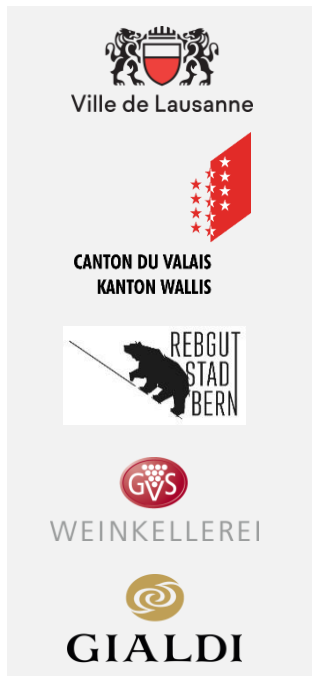
Key disease prediction technology has been validated in 2022

More than 100 farmers are already using our solution in Switzerland our pilot market

Market validated in CH and exempt of customers



- >100 farmers in the Swiss German & Italian parts of CH (~40% of market) became databaum customers in 2023
- Leading plant protection market players are among our customers (e.g. fenaco, stähler)



Disease prediction model for grapevines



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra



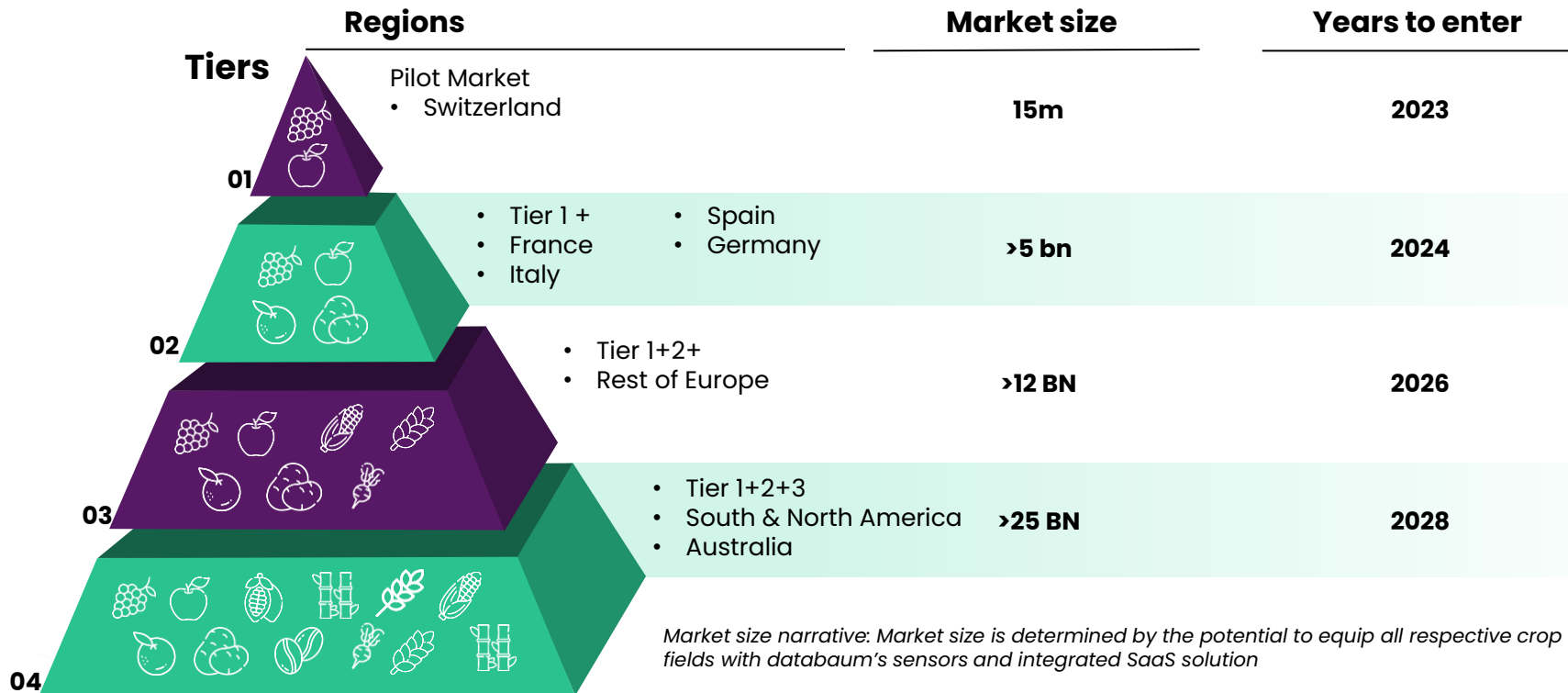
Bundesamt für Landwirtschaft BLW
Office fédéral de l'agriculture OFAG
Ufficio federale dell'agricoltura UFAG
Uffizi federal d'agricultura UFAG

fenaco

- Mechanistic model validated by independent third parties fenaco and WBZW in 2022
- Swiss Federal Agency for Agriculture funded research project for AI prediction validation in cooperation with Agroscope and WBZW
- Research project is running until 2025
- AI model will be validated in 2024 by databaum independently

Now it is time to tap into a vast and growing market

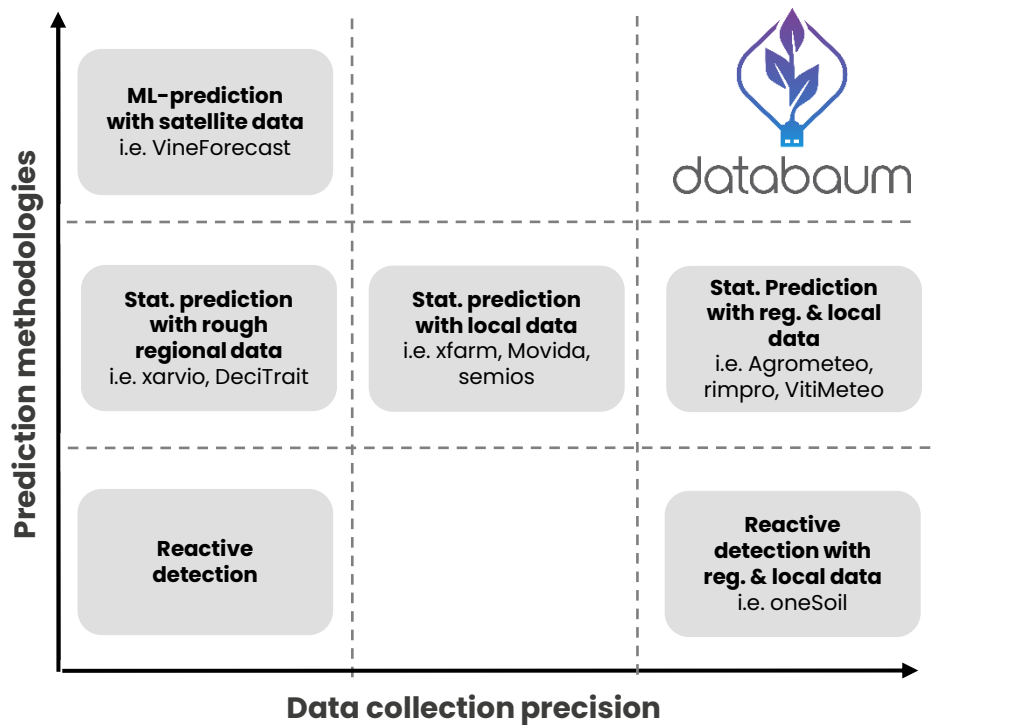
Initiating expansion from Switzerland our pilot market from 2024 onwards



¹ databaum market model. Based on current pricing model

Combining AI with latest research for our customers

databaum is ahead of the competition in Europe



databaum is different

- ✓ We use real-time local field data and AI to maximize prediction precision
- ✓ Only company providing customized disease predictions on plant variety level
- ✓ Only company engaging customers to collect and input data into the application
- ✓ Largest up to date data on plant health (grapes) in the world
- ✓ One of few companies integrating third-party sensors

Comment: Competitors classified based on their main business segment

¹ Mechanistic models are based on parameters that are known about pathogens (e.g. at 19.3°C, releasing of spores takes at least 4.2 hours of uninterrupted leaf wetness).

² We use static models to predict things that rarely change like the amount of rain it takes to wash down a specific pesticide.

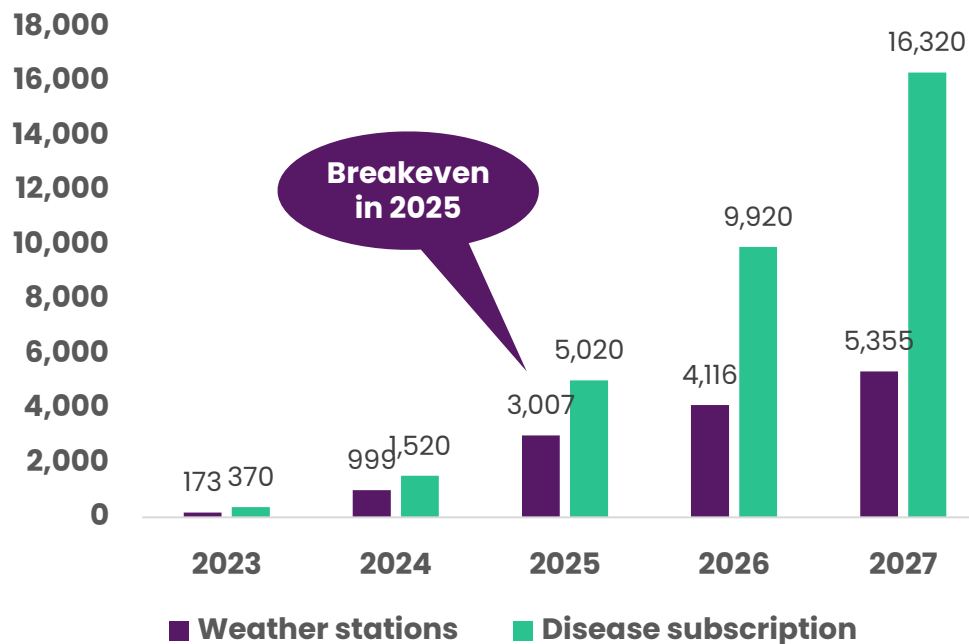
Our sales strategy

Value chain partnering

1. Farming cooperatives (e.g. fenaco)
2. Wholesalers/ PPP producer (e.g. Andermatt, Stähler)
3. Sensor manufacturers (e.g. Sencrop, leovaSMART)
4. Direct sales

Growth forecast:

Number of weather stations and subscriptions sold 2023 – 2027



Meet databaum's key team members

Building a sustainable company with impact for a sustainable world



**Dr. Saurabh
Pandey**

CSO



Johannes Eifert

CTO



Andrew Moore

CEO



**Dr. Luciano
Moffatt**

Biological Math.



**Dr. Dimitra
Bourou**

ML/ AI



Luke Kronenberg

Software Engineer



Management

Key-team



Unlocking the potential for healthy and sustainable farming



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