Our services and solutions for commercial greenhouses

Control what you grow. Forecast your harvest. Sell with confidence. HarvestAi supports commercial greenhouses from production through harvest to sales.



91% average forecasting accuracy for tomatoes	**82%** average forecasting accuracy for peppers	**+12%** production at partner greenhouses	**1 to 4 weeks** forecast horizon for crop growth and yield

Working with customers in Germany, the Netherlands and Canada. Our solutions are in use across tomato, cucumber and pepper greenhouses.

> “Every two percentage points of forecast accuracy add profit worth about 1.7% of our annual revenue, with the same resources.”
>
> Estimate by one of our growers

SERVICES

SERVICE

AI Priority Workshop

Know what to start, what to wait on and what to drop.

AI is everywhere, and the greenhouse sector is flooded with solutions that promise to solve every problem. Our approach starts from your operation, not from a product. In a structured workshop, your team lists where AI could help, across areas such as greenhouse administration, inventory and materials, personnel, crop health and harvest planning.

Each idea is rated on clear criteria: development cost, running cost, speed of implementation, risk, integration with your existing systems and business impact. You leave with a ranked list that separates quick wins from strategic projects and ideas that can wait, so you can focus on what really moves your operation forward, without the fear of missing out.

SERVICE

Data Gathering Setup

Be ready for AI when you decide to use it.

Not every greenhouse needs AI today. But when the time comes, one thing decides success: good data from your own greenhouse. Having data is not the same as having usable data. Years of records often turn out to be handwritten sheets, scattered spreadsheets, inconsistent measurement methods or gaps no one noticed, and much of what makes a greenhouse successful is never written down at all.

We show you how to set up the right measurement methods and collect clean, consistent data from day one. If you already collect data, we check whether it is truly AI-ready and help you close gaps and improve quality. The best time to start professional data collection was yesterday. The second-best time is today.

SERVICE

Performance Analysis

Know what really drove your season.

Was it your growing strategy, or just the weather? We analyze your production data, typically over the last three seasons, and separate the effects of weather, climate, fertigation and your growing decisions. The analysis runs per product and per growth stage, so a strong start does not hide a weak mid-season. You see which strategies and investments actually paid off, for example whether an expensive CO2 upgrade really drove growth, or the sunny weather did. Performance Analysis is available in four forms:

- One-time analysis: a review of your past seasons as a starting point. You learn which seasons and strategies worked best and why.
- Ongoing analysis: your current season compared with history, typically quarterly or once per season. We flag deviations early, while there is still time to adjust.
- Network benchmarking: a comparison of several greenhouses or sites in your network. You learn what your best site does differently and how to bring that to the others.
- Investment tracking: before an investment, we help you define what to measure. Afterwards, we show whether it actually paid off.

SERVICE

Optimal Growing Conditions

Know what to aim for next season.

Where Performance Analysis looks back, Optimal Growing Conditions points the way forward. We look across your past seasons, find the periods when each product performed best, and identify what they had in common: the state of the plant, temperature and light. You get a short grower guide that shows, stage by stage, the conditions to aim for: how to build up the plant early and how to steer it as the season goes on.

- Clear targets per product and growth stage
- Weigh likely yield gains against energy cost, and spend where it pays off most

PRODUCTS

PRODUCTION

Crop Registration App

Replaces paper and Excel, in every team member's language.

A tablet-based app for recording your crops' growth parameters directly in the greenhouse. Measurements are captured in a structured, consistent way, which avoids transcription errors and gaps. The app guides your team to collect the right data, supports multiple languages for international teams, and uploads measurements automatically to the cloud or exports them in your preferred file format. It works for any crop and is adapted to the needs of your greenhouse.

- Compare growth across the current and past seasons, with data-science-based analysis instead of manual spreadsheet work
- Builds the clean data foundation for future AI

HARVEST

Crop Growth and Yield Prediction

Find buyers early, before oversupply hits.

Our AI-powered forecast tells you how much harvestable fruit you can expect in the coming weeks, by variety. That gives you time to act: start negotiating with customers early, find buyers in time when oversupply is coming, and take measures when supply falls short, so you keep your customers happy and maximize profit. The forecast is data-driven, independent of individual experience and always available, even when key people are on vacation or leave the company. It learns from your own greenhouse, so the knowledge stays in your operation. Depending on your setup, forecasts use machine learning alone or combined with computer vision. We start with a free data check, so you know where you stand.

- Around 91% average accuracy for tomatoes and 82% for peppers; accuracy depends on the crop, your data and whether computer vision is used
- Commit volumes early and negotiate from a position of knowledge

HARVEST

Fruit Counting & Ripeness Monitoring

Spot uneven ripening early.

Using computer vision, we analyze videos of your crop rows and turn them into a clear overview of your greenhouse: fruit numbers per row, broken down by ripeness level. You get a consistent, objective picture across the whole greenhouse, without walking the rows to count by hand, and reliable numbers feed into your Crop Growth and Yield Prediction and Total Inventory.

- Plan harvest labor early
- Fruit numbers per row by ripeness level

SALES

Total Inventory

Less fruit sitting too long in cold storage.

A continuous overview of everything you can sell. It combines the harvestable fruit still in your greenhouse with the stock in your cold storage, so your sales team always knows what is available today and in the coming weeks. Combined with Crop Growth and Yield Prediction, it turns production data into a clear picture of your sellable volume.

- Greenhouse and cold storage in one view
- Confirm orders with confidence and plan ahead with your customers

Would a 15-minute conversation be useful?

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