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From the photo to the treatment: one chain for the apple orchard.

Three products, one data set. The technician captures hands free with smart glasses or the phone; dedicated AI models count, measure and flag what they see; the agronomist prescribes with authorised plant protection products; the teams execute and the field record fills itself in, with date, position and photo as proof.

AgriApp · in the field

App for Android phones and smart glasses.

- Photos, video and voice notes with position and time; works offline, uploads when coverage returns
- One tap on the temple of the glasses: both hands stay on the fruit. The phone alone works just as well
- Voice notes transcribed in the technician's language; faces and plates blurred automatically
- Bluetooth instruments: refractometer (Brix), penetrometer, colour meter
- Treatment execution recorded from the field: who, where, when, which product

AgriArchive · analysis and agronomist

AI image analysis and the agronomist's portal.

- Per fruit: colour class, size and weight, ripening stage, defects and visible disease symptoms (apple scab, sooty blotch, bitter pit...) proposed by the model and confirmed by the technician
- Per plot: fruit per plant, yield map before harvest, light and ripening layers, harvest window
- Prescription with the catalogue of authorised products: dose for the plot, pre-harvest interval and re-entry from the label, recommendations, signed prescription
- Map, history, PDF with certified timestamp, Excel exports, 15 interface languages

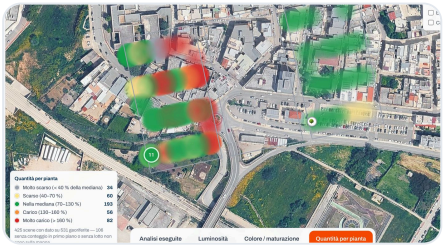
AgriManagement · activities and field record

Work planning and the field record book.

- Prescribed treatments arrive as activities ready to assign: team, plot, date, product and dose
- Execution recorded from the field with position and photo; activities shown on the plot map
- Field record book filled in from the field: earliest harvest date and re-entry time computed per treatment; alerts on expired or revoked products
- Costs per plot and per activity; reports; certified archive



Smart glasses: the technician captures hands free.



Plot map with the fruit-load layer (demo environment).



Apples recognised and tracked along the row.

Rethinkline S.r.l. · Milan, Italy
www.rethinkline.com ·
info@rethinkline.com · page 2/3

Crop protection, step by step.

1
Capture

Walk the row with the glasses on: video of the trees, close-ups of symptoms, a voice note. Position and time on every frame.

2
Analysis

Dedicated models count the fruit, measure size and colour and propose visible symptoms, each with its confidence level. The technician confirms.

3
Prescription

The agronomist prescribes from the portal with authorised products only: dose for the plot, pre-harvest interval and re-entry time from the label, recommendations, signature.

4
Execution

The treatment becomes an activity for the team. The operator records it from the field with product, dose, position and photo.

5
Record and proof

The field record book is filled in automatically; earliest harvest date and re-entry hour are computed; PDF with certified timestamp. At the next visit the system asks what was done.

The AI Box: dedicated servers, local models

Dedicated, high-performance servers

Image, video and audio analysis runs on servers optimised for our models, hosted by Rethinkline in the EU (on-site installation on request). One box per customer: data and models are never mixed with anyone else's.

Local, trained models

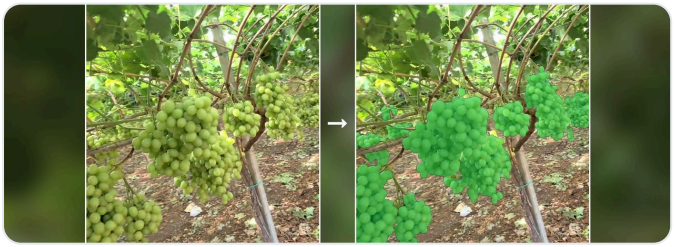
Models trained on the customer's product, varieties and evaluations rather than generic models: fewer hallucinations and errors, and the customer's know-how stays with the customer. No public AI service, no data used to train third-party models.

A closed system, compliance by design

- **GDPR**: data and images inside the customer's perimeter, faces and plates blurred automatically, access logged, full export on request.
- **NIS2**: private encrypted network (VPN) between devices, servers and platform, managed updates, no dependency on third-party online services.
- **AI Act**: dedicated, documented models with a declared reliability level; the model proposes, the person confirms.

Works without internet too

Glasses and phones connect to the box's private network, work offline and upload the data over the closed network.



From the glasses' video to the analysis: every fruit recognised (table grapes, demo).



Colour / ripening layer on the plot map.

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www.rethinkline.com ·
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Technical data and requirements.

ITEM	SPECIFICATION
Capture devices	Android smartphone of the operator (app), or managed devices supplied and configured by Rethinkline: consumer smart glasses (prescription lenses possible), rugged smartphones, smartwatch. Offline queue with automatic upload.
Instruments	Bluetooth refractometer (Brix), penetrometer, colour meter; reading stored next to the photo with operator confirmation. Display reading by camera as a fallback.
Analyses	Fruit count per plant and per plot; size and weight per fruit; colour classes; ripening stage and harvest window; defects and visible disease symptoms per fruit (apple vocabulary includes scab, sooty blotch, flyspeck, bitter pit, russeting, hail and sunburn damage, rot and moulds); light and fruit-load layers on the map; starch index from the iodine test photo (apples).
Crop protection	Catalogue of authorised plant protection products with crops, doses, pre-harvest interval and re-entry from the official label; prescription per plot; field record book; earliest harvest date and re-entry time per treatment; alerts on expired or revoked products.
Analysis hardware	AI Box: NVIDIA-based server dedicated to the customer, hosted by Rethinkline (EU) or installed on site; sized by number of operators and photo/video volume.
Network and security	Private encrypted VPN between devices, AI Box and platform; per-customer data space; roles (admin, manager, technician, viewer) enforced server side; e-mail and password login; access logs.
Portal and outputs	Web portal (browser, no installation): map, overview, history, gallery of findings; PDF reports with certified timestamp; Excel/CSV exports; shared links with expiry; notifications by e-mail, WhatsApp and Telegram.
Languages	15 interface languages; voice notes transcribed in the operator's language and translated for the recipient.
Data retention	24 months online, archive after; full export on request at any time. Data remains the property of the customer.
Deployment	No server and no IT work on the customer's side; managed devices shipped configured; a technician is operational after one hour of training in the field. Remote training per language.

Who it is for

Growers

The state of the plots row by row, treatments done right and recorded, the proof that travels with the fruit.

Agronomists and consultants

Prescribe from the portal with authorised products and the dose for the plot; verify at the next visit what was done.

Cooperatives and producer organisations

One method across many farms: comparable numbers, incoming quality checks, history by grower and variety.

Contact · Vito Martino, founder and managing director · vito.martino@rethinkline.it · www.rethinkline.com