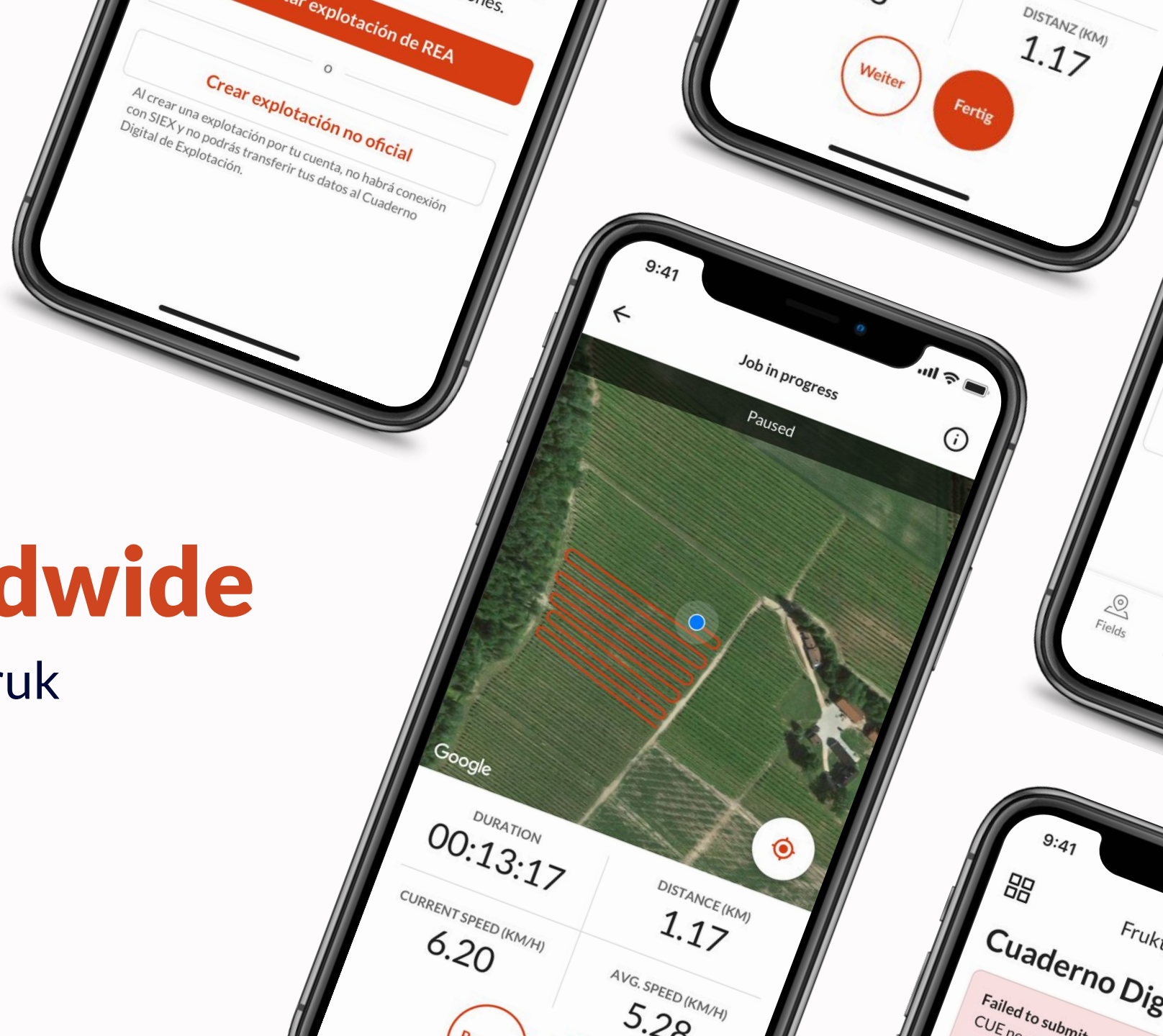




Empowering farmers worldwide

Styringssystem for landbruk

April 2025



Farmable: globalt *"farm management software"*



60,000 farms across the world



Farmable is available in 12 languages

And growing fast



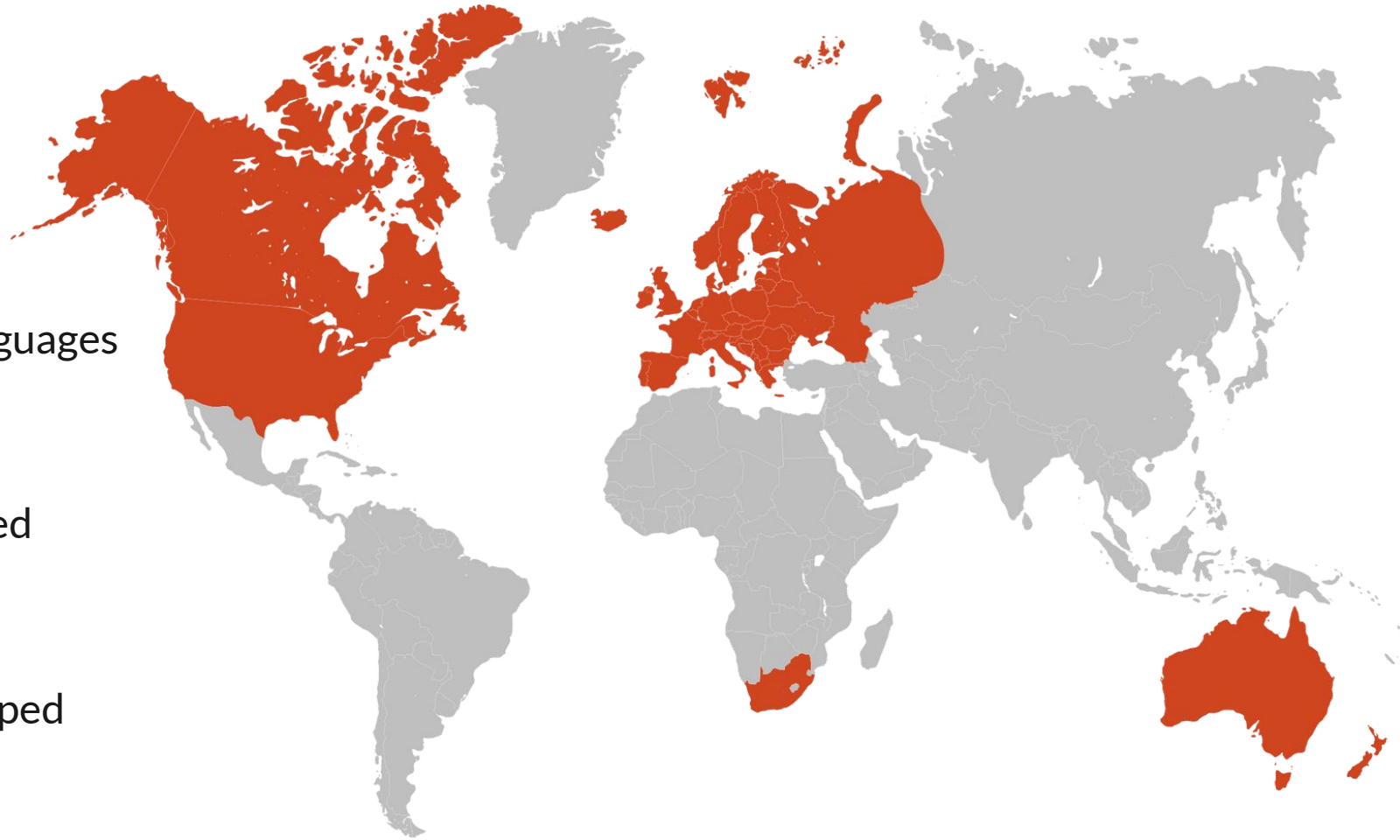
More than 500,000 kms tracked

8 times around the world



More than 150,000 fields mapped

2 million hectares



EU-forskrift besluttet 10. mars 2023

COMMISSION IMPLEMENTING REGULATION (EU) 2023/564

of 10 March 2023

as regards the content and format of the records of plant protection products kept by professional users pursuant to Regulation (EC) No 1107/2009 of the European Parliament and of the Council

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC ⁽¹⁾, and in particular Article 67(4) thereof,

Whereas:

- (1) Pursuant to Article 67(1) of Regulation (EC) No 1107/2009, professional users of plant protection products are to keep records of those products they use, containing the name of the product, the time and the dose of application, the area treated and the crop where the product was used.
- (2) Under Article 67(1) of Regulation (EC) No 1107/2009, professional users are also to make the relevant information available to the competent authority on request. Furthermore, third parties may request the competent authorities to provide access to that information and competent authorities are to provide such access in accordance with applicable national or Union law.
- (3) The Farm to Fork Strategy for a fair, healthy and environmentally-friendly food system ('the Farm to Fork Strategy') ⁽²⁾, adopted by the Commission in 2020, aims to reduce dependency on, and use of, chemical plant protection products. Adequate recording of the use of plant protection products, and national authorities' monitoring and control activities based on such records, are therefore instrumental to the achievement of the Farm to Fork Strategy's objectives.
- (4) There are differences between national regimes as regards the records kept by professional users of plant protection products under Article 67(1) of Regulation (EC) No 1107/2009 and whether they are kept electronically. Therefore, this Regulation establishes detailed rules on the content and format of those records.

Pålegg innen 1. januar 2026:

- Sprøyteligger må være oppdatert senest 30 dager etter bruk.
- Sprøyteligger må lagres i digitalt format.
- Sprøyteligger må kobles til et geografisk område.
- Sprøyteligger må være digitalt tilgjengelig for myndigheter, inkludert EU.

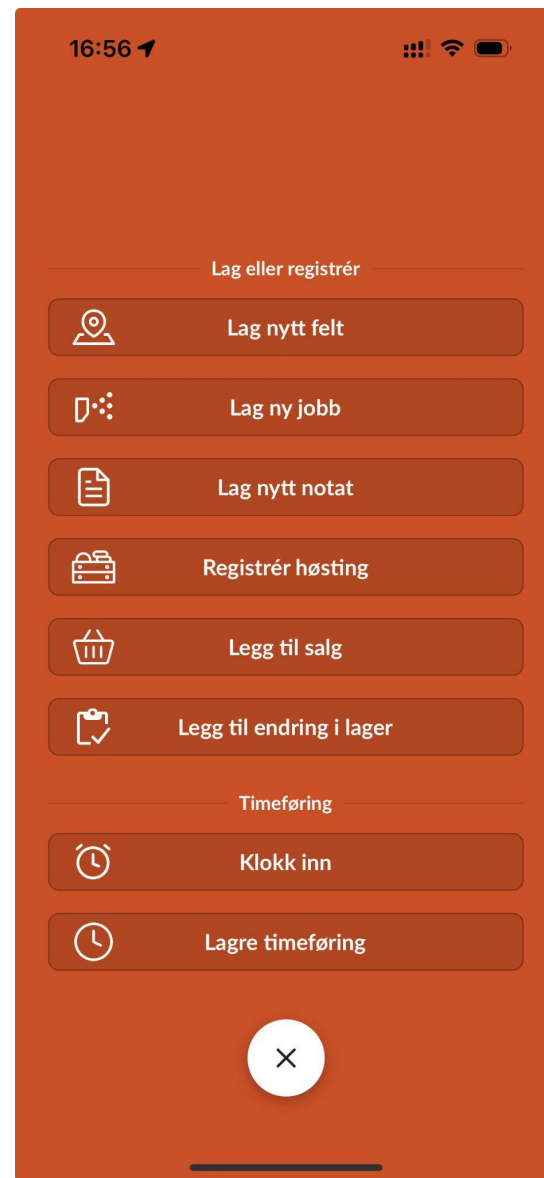
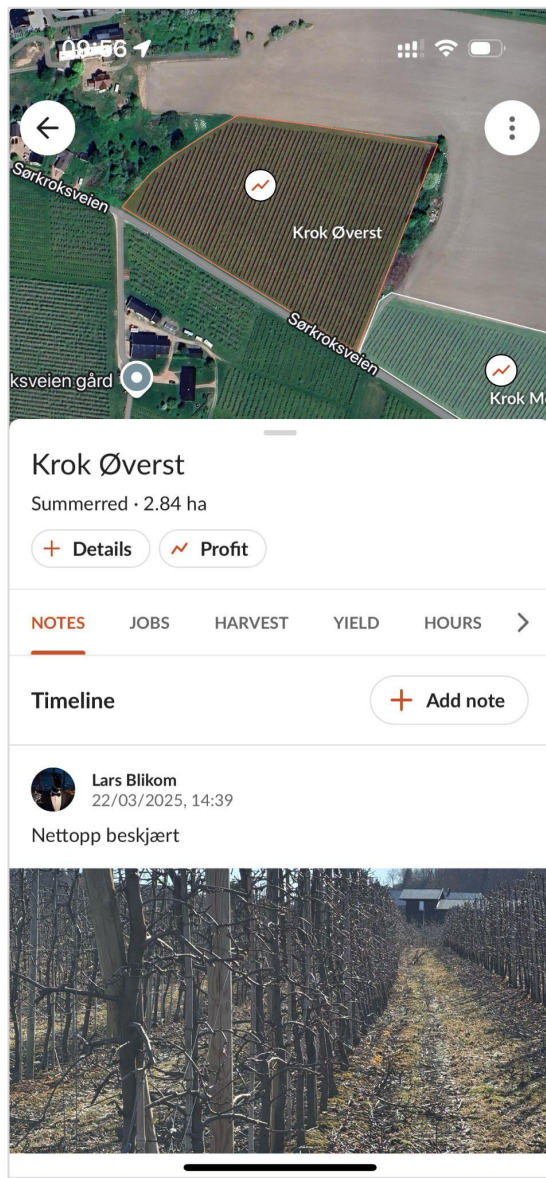
Status implementering av EU's regelverk (okt 2024):

Spania: [Farmable først med kobling til myndighetssystemer i Spania](#)

Sveits: Farmable er integrert med myndighetssystemer siden april 2024.

Østerrike: Farmable lanserer integrasjon til myndigheter i Q4 2024.

Norge: Mattilsynet har påbegynt arbeidet. Mer info forventes tidlig 2025.



10:03

←

Plan job • Spray

×

Causes and treatments

Cause ⓘ

+ Add cause

Treatments ⓘ

+ Add treatment

Product name

✎

Quantity

Units

g / m²

✎

🗑

Next

17:00

←

Sprøyte sammendrag

Produkt	Tank (1)	Totalt
Vann	1,066 l	1,066 l
Nordox 75 WG	11.85 kg	11.85 kg
Totalt	1,078 l	1,078 l

Kommentarer

✎

Ferdig

✎

03 april 2025

Varighet

✎

02:42:18

Distanse (km)

17.22

Snitt-hastighet (km/t)

6.37

Vær

10°C

Temp

1.1 m/s

Vind (SE)

0 mm

Nedbør

Be om rågivervurdering



10:04

←

Register harvest

Date

02/04/2025

dd/mm/yyyy

Field

Krok Øverst

Summerred

Count in

Boxes

Box (size)

IFCO (12 kg)

Amount

Team

Select team(s)

Quality

Save

Save & Print



17:06

←

Lager

Lager

633.4 t

Høstet

255 kg

Lager

627.2 t

Solgt

2024

Sort

Alle

2024

okt. 3, 2024 · Knem Aroma

1 530 kg Rød Aroma

0%

okt. 3, 2024 · Knem Aroma

2 040 kg Elstar

0%

okt. 2, 2024 · Nordbakken

1 275 kg James Grieve

0%

okt. 2, 2024 · Haaøen testfelt 1

2 040 kg Fryd

13%

okt. 2, 2024 · Haaøen testfelt 1

5 355 kg Wur 021

0%

okt. 2, 2024 · Haaøen testfelt 1

2 040 kg Eden

0%

okt. 2, 2024 · Pærehagen

3 060 kg Celina

0%



14:33

←

Register sale

Save

Details

Date

03/04/2025

dd/mm/yyyy

Customer

BAMA

Variety

Batch

Batch

Select variety first

Count in

Boxes

Box (size)

Høstekasse epler (255 kg)

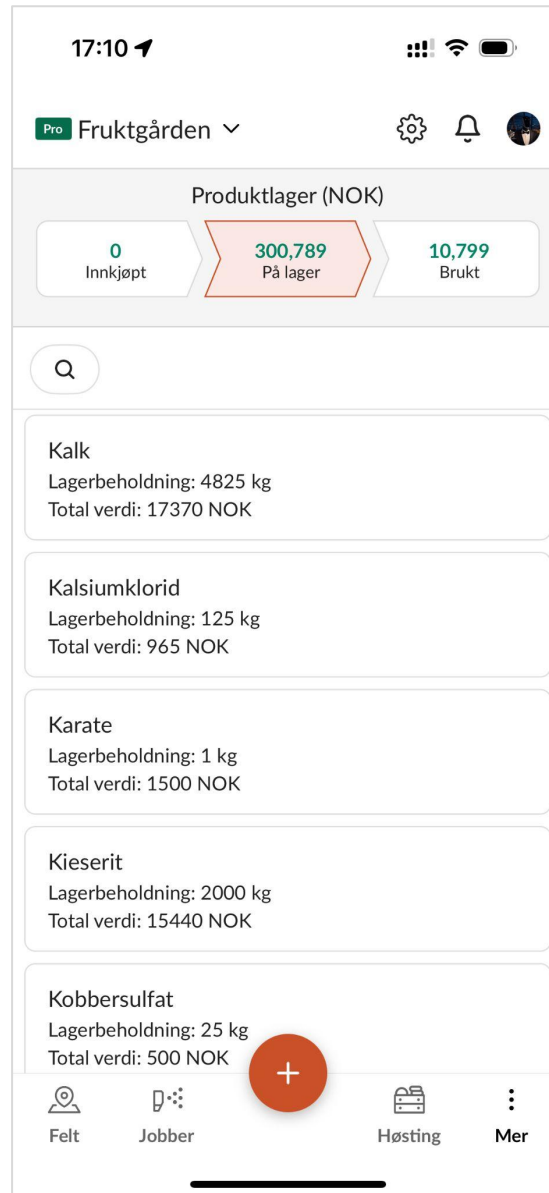
Amount

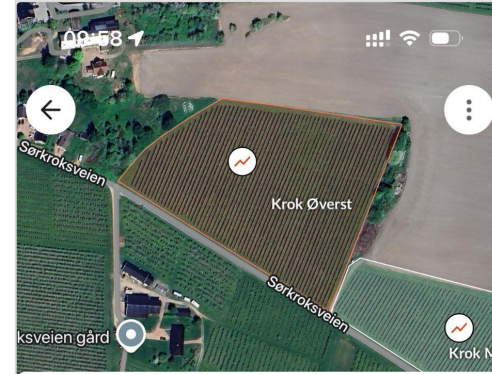
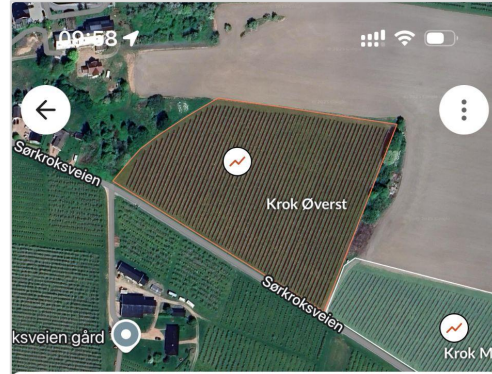
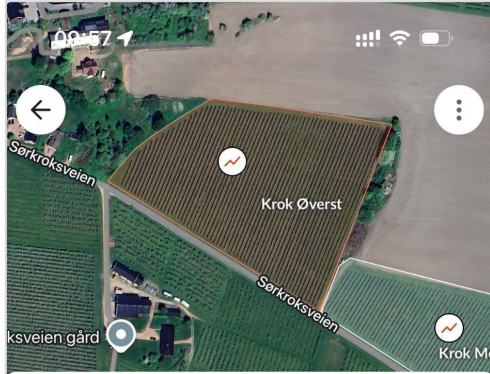
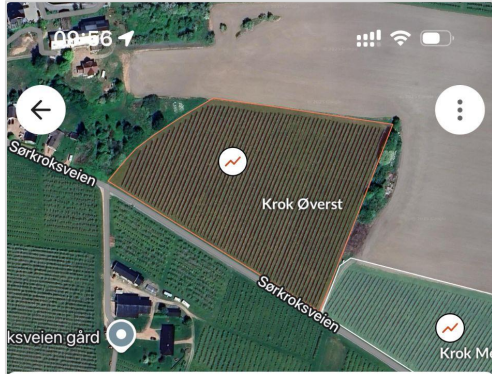
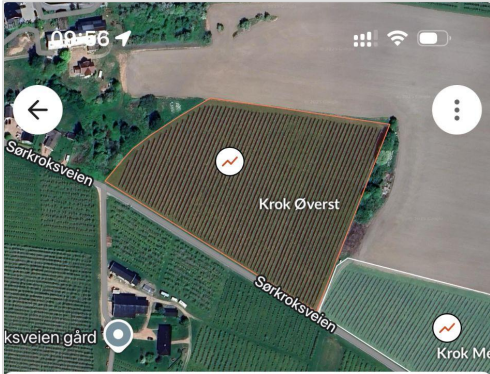
Price

Photo



- + Innkjøp
- Forbruk i jobber
- Kastet
- = Lagerbeholdning
- Lagertelling



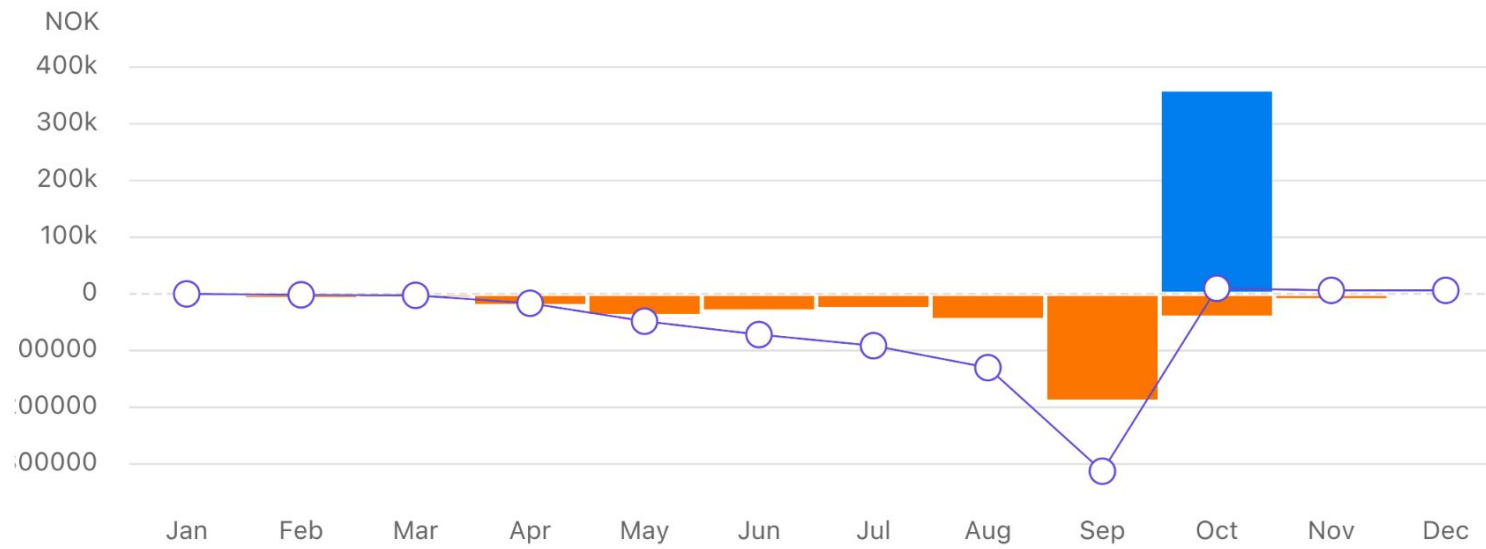




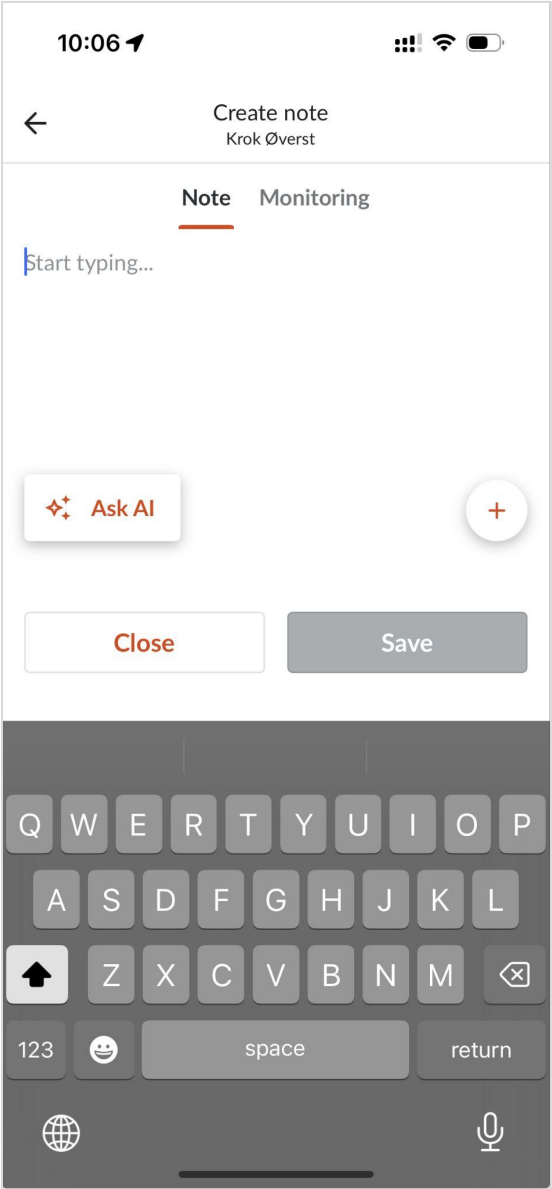
Profit

Profit ⓘ

2024 ▼



Pilot: introduksjon av kunsting intelligens



Bonde i England tok bilde av jordprøvene



Analysis Results (SOIL)

Customer [REDACTED] Distributor HUTCHINSONS - [REDACTED]
Sample Ref [REDACTED] Date Received 15/09/2023 (Date Issued: 19/09/2023)
Sample No [REDACTED]
Crop PEARS (ESTABLISHED)

Analysis	Result	Guideline	Interpretation	Comments
pH	7.2	6.0	Normal	Adequate level. Maintain pH to ensure optimum nutrient nutrient availability and ideal conditions for an active soil biology.
Phosphorus (ppm)	82	26	High	(Index 5.4) Possible interference on availability of Fe,Cu,Zn.
Potassium (ppm)	495	241	High	(Index 4.5) Possible interference on availability of Magnesium.
Magnesium (ppm)	83	120	Low	(Index 2.6) 2 x 4 l/ha YaraVita MAGFLO 300. Timings:see product label.
Calcium (ppm)	4538	2000	Normal	Monitor calcium using fruitlet and fruit analysis.
Sulphur (ppm)	12	10	Normal	Adequate level.
Manganese (ppm)	109	80	Normal	Adequate level.
Copper (ppm)	31.9	4.1	High	Possible interference with the availability of Manganese.
Boron (ppm)	2.07	2.10	Slightly Low	1 l/ha YaraVita BORTRAC 150. Timings: see product label.
Zinc (ppm)	32.8	5.0	High	Possible interference with the availability of Iron.
Molybdenum (ppm)	0.03	0.30	Very Low	Low priority on this crop. Other crops may be affected.
Iron (ppm)	893	200	Normal	Adequate level.
Sodium (ppm)	39	90	Very Low	Not a problem for this crop.
C.E.C. (meq/100g)	25.9	15.0	Normal	Cation Exchange Capacity indicates a soil with a good nutrient holding ability.

Additional Comments

Irrespective of the analytical results applications of YaraVita Stopit and YaraVita Seniphos at 10 l/ha during the season could give benefits for fruit firmness, quality and storeability. For details contact your distributor or phone 01759 302545. ALWAYS REFER TO THE PRODUCT LABEL FOR SPECIFIC ADVICE ON RATES AND TIMINGS BEFORE USING A YARA PRODUCT.
Any indicated Lime Requirement assumes a medium textured soil.
Additional technical bulletins are available at www.lancrop.com

AI response:

“

Based on the soil analysis results, the general plant health for your apple orchard appears to be good, with several nutrients at optimal levels.

However, there are concerns regarding the high levels of potassium and copper, which could potentially interfere with the availability of other nutrients like magnesium and manganese.

Additionally, the low levels of magnesium, sulphur, and molybdenum might predispose the plants to nutrient deficiencies, making them more susceptible to pests and diseases such as apple scab or powdery mildew, especially if environmental conditions are favorable.

Looking at previous jobs in your records, similar issues with nutrient imbalances were noted in 2021 where high potassium levels were treated with applications of magnesium to counteract the imbalance.

For copper, foliar sprays of manganese were used to mitigate its impact on manganese availability. In both cases, treatments involved adjusting soil pH and applying specific nutrient supplements to correct deficiencies.

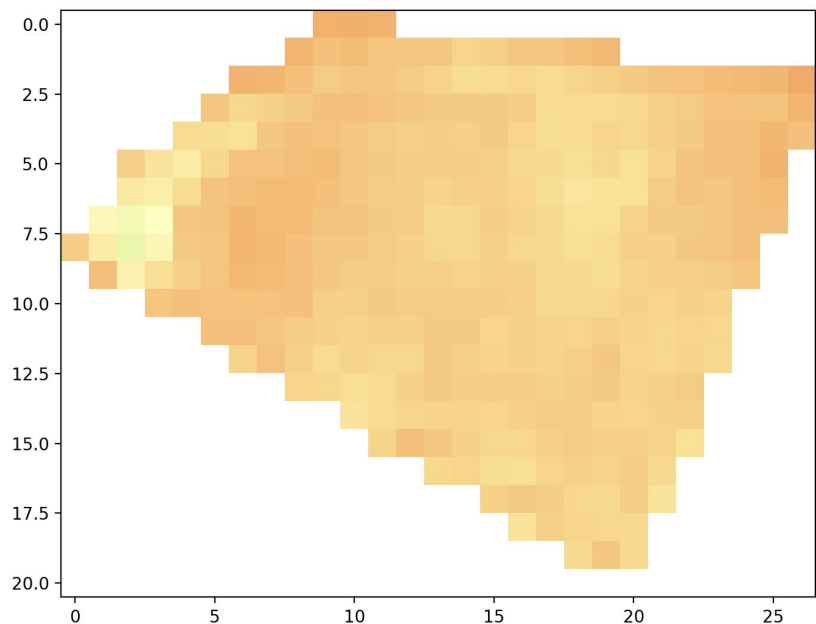
This year, considering the soil test results, similar strategies could be effective. Monitoring for signs of nutrient deficiency and early pest and disease detection will be crucial.

“



Kombinering av data

41 Krok Øverst - Sommerre 28,4 daa			Eple - normal vekst 30-60 cm			Siltig lettleire		
Jordanalyse 2017: pH=5,2 P-Al=7 K-Al=23 KHNO3=69 Ca-Al=52 Mg-Al=3,5 Leire=3 Mold=1								
Beregnet 2024: pH=5,7 K-Al=35								
Forgrøde: Eple - normal vekst 30-6			Avling: 1200			Behov		
						N: 4,4 P: 1,0 K: 6,0 S: 0,2		
						Tilført		
						N: 6,3 P: 1,2 K: 8,8 S: 4,7		
Vår (tidlig)			Blomstring			Sommer		
30 kg Fullgj.® 12-4-18 mikro						Høst		
10 kg Kieseritt			10 kg Multi-K+Mg			10 kg Nitrabor		



Generell plantehelse og potensielle skadedyr og sykdommer:

Basert på NDVI-bildet ser det ut til at plantene i feltet har varierende helse. De lysegrønne og gule områdene indikerer at noen deler av feltet har lavere vegetasjonsindeks, noe som kan tyde på stress eller mangler. Fra feltnotatene ser vi at det har vært rapportert om epleskurv, magnesiummangel og litt meldugg og lus. Disse problemene kan påvirke plantehelsen negativt.

Relasjon til tidligere historie: **Feltet har hatt en jevn økning i avling fra 2017 til 2023,** med en topp i 2023 på 113220 kg. Dette indikerer at feltet har blitt godt vedlikeholdt og at tiltakene som har blitt gjort har vært effektive. **Imidlertid viser notatene at det har vært noen utfordringer som frostskafer, skurv og insektskafer** som må håndteres kontinuerlig.

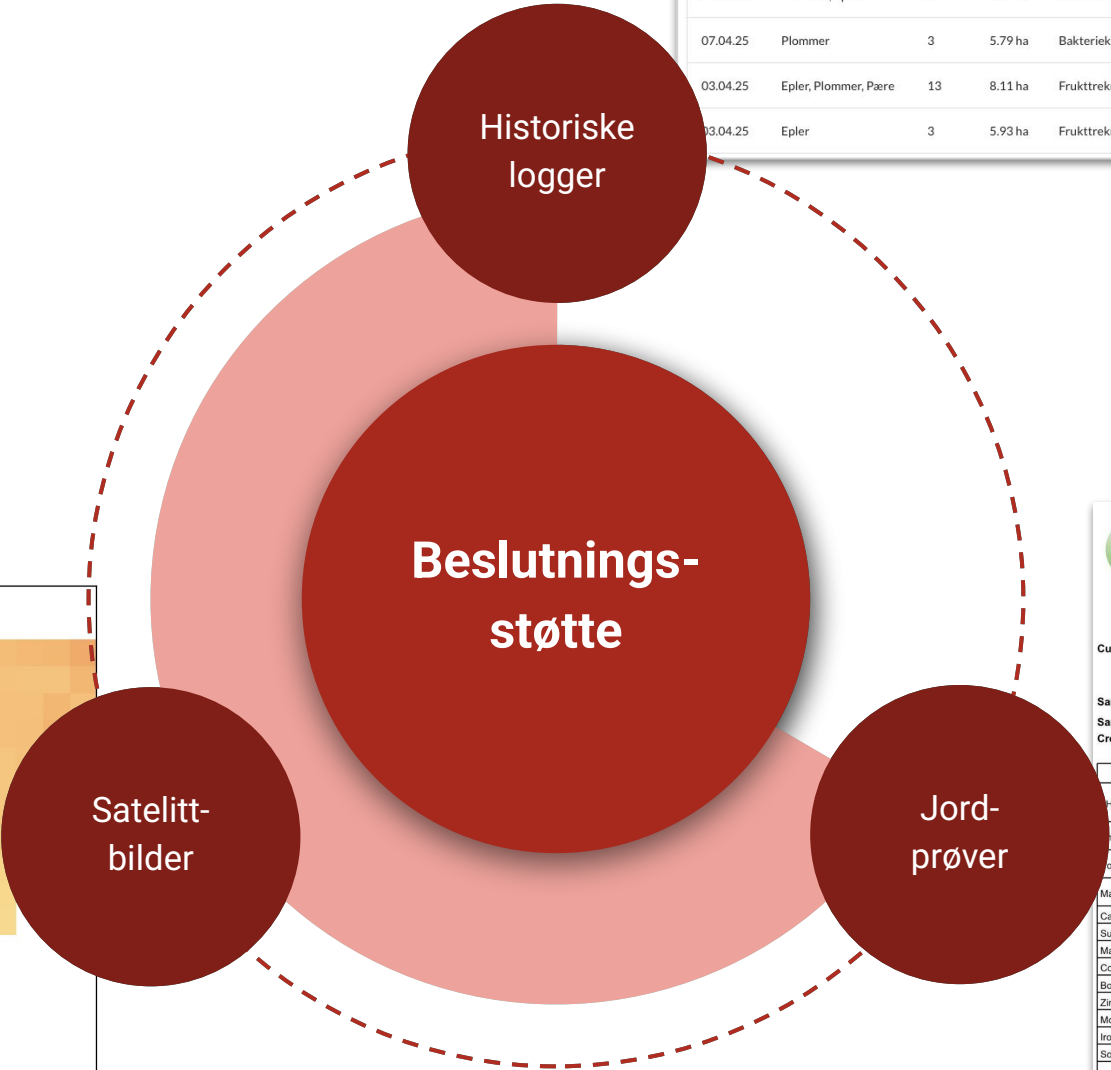
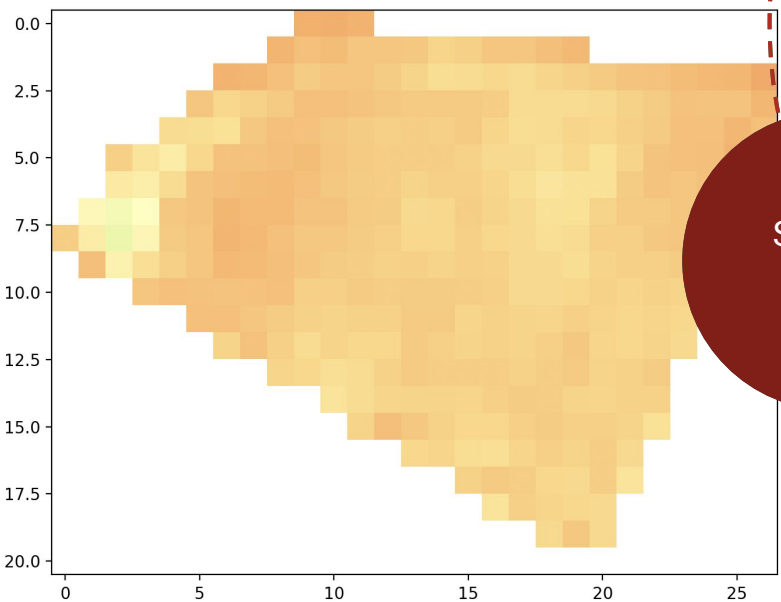
Foreslåtte praksiser for inneværende sesong:

- Næringsforvaltning: **Gitt magnesiummangelen**, bør du fortsette med de anbefalte tiltakene etter avhøsting som inkluderer urea, bittersalt, bortrac, zintrac og Nordox for å korrigere næringsmangler.
- Skadedyrkontroll: Selv om det ikke er mange, bør du ta en runde for å fjerne trær med frukttrekraft. Vurder bruk av **Teppeki mot lus** hvis nødvendig, men vær oppmerksom på miljøpåvirkninger.
- Beskjæring: **Fortsett med beskjæring for å sikre god lysinntrengning** og redusere tett klyngevekst, noe som kan hjelpe mot epleskurv og forbedre fruktstørrelsen.
- Overvåking: Hold et øye med epleskurv ved bruk av **Rimpro** og vurder kjemisk tynning gitt det høye antallet blomsterknopper i år. Ved å følge disse tiltakene, kan du forbedre plantehelsen og potensielt øke avlingen ytterligere, noe som vil være bra for profitten!



Farmable om 2 mnd

Jobs							
Hours							
Harvest							
Employees							
Inventory Movement							
Current Inventory							
Filters							
Export							
Date ↓	Category	Fields	Area	Cause	Treatment	Product	Status ↑
07.04.25	Epler	1	0.73 ha	Frukttrekreft	Spray	Nordox 75 WG	COMPLETED
07.04.25	Plommer, Epler	4	6.69 ha	Frukttrekreft	Spray	Nordox 75 WG	COMPLETED
07.04.25	Plommer	3	5.79 ha	Bakteriekreft	Spray	Nordox 75 WG	COMPLETED
03.04.25	Epler, Plommer, Pære	13	8.11 ha	Frukttrekreft	Spray	Nordox 75 WG	COMPLETED
03.04.25	Epler	3	5.93 ha	Frukttrekreft	Spray	Nordox 75 WG	COMPLETED





Lancrop

Laboratories

HUTCHINSONS

Crop Production Specialists

Analysis Results (SOIL)

Customer

[REDACTED]

Distributor

HUTCHINSONS - [REDACTED]

Sample Ref

[REDACTED]

Date Received

15/09/2023 (Date Issued: 19/09/2023)

Sample No

[REDACTED]

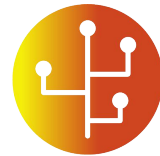
Crop

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Farmable

[Farmable.tech](https://farmable.tech)



Merkelapper kan printes i felt

09:59

←

Registrér salg

Lagre

Detaljer

Dato

16/04/2024

dd/mm/yyyy

Kunde

Engros AS

Sort

Batch

Batch

Velg sort først

Tell i kasser eller kg

Kasser

Kasse (størrelse)

IFCO (3.6 kg)

Antall

Pris

Bilde

Når bonden velger kunde, for eksempel "Engros AS", blir info umiddelbart tilgjengelig.

Data som kan følge QR-koden:

- Live regelverkstatus for gården
- Sprøytelogger
- Høstested og -tidspunkt

API'et er alltid tilgjengelig slik at Partner kan automatisk hente all data direkte inn i egne produksjonssystemer.



Farmable krever ingen eksklusivitet

- Farmable's fokus er å jobbe direkte med bønder om arbeidet i felt.
- Farmable skal ikke lage egne løsninger for resten av verdikjeden, for eksempel pakkerier og logistikk.
- Farmable deler datamodeller og API'er slik at andre aktører kan benytte de.
- Bonden selv eier all data som genereres gjennom bruk av Farmable og styrer hvem som har tilgang.



API åpner for frihet i utvikling for alle aktører

