



Lighting up the future of productive agriculture

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Sustainable Food • Zero Chemicals • Zero Emissions • Zero Till

The Challenge



Weeds compete with crops
& therefore need to be controlled.



£30bn / year spent globally on **herbicides** putting **1 million tonnes** into the environment.



Herbicide resistant weeds reported in 92 101 crops in 72 countries.

Farmers are faced with a choice:

EITHER

- use chemicals;

OR

- increase cost of food production
- increase GHG emissions
- not achieve Net Zero.

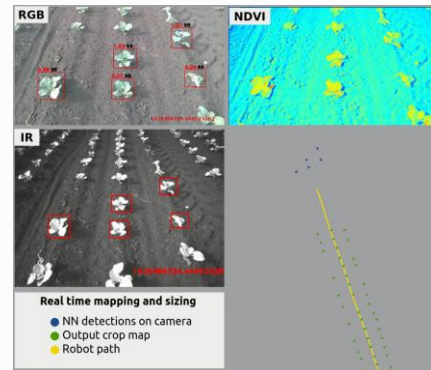


The Solution

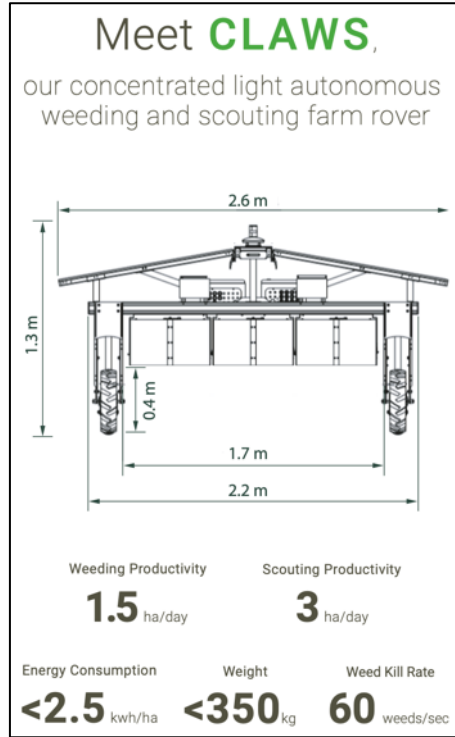
Earth Rover have developed [CLAWS](#).

- **Concentrated**
- **Light**
- **Autonomous**
- **Weeding &**
- **Scouting**

A lightweight, autonomous field robot utilising state of the art image processing, Artificial Intelligence (AI) and GNSS RTK satellite navigation.



The Solution



Precise, efficient, eye-safe

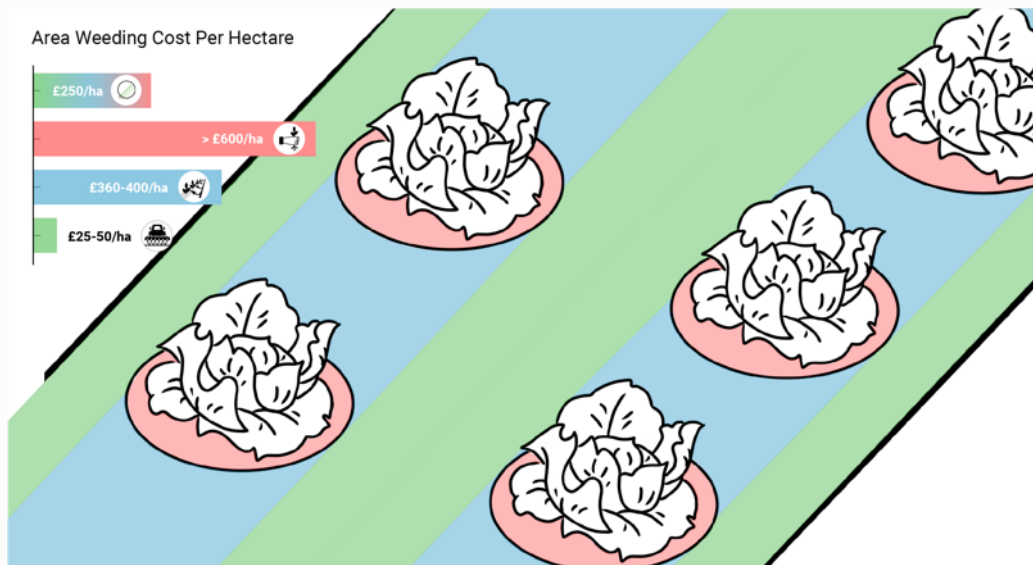


Environmentally friendly – battery
& solar power



Gathers real-time Crop Data

Why are we different?



- ✓ Cost effective, chemical free weeding.
- ✓ No CO2 emissions or risk of rising fuel costs.
- ✓ No manual labour.
- ✓ No mechanical crop damage.
- ✓ Increased operational hours per season.
- ✓ Crop data at per plant level.

Concentrated Light Weed Control



“Lightweeder controls different types of weeds including chemically (ALS) resistant weeds.”

NIAB Independent testing



Figures 3a. A visual comparison of the control achieved against herbicide sensitive (left) and herbicide resistant (right) populations of Italian rye-grass. Figure 3b. A visual comparison of the control achieved against two sizes of Bur chervil, a dicot species.

AI Weed Detection



AI Weed Meristem Detection



Field trials on Lettuce



Targeted Weeds



High Weed Density Testing



Field Trials

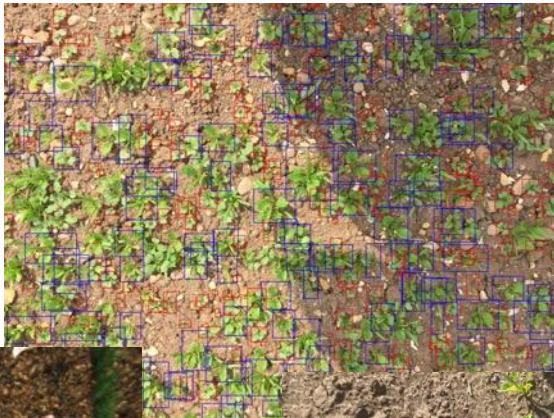


The future potential?

Winter Wheat



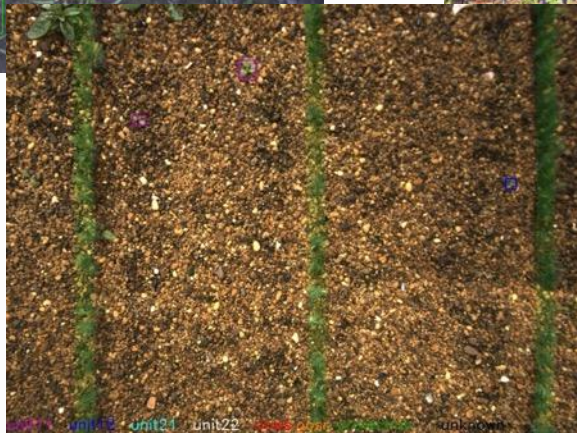
Spinach



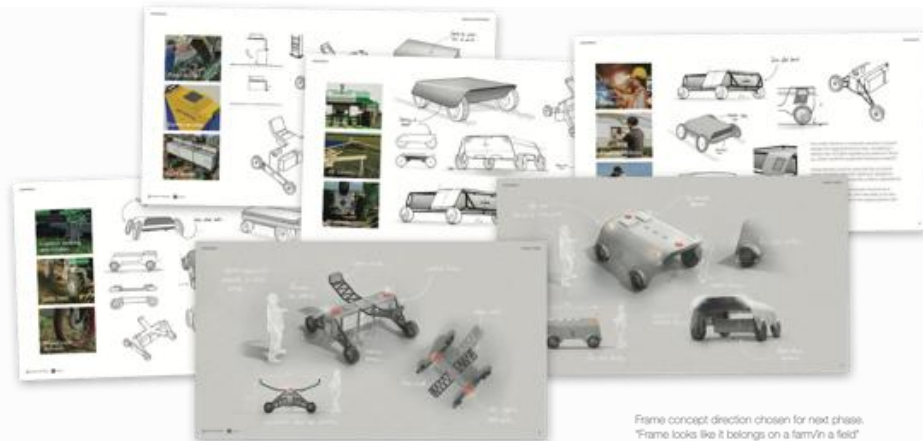
Sugar Beet



Tree seedlings



Path to Market



2024

- V2 CLAWS & User Interface Development.
- Build 5 more CLAWS units.
- Expand R&D & Operations team.
- 5 Pilot Weeding and Scouting Trials
- Customer/ Partner Demonstration Events.

2025

- Independent full season validation.
- V2 CLAWS Launch
- Build facility for 200 units per annum
- Ramp Sales through RaaS, Distributor Network, Collaboration.

2026

- Build and deployment of 200 units.

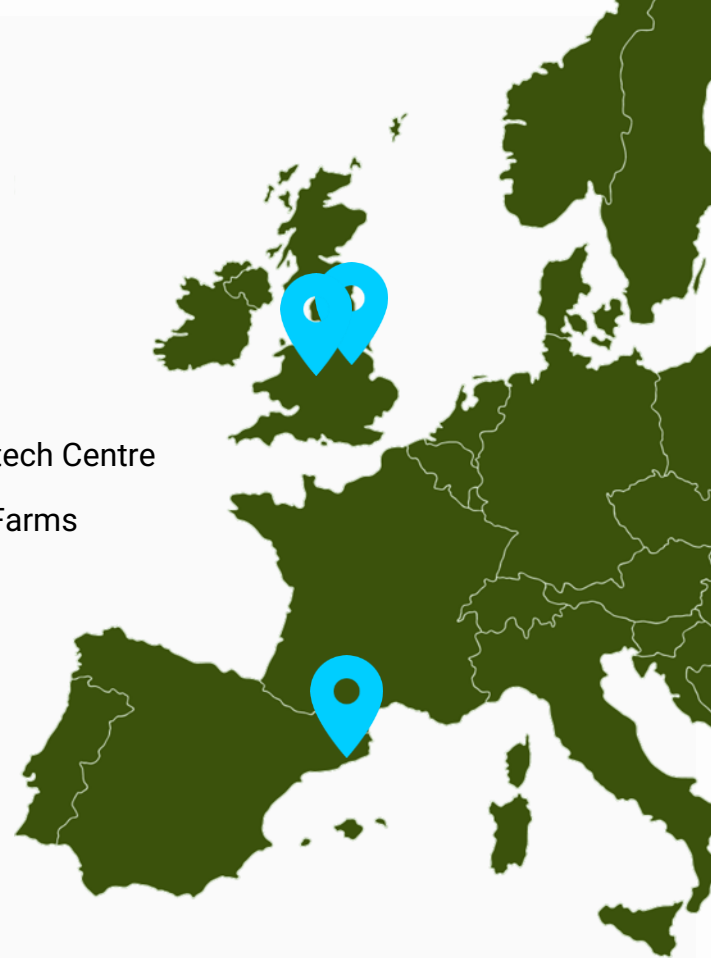
Sites & Locations

Our sites span across two countries: the United Kingdom and Spain, strategically positioned to drive pioneering agricultural innovation.



- Earth Rover's registered address at the UK Agri-tech Centre
- Testing and trials in collaboration with Pollybell Farms

- R&D hub at Parc UPC-RDIT, Castelldefels
- Testing and trials at Parc UPC Agròpolis





Thank you

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Q & A / Discussion



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The Team



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Co-Founder, Chairman



James Miller
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Luke Robinson
Co-Founder, CSO



Ed Smith
CFO, Non-Executive Director



Tomàs Pieras
CTO



Josep Bello
Autonomous Navigation Engineer



Marc Duran
Software Engineer



Daniel Ahumada
Artificial Intelligence Engineer



Javier De Esteban
Electro-mechanical Engineer



Nathan Albers
Field Test Engineer



Eric Law
Project Manager



Debbie Rogers
Finance & Project Assistant



Thomas Miller
Business Manager (Trainee)



Cristina García
Marketing Executive

Concentrated Light Weed Control

“Lightweeder controls different types of weeds including chemically (ALS) resistant weeds.”

NIAB Independent testing

Species	Common Name	Species Class	Archetypal Biotype	Plant size tested	Size (cm) [height for monocots; width for dicots]
<i>Alopecurus myosuroides</i>	Black-grass	Monocot	Small leaf	Small	2-4
<i>Poa annua</i>	Annual Meadow Grass	Monocot	Small leaf	Small and large	2-3 / 4-6
<i>Lolium multiflorum</i> (sensitive)	Italian rye-grass (sensitive)	Monocot	Medium leaf	Large	6-7
<i>Lolium multiflorum</i> (ALS resistant)	Italian rye-grass (resistant)	Monocot	Medium leaf	Small and large	3-4 / 6-7
<i>Avena sativa</i>	Oat	Monocot	Large leaf	Small and large	2-3 / 4-7
<i>Allium spp.</i>	Onion	Monocot	Small leaf, upright	Small	3-5
<i>Anthriscus caucalis</i>	Bur chervil	Dicot	Medium leaf, flat	Small and large	2-3 / 4-7
<i>Stellaria media</i>	Chickweed	Dicot	Small leaf, sprawling	Small and large	0.5-1 / 2-3
<i>Tripleurospermum inodorum</i>	Mayweed	Dicot		Small and large	1-2 / 2-4

Table 1. Species list used in the study

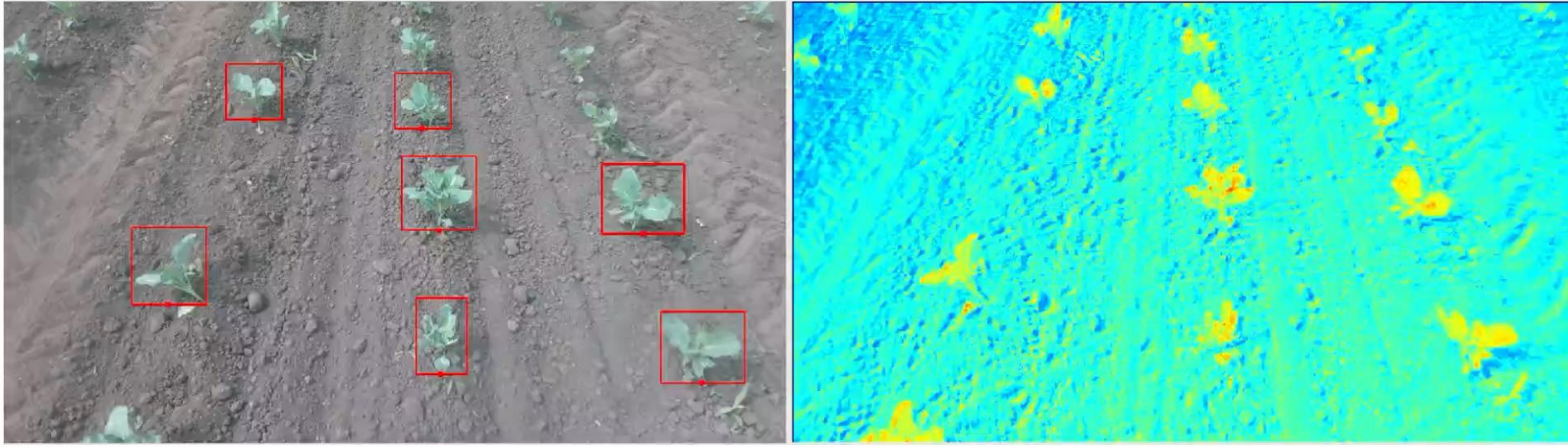


Figures 3a. A visual comparison of the control achieved against herbicide sensitive (left) and herbicide resistant (right) populations of Italian rye-grass. Figure 3b. A visual comparison of the control achieved against two sizes of Bur chervil, a dicot species.

Why are we different?



Real time AI Crop Detection



CLAWS - Scouting Intelligence

UK & Spain Scouting Pilots

Crop Scouting, Weed Detection and Weed Density Mapping

