

RST IRRIGATION

HELPING YOU GROW

raindancer

Thank you for your interest in our VRI integration. We have received quite a lot of interest regarding this add on facility and I am currently in the middle of our development and processing of data and import options.

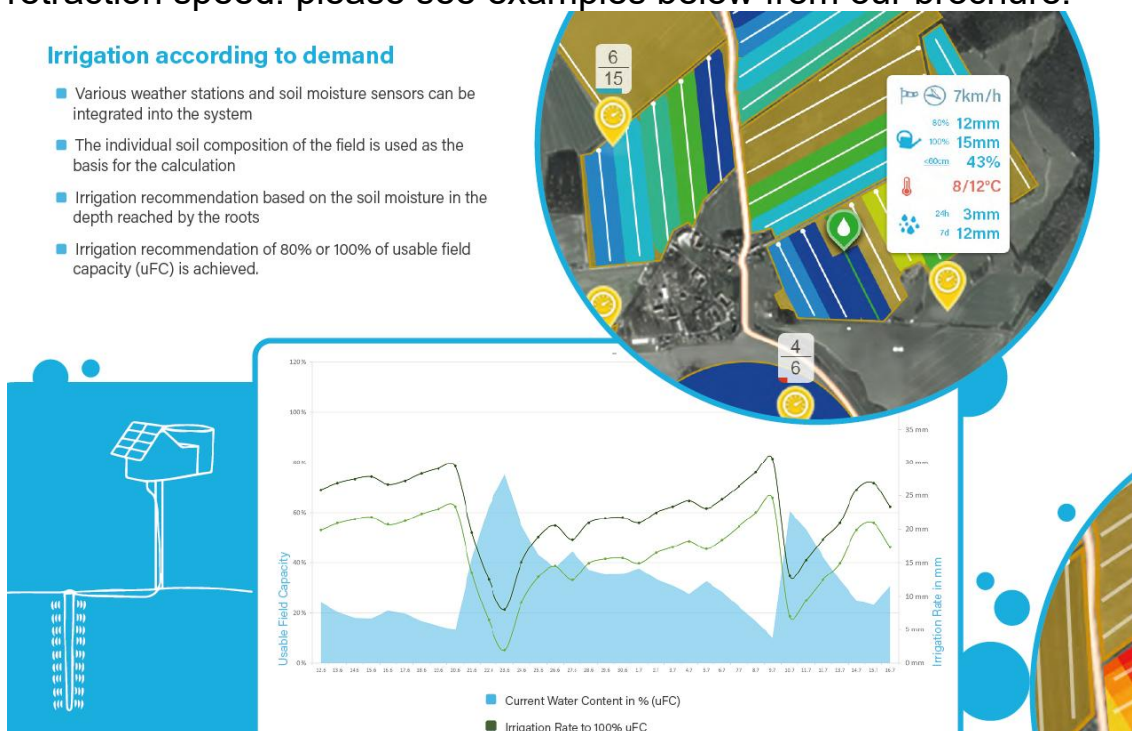
There is a company named KARL who currently upload directly into customers account vri info based on satellite images and radar data, which allows for crop canopy and soil temperature etc.

We are also working with Omnia where we can import field soil data and elevations etc.

As long as a hosereel has a modem on the speed control and raindancer on the boom/raingun we can automatically control the retraction speed. please see examples below from our brochure.

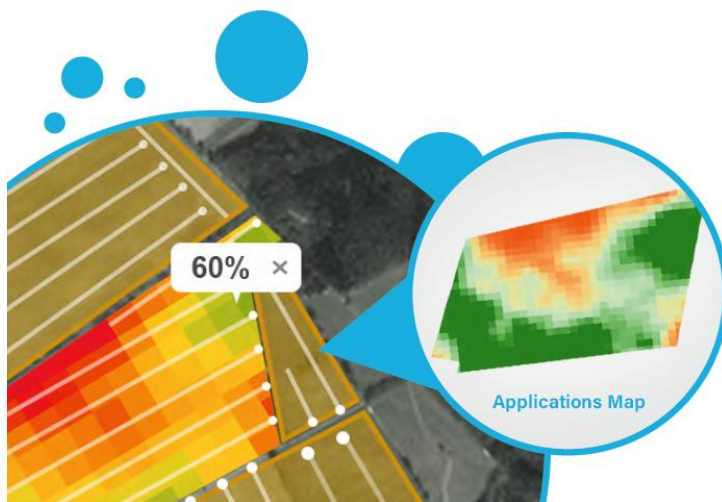
Irrigation according to demand

- Various weather stations and soil moisture sensors can be integrated into the system
- The individual soil composition of the field is used as the basis for the calculation
- Irrigation recommendation based on the soil moisture in the depth reached by the roots
- Irrigation recommendation of 80% or 100% of usable field capacity (uFC) is achieved.

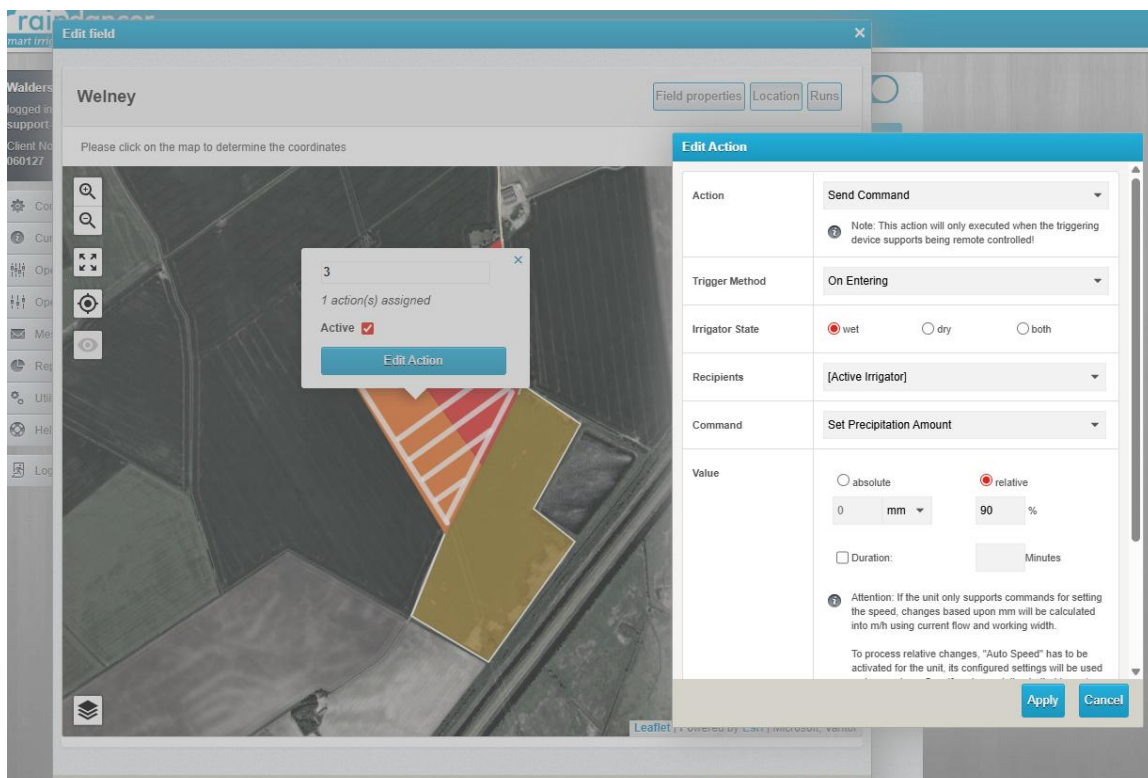


Always the right amount of water

- Variable rates irrigation based on
e.g. satellite images of biomass or yield maps
- Just the right amount of water in the right place
- Save water and energy through demand-based irrigation



This is the interface within the portal

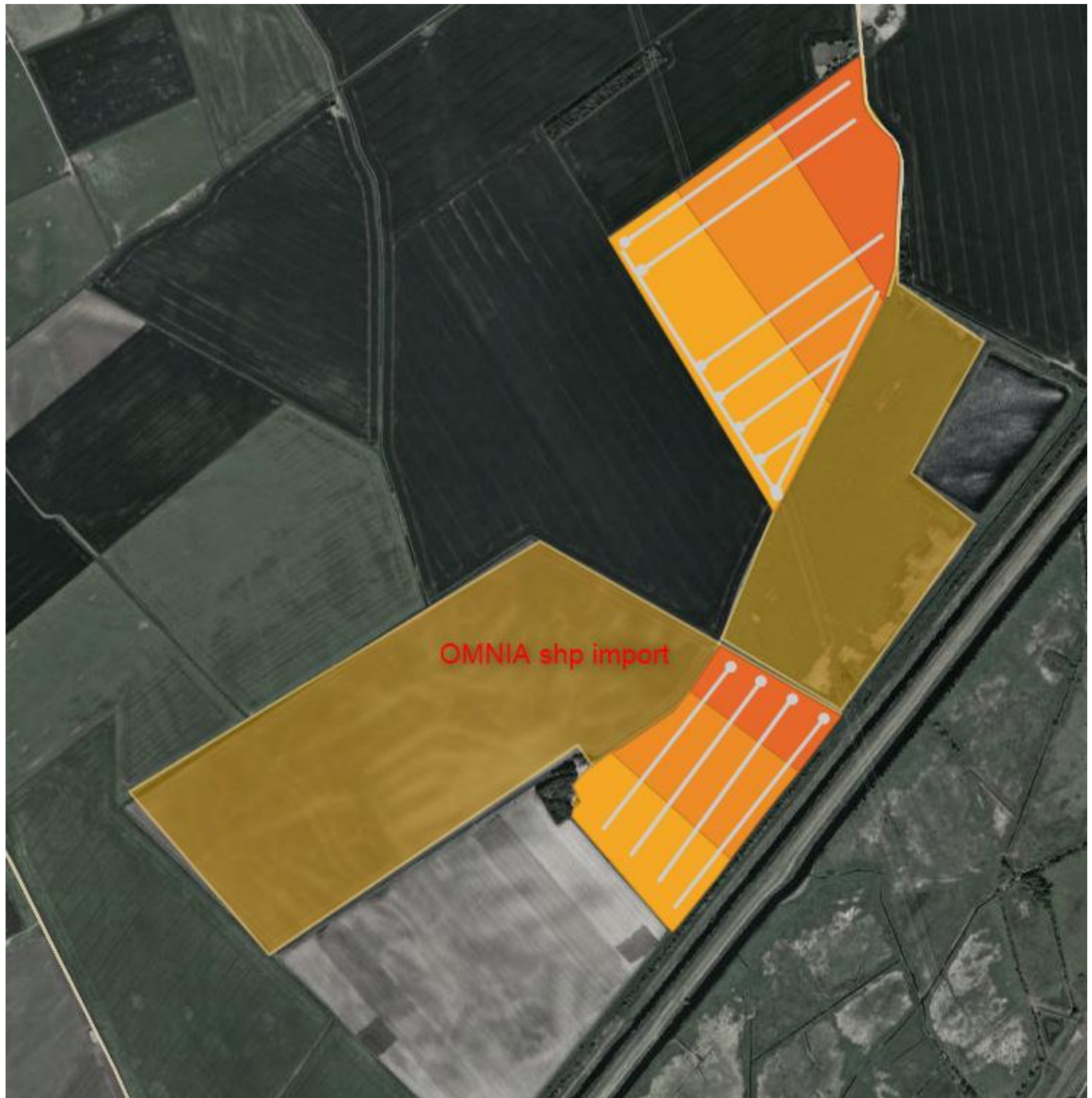


With the ability to upload either from shp files or directly through an API, below you can see various field data options



However, the data is only relevant where the hose reel carriage runs, we cannot apply 20mm one side and 10mm the other

It may be easier to import as blocks of application, see below



An existing partner working with Raindancer



KARL VRI & Raindancer

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What is KARL VRI?

KARL automatically generates Variable Rate Irrigation maps using satellite-based Evapotranspiration (ET) data and sends them directly to your Raindancer account. Your hose reel irrigation machine then adjusts speed automatically to optimally distribute water across your field. You choose how much to irrigate, KARL optimizes how it's distributed in the field.

How It Works

1. Create an account with KARL and easily connect Raindancer
2. **Select fields for VRI** - Choose which fields you want VRI maps activated for.
3. **KARL automatically loads maps** - VRI maps automatically load into your Raindancer account throughout the season. Irrigate normally while KARL optimizes in the background.
4. **In-depth monitoring (optional)** - Log into KARL anytime to view detailed satellite imagery and do a deeper dive into the data.

Understanding the Zones

KARL creates relative irrigation zones along your existing irrigation lines with percentages (85-115%) based on localised ET data. Higher ET areas get more water, lower ET areas get less. Raindancer adjusts hose reel speed automatically to match KARL's VRI map.

Example: Irrigating 20mm means 110% zones get 22mm, 90% zones get 18mm. The field average stays 20mm.

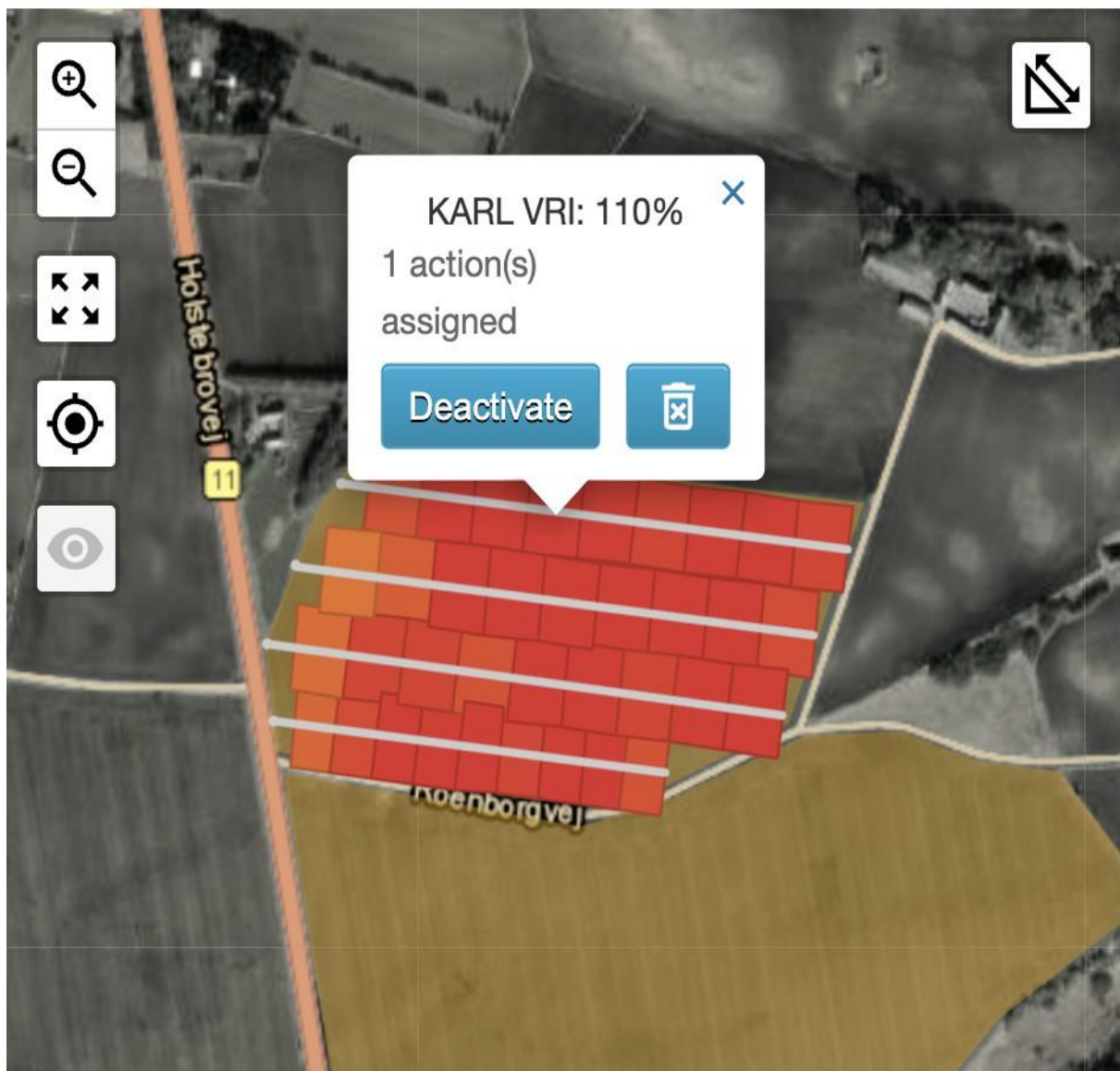
Key Benefits

- **Fully automated operation** - Set up once and KARL works in the background all season. No manual adjustments or ongoing management required.

- **Satellite-powered precision** -
Uses satellite-based ET data to identify field variability without any on-field hardware or sensors.
- **Optimized water distribution** -
Automatically applies more water where crops need it most and less where they don't, improving efficiency across your entire field.

KARL's VRI map displayed Raindancer

General cost of £15.00 per hectare



Virtual Weather Stations (Weather without the hardware) - Beta

Some customers might still hesitate to grab a shovel and install a physical weather station out on the field. Now we have the perfect middle ground: Under "Extensions," you can now add Virtual Weather Stations.

The best part is that you can place them virtually anywhere on the map – completely without any hardware. They provide temperature, retrospective rainfall, and evaporation data for the selected location. Admittedly, they aren't quite as precise down to the very last drop as a physical station on-site, but they are a brilliant, cost-effective way to get started with weather data. By the way, billing is simply done per station.



£5.00/month
Each station