

ISARIA

PRO Compact



Easy and efficient crop management for any size of business

Intelligent crop management for any business



The ISARIA PRO Compact provides an easy introduction to smart farming.

Crop sensors are not complicated and expensive. Sensor-based systems allow optimum crop management. The ISARIA PRO Compact crop sensor has been specially developed for use in daylight. The system is made up of two sensor units, which can be attached to the tractor cab, e.g. to the wing mirrors. A reference sensor is mounted on the tractor roof to measure the light conditions. The ISOBUS compatible ISARIA PRO Compact is worthwhile for any business with more than 50 hectares of arable land. As well as functionality, the sensor technology has been developed for easy operation. The ISARIA PRO Compact has a range of uses.



Easy and efficient. The entry-level Smart Farming system.

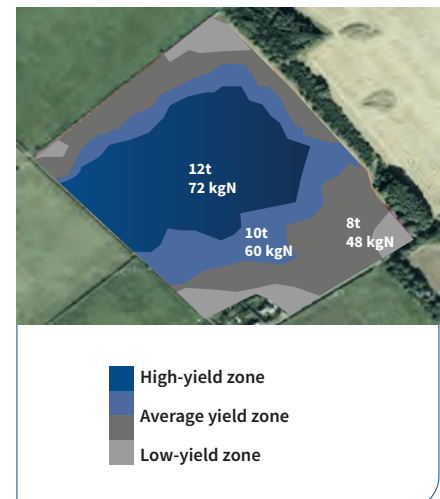
Natural and political challenges are forcing adaptations in fertiliser strategy.

There are high and low-yield zones in every field. Uniform fertilisation of a field leads to under supply and thus to a reduction in yield, while over supply pollutes the environment and is a waste of resources.

The Fertiliser Ordinance strictly limits the amount of nitrogen and the fertilization times. The amount of fertiliser is measured using the yield potential.

Requirements are calculated based on the previous year's yield. If the farmer does not optimally utilise their yield potential, the yield will fall. The farmer is then caught in a downward spiral.

Only an intelligent sensor-based system can provide crops with exactly what they need. Application agents are applied at the point in the field where they are actually required. The result is even nitrogen balances and optimum utilisation of yield potential.



Area-specific yield differences

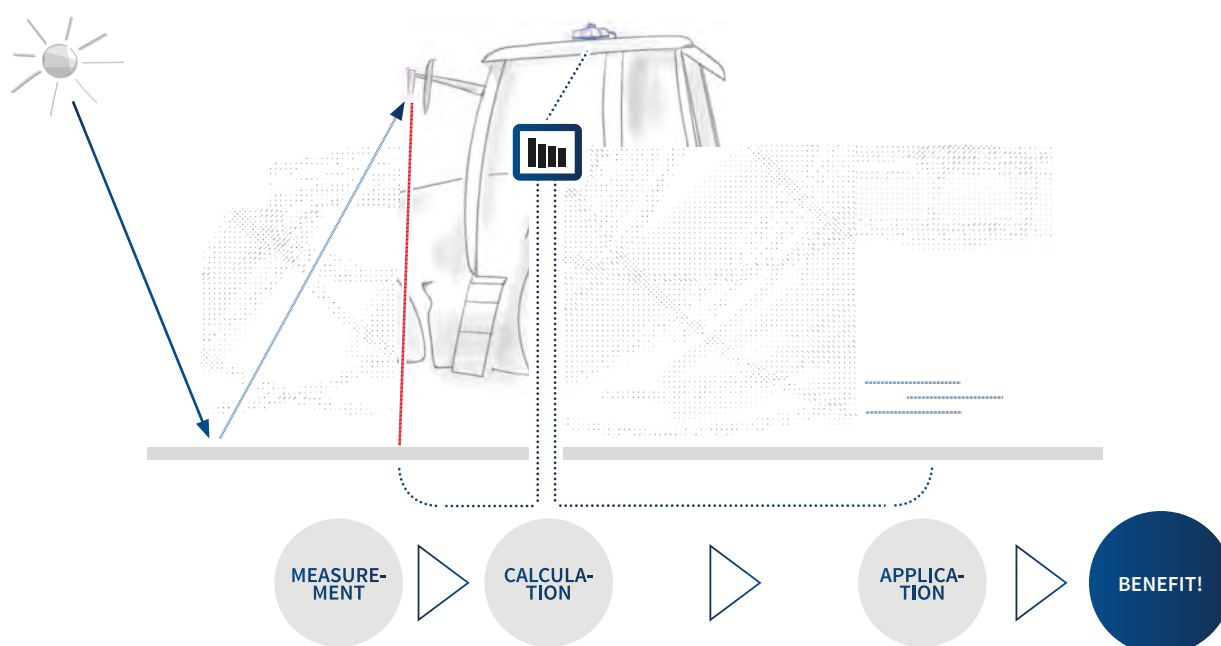
The ISARIA principle

The ISARIA PRO Compact is made up of two sensor units, which can be attached to the tractor cab, e.g. to the wing mirrors, in just a few minutes. A reference sensor on the roof of the tractor for measuring lighting conditions completes the system. As well as the functionality, it is designed for easy operation. The ISARIA PRO Compact

measures the sunlight reflected by plants. The optimum application quantity for the current crop is calculated and transferred to the application device.

All data can be transferred to the user-friendly online application ISARIA CONNECT.

While passing



Two variables for maximum benefit

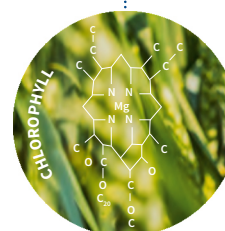
The **B-index** provides information about the crop density. The system can therefore respond very well to extreme situations such as drought or frost damage.

The **N-index** represents your crop's current nutrient condition.



B-index

or



N-index

ISARIA applications

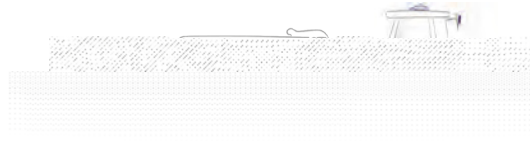
FERTILISATION (MINERAL)

- N fertilisation
- Crop appraisal and N intake scan
- Basic fertilisation (based on application map)



FERTILISATION (ORGANIC)

- Application of organic substance



PEST MANAGEMENT

- Growth regulators
- Fungicides (e.g. to prevent potato blight in potato cultivation)
- Biomass-dependent application of application agents



GRASSLAND

- Grassland reseeding



Exemplary cultures:

CEREALS



RAPSEED



CORN



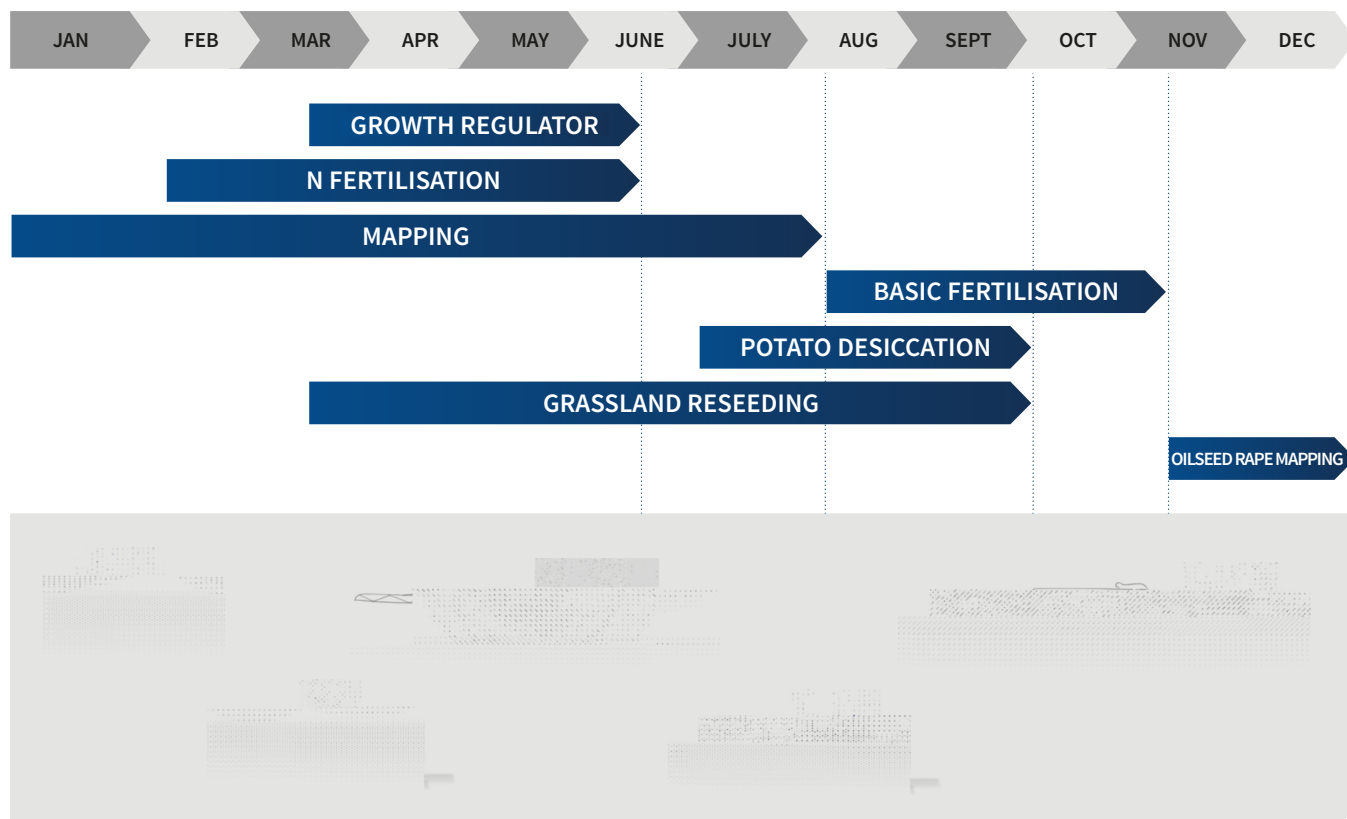
POTATOES



GRASSLAND



The ISARIA system over the year

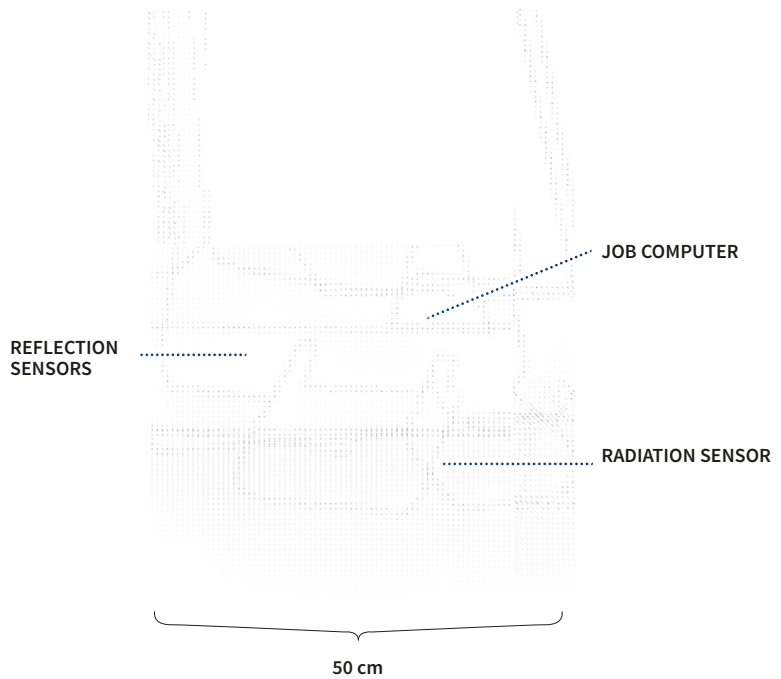


The ISARIA system at a glance

PROPERTIES	ECONOMIC ADVANTAGES	ECOLOGICAL ADVANTAGES
<ul style="list-style-type: none"> → Reliable operation thanks to high performance sensors → Quickly and easily ready for use → Highest measuring accuracy on the market → More uniform ripening for increased harvests → Data management with ISARIA Connect → Two indices → Compatible with almost all application devices → Profitable from 50 hectares of arable land → Customised configuration available to match the technical capabilities of your machinery (ISOBUS, non-ISOBUS) 	<ul style="list-style-type: none"> → Optimum utilization of yield potential → Optimised N balance → Higher oil content in oleaginous crops (e.g rape, soya beans) → Prevention of lodged grain → Consistent tuber size → Maximum economic efficiency → Lower fuel consumption due to uniform ripening → Good yields even in red areas (Fertiliser Ordinance) due to precise fertiliser distribution on the field 	<ul style="list-style-type: none"> → Reduced N leaching → Lower nitrate pollution of soil and groundwater → Optimum use of pesticides

Compact version of ISARIA

The ISARIA PRO Compact can be practically stored in the case supplied. Because of its handy size it can easily be mounted, for example on the mirror.



Our services



Customer service

- Assembly and installation by our sales partners
- Not for end customers

Advice

- Personal support by a regional advisor
- Free software updates
- Training by authorised partner on site
- Exclusive access to ISARIA CONNECT

History



Fritzmeier has been synonymous with progress in agriculture since 1926

Initially established as a saddlery, the company provided farmers with increased comfort when working with a full-suspension tractor seat and the first tarpaulin cover. A further revolutionary step came in the 1960s with the development of the rollover bar for tractors. Fritzmeier established itself as the world market leader for construction machinery and industrial vehicles.

Progress is continuing where it all began. Since 2012, Fritzmeier Umwelttechnik has been developing innovative solutions for people and the environment in the original old saddlery. High precision sensor technology is combined with cutting-edge crop farming know-how to create a single system: ISARIA - your system for intelligent crop management.





Achieving optimum yield with intelligent sensor technology

FCT

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