

GLOBAL CROP INTELLIGENCE SERVING LOCAL FARMING CHALLENGES

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Challenge | Swiss Space Office | European Space Agency | Swiss Excellence Stiftung | Copernicus Masters | Sandoz Foundation

TRILLION DOLLAR PROBLEM



\$115 BN MARKET

Precision fertilizer

\$65 billion

- \$200B potential added value
- 18% yield improvement

Precision spraying

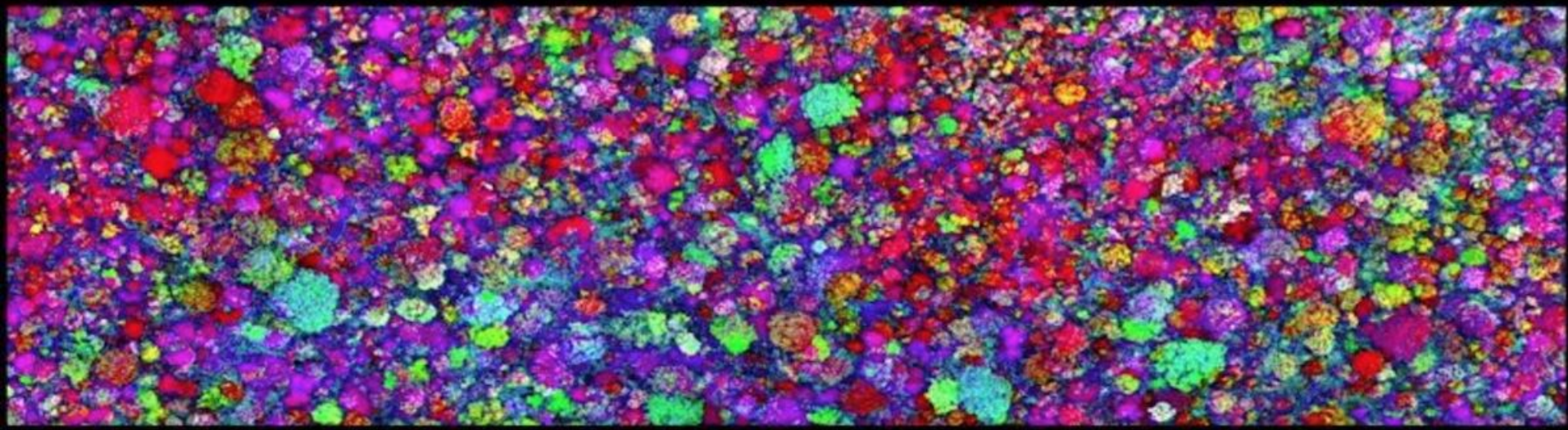
\$15 billion

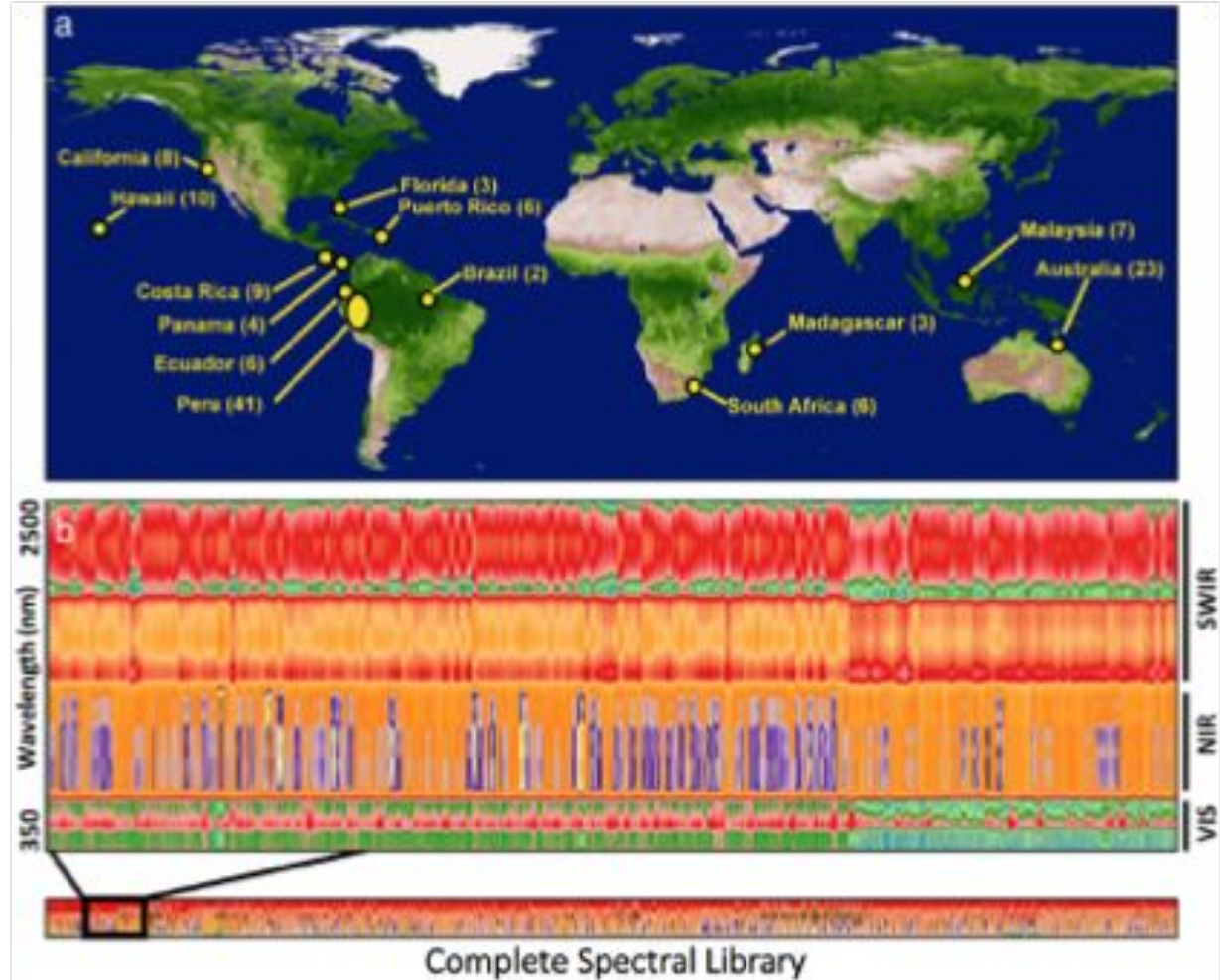
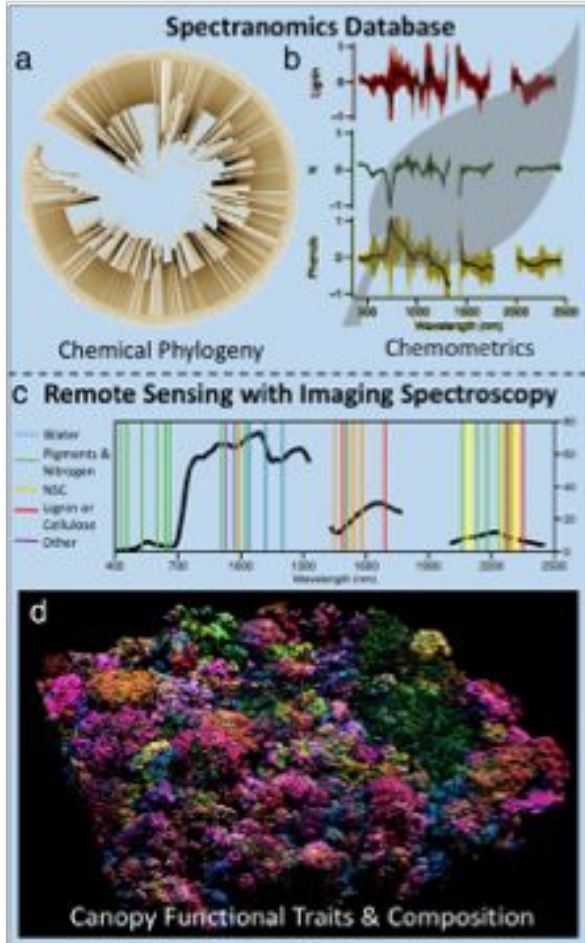
- \$50B potential added value
- 4% yield improvement

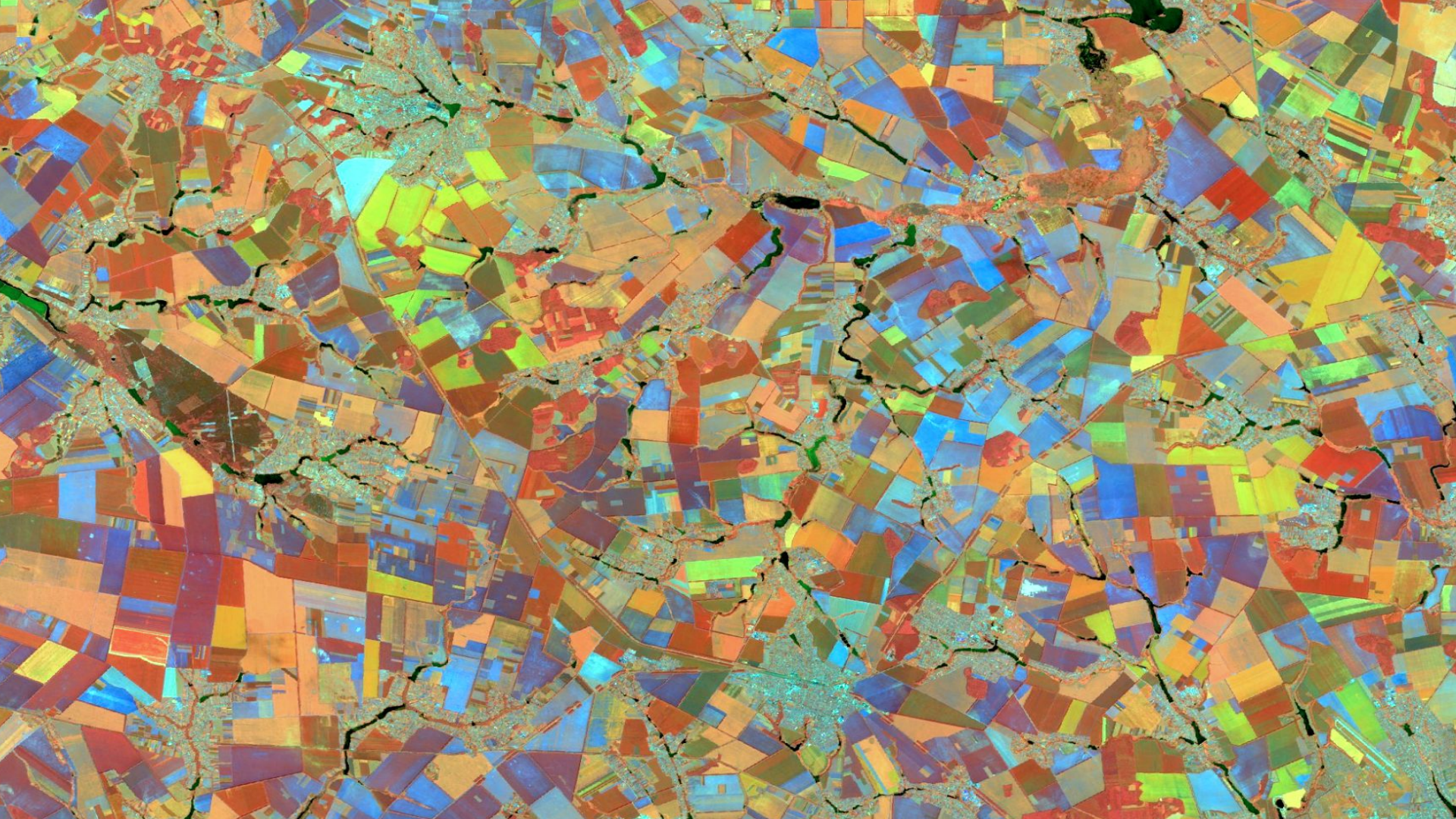
Field monitoring, Data management & others

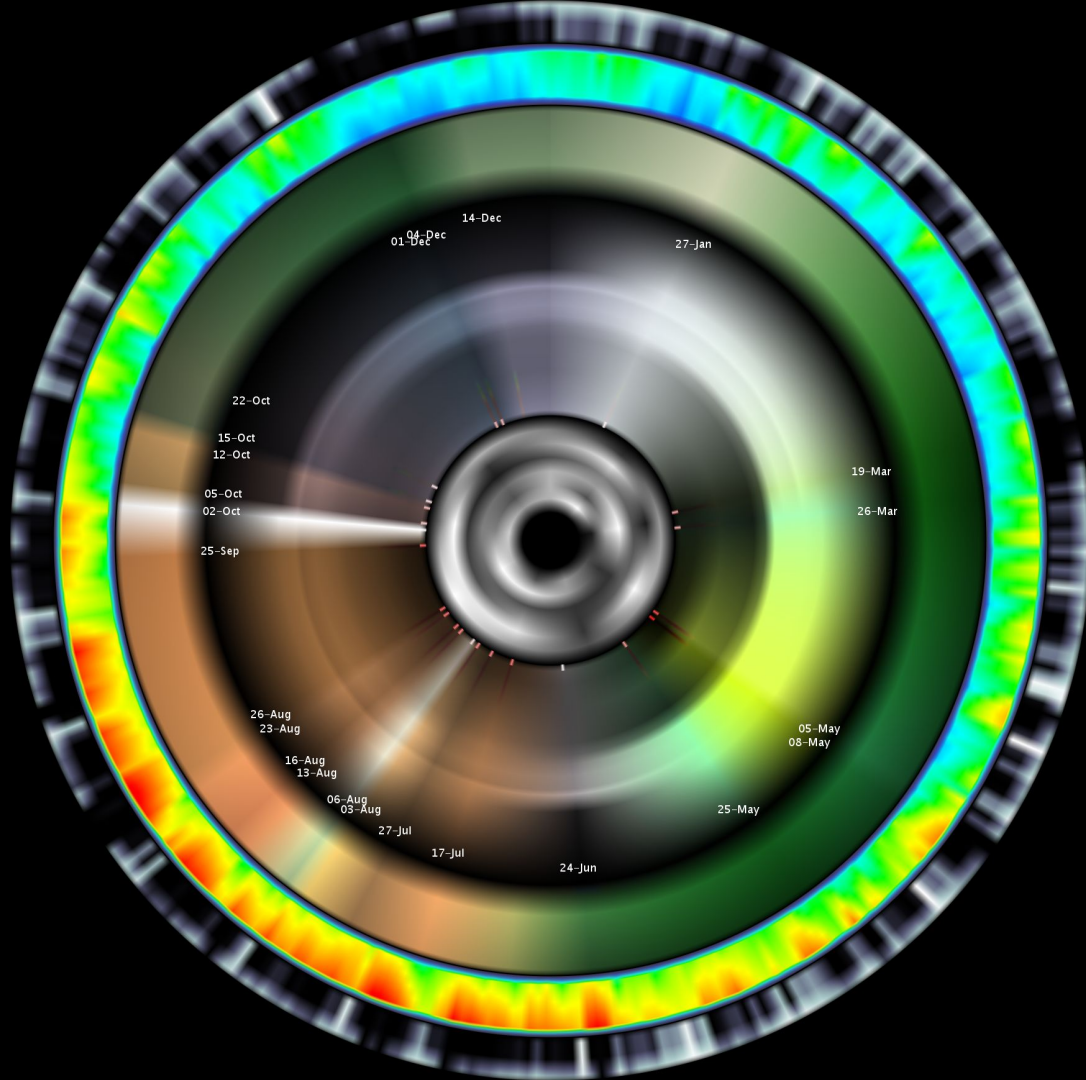
\$35 billion

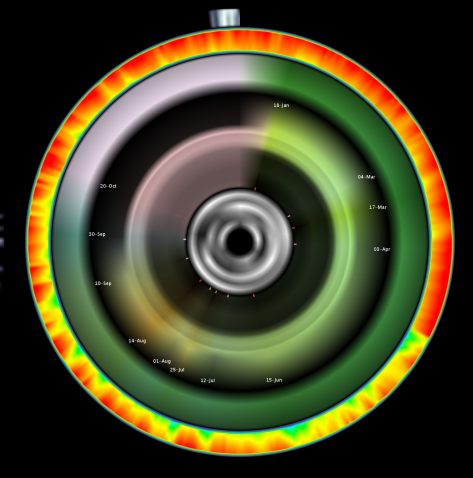
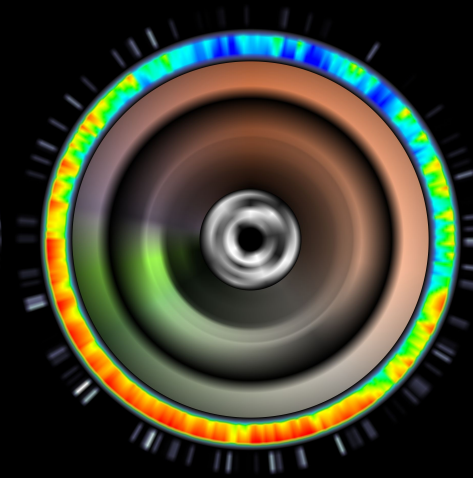
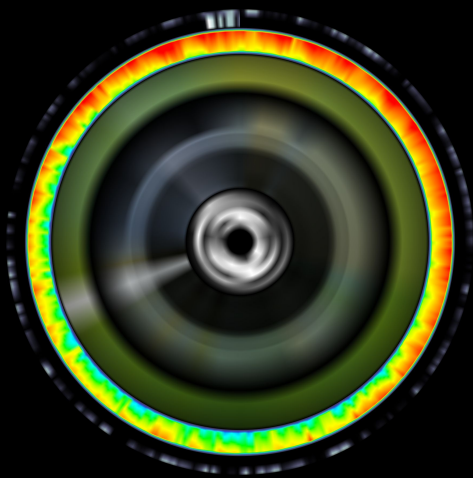
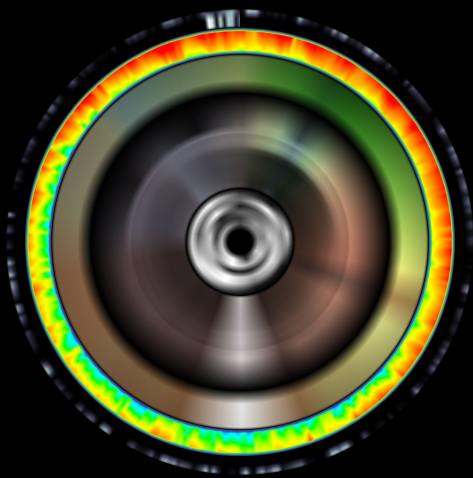
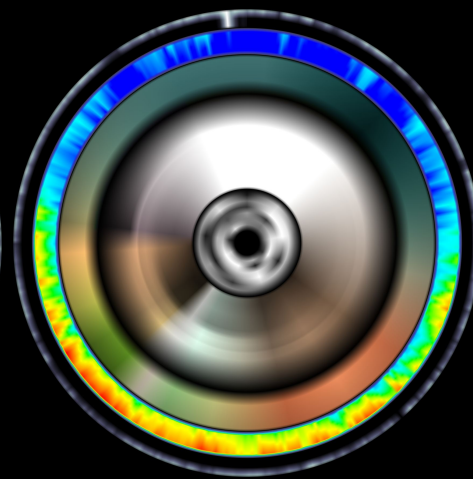
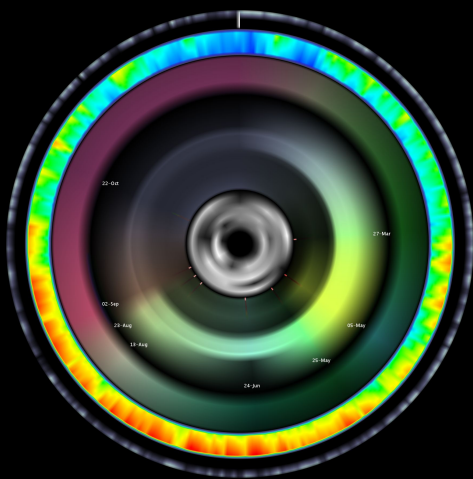
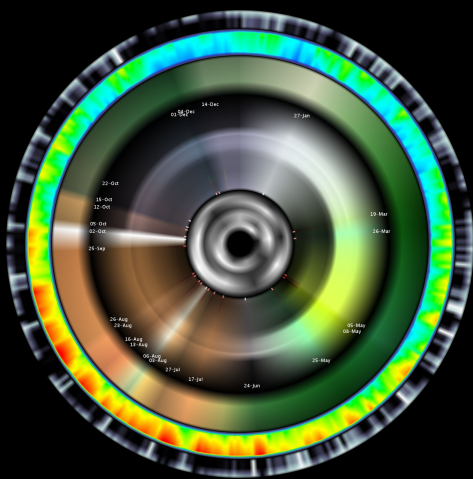
- \$125B potential added value

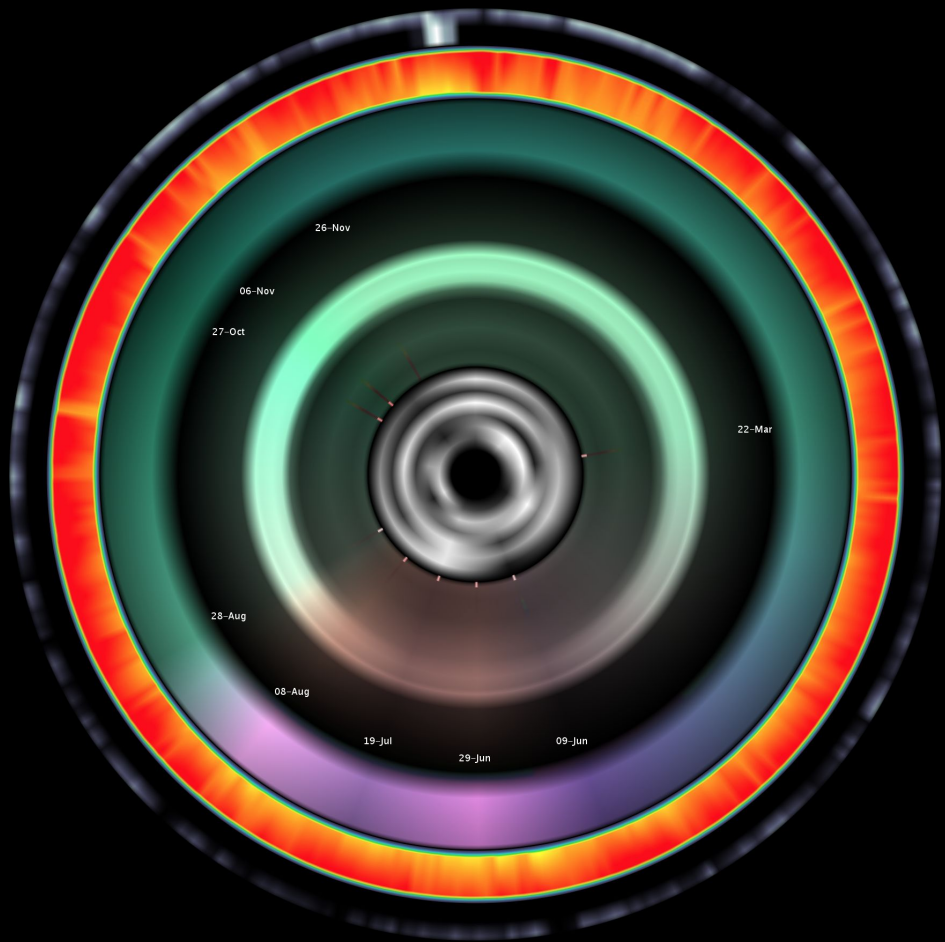
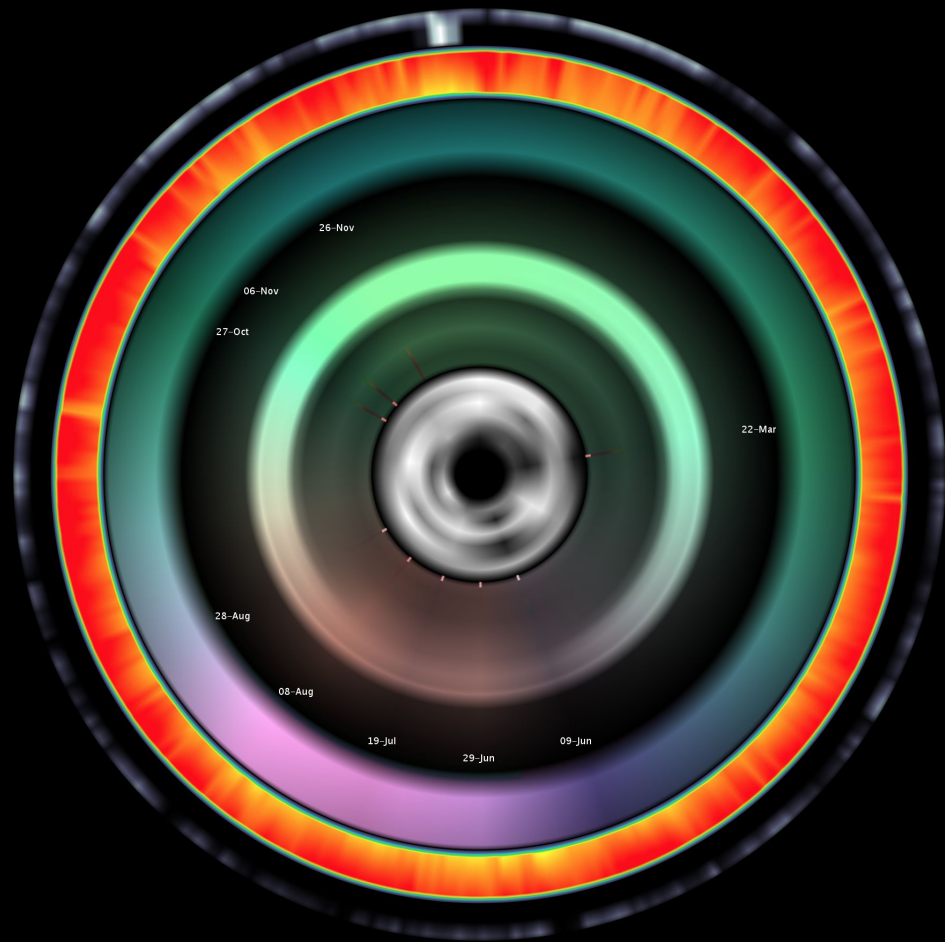


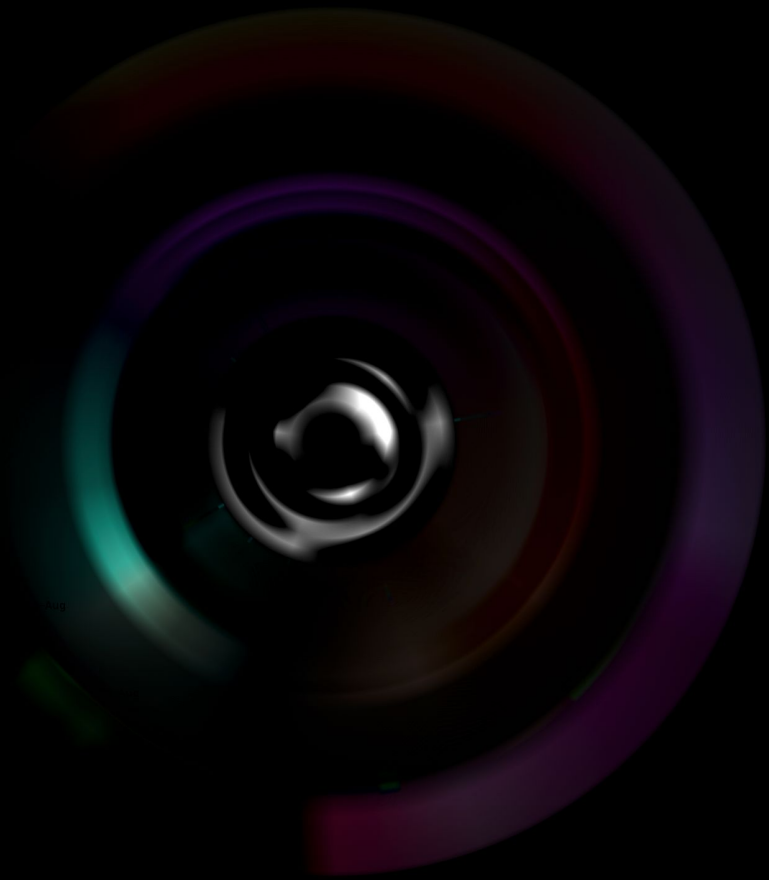




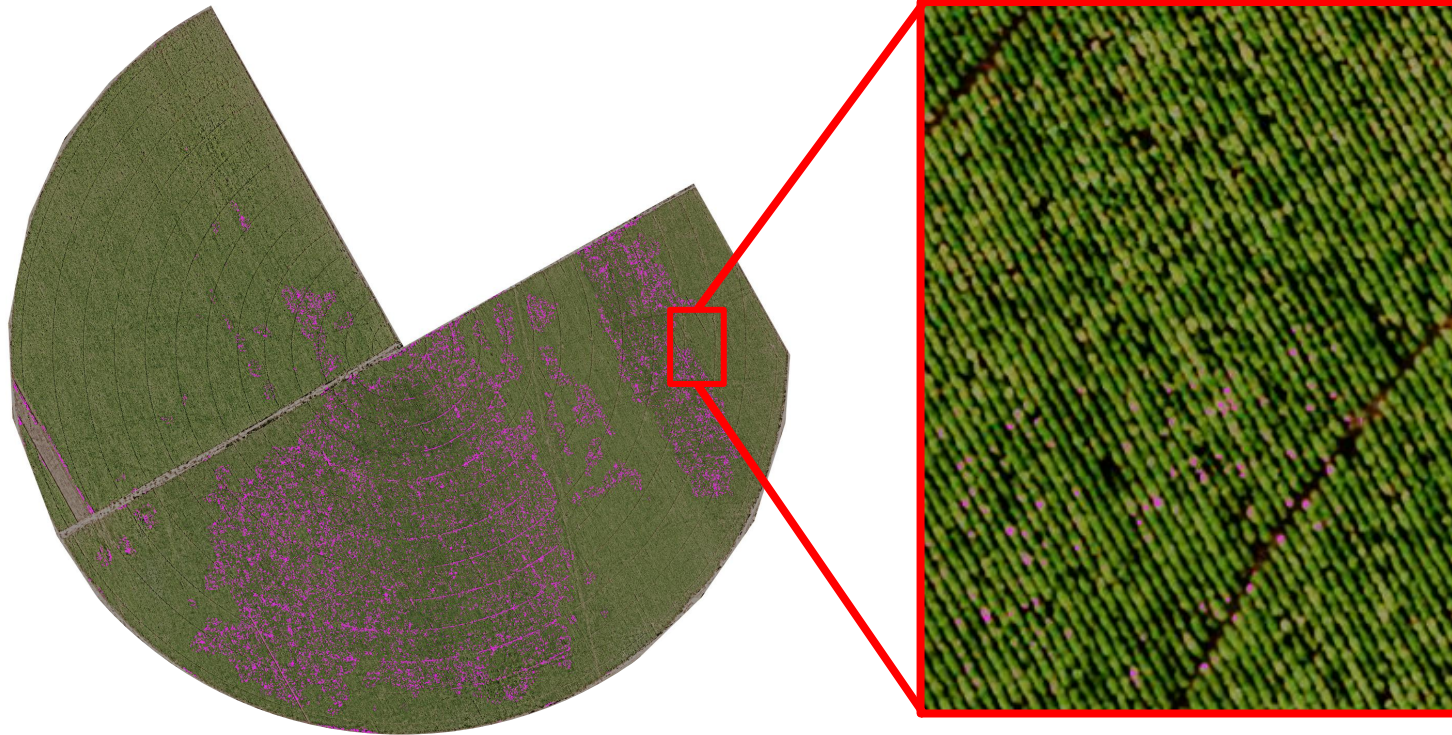






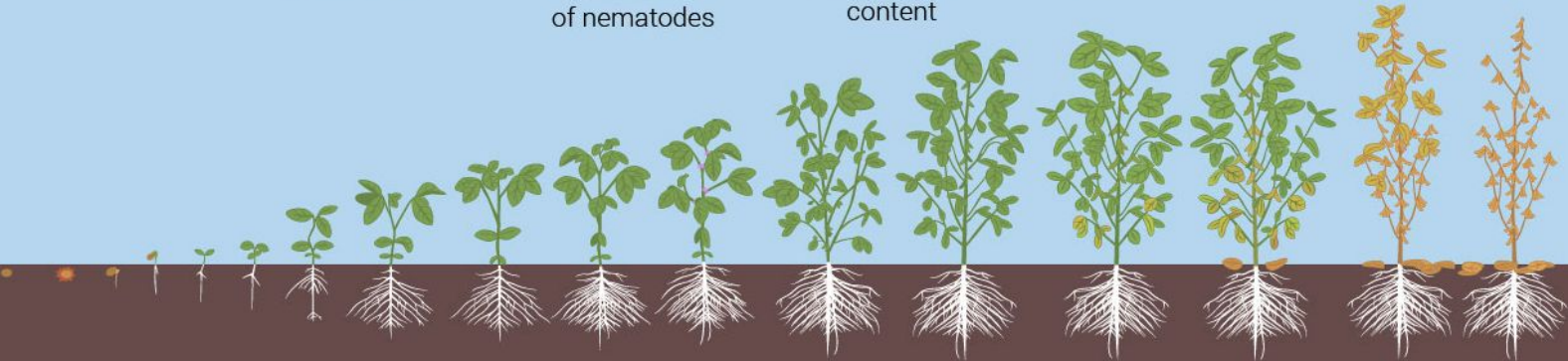
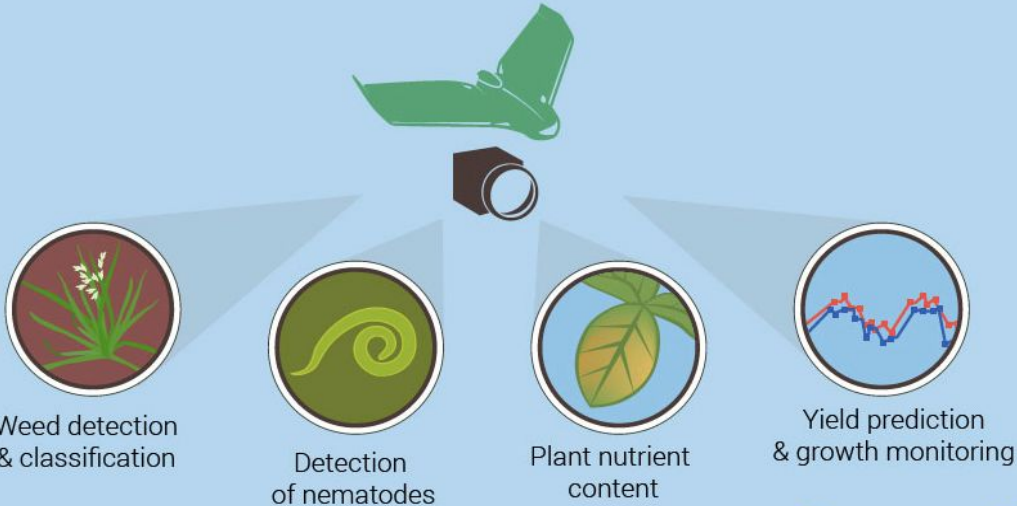


VIRUS DETECTION



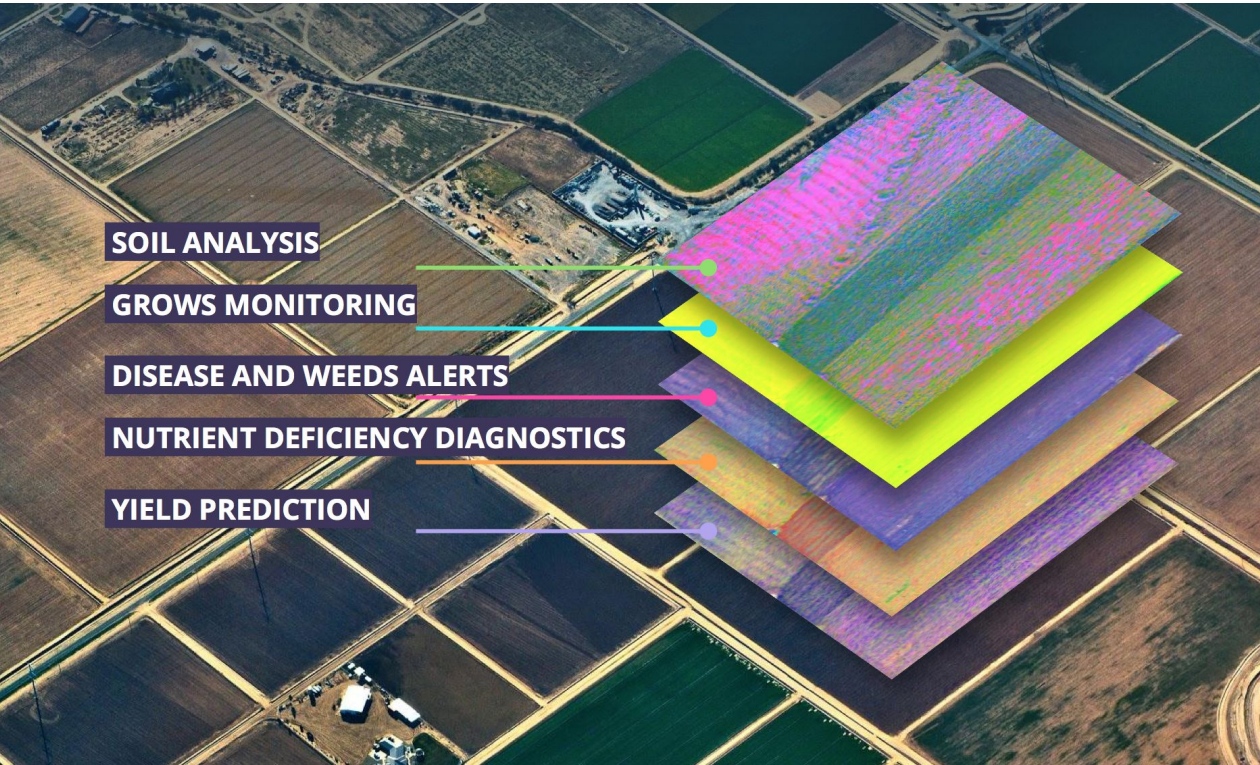
 Virus infected plant

EMPOWERING FARMERS WITH BETTER KNOWLEDGE OF THEIR CROPS



Seed	Germination	Leaf Development	Flowering	Pod Development	Ripening	Senescence
Days	00 07 09 10 11	12 13 15	17 61	69 70	79 89	96 97

EMPOWERING FARMERS WITH BETTER KNOWLEDGE OF THEIR LAND AND CROPS



HYPERSPPECTRAL IMAGING world's smallest and lightest camera



ARTIFICIAL INTELLIGENCE to translate data into chemical and biological indicators



ACTIONABLE INFORMATION based on database of crop-affecting factors—weather, diseases, pests, nutrient stress

POTENTIAL BENEFICIARIES



LARGE AGRI PRODUCERS

- Timely control of diseases and weeds
- Reduction in fertilizer and chemical usage



AGROCHEMICAL/ BIOTECHNOLOGY COMPANIES

- Test chemicals during R&D and production phases
- Provide value to customers by enabling growers to target chemical application



CONVENTIONAL FOOD PRODUCERS AND SOURCERS

- Ensure quality and quantity of produce for food preparation
- Quick identification of threats such as weeds and diseases and quantification of expected loss



AG MACHINERY PRODUCERS

- Increase value of agri machinery by providing prescription maps that can be transferred to machinery
- Provide value to customers by bundling Gamaya prescription maps with agro machinery



COMMODITY TRADERS, FEDERAL AGENCIES

- Predict yields, identify yield/quality problems ahead of time
- Gamaya anomaly detection enables quick identification of threats and quantification of expected loss



BANKS, INSURANCE COMPANIES

- Advanced knowledge of issues that will impact yield, ability to measure expected impact to yield
- Gamaya anomaly detection measures damage precisely and accurately

THANK YOU!



Forbes

Gamaya is one of the 4 European AgTech startups with a potential to become a \$1 billion dollar company

BUSINESS INSIDER

Gamaya is one of the 12 hottest startups in Switzerland based on the amount raised, headcount, and developed technology

FORTUNE

Gamaya is changing farming with drones and artificial intelligence.



BUSINESS INSIDER

TECHNOLOGIST
INNOVATION. EXPLAINED.

