# FINDR – Fast and Intuitive Data Retrieval for Earth Observation



#### Summary

- Global food consumption will increase by 50% until 2050
- Climate change and water scarcity challenge agriculture
- SDG goal to end hunger is directly connected to monitoring crop health

# Main objective

FINDR provides universal and unified access to EO data critical for sustainable and resilient food production in the agri-food sector

- Access to available EO data
- Satellite-based Earth observation (EO) provides the only viable solution for monitoring global crop health and agriculture water demand
- High revisit rates (~daily) are needed to support agricultural use-case
- Combining data from different sensors is currently the only way to increase revisit rates
- Data from different EO missions are incompatible
- New approach is needed to combine data from different missions for better forecasts in the agri-food sector
- This will unlock further use-cases currently not feasible

- Forecasts on data availability
- Integration of data from different sources into standard data format

## **Preliminary results**

- FINDR platform is in beta stage (cloud-based solution)
- Freely available optical data sources integrated (Sentinel and Landsat)
- Homogenization method established and implemented
- Dry run performed (with static data)
- Agricultural end users identified



## **Preliminary conclusions and potential impact**

- Easy access to current and near-future EO data for precision farming applications
- Enables fast and better-informed decision makings for farmers
- Reduces entry barriers for farmers for satellite-based services
- Facilitates commercialization of EO-basedresearch products

#### **Future research activities**



- FINDR platform v1.0
- Perform field trial
- Evaluate customer response

# COFUND

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#### Data-driven ICT platforms and solutions to improve the sustainability of agri-food



Systems

