



# **Socio-economic impact assessment of the ARTES 4.0 programme**

## **Case study portfolio**

European Space Agency

13th December 2024

# DROMAS ARTES Business Applications & Space Solutions (BASS)



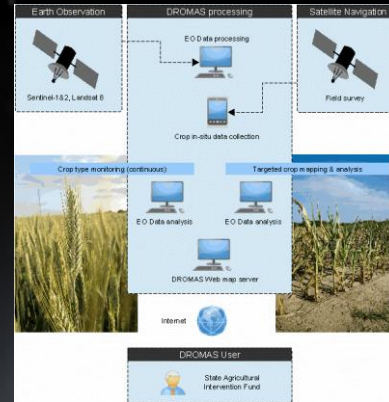
Whole country monitoring of agriculture crops serving Czech farmers and government alike



- Transforming the agriculture sector towards smart farming through crop growth monitoring and assessment driven by satellites

## LEVERAGING ESA'S SUPPORT

- 50% project funding provided by ESA
- Aided the **commercialisation** of the product and communication with end-users
- ESA backed project from **initial feasibility study** in 2015, through **demonstration phases** in 2016-2018, and extended support to 2022



## COMMERCIAL SUCCESS & GROWTH

Demonstrations completed 2018



>€2.5M in commercial contracts awarded by SAIF in 2019 and 2022

Additional services for permanent crop monitoring demonstrated 2021-22



## SERVICES DRIVEN BY SATELLITE DATA

- Supports **sustainability efforts** by offering Agriculture Crop Monitoring Service, and Farm Management Service
- Supporting **subsidy controls**, in the context of European CAP by enhancing the efficiency and accuracy of agricultural monitoring systems
- Combining **EO and satellite navigation data** enables targeted in-situ data collection and full country monitoring



TECHNOLOGY

APPLICATION

END-TO-END SYSTEM



→ THE EUROPEAN SPACE AGENCY



