

AgroRadar ARTES Business Applications & Space Solutions (1/2)



Promoting sustainable agriculture through accessible data-driven insights

- Real-time data for resource optimisation, waste reduction and minimising environmental impact



Project overview

- Addressing the need for sustainable food production and aligning with the **EU Farm to Fork strategy** motivates a need to ensure food security in Portugal and globally
- AgrolInsider has invested in technology that **enhances the efficiency and adaptability of their products** in response to evolving agricultural challenges
- AgroRadar, leverages Sentinel-1 and Sentinel-2 satellite data to provide **precise, real-time agricultural insights**, helping farmers make data-driven decisions to optimise crop yields in any climate

Benefits

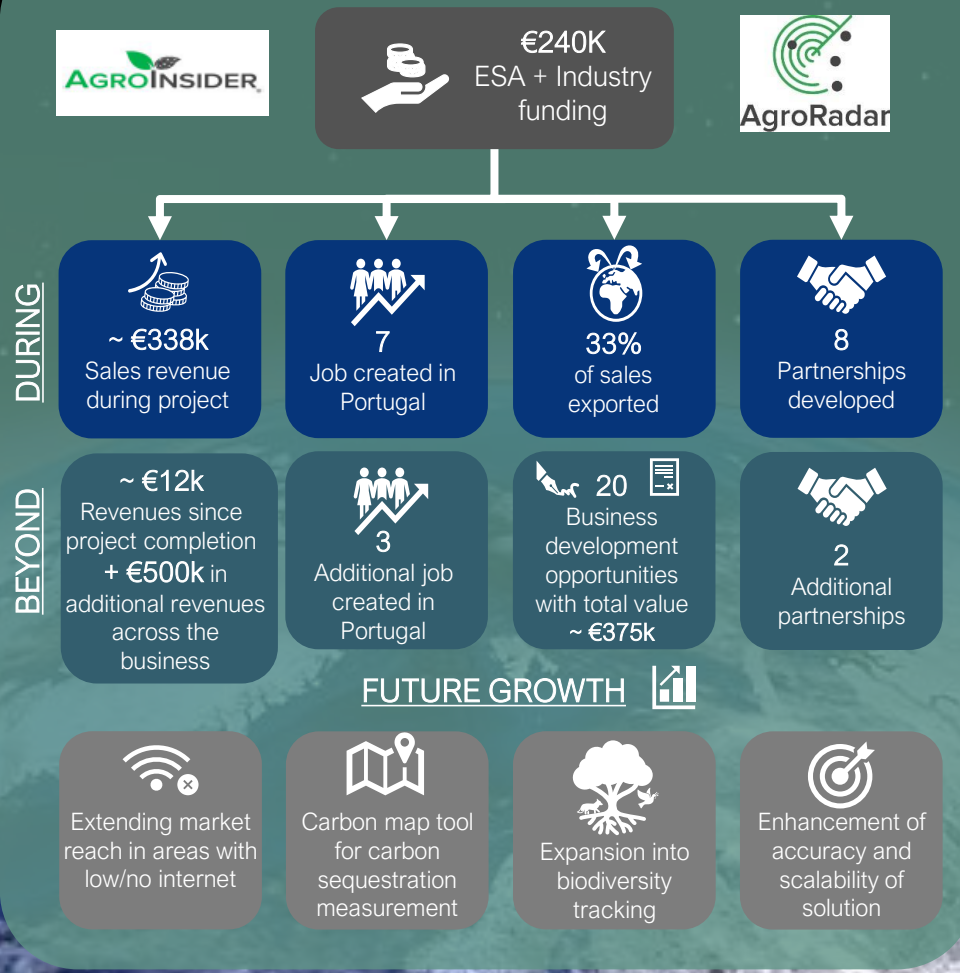
- Empowers farmers with data-driven insights that improves crop yields, reduces costs, optimises resource use and promotes efficient land management of farms
- Drives sustainability and compliance by providing real-time data on crop health, water usage and carbon assessments, helping farmers meet environmental regulations and climate action goals
- Enhances rural livelihoods and food security by offering affordable, accessible tools to smallholder farmers, improving productivity and creating economic opportunities in undeserved regions

"The BASS programme has been instrumental in increasing AgrolInsider's visibility and accelerating its scaling efforts"

*José Rafael Marques da Silva,
Partner, CTO, co-CEO,
AgrolInsider*



Project success



THEMATIC AREA

FOOD & AGRICULTURE



AgroRadar ARTES Business Applications & Space Solutions (2/2)

- Portuguese farmer achieves immediate yield increase after utilising AgroRadar tool



AgroRadar ARTES Business Applications & Space Solutions (2/2)

- Customers report increased production and irrigation efficiency



Farmer & university professor: 7 years of use

Customer need

Improvement of efficiency in agriculture production



Solution

Remote monitoring of vegetation and water stress through application, informing adjustments to inputs and irrigation and aiding in water, fertilizer, and pesticide management
A georeferenced soil sampling study was also conducted to adjust fertilization



Impact

- ✓ Improved efficiency of water use and irrigation efficiency
- ✓ Reduced fertilizer and pesticide inputs
- ✓ Improved production efficiency, and significantly increased production
- ✓ Reduced field visits = reduced costs
- ✓ 30% increase in production

Agricultural manager: 5 years of use

Customer need

Required information about agriculture production through remote monitoring



Solution

Irrigation optimisation through use of vegetation and water stress indices



Impact

- ✓ Improved irrigation efficiency: increased production and reduced costs
- ✓ Increased gross margin
- ✓ Increased workers' knowledge of new technologies

Customer impact

Productivity



Cost savings



Revenue



Environmental



Societal



Satisfaction

