

Quanti Farm

**CROP FARMING DATSs
ROBOTIC SYSTEMS &
SMART MACHINES**

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FACTSHEET #11



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WHAT ARE THE DATSs?

Digital Agricultural Technology Solutions (DATSs) are digital tools, systems, and platforms that collect, analyse, and use data to improve **farm management, productivity, sustainability, and animal welfare**.

They support better decision-making by turning **real-time information** into **targeted actions** on the farm.

WHAT ARE ROBOTIC SYSTEMS & SMART MACHINES (RSSM)?

Robotic Systems & Smart Machines (RSSM) are a category of Crop Farming DATSs that automate and optimise farm operations by acting directly in the field.

They use automation, sensors, and artificial intelligence (AI) to perform tasks such as planting, spraying, weeding, or harvesting with minimal human intervention.

Their purpose is to carry out farm work autonomously, reducing labour requirements and improving precision and efficiency in crop production.

WHO IS IT FOR?

Robotic Systems & Smart Machines are designed for:

Crop Farmers and Farm Managers

seeking to automate field operations



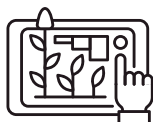
Advisers and Extension Services

supporting advanced digital farming practices



Agricultural Consultants and Digital Innovation Hubs (DIHs)

promoting automation technologies



Researchers and Stakeholders

analysing robotics and AI in agriculture



They are applicable to **different crop types and farming systems**, especially where labour availability and efficiency are key concerns

KEY OBJECTIVES

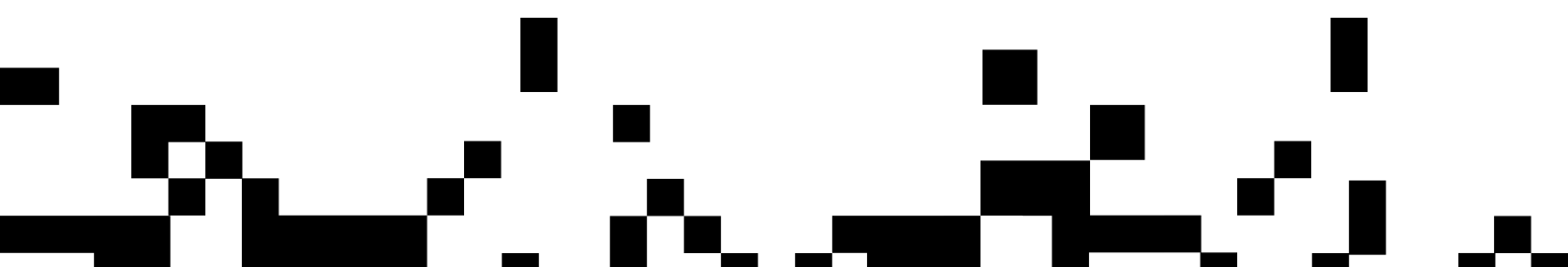
To automate repetitive and labour-intensive farm operations

To increase productivity and operational efficiency

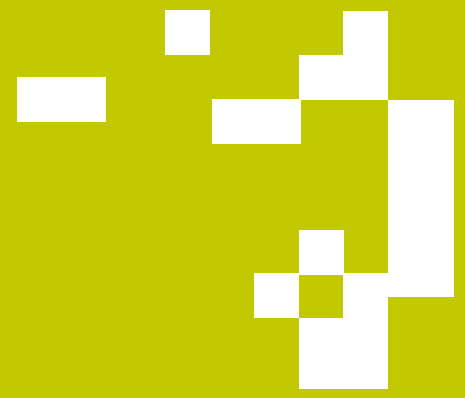
To reduce labour costs and operational risks

To improve precision in field operations

To support sustainable and innovative crop farming practices



MAIN FEATURES



Robotic Systems & Smart Machines (RSSM)
focus on automated field operations:

Field robots

Robots that replace or support human labour in tasks such as **harvesting, weeding, and other farm practices.**

Drones, autonomous tractors, and smart autonomous sprayers

Machines that operate independently, performing field work with high precision and reducing reliance on traditional tractors.

Together, these technologies help farmers **save time and effort, improve precision, and optimise crop management** through automation.

Learn
More



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Contact _____



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