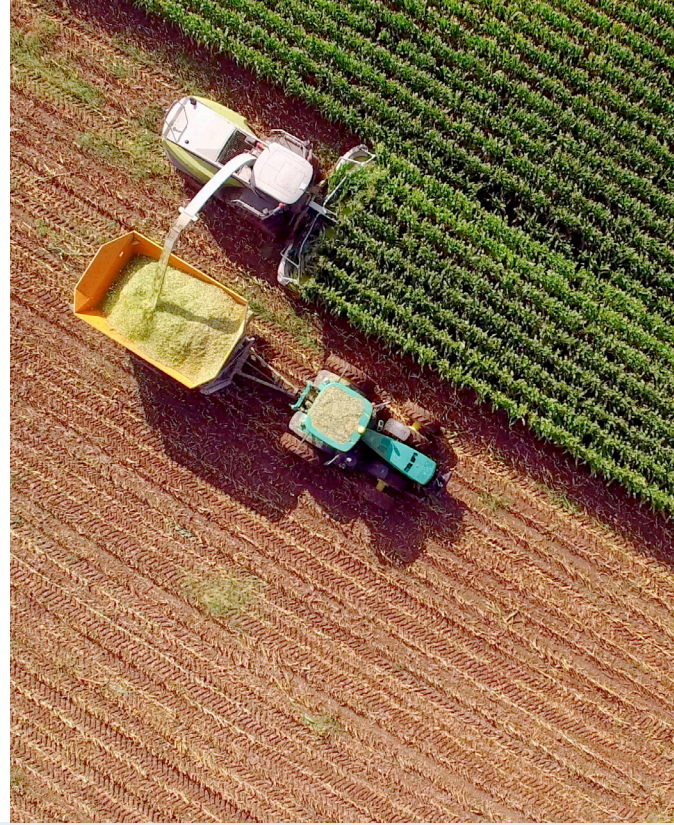




# The future of Agri-Tech: turning smart farming ideas into commercial reality

With our cross-industry experience and multi-skilled, collaborative approach to projects, Sagentia is ideally placed to work across the entire agricultural supply chain and is the perfect innovation partner for the Agri-Tech sector.

The core drivers for the agricultural sector, such as reducing costs, increasing productivity and efficiency, which leads to further farm automation, monitoring, and higher precision, are continuing the push for smart farming requirements. This should be achieved through the sharing of insight, ideas and understanding from within and beyond the sector.



We drive value to our clients through projects across:



## Monitoring

Crop and soil sensing;  
condition monitoring;  
animal health; imaging

Giving actionable  
insights and decision  
support for farm  
operations



## Automation

Robotic systems;  
control; transplanting;  
milking; harvesting

Solving labor  
shortages and  
reducing costs



## Precision

Chemical application;  
delivery; milking;  
picking; JIT logistics

Increasing productivity  
through pinpointed  
resource use



## Understand

market and technology  
opportunities, trends, risks

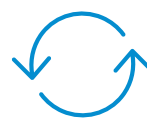
- VoC/market analysis
- Human factors
- Technology landscaping
- Opportunity discovery
- Innovation & IP strategy



## Solve

science and  
technology challenges

- System complexity
- Scientific analysis
- Technical feasibility
- Cost challenges
- New product concepts



## Develop

breakthrough products  
and systems

- Proof of principle
- Detailed design
- System architecture
- Prototypes
- Technology risk reduction



## Deliver

products better  
and faster

- Verification & validation
- Transfer to manufacture
- Faster time to market
- Tech knowledge transfer
- Manufacturing support

# The connected farm

We work across the entire agricultural supply chain and at every touchpoint of the connected farm.

## In your hands

- Single, central dashboard for up-to-date information; delivering actionable insights, enabling tactical and strategic planning

## Data and planning

- Uses a variety of data sources to identify and solve high priority problems: plan harvest, spread fertiliser, solve irrigation, pest control and weed management
- Predictive analytics based on external data sources such as: weather, climate, best practices, local knowledge

## Ground truth

- Distributed sensing units for soil moisture, NPK, crop growth, presence and identification
- Positioned static (in soil), on tractor or UAV based

## Controllable environments

- Indoor, hydroponic, aeroponic options
- Seed germination, hardening and transplantation for higher productivity
- Just-in-time logistics, automated warehousing for chemicals
- Crop storage including corn and wheat silos

## Animal diagnostics

- Sensing of: position, productivity, fertility, emotion, health and disease state
- Empowers farmers to make proactive choices to protect herds, increase yields and make smarter, earlier decisions

## Automated field solutions

- 24/7 operations to identify challenges and use novel means to solve problems
- Precision chemical delivery systems, new non-chemical corrective control systems, automated picking systems and harvesting