# sagentia innovation

a division of science group

## The Connected Farm

Sagentia Innovation works across the entire agricultural supply chain and at every touchpoint of the connected farm

#### **Ground truth**

Realtime insight into local soil and crop condition enabling informed interventions

- Distributed sensing units for soil (moisture, nitrogen/NPK), crop (health & growth), pest (identification and presence)
- Positioned static (in soil), on tractor, implement or UAV based
- Low power, long life, robust sensing and communications

#### Chemical and biological interventions

- Precision delivery systems that identify the issue and treat locally
- Formulation development
- Scouting for new active ingredients
- Regulatory guidance

#### Animal health monitoring

Empowering farmers to make proactive choices to protect herds, increase yields and make smart decisions

- Implantable, worn and remote solutions for monitoring of position, locomotion, productivity, fertility, health and disease state
- Veterinary diagnostic instruments
- Drug delivery systems

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#### In your hands

User-centred display of key metrics, insights and actions

- A single, central platform for up-to-date information, to enable tactical and strategic planning
- Tailored information for workers, managers and business owners

#### Data and planning

what to do, when, where and why

- pesticides
- climate, best practices, and local knowledge

**Automated solutions** 

- Working through a 24-hour cycle to identify challenges and use novel means to solve problems
- Precision chemical delivery systems, new non-chemical corrective control systems, and automated picking systems and harvesting

### Converting a wealth of data into actionable insights and to determine

- Using a variety of data sources to identify and solve high priority problems, plan harvests, spread fertiliser, solve irrigation, and apply

Predictive analytics based on external data sources such as: weather,

#### **Controllable environments**

- Indoor, hydroponic & aeroponic growing systems
- Seed germination and transplantation for higher productivity
- Just-in-time logistics, automated warehousing for chemicals and biologics
- Bioreactors and cell culturing facilities

