

Plant Vitality Accelerator Program

2025 PARTICIPANT PROFILE

D R Grains





D R GRAINS

Enabling safe, smart,
sustainable fumigation



The Fumigation Problem

Fumigation is essential for biosecurity and trade in agriculture, but current practices carry significant risks and inefficiencies.

Harzardous environments

Lack of traceability

Compliance pressures

Sustainability demands



Solution

D R Grains delivers an integrated hardware and software platform to modernise fumigation management.

Real time-visibility and traceability

Remote control of treatments

IoT connectivity

Automated sequence control

**Valid electronic treatment certificates
for compliance, hygiene verification
and GHG reporting**



Above: PPE in conventional fumigation practice



Right: The D R Grains prototype in use



Benefits

Enhanced Safety & Efficiency

Automated fumigation reduces labour, exposure risks and operations downtime

Compliance-Ready Data

Generates digital treatment records that support hygiene verification, carbon reporting and export requirements

Market Validated & Investment Ready

Led by industry experts with proven demand and strong potential for commercial scale-up

Supply Chain Trust

Delivers real-time traceability and defensible data to meet growing demands for transparency and assurance

Scalable & Differentiated

Modular design suits farms to export terminals, offering a unique blend of automation and compliance-grade tech



Markets

- Grain storage and export facilities
- Seed processors and bulk commodity exporters
- Post-harvest treatment providers
- Agri-supply chain logistics and Quality Assurance Partners
- Regulatory and biosecurity agencies



Validation

- Pilots conducted in commercial fumigation environments with strong industry engagement
- Proven interest from growers with grain storage facilities
- Support from Grains Research Development Corporation
- Designed in alignment with regulatory and audit standards for hygiene treatment certification and green house gas emissions reporting




About the Founder, Dale Reeves

Dale brings over 35 years of leadership in the grain export industry, spanning facility management, international trading, and industry advocacy. As founder of D R Grains, he is focused on transforming fumigation practices to improve safety and sustainability in on-farm grain storage. Drawing on his expertise in handling toxic and GHG-emitting fumigants, Dale is advancing IoT-enabled solutions for real-time monitoring and control. His work addresses critical industry challenges, helping to protect people, meet regulatory demands, and support sustainable grain supply chains.



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