



CROP PROTECTION STANDARDS CASE STUDY 1 Crop Protection Track & Trace

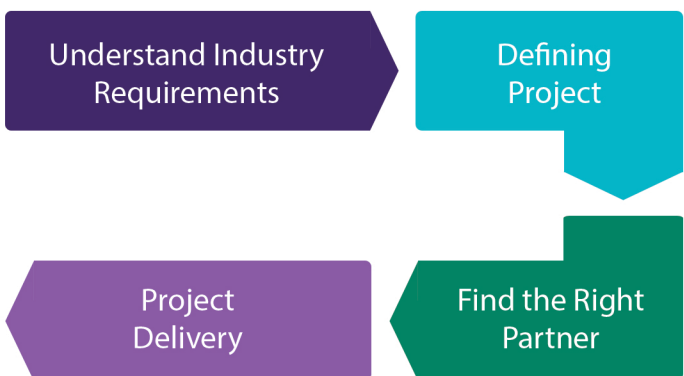
Understanding Industry Requirements

Agrochemical Track and Trace is a way of protecting human health, helping to ensure residues on our foods are below set limits. It enables products to be followed from production to the field. It also helps in the fight to prevent counterfeiting which can be a serious problem for agrochemicals, potentially risking health and causing economic damage.

In 1992, the European Plant Protection Authority (ECPA) developed the system called CRISTAL (Communicating Reliable Information Systems to Agriculture and Logistics) to allow digital traceability throughout the EU. In 2016, SC Trace became mandatory in France and other countries continue to implement this.

CRISTAL common practice for coding is based on the widely used standards across industries called GS1.

As a contract manufacturer to many of the world's leading crop protection companies, Exwold packs hundreds of tonnes of granules each year going directly to distributors throughout Europe. To maintain our status as a major supplier, it is critical that we meet and comply with the industry standards and requirements.



Defining the Project

Exwold has six packing lines at three different locations. Flexibility is key to Exwold's business with packing lines needing to be multipurpose and agile. The challenge is to find a solution, where a single packing line manages an array of different pack sizes and types, including: bottles, jerricans, foil bags, bag in boxes etc.

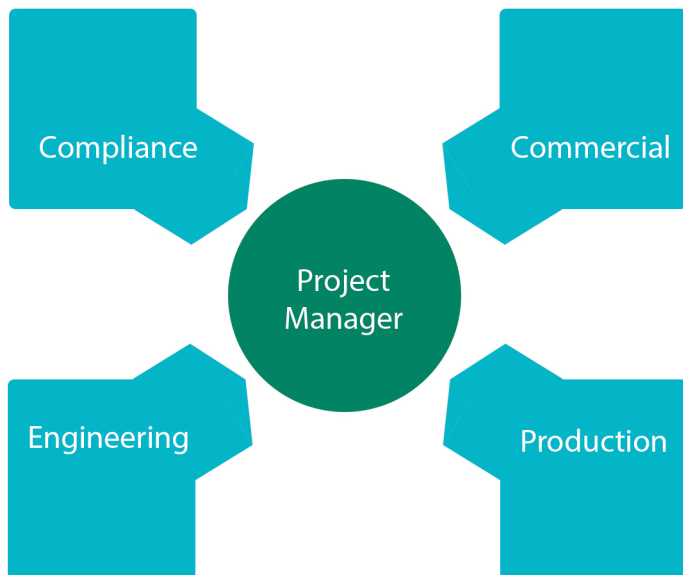
Our clients invest considerable resource in designing their packaging requirements, and in meeting regulatory needs, and so a single solution was not initially obvious.

Increased Regulatory Compliance	Maintain Flexibility of Packing Lines	Track Back and Trace Genealogy
Flexibility to Integrate Other Systems	Improve Efficiency and Performance	Future Proof for Changing Requirements
Reduce Manual Intervention	Enhance Quality	Cost Effective Solution

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Finding and Working with the Right Partner

In-house, a project manager was appointed, and a project team formed, to ensure experts were available across relevant functions.



It was essential that the chosen partner understood the unique nature of Exwold's packing capability and had the experience to determine what digital technology could be utilised.

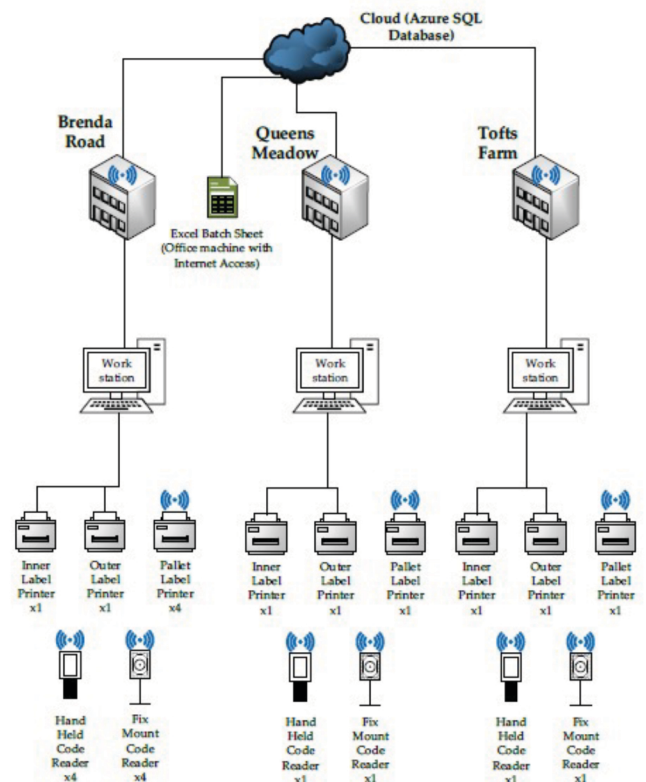
That partner was ITS, who had already successfully delivered digital solutions for Exwold.

Project Delivery

The final solution consisted of:

- A combination of handheld and fixed scanners to ensure we maintain the packing line flexibility.

- Printers enabling the operation staff to label on line.
- Workstations, which reduce manual intervention and easier access to data.



Project Timeline

