

SMARTER INDUSTRIES

Material Flow Traceability System

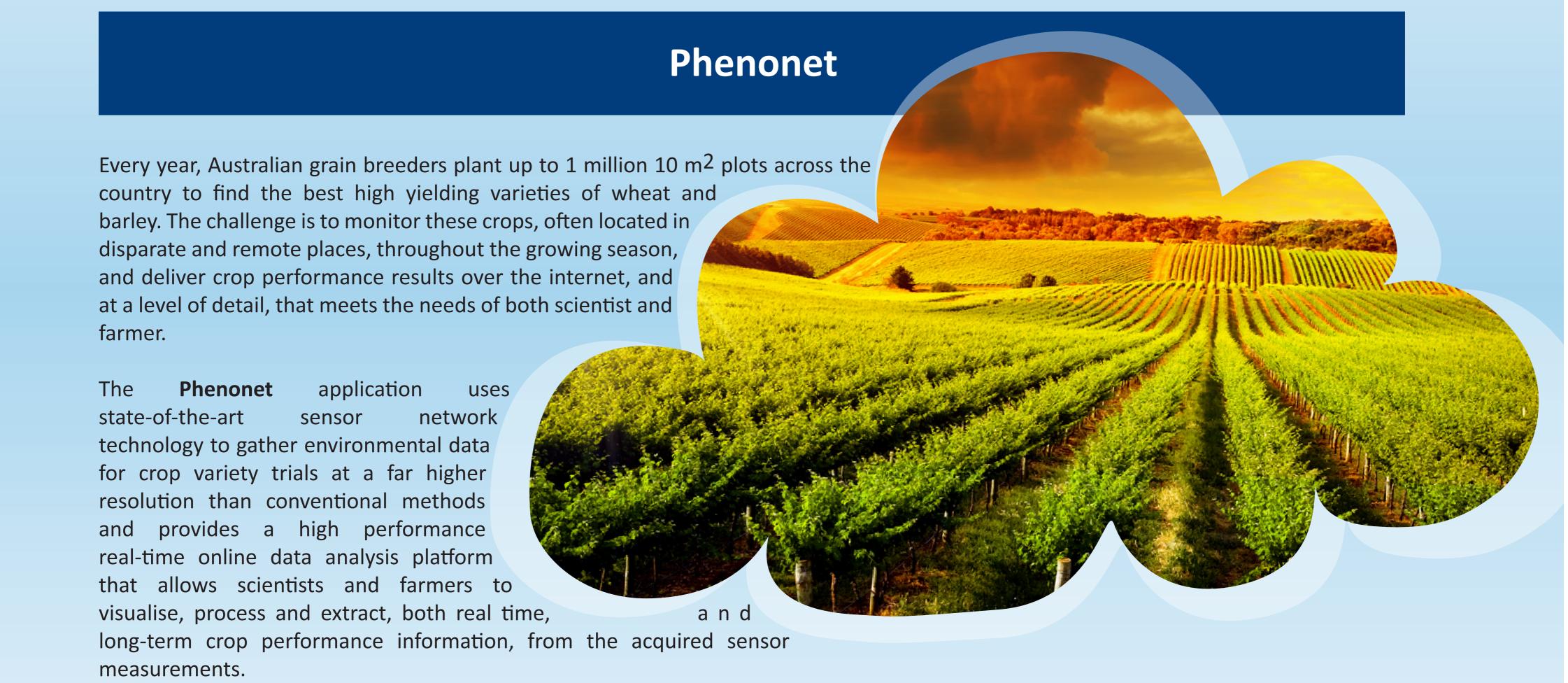
OpenIoT will integrate a Material Flow Traceability System in the packaging industry, focusing on processes for printing, die-cutting, folding and gluing of medicine boxes. In this environment, several sensors are used to facilitate production line automation

> and quality control, such as laser sensors, high-speed 1D/2D barcode verification cameras, weight, contrast/colour and ultrasonic sensors. These sensors are combined into virtual sensors and used to identify events.

The OpenIoT cloud based middleware will enable the dynamic on-demand formulation, calculation and visualisation of Key Performance Indicators (KPI), based on the intelligent selection of virtual sensors and filtering of their information. Instead of pre-programming manufacturing performance reports, OpenIoT will

enable dynamic performance monitoring.

KPIs are to be calculated across multiple production lines, and include: consumption rates and amount of scrap produced, machine speeds, product container production rate, efficiency of machines, setup times and machine speed in their various modes (setup/repair/idle/operation).



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