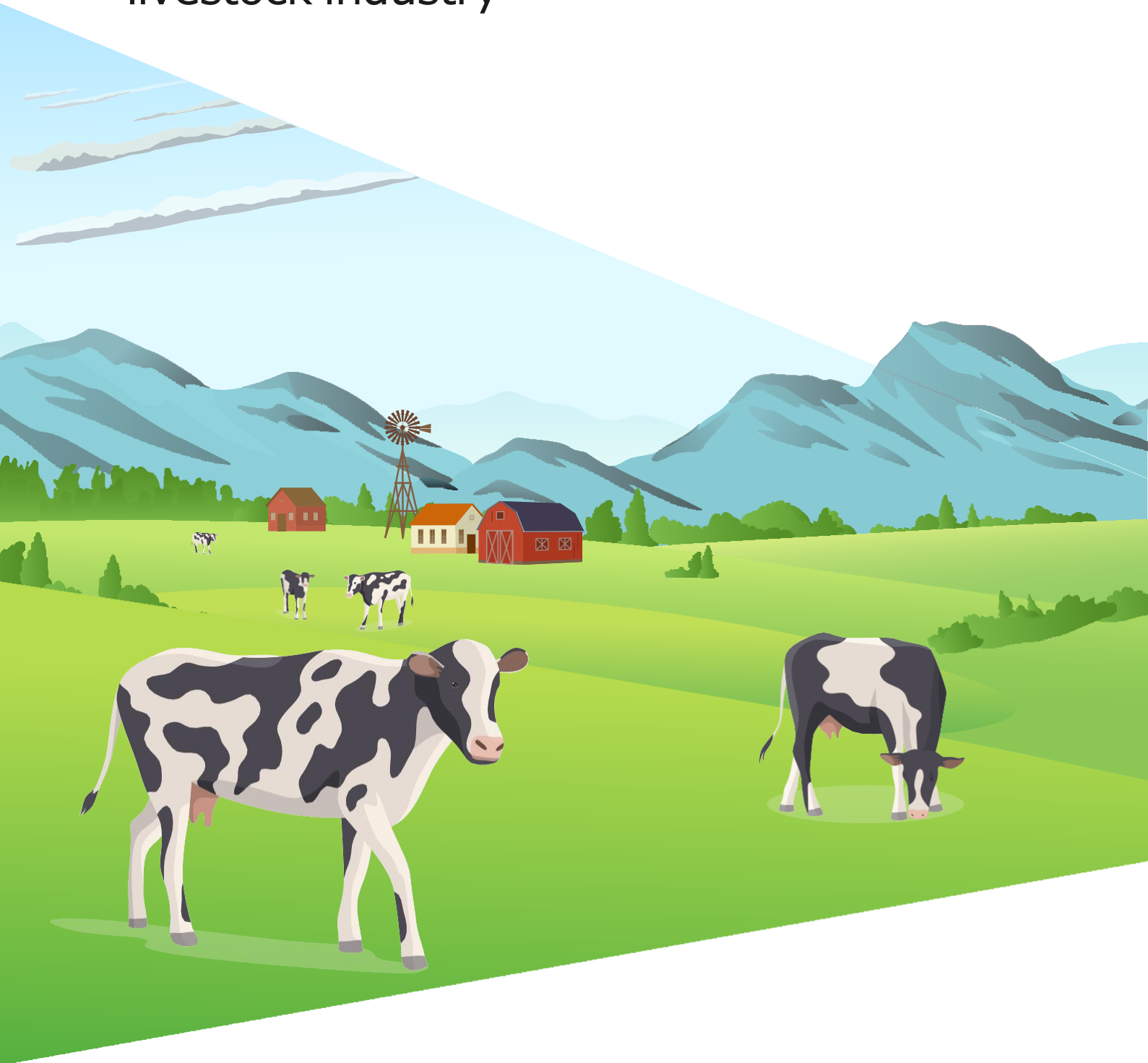# Grass To Glass (G2G)

Digital ecosystem platform for dairy & livestock industry

State of the art platform enabling digital transformation in dairy and livestock industry which would increase milk production, quality, enable cold chain monitoring, tracking and traceability of milk and dairy products through-out value chain, making farming more sustainable by real time strategic and tactical management of individual bovine, asset, equipment and stakeholders in the ecosystem.

What does it do?

Meeting an ever increasing demand for dairy requires better technology for improving milk yield and health management of cows which traditional farming cannot fulfil.

The HCL G2G platform, based on state-of-the-art frameworks such as IoT and different AI, ML techniques, assist industry to
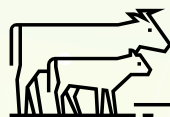
Increase milk production and quality by sending real time health monitoring, feed, reproduction management, and insight of the individual cow and the strategic, tactical and operational level of management of the dairy farms.

Help dairy farms or companies to manage and monetize solid waste and drained water by recycling them into bio-energy or reusing them for growing legumes for cattle.

Track and trace milk through-out transport and avoid spillage, spoilage or contamination

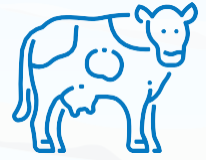**E**nable precision insurance for cattle, etc.

Solution salient features

G2G is natively developed over SAP BTP Kyma runtime that uses SAP Fiori frontend. It leverages SAP IoT to receive data from sensors (via gateways placed in the farms), which helps in,

Feed management

Feed alone constitute 60 per cent of the production cost of milk. Hence, feeding management plays a vital role in farm economy. Our solution helps in monitoring the nutrient requirement for maintenance as well as for milk production and to meet the fat percentage in milk and gestation. Proper feed management can bring down the feed cost per cattle significantly.

Reproduction management

Reproductive management is achieved by identifying and managing animals to carry out reproductive programs, keeping records like percent calf crop, pregnancy rate, length of calving season, and calf morbidity and mortality. The reproduction or pregnancy rate can be improved up to 34%.

Improve milk productivity and quality

The solution continuously monitor the health of individual of cattle, perform diagnosis and provide insights into cattle health as early as possible. Sensors map temperature, heart rate etc., and this data is aggregated and reported to health care center. This reduces the minimal health inspection and long term animal healthcare cost. Improving cattle health improves the productivity up to 44%.

Farm operations management

Our solution helps in day to day farm operations including, production, milking, calf/heifer, feed, finances, and employee labor management.

Implementation

Cloud Product-Minimal configuration needed

Services

Minimal customization, Extensions/Customer Adaptations

Consulting Services, Sensors and hardware kit

Pricing

Will be based on the following considerations:

Price for Customer Cloud Solution (Usage based/ consumption based pricing)

Additional Services Based Price -Subject to agreed scope with the customer

Why HCL?

Strong Heritage in Smart Product Engineering

Uncovering Business Value and New Revenue Stream

Industry Leading Client Success and Analyst Ratings

Consistent deliverance of industry specific client requirements

For more details, please contact
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