# ENVIRONMENTAL MONITORING OF LIVESTOCK HOUSING

**Real-time monitoring for healthier animals and better farm performance**

## Technology

This use case improves livestock housing conditions using LoRaWAN wireless sensors that continuously measure temperature and humidity. A live dashboard visualises real-time data, allowing farmers to track and respond to environmental changes inside barns and housing units.

## The Need for Farmers

› The climate (or even micro-climate) in livestock housing is rarely monitored, and uncomfortable conditions often go unnoticed

› Managing changes in ambient temperature and humidity is crucial for animal health and performance

## Benefits

**01** **Smart sensors** provide 24/7 tracking of temperature, humidity and air quality

**02** **Early alerts** help stockpersons respond to extreme conditions

**03** **Reduces animal stress and illness** – improving productivity & lowering veterinary costs

### Why Rural Connectivity Matters?

*Without strong wireless connectivity, farmers miss live updates on housing conditions, delaying action that could protect animal health and welfare.*

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