

→ YNEVAL



Company Overview

Dyneval is an agri-biotech company developing a portable semen analyser for livestock. Incorporated in 2020 by former University of Edinburgh physicists Dr Tiffany Wood and Dr Vincent Martinez,, Dyneval's flagship product delivers precise, video-based analysis of microscopic semen motility. This enables rapid, on-farm assessment of livestock fertility by continuously measuring sperm quality, a capability that was previously unavailable.

Key Challenges Addressed

Tackling critical challenges in animal-reproduction and sustainability, including declining fertility and inefficient breeding in livestock, is Dyneval's core focus. In recent years, conception rates in cattle have fallen, costing the average UK dairy farmer thousands of pounds a year, putting pressure on both productivity and profitability. Although Sperm motility is a critical predictor of fertility, traditional semen tests are often static, subjective or poorly suited to on-farm decision making.

Dyneval's technology applies advanced physics, video analysis and precise, automated motility measurement to quantify sperm motility over time under realistic conditions that mimic the reproductive tract. By precisely measuring sperm motility over time, the company's Dynescan platform aims to boost conception rates by up to 27% and significantly reduce the carbon footprint of livestock farming.

Role of Roslin Innovation Centre

The company's move to Roslin Innovation Centre in 2021 has contributed to its growth and impact. Access to the advanced facilities have provided Dyneval with the space for hardware manufacturing and wet labs for conducting semen analysis. Benefiting from ready-to-go laboratory and office space has allowed Dyneval to refine its semen analysis technology, expand its team, and accelerate commercialisation while remaining operationally lean.



Through their tenancy journey, Dyneval participated in the University of Edinburgh's AI Accelerator programme, gaining access to AI expertise, student placements, and valuable pitching experience. Innovation funding from Scottish Enterprise and Innovate UK has further strengthened Dyneval's foundations, providing financial support and credibility as the company has scaled globally and introduced their flagship product in South America.

The facilities at Roslin Innovation Centre, combined with its proximity to the University of Edinburgh's state-of-the-art research infrastructure and research opportunities, have translated into real world impact with Dyneval's patented portable analyser, Dynescan, transforming livestock fertility management.