

SmartSight
Locomotion Monitoring

Because every step counts.

Early lameness detection with
AI-powered vision technology.

Improving life on the farm

 nedap

Why tackling lameness matters more than you think.

Is lameness impacting your bottom line?

Around 90% of dairy cows suffer from lameness, once or often multiple times in their lifetime. It's among the top three reasons for involuntary culling, accounting for 15% of all dairy cow culls worldwide.

That's no coincidence. Lameness affects almost every vital function – from walking and eating to heat expression and recovery.

The damage?

- Direct costs for treatment and additional labour
- Lost revenue due to 10–30% lower milk production
- Premature culling
- Reduced fertility
- Increased risk of other health issues
- Lower animal welfare outcomes

The financial impact can be significant, with an average cost of \$8.00 per lame cow per day, based on an average yearly incidence rate of 50%*.

Yet lameness remains one of the most underestimated challenges on farm. Many farmers believe only 5–10% of their herd is affected, when the reality is closer to 20–25%. Sound familiar?

Make every step count.

The good news?

Most lameness damage is preventable. The sooner you detect and treat it, the smaller the impact. And the truth is: many farmers want to act sooner, but lack time, labour and objective signals or data to follow proper hoof care protocols.

With Nedap SmartSight, that changes.

It automatically monitors each cows' locomotion multiple times per day, using AI-powered vision technology. It detects subtle signs of lameness – even before they are visible – and provides reliable insights into locomotion scores, treatment and recovery.

The result?

Faster action and targeted treatment, ensuring:

- Fewer severe cases
- Reduced treatment time and costs
- Preserved milk yield and fertility
- Improved cow health and welfare.



How it works

SmartSight monitors each cow's locomotion at every milking. The system is easy to use and simple to apply within almost any farm setup. It's proven through years of on-farm use, data analysis and machine learning. And, it's powered by Nedap's trusted cow monitoring platform.



1. ID

The cow is identified passing through the milking shed entrance, exit, race lane or sort gate – using Nedap's proven SmartID.



2. SmartSight camera

The top-view 3D camera scans her body and movement patterns at each milking, every day. It's capable of scoring 1000+ cows per hour, without interrupting cow flow.



3. AI-powered software

Camera observations are turned into locomotion data and insights through AI-powered software. Data is processed on-farm without storage, so your privacy is covered.



4. Insights in Nedap Now

Lameness checks, recovery insights and locomotion scores are presented in a user-friendly way within Nedap Now. Accessible anytime, anywhere via PC, smartphone and the Nedap Now app.

Locomotion monitoring: Features unpacked

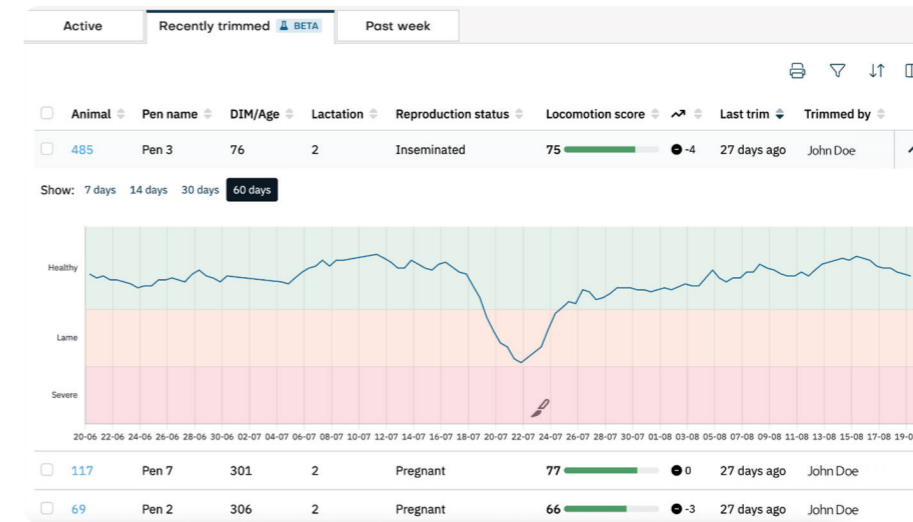
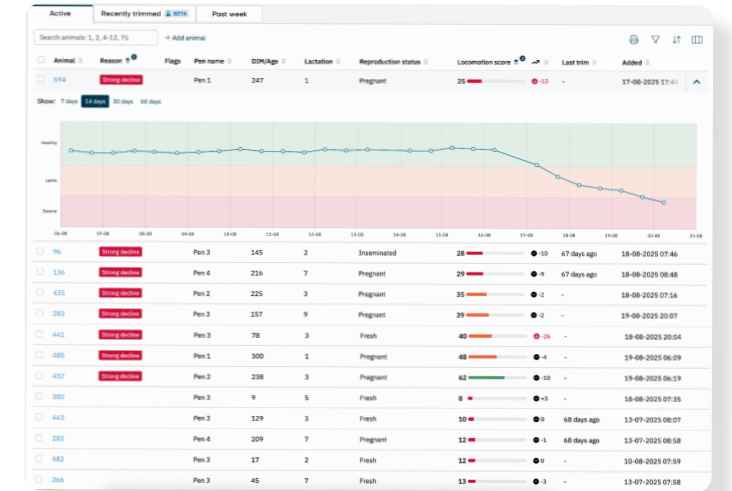
Lameness checks

What do you see?

A worklist with cows that need a hoof inspection. Cows are ranked based on priority.

Why it matters?

Early detection and prompt, effective treatment is the key to improve hoof health outcomes. The lameness checks list is the tool for early detection.



Recovery

What do you see?

Trend in locomotion scores for cows that have recently been treated.

Why it matters?

Monitor if the locomotion of the cow has improved and thus the treatment has been effective. Gain insight on cows that might need a recheck.

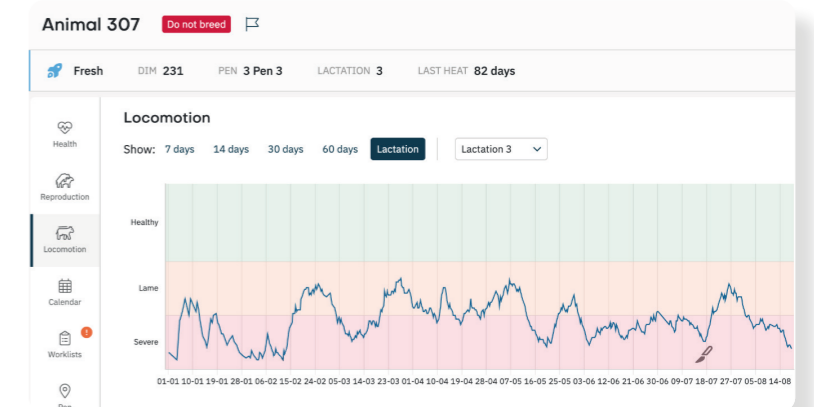
Locomotion score

What do you see?

A graph with the locomotion and treatment events of an individual cow over time.

Why it matters?

It assists the farm staff with all the hoof health information for a cow in one place.



“When we installed the SmartSight system, one of the most impressive things about it was, it was picking up cows that we wouldn’t have considered lame.”

Joe O’Grady



Combine and expand with other Nedap solutions

Discover the possibilities of Nedap's complete and flexible cow monitoring platform. Combine SmartSight with SmartSort to easily sort cows for treatment. Expand with SmartTags and SmartFlow to get a comprehensive view of each cow.

Want to know more or recieve a demo or quote?

Visit nedap-livestockmanagement.co.nz/smartsight
or scan the QR-code to learn how our trusted
technology can transform your dairy operation.



Nedap New Zealand Ltd.
Level 4
287-293 Durham Street North
Christchurch, 8013
New Zealand

oceania-lm@nedap.com



The information is provided for informational purposes only and does not constitute an offer, guarantee, or warranty of any kind. While every effort is made to ensure accuracy, Nedap N.V. accepts no responsibility for errors, omissions, or inaccuracies in the content, nor for any deviations between the information provided and actual performance or results. All content is presented "as is" and no rights can be derived from it. Product features, specifications and availability are subject to change without notice and may vary by region due to local regulations or market conditions. Nedap N.V. disclaims all express or implied warranties, including but not limited to, warranties of merchantability, fitness for a particular purpose, and non-infringement. Copyright Nedap ©2025. All rights reserved.