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## **smaXtec revolutionises in-vivo health management with closed-loop system for the dairy industry**

smaXtec, a trailblazer in the field of in-vivo health management, has rapidly gained recognition as the most advanced and fastest-growing health management system for the dairy industry. At the heart of this groundbreaking technology lies the "bolus", a sophisticated sensor measuring directly inside the cow's reticulum. The bolus continuously monitors critical parameters, including inner body temperature, water intake and drinking cycles, rumination and activity with unparalleled precision. This wealth of data empowers artificial intelligence (AI) algorithms to predict health outcomes, enabling farmers to act proactively regarding health issues, preventing clinical symptoms.

### **Taking health management into a new era: the closed-loop system**

The latest patent-pending development from smaXtec elevates this strategy to an unprecedented level. Based on the precisely measured parameters, the system will in future activate a "closed-loop" mechanism. A micromechanical device, seamlessly integrated into the bolus, which reacts dynamically to the cow's needs. When demand arises it precisely releases medication or feed supplements as required. This individualised approach in real time ensures optimal and automated health management for each individual animal.

Dr. Stefan Scherer, CEO of smaXtec, shares his enthusiasm: "This marks an exciting leap into the era of active health management within the dairy industry."

### **Seeking collaborators for the future**

smaXtec is actively seeking development partners to explore applications for this innovative drug and feed additive release system. The company's open call for collaboration invites experts from various fields, including e.g. pharmaceuticals and nutrient supplement companies, to contribute to the next phase of innovation in health management within the dairy industry. By joining forces with industry experts, smaXtec aims to unlock new possibilities and enhance animal welfare across dairy farms worldwide.

Dr. Stefan Scherer elaborates on the collaboration opportunities: "We believe that true

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innovation excels by combining knowledge and competences across industries. We welcome partnerships that will help us develop our closed-loop system and are looking forward to the ideas potential project partners come up with.”

More information about the smaXtec health management system and its innovative bolus technology is available [here](#).

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**About smaXtec**

We offer professional dairy farmers the most technologically advanced health management system aimed at preventing diseases in dairy cows. As a result, farmers achieve stable high milk yields, reduce the use of antibiotics and significantly increase animal welfare. The latest smaXtec innovation is TruAdvice, a technology based on artificial intelligence that provides disease indication notifications. This artificial intelligence supports farmers in taking even faster and more targeted action. The high-quality data and comprehensive analysis make it possible to organise daily tasks and the entire work process on dairy farms more efficiently. In this way, we are making an important contribution to the stability and profitability of dairy farming worldwide.

For more information, please visit us at [smaXtec.com](https://smaXtec.com)