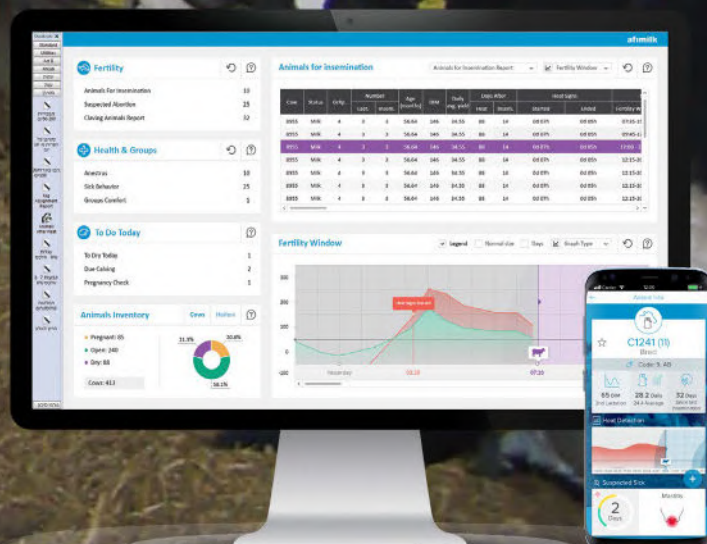# Cow Monitoring Solutions

2019

![afimilk logo]

afimilk®

Vital know-how in every drop

Vital Knowhow in Every Step

Afimilk's cow monitoring solutions will help you save time, keep your herd healthy and make more money.

AfiAct II

The most accurate leg tag yet, fully integrated with AfiFarm, the leading farm management sofware

Afimilk Silent Herdsman

The most advanced neck collar, along with a simple, user-friendly software, convenient onsite touch screen and a fully featured mobile app

AfiAct II

The World's Leading
LEG TAG
for cow monitoring

integrated with
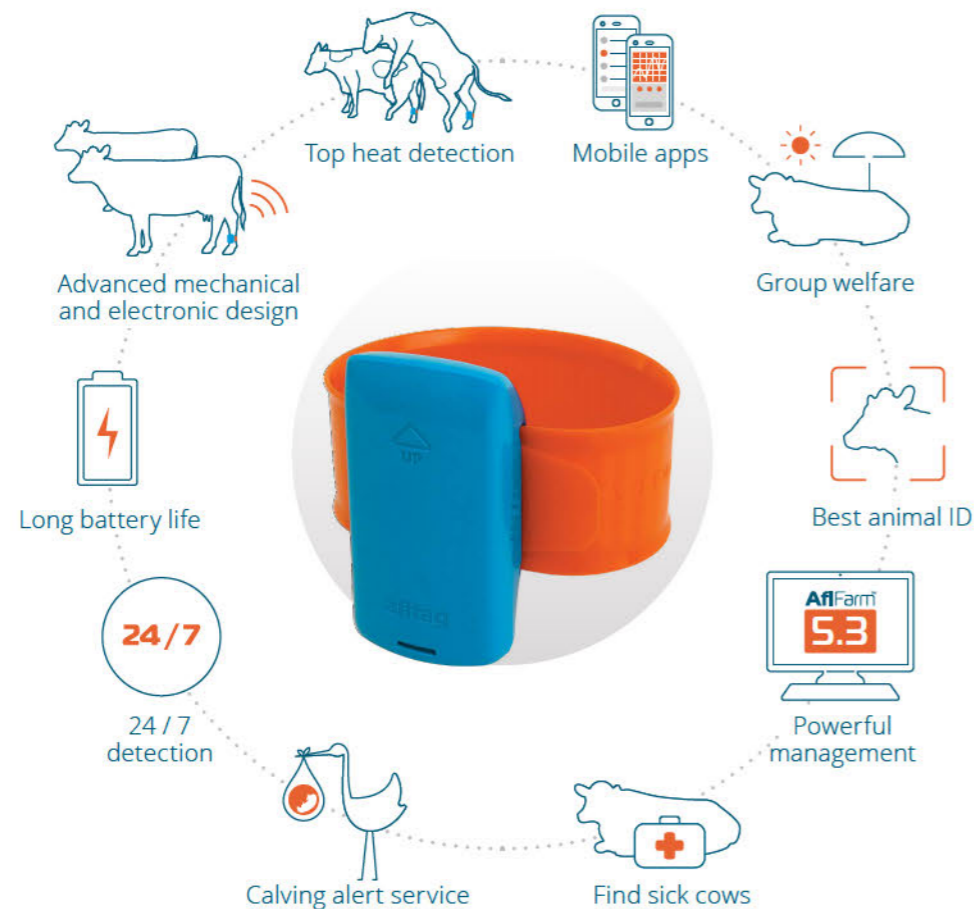
AfiFarm
comprehensive farm
management software

- ✓ Heat detection, calving alert and wellbeing
- ✓ Mobile applications
- ✓ 24/7 wireless communication
- ✓ Complete farm management

Today's Most Advanced Cow Leg Sensor

Top Heat Detection, Animal ID and Premium Features in a Single Package

- Top heat detection
- Mobile apps
- Group welfare
- Best animal ID
- Powerful management (AfiFarm 5.3)
- Find sick cows
- Calving alert service
- 24/7 detection
- Long battery life
- Advanced mechanical and electronic design

Premium features in a single package

Best heat detection, 24/7 -
helps improve pregnancy rate with accurate and time sensitive heat detection that enables you to identify **which** cows should be inseminated and **when**.

Animal ID -
performed easily with Afimilk's unique antenna technology.

Unique set of premium features -
calving alert service allows for intervention when needed. Alerts on rest time and health problems help keep your herd healthy and productive.

Mechanical design -
made to last and withstand the harshest farm conditions, designed to reduce collection of manure.

Durable battery -
designed to last for many years.

The Smartest Fertility Management Software

The AfiAct II solution uses the most advanced algorithms and accurate heat detection sensors to help you improve pregnancy rate:

Most sensitive
Consistent winner in detection benchmark tests.

Most reliable
High-quality heat detection with almost no false alarms.
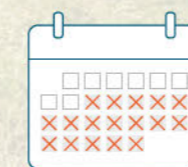
Proven
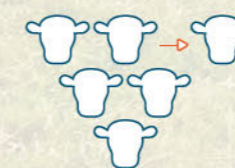Validated on millions of animals in 50 different countries.

Unique algorithms
Developed and tested specifically for heifers and cows, and in both free-stall and grazing regimes.

Adaptive to versatile work protocols
Multiple breeding, single breeding, ov-sync, and more.

- Save up to 30 open days per cow per lactation
- Reduced involuntary culling
- Labor savings
- Proven accuracy

The Best Has Gotten Even Better
AfiAct II Premium Services

Calving alert service

Timely calving detection can make the difference between losing or saving offspring and cows.
With the AfiAct II calving alert service, you can now receive notifications directly to your smartphone:

☑ **Time-sensitive alerts**
2-4 hours before calving.

☑ **Special prolonged calving alerts**
Crucial for intervention.

☑ **Proven**
Successfully used on hundreds of farms in multiple countries.

☑ **Easy**
All you need is a smartphone (iOS or Android).

Rest, health and wellbeing

Better monitoring and improved production
Cows need to rest! - rested cows produce more milk.

Research shows that:

one lost hour of resting time translates into **=** **1 kg** less milk in the tank!

With AfiAct II (as of version 5.2), you can be alerted about problems such as bedding conditions, that cause rest decline - identify the problem and fix it.

Key Data at Your Fingertips

Intuitive mobile apps for the effective mobile manager

Afi2Go Pro:
Everything you need to know, everything you need to do

- ☑ Key information at your fingertips: animal status, events, and more
- ☑ Search for animal - type her number, or use a Bluetoorh RFID wand
- ☑ Assign tags, assign codes, inseminate, conduct treatments, all from your mobile

Farm Notifications App:
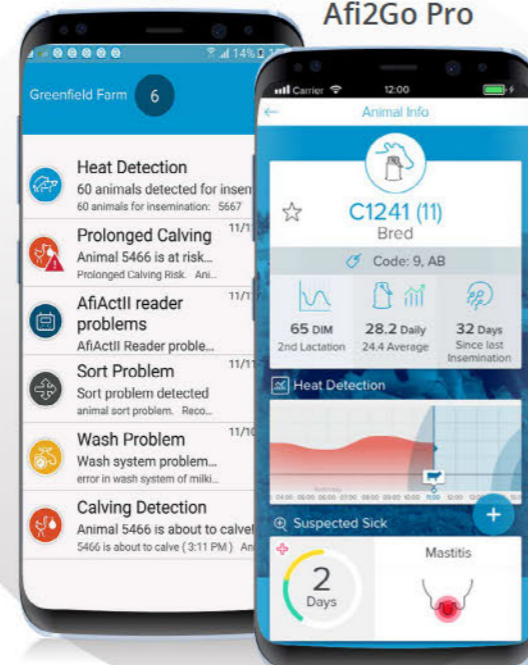Stay alert with real time notifications

Time-sensitive events now appear directly on your smartphone, displayed as splash pop-up notifications.
They can be browsed at all times in your farm-notification inbox.

- ☑ Animals for insemination
- ☑ Calving alerts
- ☑ System alerts

Farm Notifications app

Afi2Go Pro

ANDROID APP ON
Google play

Available on the iPhone
App Store

Greenfield Farm · 6

Heat Detection
60 animals detected for insem
60 animals for insemination: 5667

Prolonged Calving
Animal 5466 is at risk...
Prolonged Calving Risk. Ani...

AfiActII reader problems
AfiActII Reader proble...

Sort Problem
Sort problem detected
animal sort problem. Reco...

Wash Problem
Wash system problem...
error in wash system of milki...

Calving Detection
Animal 5466 is about to calve...
5466 is about to calve (3:11 PM) Ani...

Animal Info

☆ **C1241 (11)**
Bred
Code: 9, AB

65 DIM 2nd Lactation | **28.2 Daily** 24.4 Average | **32 Days** Since last Insemination

Heat Detection

Suspected Sick
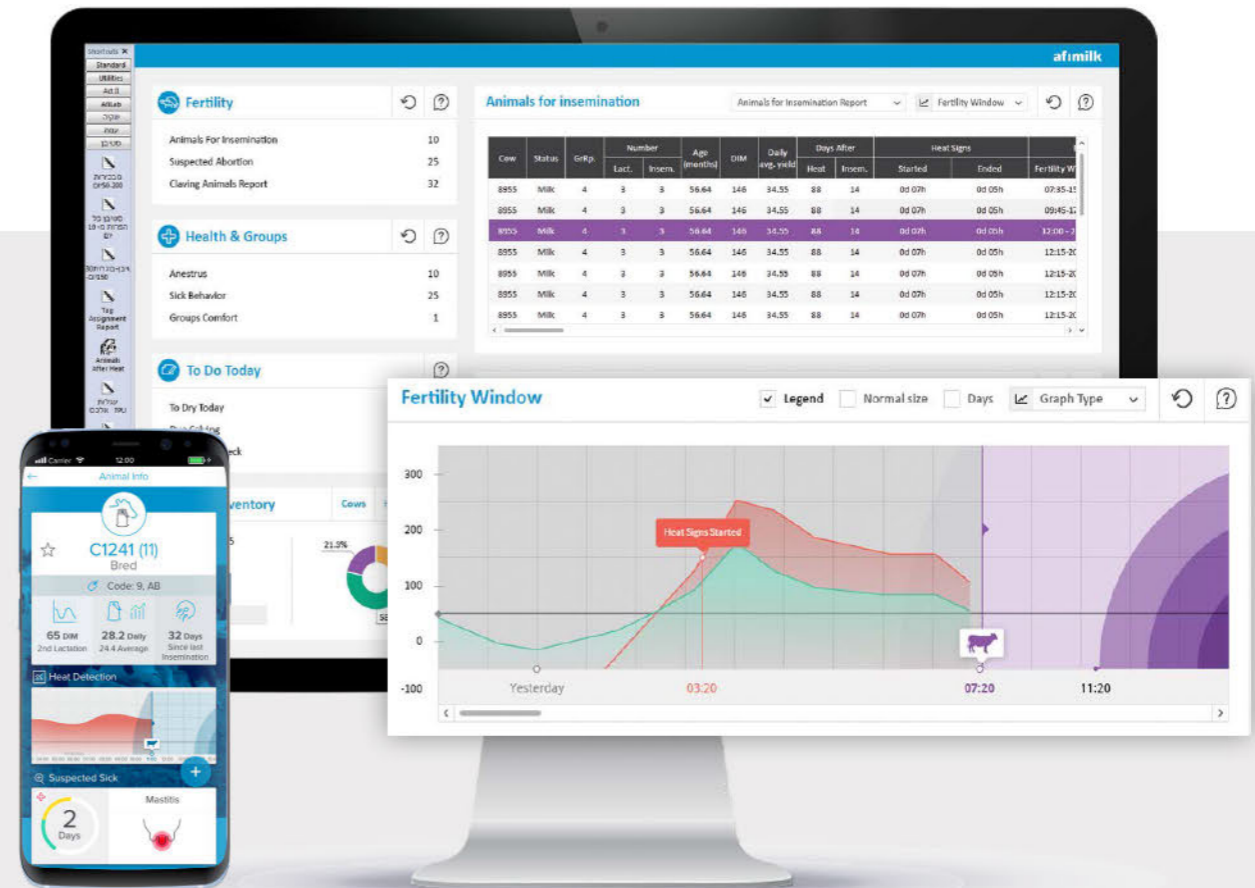
2 Days

Mastitis

A Match Made In Heaven

The best cow monitoring tool

The best farm management tool

The AfiAct II cow monitoring tool and AfiFarm 5.3 farm management solution integrate into the perfect solution that includes:
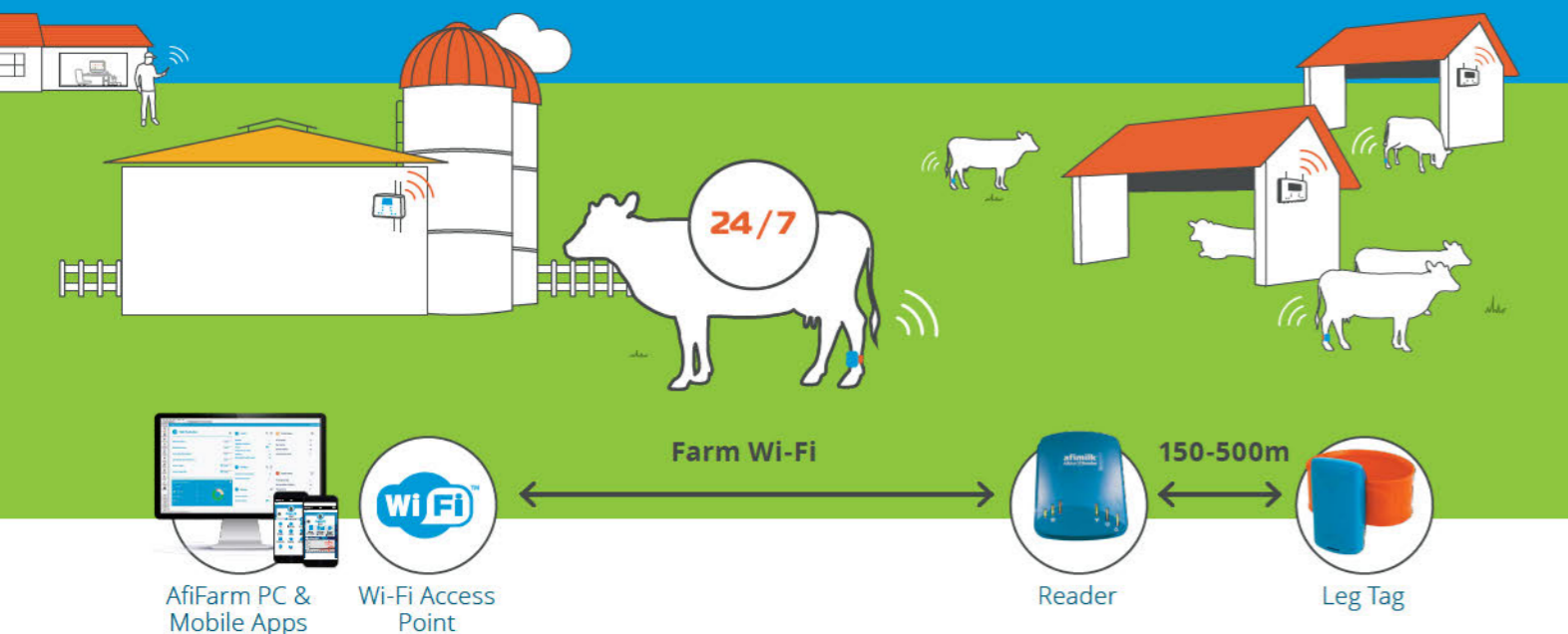
- **Cow ID in the milking parlor and sort gate** - proprietary active ID technology built into the sensor

- **Combined multiple sensor algorithms** - analyze the combination of behavioral changes (using AfiAct II), and milk changes (using Inline Milk Lab)

- **Great heat detection, great management tools** - AfiFarm is the management tool that helps you make decisions and monitor their execution

- **Find animals requiring attention, and sort them** - with the best and most flexible automated routine and procedures

- **Single software** - for heat detection, herd management, milk recording and parlor automation

Best timing for inseminations: Find out which cows to inseminate - and when

NEW

- Not only will AfiFarm help you detect animals in heat and mark them for insemination, it will also indicate what is the best timing of insemination.

- In case the farmer can influence the insemination time - achieve better conception rate

- In case insemination timing is too remote - save money and avoid useless insemination

AfiAct II wireless transmission - so your decisions are always up-to-date

Farm Wi-Fi

150-500m

AfiFarm PC & Mobile Apps

Wi-Fi Access Point

Reader

Leg Tag

24/7 wireless reading - wherever the animals are

- ☑ 24/7 tag reading allows maximal management flexibility
- ☑ Electric design ensures battery will last for years
- ☑ Wireless communication to monitor milk cows, dry cows and heifers alike
- ☑ Easy setup using the farm's WiFi

Heat detection - which animals to inseminate - and when to inseminate them

When it's insemination time, you want the most updated heat detection list possible. With AfiAct II wireless tags are read every few minutes.

Monitoring the heat as it develops, AfiAct II is a powerful tool that optimizes insemination timing for each animal, improves the chances of conception and increases the farm's pregnancy rate.

Pregnancy rate
increased from **15%** to **24**%

> At first it was hard for me to admit that an electronic heat detection system is needed. Now i can't live without it... My pregnancy rate improved dramatically from 15% to 24%...
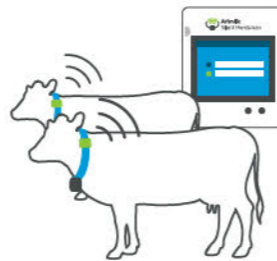
John Hochstetler
Crystal Valley Dairy
Middlebury Indiana, USA

Afimilk
Silent Herdsman
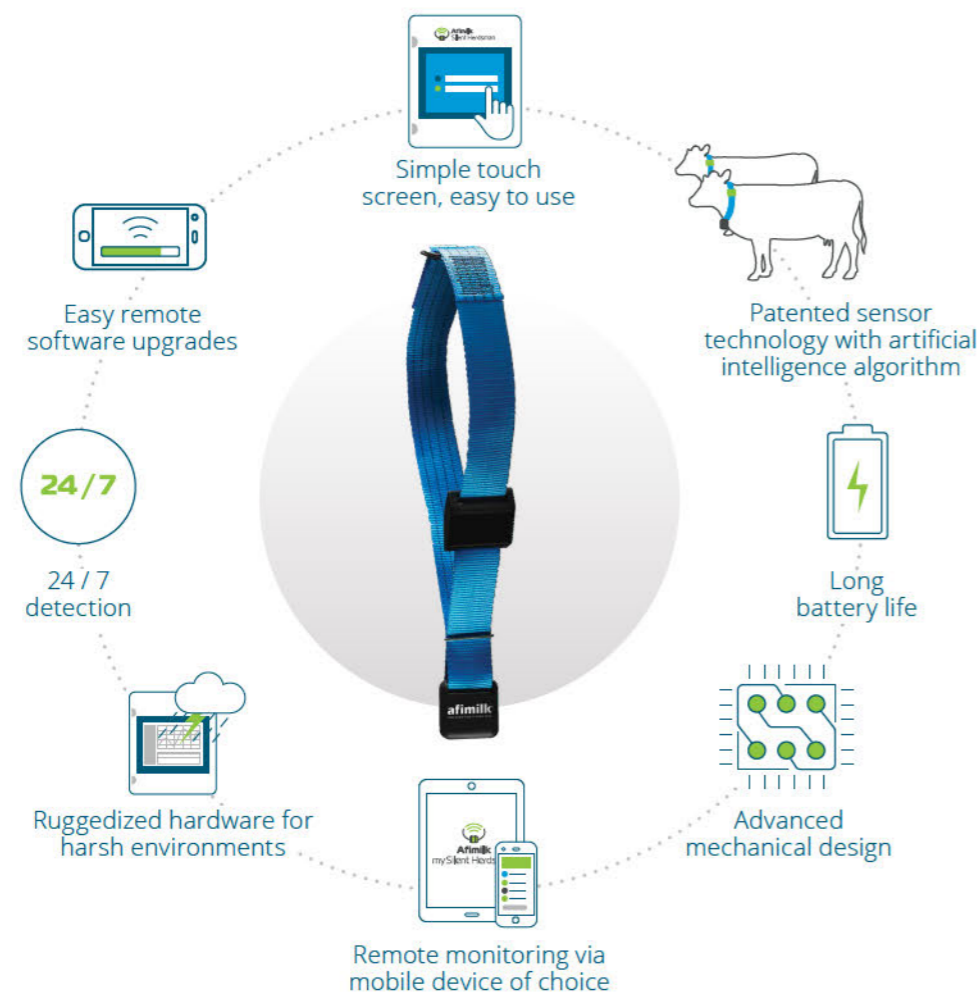
Advanced
Neck Collar
for cow monitoring

with advanced
easy-to-use
standalone
monitoring software

- ☑ Heat detection and health
- ☑ Simple software with a touchscreen and cloud connection
- ☑ 24/7 wireless detection

Healthier and Better Performing Cows with Afimilk Silent Herdsman

Simple touch screen, easy to use

Easy remote software upgrades

Patented sensor technology with artificial intelligence algorithm

24/7

24 / 7 detection

Long battery life

Ruggedized hardware for harsh environments

Advanced mechanical design

Remote monitoring via mobile device of choice

Silent Herdsman collars – Market-leading technology

- ☑ Only product to monitor heat and health with high accuracy
- ☑ Advanced algorithms using a 3D accelerometer (patented)
- ☑ Durable long-life battery, and advanced mechanical design to protect it
- ☑ Long range wireless technology

User-friendly controller with web and mobile access

- ☑ Full cloud-based mobile/web - access it anytime, anywhere (PC or smartphone)
- ☑ Easy-to-set-up controller with convenient 15" touch display

Patented, unique technology provides unmatched heat detection and health monitoring

The **Silent Herdsman** collar uses a unique 3D accelerometer to effectively monitor different motion patterns (chewing/licking, ruminating and full body activity) with dramatically higher accuracy than other collars.

Heat detection that stands out

The Silent Herdsman collar provides 95% detection sensitivity, and special algorithms optimized for cows and heifers, and for versatile regimes such as closed barns and pasture.
Silent Herdsman uses the following parameters for optimal fertility management:

- ☑ Heat detection/animals for insemination
- ☑ Administrative lists: due heat and PD check
- ☑ Non-cycling and repeatedly cycling cows

3 sensors in 1 package – a unique tool for health monitoring

Rumination is a sensitive and early indicator for health issues. However, as there are multiple factors that may cause a drop in rumination, which is highly susceptive to false alarm, this device combines rumination, chewing, and activity detection.
The Silent Herdsman collar offers accurate health monitoring and alerts farmers to health issues such as:

- ☑ E. coli mastitis
- ☑ Foot problems
- ☑ Ketosis/acidosis
- ☑ Pneumonia
- ☑ Rumen problems
- ☑ Cystic cows

The Most Advanced Software Architecture on the Market

Farm controller with touchscreen and cloud-based application for remote PC and mobile

Afraid of computers?

Don't be, with this simple and easy cow monitoring tool.

Get all the functionality you need on a single screen - within 15 minutes you'll feel as if you've been using it for decades!

- ⊘ Assign a collar to an animal with 3 clicks
- ⊘ Create attention lists of cows ready for insemination and sick animals
- ⊘ Access more data about an animal with 1 click
- ⊘ Enter events using your PC or mobile device
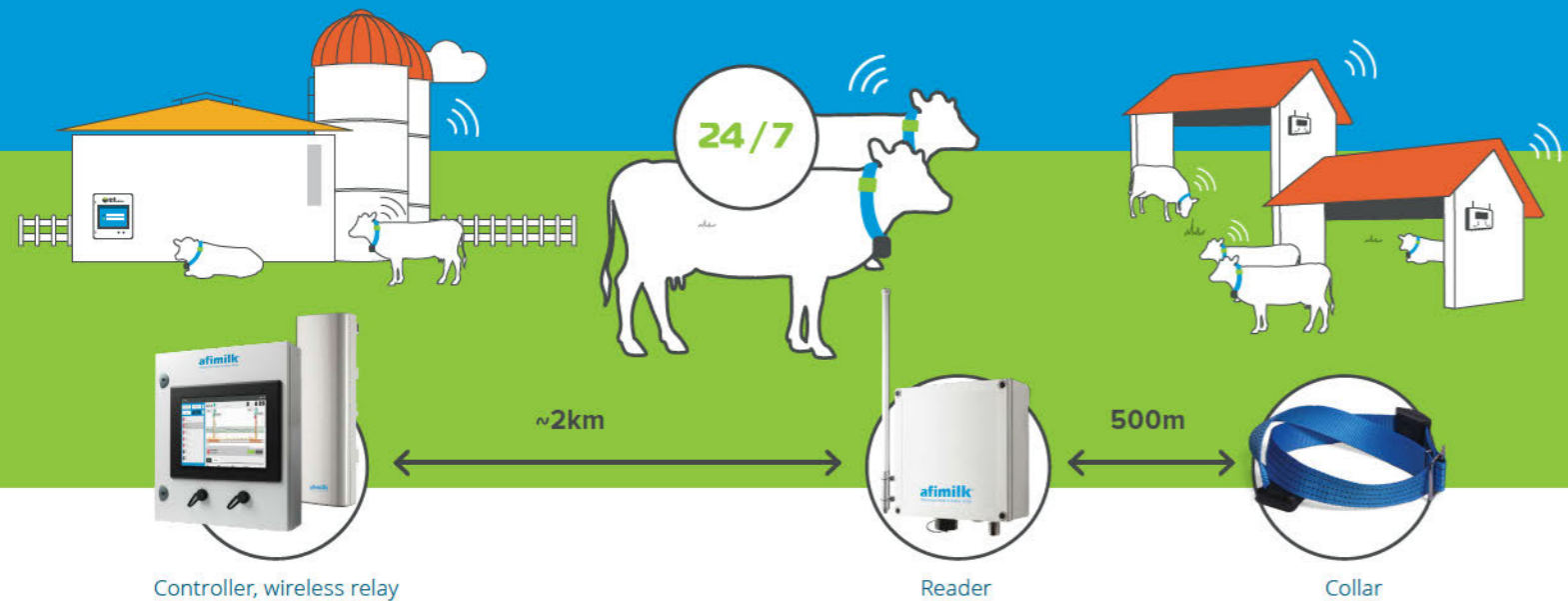- ⊘ Automatically sort animals requiring attention using the AfiSort system

On Farm – easy-to-use 15" touchscreen

- ⊘ Rugged PC for farm conditions
- ⊘ Software designed for touchscreen – large buttons, simple menus
- ⊘ Convenient to place in the office, parlor or barn

Take MySilent Herdsman home

- ⊘ Access it from wherever you are, at any time with your PC or smartphone
- ⊘ Get remote upgrades
- ⊘ Keep your data safe – our cloud is your insurance policy in the case of a flood, fire or hard disk failure

Wireless Technology for Easy System Setup and Operation

Controller, wireless relay

~2km

Reader

500m

Collar

✓ Everything comes preconfigured – so there's little left for you to do

✓ Wireless connection to the PC – for extra convenience, the reader in the barn does not need to be wired to the controller

✓ Assign collars to animals with 3 simple clicks – just select an assigned collar on the screen, choose an animal with no collar and click!

✓ 24/7 wireless reading – collars are read automatically every few minutes

our calving interval
(index) has dropped from
403 to 390 days
in 12 months

" Our calving index (interval) has dropped from 403 to 390 in just 12 months. It definitely helps profitability and we'd thoroughly recommend it "

Kevin & Sally Whistance
Black House Farm
Herefordshire, UK