

afimilk[®]



AfiFarm[™] **5.5**

**CREATING THE FUTURE
OF DAIRY FARMING**
Nicolas Moitié



About Afimilk

Founded in 1977 – Kibbutz Afikim (Israel)

1979 : first electronic milk meter in the world

1984 : first pedometer for heat detection

1993 : first dairy farm management system

2008 : first in-line milk analyzer

2019 : first collar with heat and health issue detection

 operating in
>50 countries

~15,000 
farms automated by Afimilk

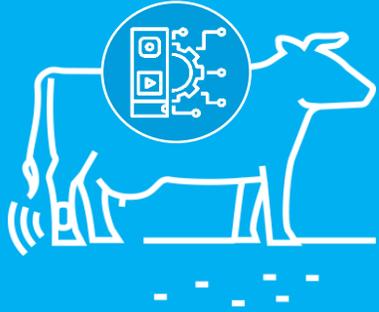
>10 million 
cows managed by AfiFarm SW

 **8** working together in a single farm,
rotaries managed by Afimilk system

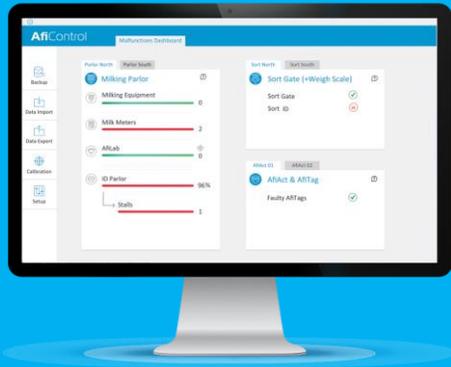
~110,000  milking cows-largest herd managed
using Afimilk automation

~1.4 million
 cows already managed
using **AfiFarm 5.3**

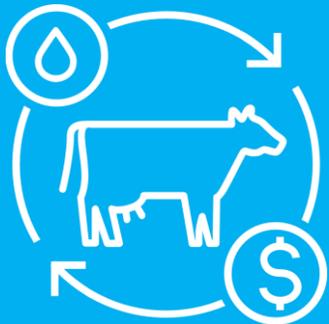
Aiding dairy farmers in:



Running a scalable business

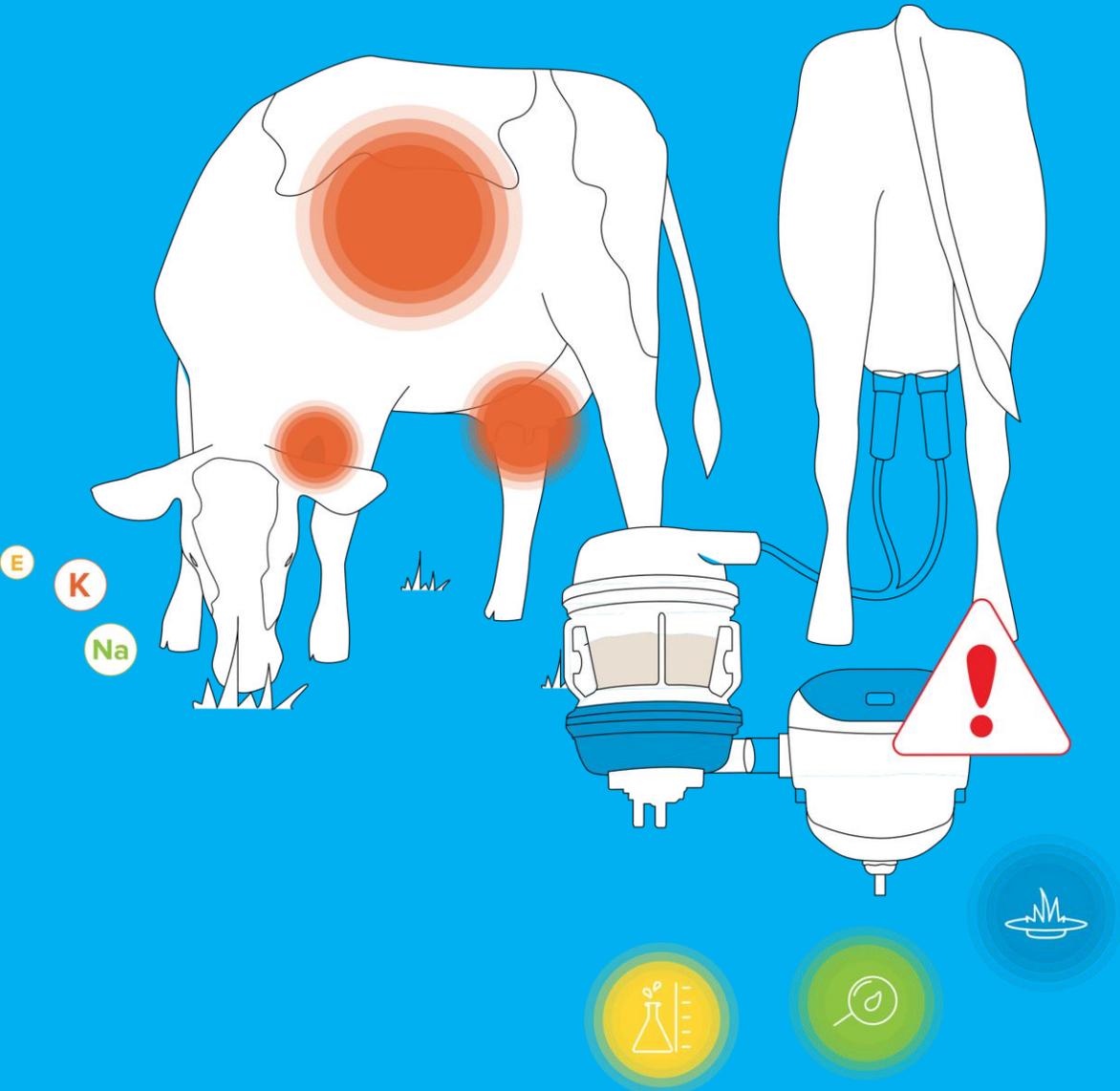


Turn milk into valuable data



Getting more & better milk per cow

Best sensors for accurate data



What we monitor :

- Milk production
- Milk conductivity
- Fat
- Protein
- Lactose
- Activity
- Eating/Rumination
- ...

A row of blue and white sensors connected to a grey pipe in an industrial setting. The sensors are arranged in a line, receding into the distance. Each sensor has a blue top and a white body. They are connected to a grey pipe that runs horizontally across the frame. The background shows a tiled floor and some structural elements of the facility.

**From sensors
to data...**

All the main informations on the dashboard

Today
Milking
AfiFarm

Milk Production

- Milk last session
- Milk previous day
- Cows milked last session
- Last 24H average milk per cow
- Fat % last 24H
- Protein % last 24H

Suspected Clinical Mastitis - Updated Last: 08/02/2022 10:56:07

Save Save As... Design Refresh ?

Index	Cow	Gip.	Status	Gyn. status	/ 1 DIM	Lact. no.	Daily Yield	Daily avg.yield	Daily yield <%>	Prod. Rate <%>		Conductivity<%>		Lactose dev. %		Code
										1	2	1	2	1	2	
1	4353	16	Lak	(CG-) Insémination	86	5	4,6	6,2	-24,9	-27	-45	4	10	-3	-8	

?

5

10

4

.

↻ ?

1

2

12

2

4

Cows

- Pregnant (Milk)
- Open
- Dry

43

12

53.8%

Groups Comfor

Nutrition alerts: **Non-specific health report**

Know your cows in heat at a glance

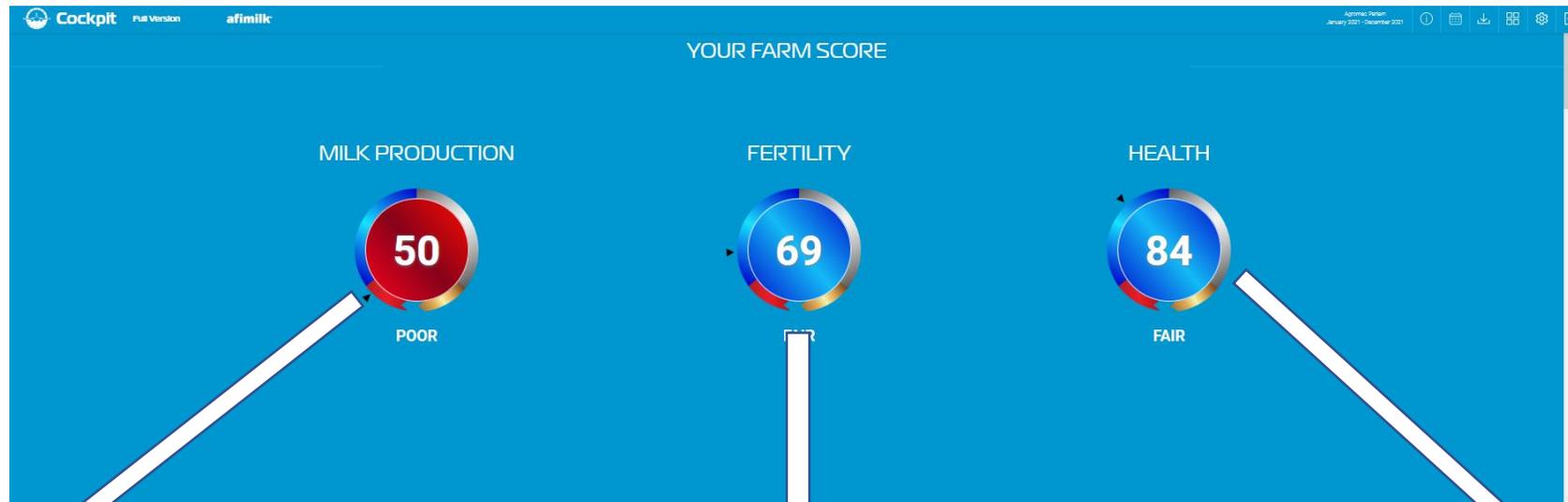
Design Refresh Animals for Insemination Report Fertility Window Graph

Index	Cow	Status	Grp.	Gyn. status	Number		Age (months)	DIM	Daily avg.yield	Days After		Heat Signs		Fertility Window		Heat Indicator			Days After			First Recommended Bull		Second Recommended Bull		Code	
					Lact.	Insem.				Heat	Insem.	Started	Ended	Fertility Window	Conception	1	2	3	Change Group	Hoof Trimming	Preg.Check	ID	Name	ID	Name		
1	2196	חולבות	5	דורעה	5	3	82.15	108	52.73	--	0	0d 22h	0d 02h	01:02 - 09:02	Low CR	608	229	402	--	--	--	--	--	--	--	--	X B M
2	3642	חולבות	24	דורעה	2	4	45.00	209	20.52	--	35	1d 03h	0d 12h	--	--	145	42	881	--	--	55	--	--	--	--	B M	
3	3798 !	חולבות	4	דורעה	2	1	39.97	68	47.14	21	0	0d 16h	0d 02h	07:18 - 15:18	High CR	316	218	237	--	--	--	--	--	--	--	M	
4	4014 !	חולבות	1	דורעה	1	6	34.19	301	39.95	237	20	0d 20h	0d 03h	03:28 - 11:28	Moderate CR	379	226	324	--	--	102	--	--	--	--	M	
5	4187	חולבות	7	דורעה	1	1	31.23	114	16.95	--	33	0d 17h	0d 13h	06:07 - 14:07	Moderate CR	117	95	127	7	--	--	--	--	--	--	M	
6	4188	חולבות	7	דורעה	1	4	31.23	226	34.63	--	0	0d 08h	0d 04h	14:54 - 22:54	High CR	165	121	49	--	--	63	--	--	--	--	M	
7	4269	חולבות	1	דורעה	1	1	27.05	68	29.77	12	0	0d 19h	0d 04h	04:01 - 12:01	Moderate CR	352	141	431	--	--	--	--	--	--	--	X M	



We define goals together

BUT YOU ARE THE PILOT !

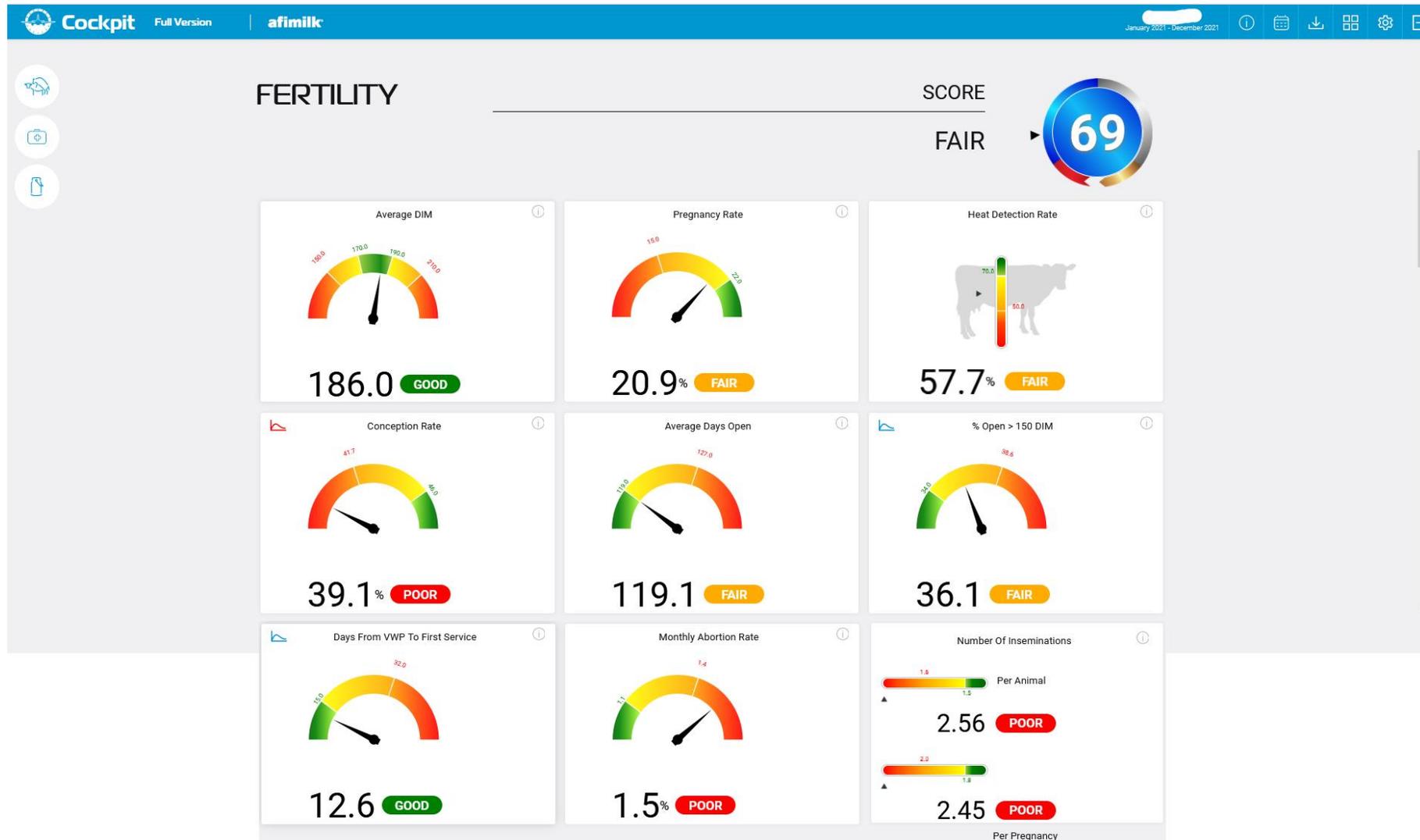


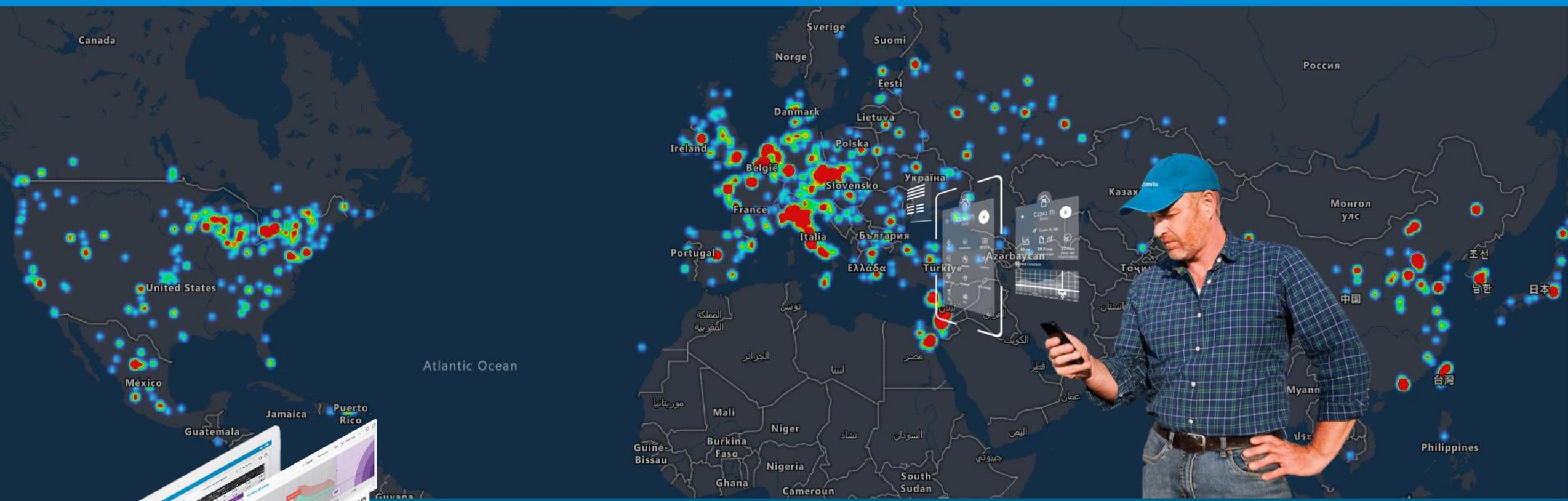
Follow up closely your milk production from season to season
"I'm decreasing in milk"

Am i reaching my goals with fertility ?

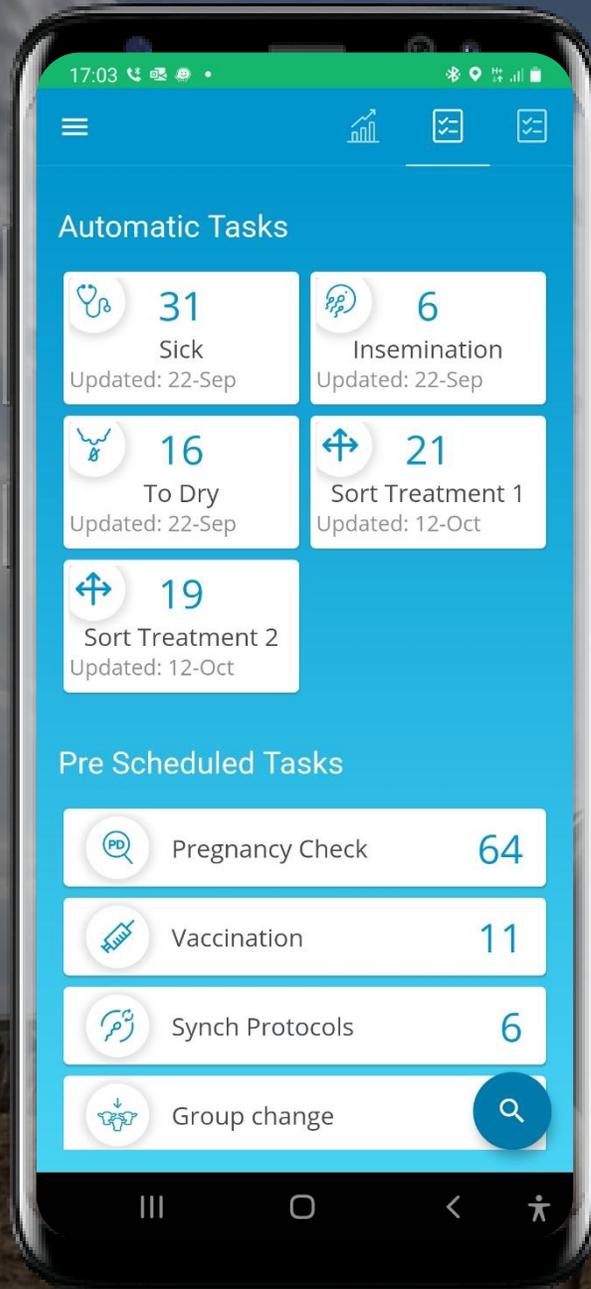
Is my herd healthy ?

Intuitive specific dashboard





~2500 farms 3 millions cows online !



Afi2Go Prime

WELCOME TO THE PAPERLESS FARM

Afi2Go Prime

The manager's angle



14:06

24

Automatic Tasks

36 Sick Updated: 1:19 PM	10 Insemination Updated: 1:37 PM
91 To Dry Updated: 1:23 PM	31 Sort Right Updated: 1:41 PM

Tag Assignment

Pre Scheduled Tasks

Pregnancy Check	143
Vaccination	

Worklists - automated

Tasks – by manager

Tasks Progress bar

Afi2Go Prime

Go mobile: 5 Sec / Cow



Health:
5 sec/cow

Inseminate:
5 sec/cow

10:24

24

Automatic Tasks

- 33 Sick
Updated: 10:22 AM
- 8 Insemination
Updated: Just now
- 90 To Dry
Updated: 9:30 AM
- 31 Sort Right
Updated: 9:59 AM
- Tag Assignment

Pre Scheduled Tasks

- Pregnancy Check 151

Search icon

Afi2Go Prime

Your cow's
information at your
finger tip...



Status



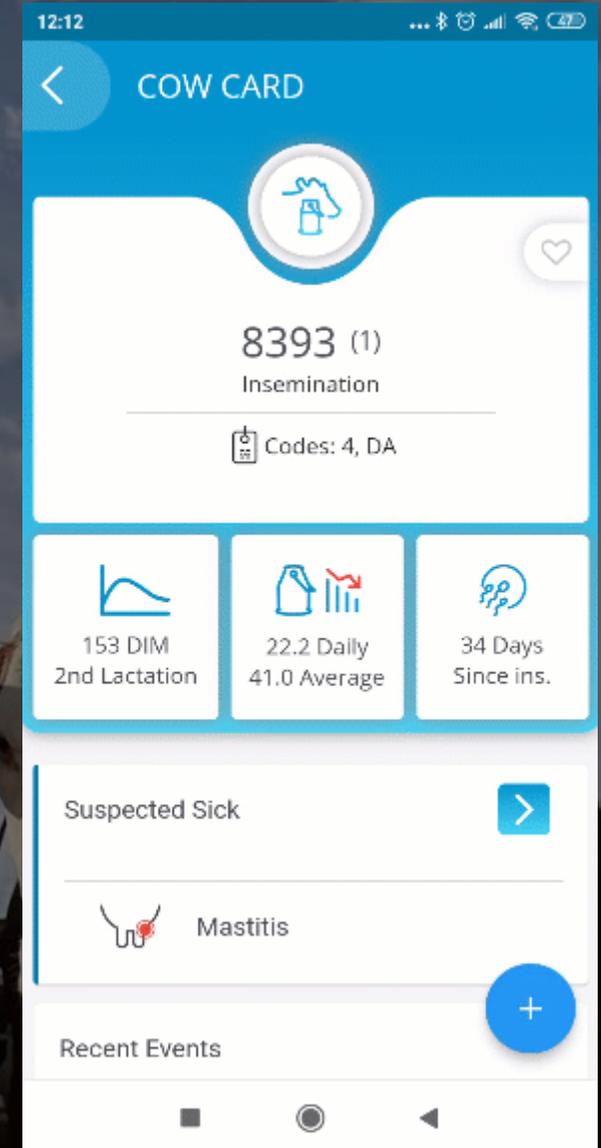
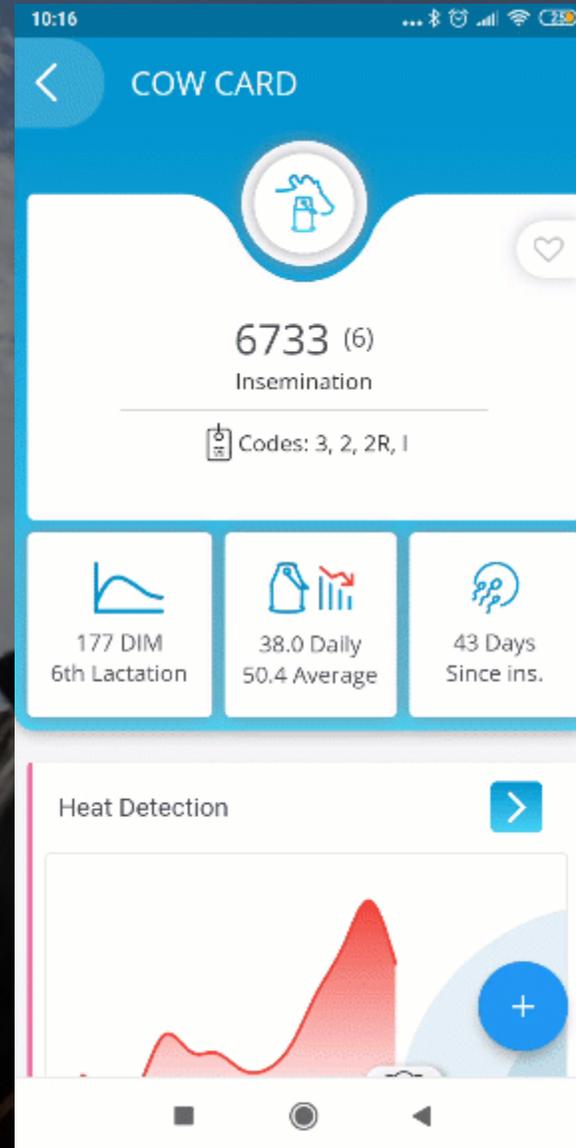
interactive
widgets



Action center



30 Days
History



PAPERLESS FARM WITH Afi2Go Prime



Management tool:



Worklists -
automated



Tasks – by
manager



Tasks
Progress bar



Dashboard

Fast & efficient operation:



Tag Assign



Health:
5 sec/cow



Inseminate:
5 sec/cow

Interactive:



Interactive
Cow Card



Notifications

afimilk[®]
Automating Dairy Farms

A black and white cow is standing in a lush green field with small purple flowers. The cow is wearing a blue collar with red and yellow stripes. The background shows a clear sky and distant hills.

New ! AfiCollar : what
AfiFarm 5.5 can bring to my
farm?

Sick COWS

Improved Visualization



- Non-specific health (individual cow view): hourly graph
- Especially useful for heifers and transition animals, with no milk data

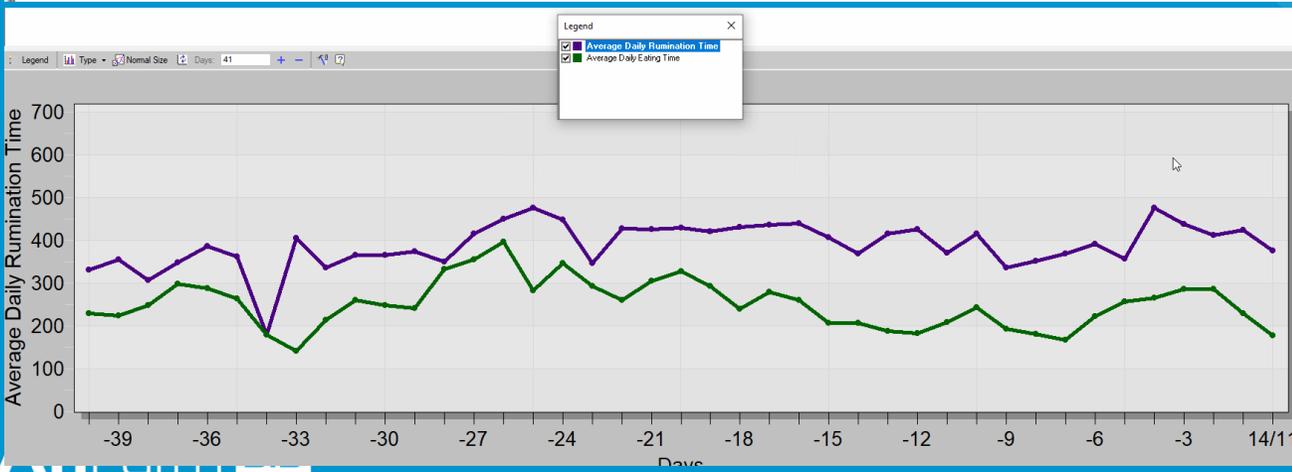
Group Digestion report.

Eating and rumination are critical aspects of a dairy cow's life
 Eating or rumination changes on a group level indicates a feed or feeding issue or environmental changes

Group Digestion - Updated Last: 15/11/2021 04:23:26

Design View Setup

Index	/ 2 Grp.	/ 1 Status	Total animals	Rumination last 24 hours	Rumination <%> deviation per session		Eating last 24 hours	Eating <%> deviation per session		Alert
					1	2		1	2	
1	1	Milk	464	06:50	-2		18 03:12	-12	-28	Low daily rumination or eating time
2	2	Milk	190	06:36	-3		4 03:30	-19	-2	Low daily rumination or eating time
3	3	Milk	61	06:17	-4		6 03:02	-18	-23	Low daily rumination or eating time
4	8	Milk	16	--	--		-- --	--	--	Not enough animals with AfiCollars



Heat Stress Detection.

Group trends
of heat/panting, alongside
with rumination and eating

Useful for monitoring
and better planning of
climate control





INNOVATION

RELIABILITY

SUSTAINABILITY

Thank You!
Hvala ti!

afimilk®