

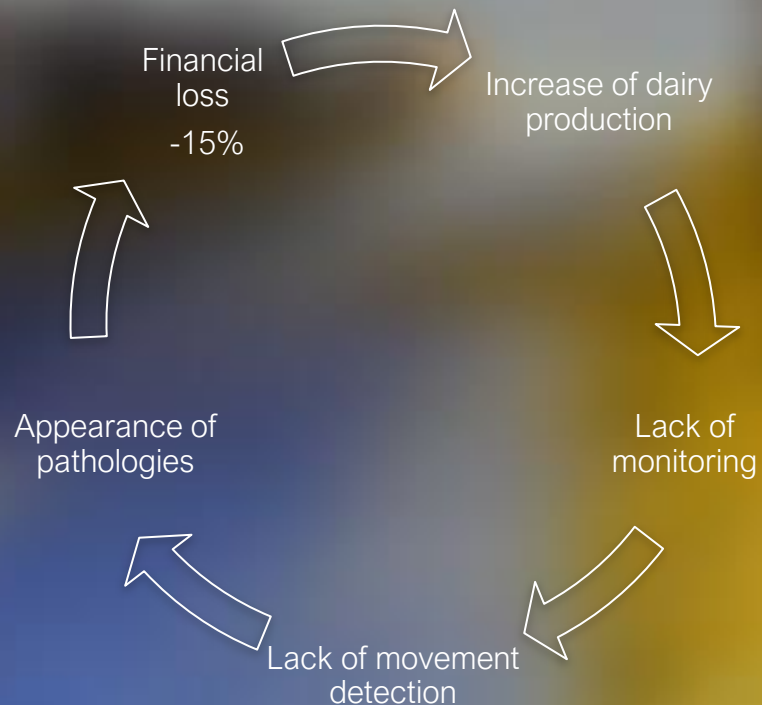


AIHERD

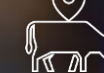
A MONITORING SOFTWARE TO IMPROVE COWS AND
BREEDERS' WELFARE

Monitoring its herd is the key attention point for millions dairy breeders in the world, who care of 276 million of cows.

Vicious circle of dairy production

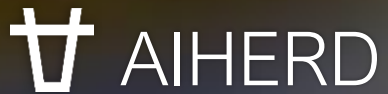


Emergence of IoT and their limitations

						
Pedometer / accelerometer 5000 € / 100 cow	✓					✓
Overlapping detector 200 € / cow		✓				
Intravaginal device 400 € / device			✓			

Each tool can only monitor one or two parameters for a given cow.

Detection and pathologies' prevention
are the main keypoint for cows' welfare and livestock economic growth



Tracking



Heat detection



Activity



Interactions



Calving



Diseases



BCS



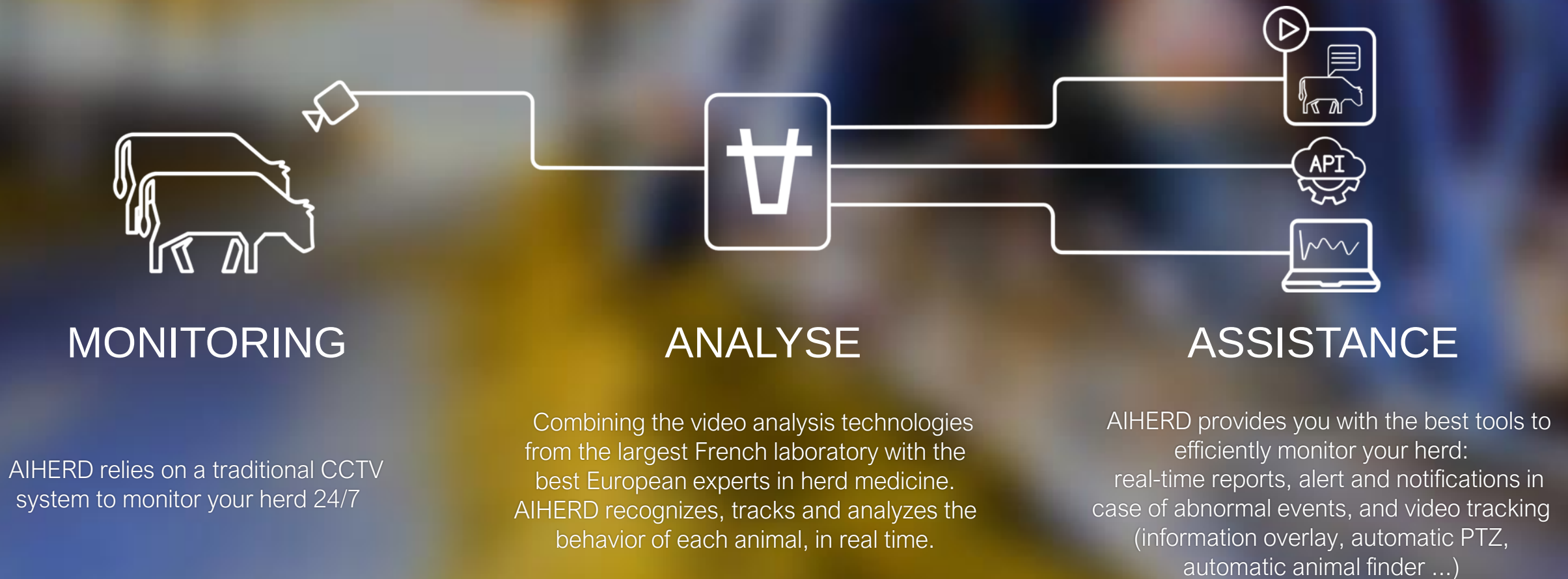
Lameness



By combining Computer-Assisted Vision and AI, AIHERD enables to detect and monitor all the important steps of a cow's life

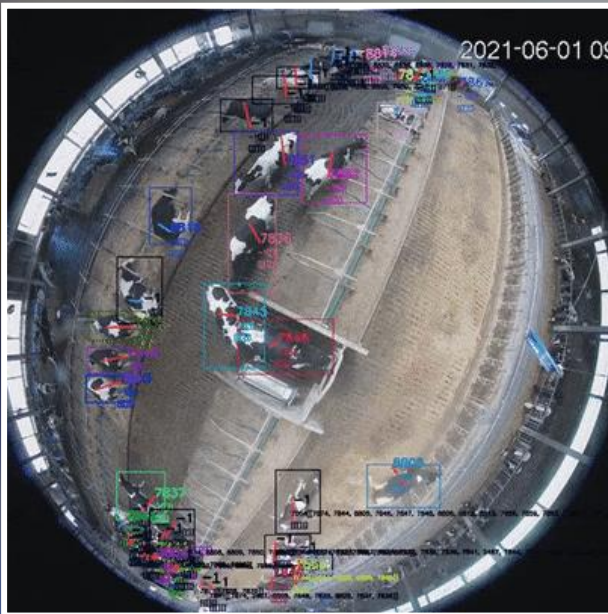
THE ONLY HOLISTIC MONITORING SOLUTION

AIHERD is the only solution that allows all pathologies to be monitored in real time, without human intervention, 24 / 7

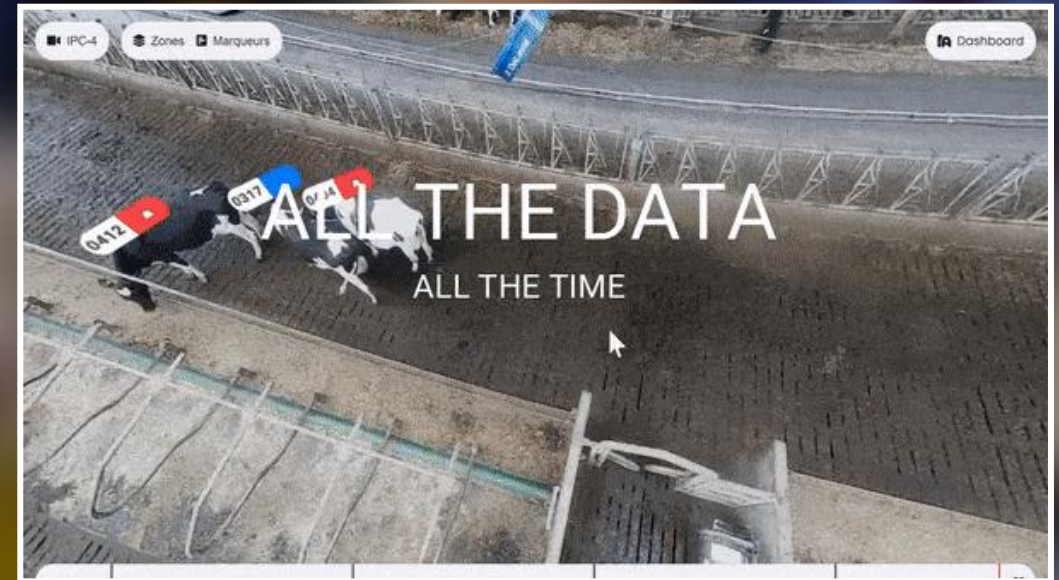


DATA COLLECTION

AIHERD analyses the **morphological** and **behavioural** evolution of animals to detect and predict the onset of **all diseases**.

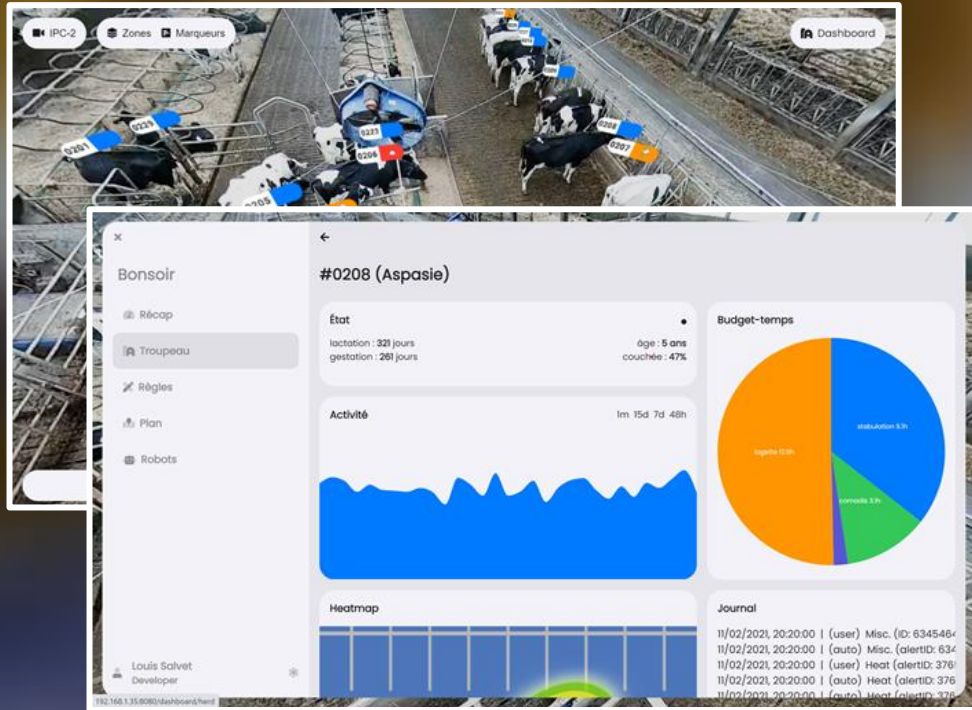


**POSITION
IDENTITY
POSTURE
VOLUME**



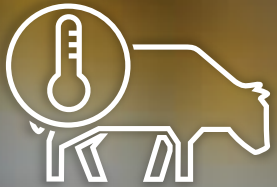
A classic video surveillance system allows the collection of all the data necessary for the operation of AIHERD

CLEAR AND USABLE INFORMATION



By associating the robustness of CEA software with the best European colleges of herd medicine, AIHERD is able to individualize and analyze each animal to provide a real time monitoring status of your herd.

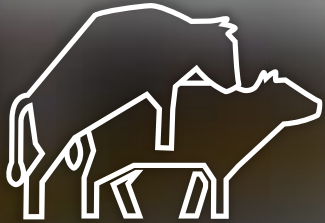
SAMPLES OF CURRENT AND UPCOMING FONCTIONNALITIES



Detecting the right time to inseminate



Detection of pathologies and behavioural abnormalities



Detection of interactions and protrusions



Detection and tracking of lameness



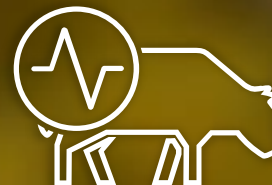
Detection of calving and right calf's start-up



Monitoring the evolution of body scores



Locating animals for intervention



Followed by activity: lying time, feeding, rumination...

STRONG PARTNERSHIP IN TECHNOLOGY AND RESEARCH



The best technology in
computer vision

The LVA, a CEA-Tech research team, is a laboratory whose core business has over 20 years of experience in computer vision. For example, a current application of this technology has been co-developed and industrialized by THALES (civil security).

Porting the software allows cattle to be recognized and followed in a multi-camera video stream.

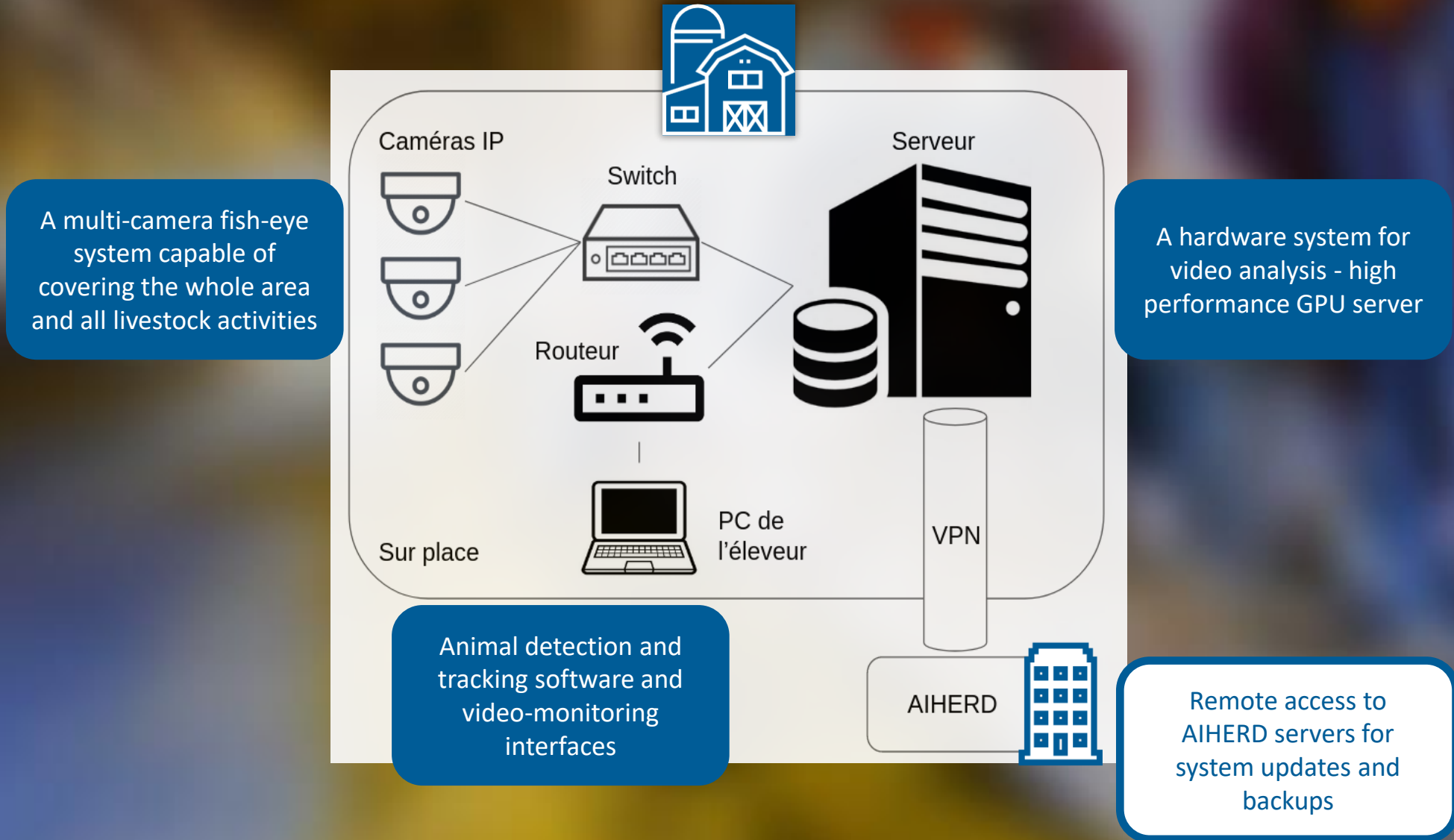


The best European colleges
in herd medicine

Herd medicine $\neq$ Rural medicine
→ Analysis of breeding data
Partners have written numerous articles and reference works in the discipline

They will set up all the algorithms to analyze the behavioral and morphological parameters of AIHERD dataset.

BASED ON A LOCAL INFRASTRUCTURE



A MONTHLY FEE FOR DETECTION FUNCTIONALITIES

Price per cow

VISION included	REPRODUCTION x €	HEALTH x €
		
		
		



ALL EVENTS
AUTOMATICALLY
ALL THE TIME

aiherd.io