

Scope, applications and prospect of Precision Dairy Farming

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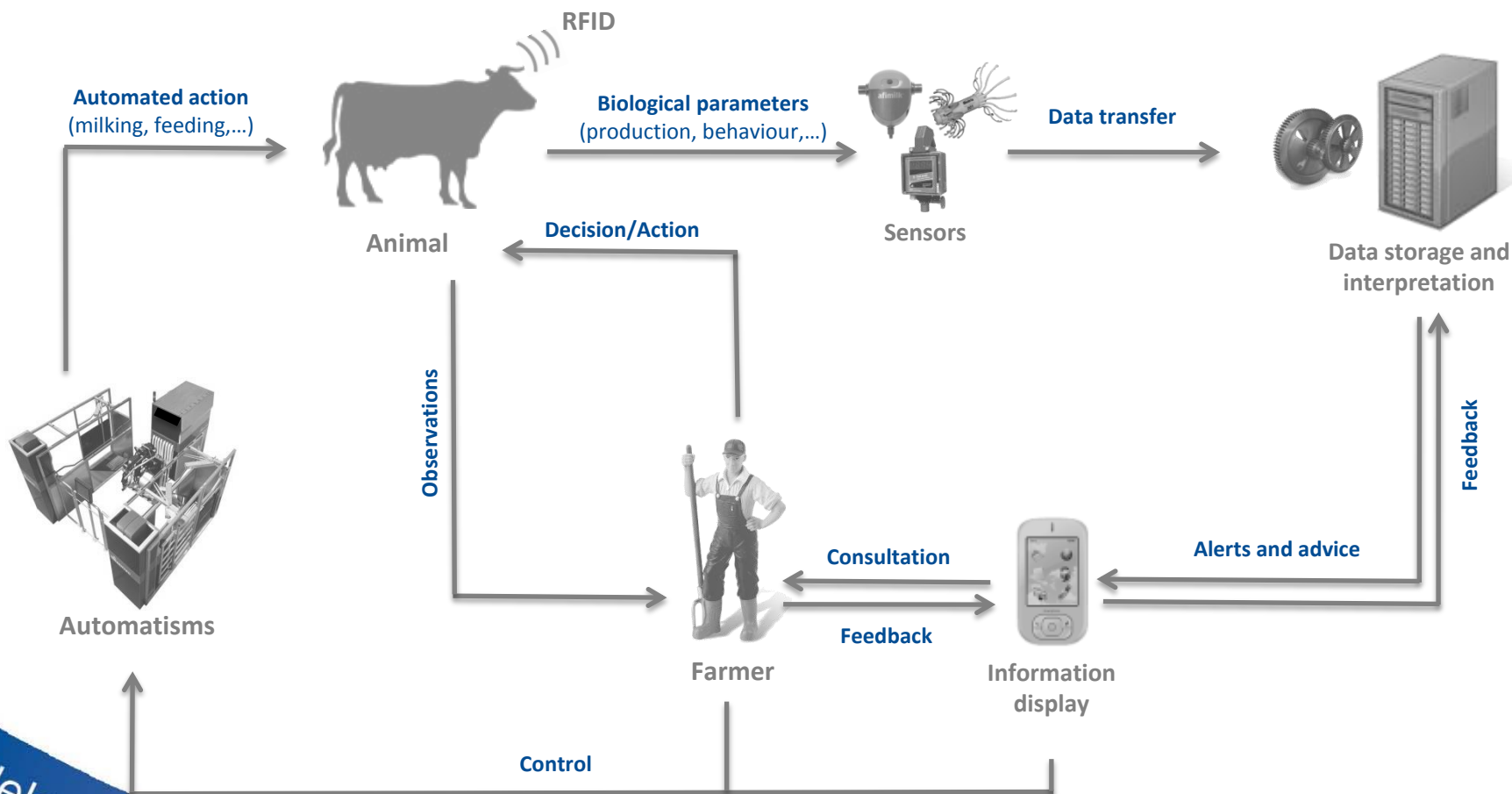
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What is Precision Dairy (Livestock) Farming?



An environment conducive to the development of Precision Dairy Farming

► Evolution of farms structure

- ↗ herd size and work productivity → ↗ monitoring needs

► Change in the economic context

- Prices volatility and end of quotas → need to improve efficiency

► New societal demands

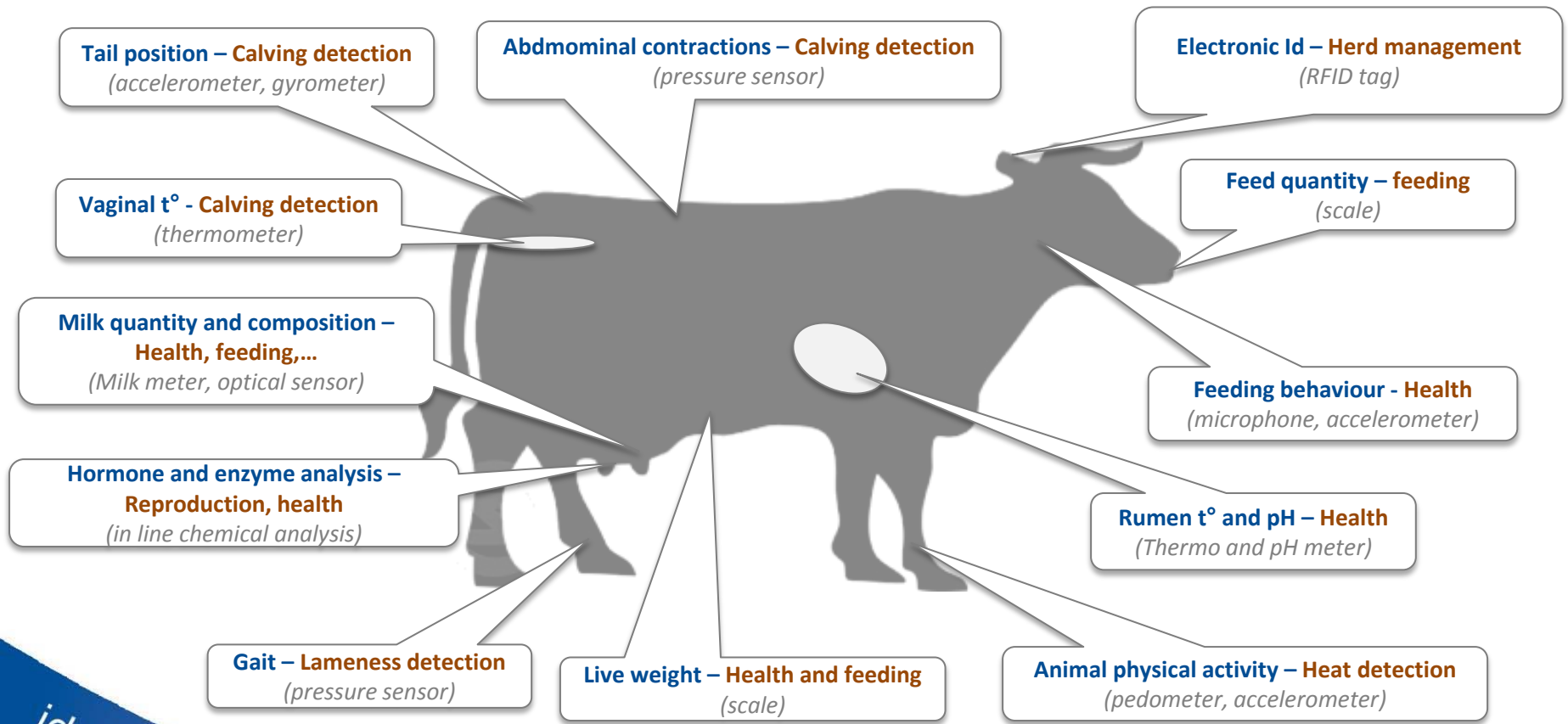
- Consumers : welfare, environment, products quality
- Farmers : workload, constraints, income

► ICT tools availability

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The rise of sensors and automatisms in Dairy Farming



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And it is only the beginning !

Precision Dairy Farming (future) possibilities

► Animal level

- Future technologies (3D imaging, drones,...) = new opportunities
- Improvement of alerts detection performances (sensitivity/specificity)

► Farm/Farmer level

- Need to deliver advice and not only information or alerts
- Autonomous decision or action → towards the farm without farmer ?

► Animal population level

- Can sensors data be useful to detect emerging epizootic diseases (as Twitter)
- Genetic selection on new traits recorded by sensors

► Consumer/population/governmental level

- New demands like animal welfare : how to measure it is a challenge ?
- Could sensors data be used by policy makers (subsidy, control,...) ?



Thanks !

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