Main Challenges for a Precision Livestock Farming

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Digitalisation in Farming is a reality

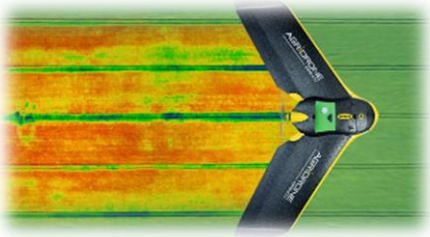
Milking Robots : 5000 Farms (France)

Embedded sensors: 29 % of the dairy farms (France)

Precision Farming

Indoor sensors: 26 % of the dairy farms (France)

Crops: Drones, Satellite, GPS, Sensors,…



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Challenges for the development of precision farming

Communication and Connectivity for barns and fields

« 35% of the farmers are not satisfied with the fixed internet network and 46% with the mobile internet network »
(Idele, Orange, Evolution, 2015)

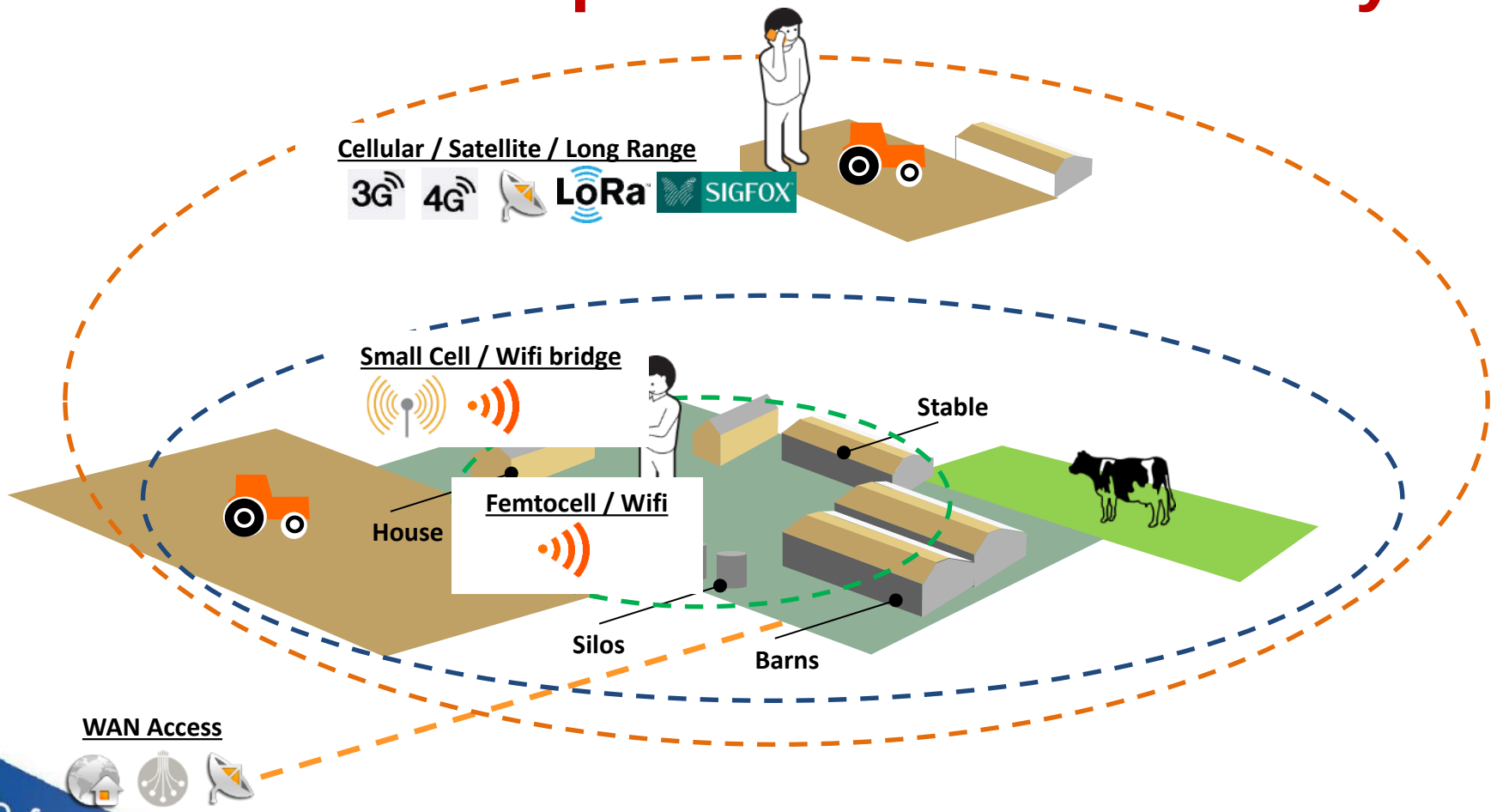
Development of IT infrastructures for connected devices

« 67 % of the French Dairy farms are equipped with at least one connected device for farm management (robots, sensors,…) »
(Idele, Orange, Evolution, 2015)

Improve farm profitability from new technologies

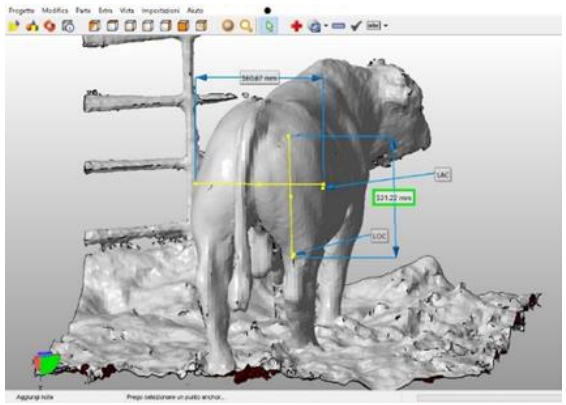
" Some technologies may not prove to be profitable, but investment may still be worthwhile because of improvements in quality of life."
(Dolecheck & Bewley, 2015)

Solutions to improve farm connectivity



Examples of new applications based on innovative technologies and networks

3D imaging to assess cattle morphoplogy



Geolocation and behaviour monitoring for extensive livestock farming

Questions ?

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