



Interreg



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North-West Europe

HoliCow

HoliCow – a new transnational approach to get the best out of DHI data collection and FT-MIR spectral data

Julie Leblois, awé groupe, project coordinator

Hélène Soyeurt, Uliège – GxABT, WP1 leader



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HoliCow



- Unfair income
- Agri-bashing
- Farms are more and more connected
 - Huge amount of data
 - Management becomes very complex, especially for small ones with low manpower



Renewal of
generations is
very complicated



HoliCow - Enable small/med dairy farmers to benefit from big data for holistic decision-making

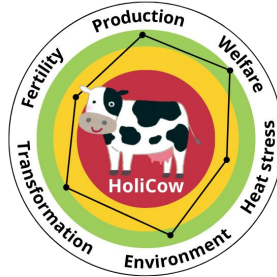
Several topics – 3 work packages

WP1



Data for farm tools

WP2



Tools for farmers

WP3



People for farmers



WPI

Data for farm tools



Transnational database

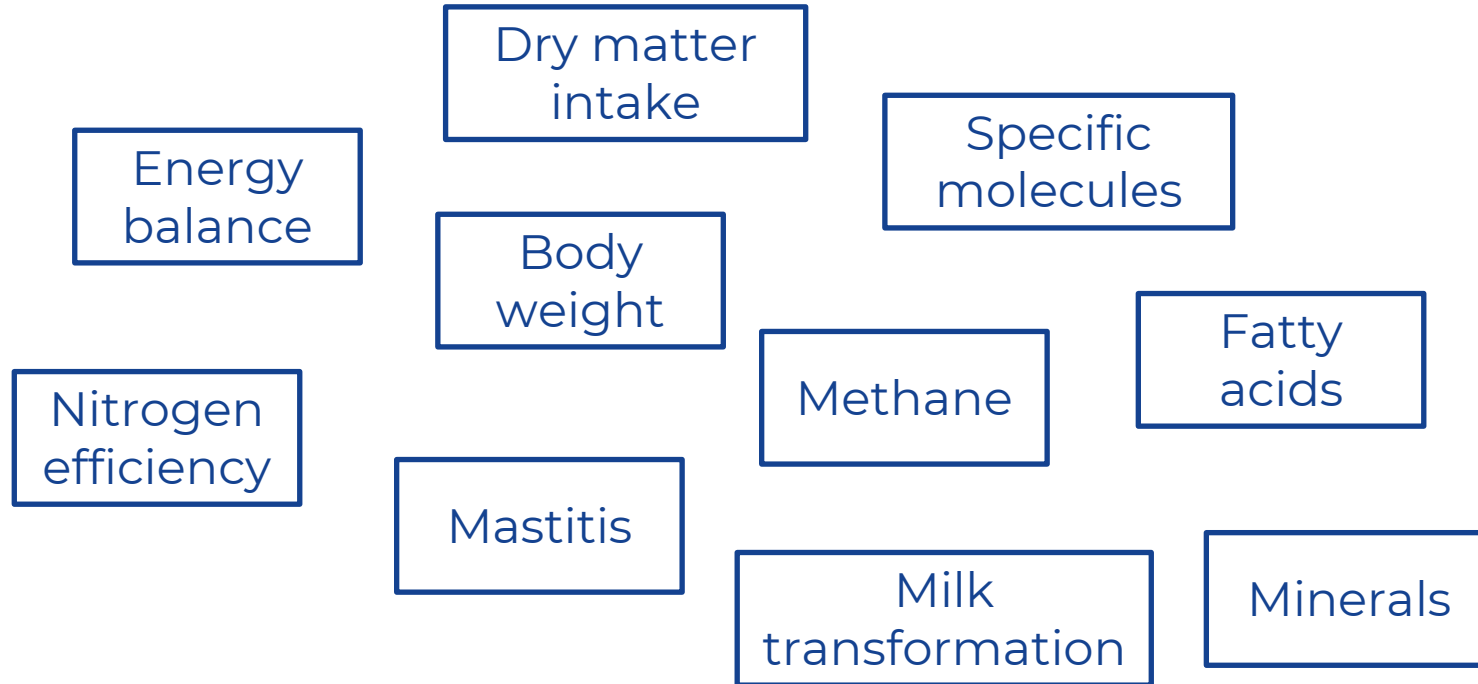


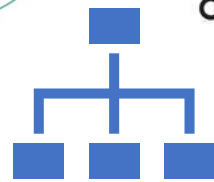
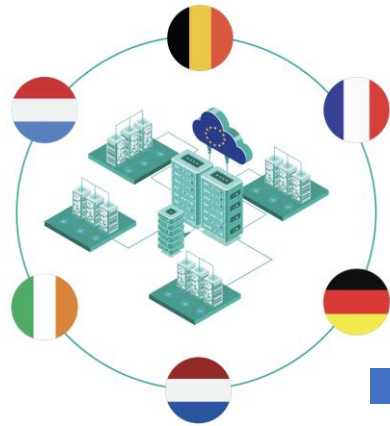
Community solution database



WP1

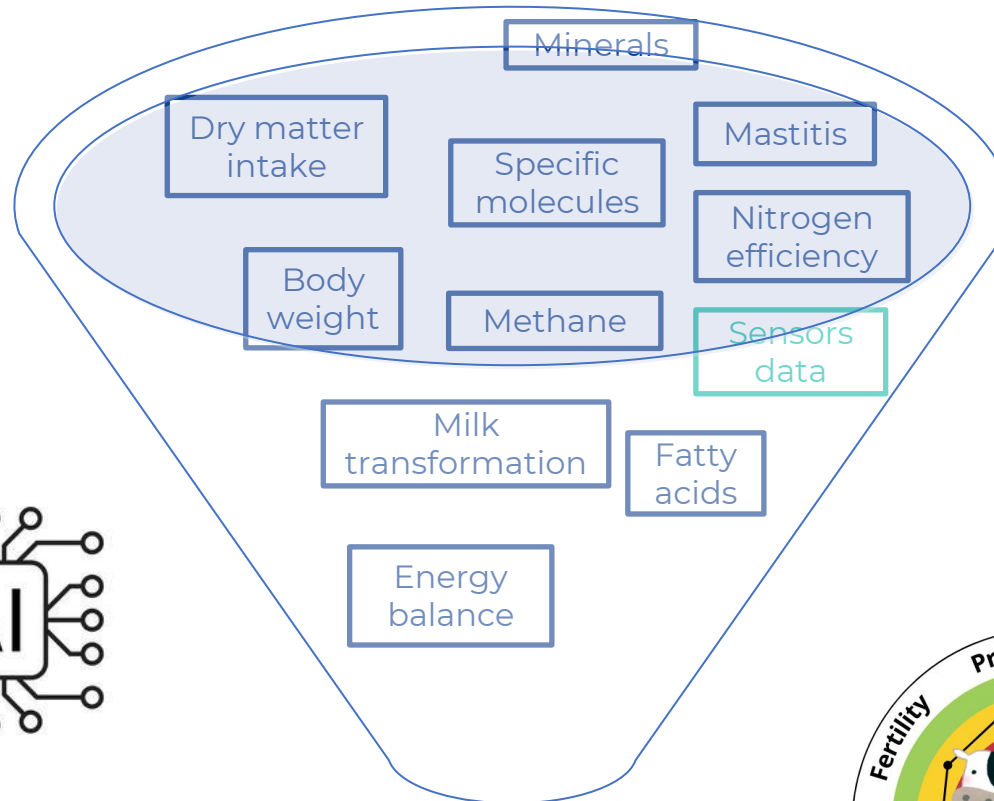
Data for farm tools



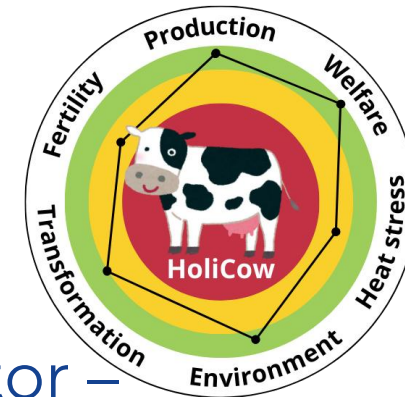


Clustering

Pilot farms involvement

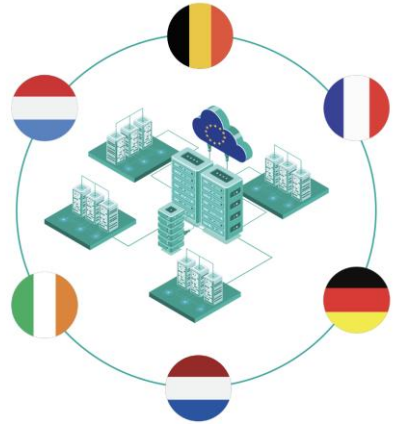


Summarized indicator – easy tool for farmers



WP1

Data for farm tools



63 millions of spectral data!

Transnational database

- 5 countries
- 63 millions of spectral data
- 5.6 millions of dairy cows
- 33,300 dairy farms



Harmonization of data formats

(Grelet et al. 2015)





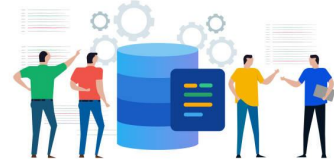
Community solution database

- Advice about solutions to the problems addressed
- Possibility to provide feedback on the tool



WP1

Data for farm tools



Farmers
- Pilot farms
- Larger scale

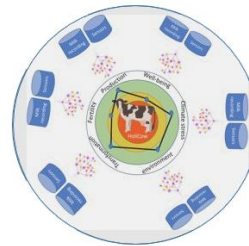


Advisors

my@we.net

Accès intranet AWE

- Général
- Animal
- Editions
- Troupeau viande
- Troupeau lait
- Mise à jour Ariane
- Wallonie Elevages
- Helpline



Heat stress problem identified
Solutions proposed:

- Allow animals inside
- Increase water points
- Use ventilation fans
- Trees on pasture
- Other solution: note it



WPT1

Data for farm tools



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WPT1

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Heat stress problem identified
Solutions proposed:

Allow animals inside

Was this solution effective?/Please rate this solution

☆☆☆☆☆



WP1

Data for farm tools



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Was this solution effective?/Please rate this solution



Feedback to be stored



Probably possibility to write detailed feedback too (farmers, advisors)

WPT1

Data for farm tools



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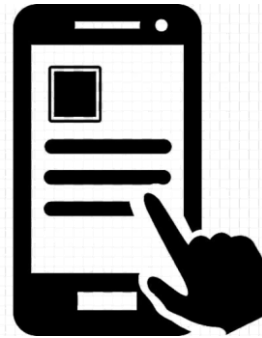
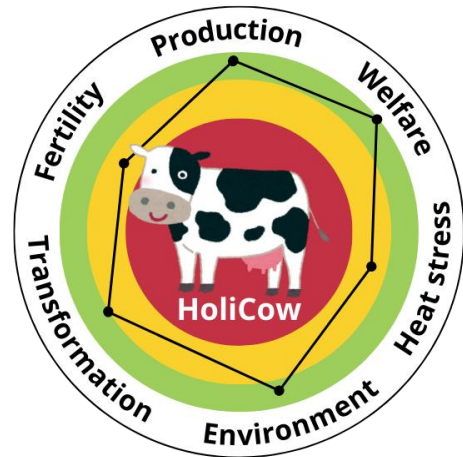
- Allow animals inside
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- Use ventilation fans
- Trees on pasture
- Other solution: write here



New solution to be stored and proposed

WP2

Tools for farmers



WP3 People for farmers



1. Training of farmers and advisors to the developed tools (report, community database)



Organisation
of training
sessions



Production
of
explanatory
documents



Training on
farms



Webinars,
MOOCs

WP3 People for farmers



2. Sensibilisation of rural communities to the importance of farming livestock → support from community to farmers



Take-home messages

- Functional database containing 63 millions spectra (more to come)
- Data processing is challenging
 - Volume of data
 - Data sources
- Creation of a « solutions » oriented database
- Involvement of pilot farms throughout the entire project
- Communication to general public about farming is key





Thank you!

Julie Leblois,
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