

International collaboration added value for creating and spreading predictions at a large scale

Julie Leblois, Manager
of EMR

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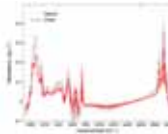


Prediction models?

→ Prediction of new biomarkers and phenotypes

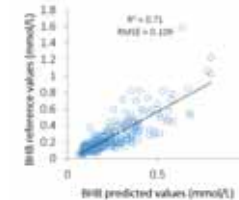


Mid-infrared (MIR)
spectroscopy



Fat
Protein
Lactose

Models
(chemometrics)



Reference (analysis,
phenotype) vs spectrum

Prediction of new
biomarkers

- Management purposes
- Breeding values

Creating prediction models

The first idea: let's use what we have



But then... What happens if...?



Predictions will be completely wrong

Creating prediction models

In real life



Breeds



Climate, management type



Feeding

Conditions vary in each country, sometimes inside a country

→ We look for **robust** models

Can only be reached by a very diverse dataset

→ international collaboration

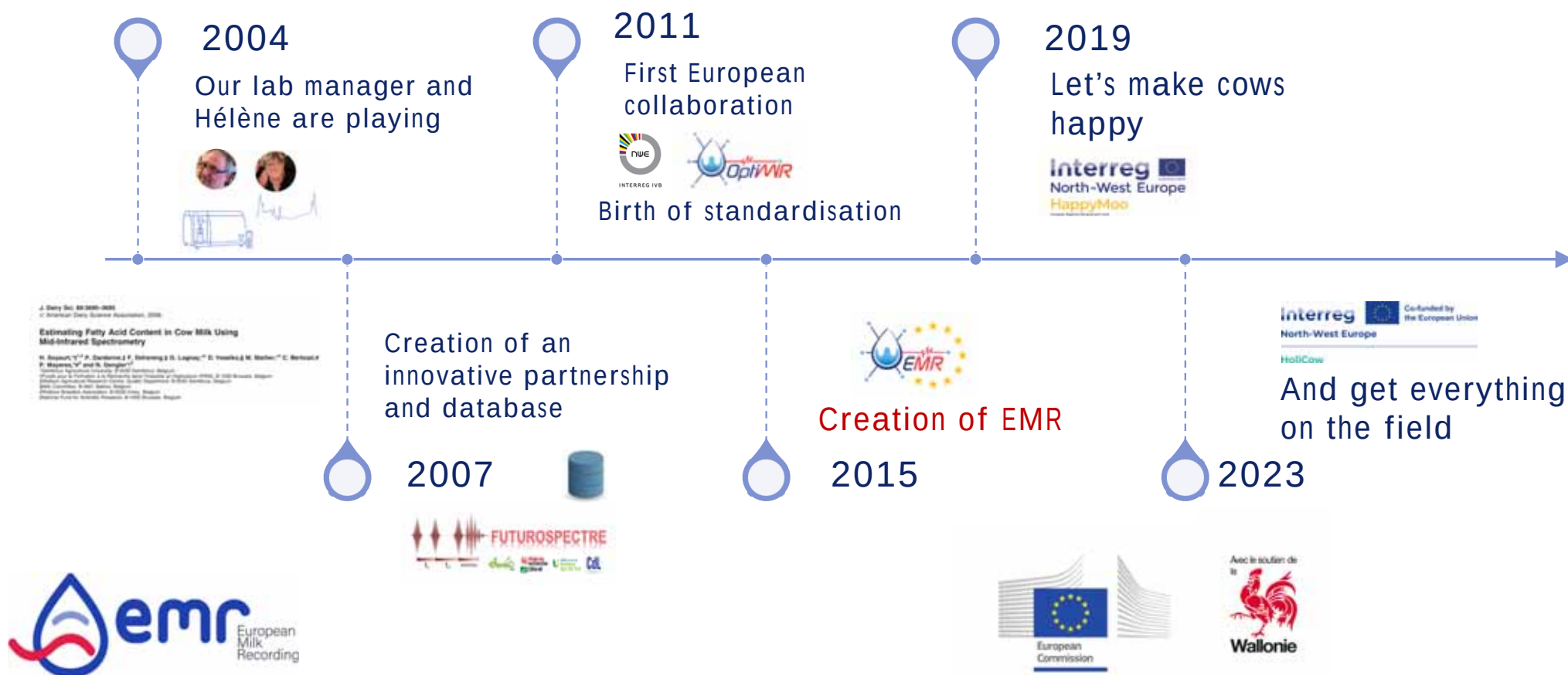


→ This is what we do



“ All alone we go faster,
together we go further ”

A bit of history



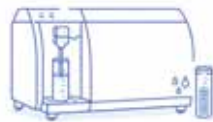
Who are we? - EMR in numbers



+ 6,000,000



+ 85,000



95



27



14 members

+ 3 since the creation: Polish
federation just joined EMR



Countries we cover

Our members: 8 countries

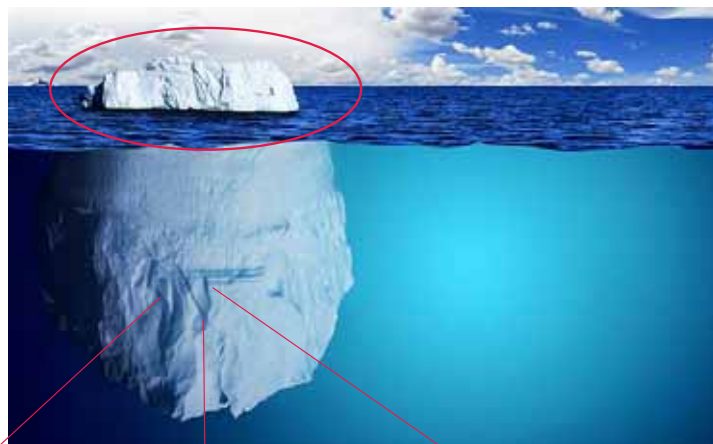


Our clients: 4 countries    

Collaborations and discussions: 6 countries (also outside EU)



The reality... and philosophy!



Research
collaborations

Tests

Clients

113 analysers

+ 13 to come

And we hope... Many
more!



How do we work?



College of members



Board



Scientific committee



Customers

Decisions

1 representative/
member

Suggestions Management



1 chairman



2 vice-chair(wo)men



1 manager

Scientific advice



Continuous improvements
(standardisation, models)

Business relationship

- 4 countries
- 19 analysers



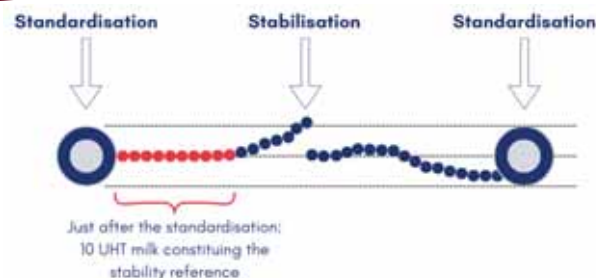
What do we offer?

3300€/ analyser/
year



Best performing
standardisation of FT-
MIR analysers

Only standardisation
existing inter-brands



Daily check to monitor
daily perturbations

Both for members and clients

330€/ pack/
year

Available predictions

Fixed pack: 4 milk biomarkers

Acetone

BHB

Citrate

NAGase

Build your own: choose 2 predictions to build a pack

Fatty acids

Methane

Lactoferrin

Minerals

Prediction of biomarkers



TAKE-HOME

Our final objectives:

- Production of innovative biomarkers for our farmers
- Collaboration
- Continue the dynamics between research and the field
- Keep our group as open as possible



“ All alone we go faster,
together we go further ”



“

At our first congress, people called us crazy... Now it's a European success story.

”

Meet us at our exhibition booth in front of the catering area 😊

THANK YOU

Julie Leblois
jleblois@awegroupe.be
www.milkrecording.eu

