



Milk



23rd of October, 2024









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Towards Net Zero Commodity Masterclass





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Director
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3 Initiatives

DEFINE COMMON
PROPOSED SUPPLIER
SUSTAINABILITY TARGETS

Align on minimum supplier targets across key dimensions to accelerate supplier decarbonization

LAUNCH COMMODITY
CAPTAIN MASTERCLASSES

Educate TNZ community on commodity decarbonization leveraging expertise of leading members

MOBILIZE THE
COLLECTIVE VOICE OF
RETAIL ON CLIMATE
ACTION & METRICS



Harmonize carbon metrics
requested from
manufacturers across the
value chain, enhancing
transparency and creating
consistency across the sector

Ad hoc support

Additional initiatives to progress in the future

Biomethane focus group

Retailer GHG accounting

Supplier scorecard

Supplier training

Knowledge repository

Green power – other locations

Green power – supplier access

Joint in-store retailer & CPG sus. campaign



Unrecorded section





Provide overview on commodity context



Share regional specificities



Present **solutions** + case studies



Questions, answers & next masterclass in series





Discussion on opportunities to partner & scale for impact

BEL - A 159-YEAR-OLD FAMILY BUSINESS & A MAJOR INTERNATIONAL PLAYER OF HEALTHY SNACKING







BEL, OUR MISSION MODEL IS ANCHORED ON OUR FARM TO FORK CSR STRATEGY

















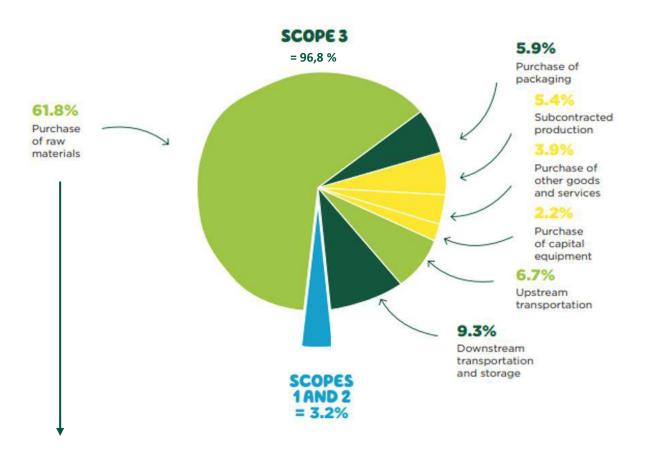


HEALTHIER AND MORE SUSTAINABLE FOOD FOR ALL

FOR TODAY'S AND TOMORROW'S GENERATIONS



BEL GLOBAL CARBON FOOTPRINT



Raw milk = 35,3%Other Dairy Raw Mat = 20,7%Apple = 0,4%Others = 5,5%

4 millions tons CO₂ eq / year

Our factories represent 3% of Bel global carbon footprint → 97% of Bel Carbon footprint is not "directly" in our hands

The biggest impact comes from raw materials among which our milk collected represent half of it.







...coming from 8 dairy basins



France

~470 kT



Azores

~125 kT



USA

~120 kT



Slovakia

~90 kT



Iran

~80 kT



Portugal

~60 kT



Poland

~30 kT



Canada

~30 kT



(Note: Estimated collected volume for Bel, thousand tons (kT), 2023)



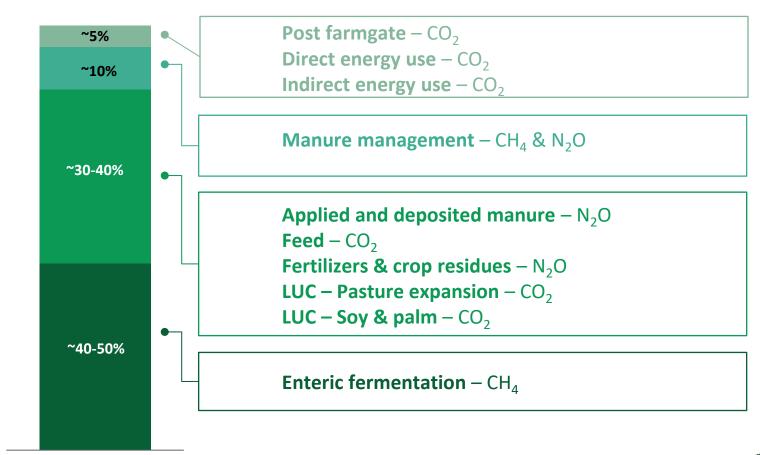
35% of global emissions (Bel, 2023)

And total dairy raw materials...





4 main drivers for raw milk emissions factors







Key challenges to address for raw milk decarbonization

Key decarbonization challenges across commodities



Large & fragmented supplier landscape



High degree of variability in system across regions



Limited awareness on solutions available (e.g., at farm level)



High upfront carbon reduction costs





Lack of financing for adoption of low-carbon and regen. pBovaer®



Short-term reduction in yield & farmer revenues



Speed and rate of adoption of best practices on farm



Lack of lowcarbon technologies available at scale



Lack of accurate carbon data at farm level



Lack of measurability & common certifications



Lack of unified and stable regulatory & policy landscape



Strong dependency on Nature (land, climate)









There are 3 different market archetypes for milk production

Mega Farm



Intensive Farm



Family Farm



Herds

- > 500
- Fr
 - Free confined barn. Specific farms (Calf farms, heifers farm, etc.)

Feedstock

milk collection

- Corn silage & local soy production (US)Imported feed (Iran)
- Share in Bel
 - ~20% of Bel milk collection
- **Geographies** USA, Iran

- 100 to 500
- Mainly free confined barn, access to grazing for dry cows or heifers
- TMR => mainly corn silage and concentrate
- **~20**% of Bel milk collection
- Slovakia, Portugal, Canada

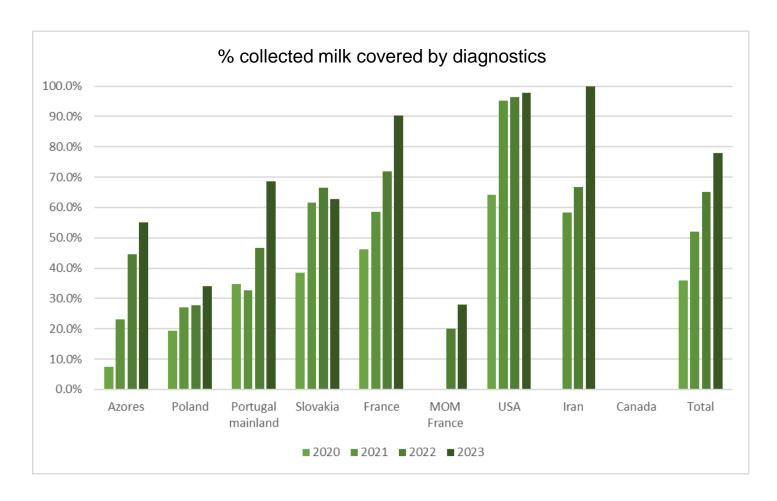
- 100 <
- Pastoral based: access to grazing whole or part of the year
- Grass part of the ration, corn / grass silage, local protein + concentrate
- ~60% of Bel milk collection
- France, Azores, Poland







Significant regional specificities exist for milk carbon data









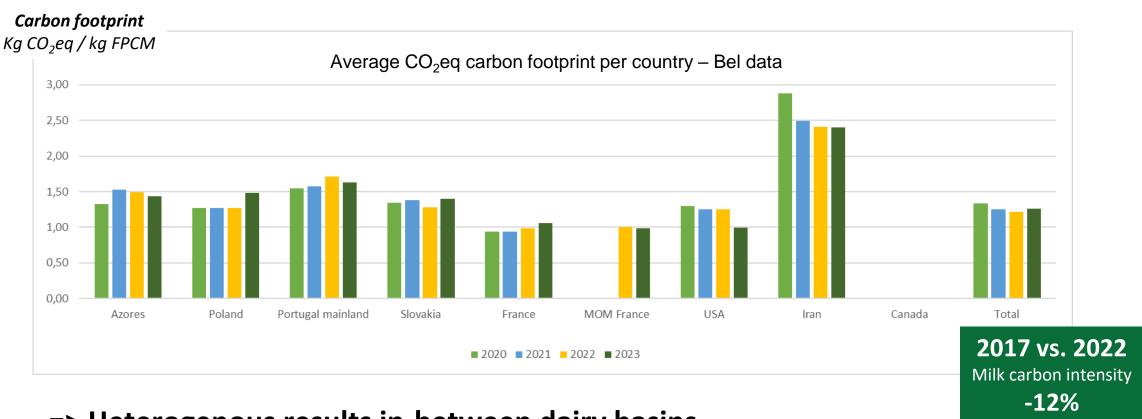








Significant regional specificities exist for milk carbon footprint



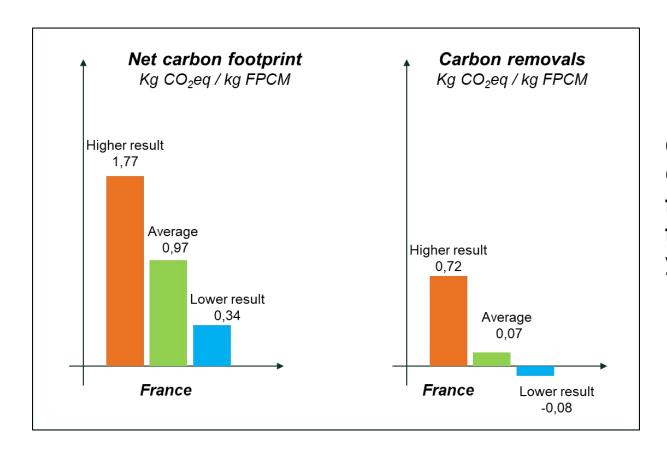
=> Heterogenous results in-between dairy basins







Also, significant specificities at country level



Consolidated CAP'2ER results for French farms for the last 4 years



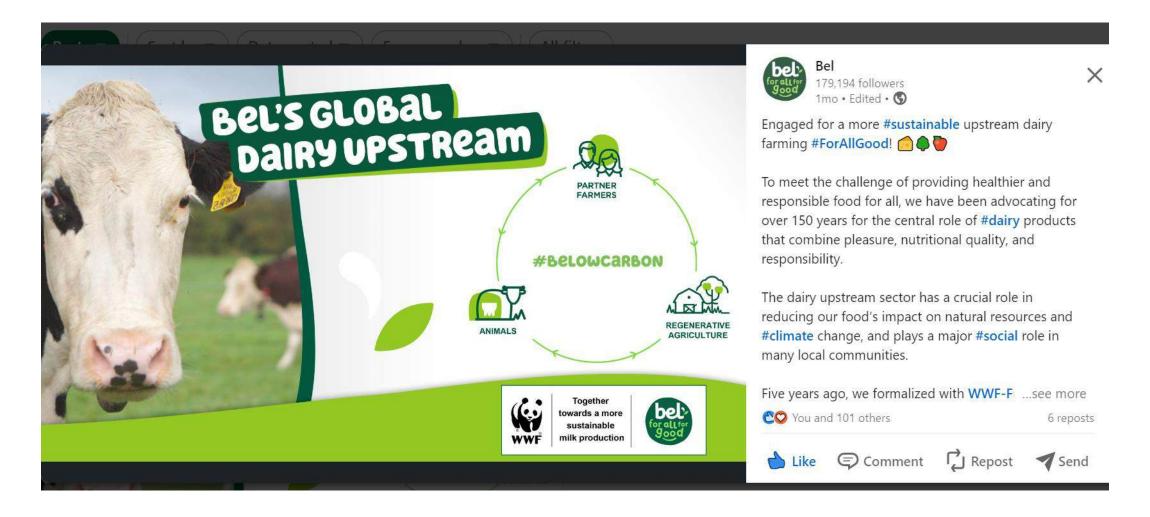
=> High variability within a dairy basin







A unique global framework with medium / long term objectives





Bel has identified 32 key levers to address milk decarbonization



Main levers activated on the field

Levers	Carbon reduction potential on farm	Typical time to impact	Expected ROI for farmers	Overcost for farmer
Reduce unproductive animals	Till 5%	> 1 year	Positive	No
Yield optimization	1 to 5%	> 1 year	Positive	No
Manure storage conditions	2 to 3%	Immediate	Negative	> 5 K€ investment
No deforestation feeding for EU (0 soy and 0 palm)	Till 7%	Immediate	Negative on animal feeding cost	Depending on commodities market
Add unsaturated fatty lipids in ration (e.g. linseed)	~5%	~ 6 months	Positive on yield & animal welfare	Till 1cts / kg of milk
Feeding additive to mitigate enteric methane	$10-15\% CO_2 eq$ (-20 to 30% of CH_4)	Immediate	Negative	~1cts / kg of milk
Regenerative practices for animal feeding production	Till 5%	3 to 7 years according to practice	Positive but risk taken during transition	Depending on practices
Agro-ecological structures (Hedges, trees)	Carbon removals	> 1 year	Negative if no carbon credit	Investment
Manure management – Biodigester, methanization	Till 5%	Immediate	Negative	Very high investment

=> After the carbon diagnostic, the Bel milk adviser will define 2 to 4 levers to activate



Applicability and impact of levers varies across Bel dairy basins

Applicability



Levers	**	#	Ф		*		Key factors impacting applicability of lever
Reduce unproductive animals							Training, access to nutritionist
Yield optimization							Access to nutritionist, training
Manure storage conditions							Government incentives, technology, regulatory
No deforestation feeding for EU							Incentives, protein autonomy plan
Unsaturated fatty lipids in ration							Access to nutritionist
Feeding additive to mitigate enteric methane							Incentive, carbon credit
Regenerative practices for animal feeding production							Incentive, training, carbon credit
Agro-ecological structures						>	Incentive, carbon credit
Manure management – Biodigester, methanization						•	Government incentive, carbon credit

Medium

Low





3 case studies illustrating Bel milk decarbonization journey



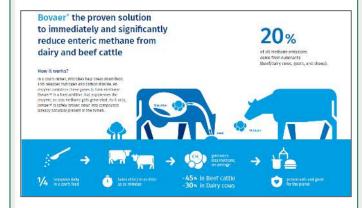
APBO Partnership in France



Develop a unique partnership with French farmers to collaborate on milk carbon footprint reduction



Deployment of Bovaer in Europe



Deploy a feeding additive to tackle enteric methane mitigation



Regenerative Agriculture Promotion in Azores



Onboard Portuguese farmers into RA practices to increase productivity by decreasing inputs





APBO long-term Partnership in France



- New collaboration set-up in 2018 based on:

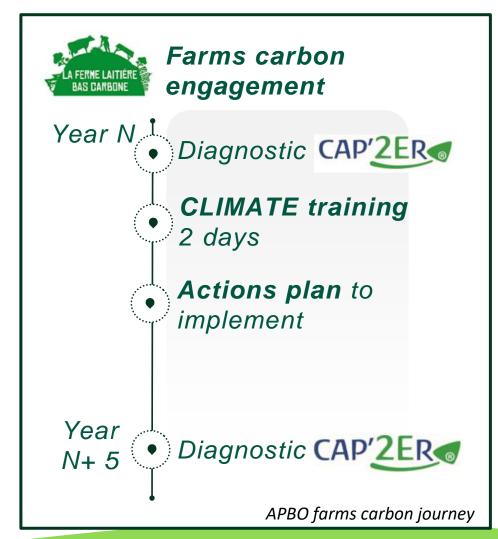
- Annual milk fixed price
- No GM feeding + access to grazing
- Engaged in carbon strategy
- Incentives for grazing and protein autonomy projects

- Review of Bel / APBO collaboration due to crisis in 2022:

- Milk price based on production and labors costs
- No GM feeding + access to grazing
- Engaged in carbon strategy
- Incentives for grazing and protein autonomy projects
- Bovaer study + implementation since 2024

- Key ouputs (At end of 2023)

- Farms developing their production capacity
- 100% farms with no GM feeding and pasture access
- 100% farms with a 1st carbon diagnostic, 15% with a 2nd one

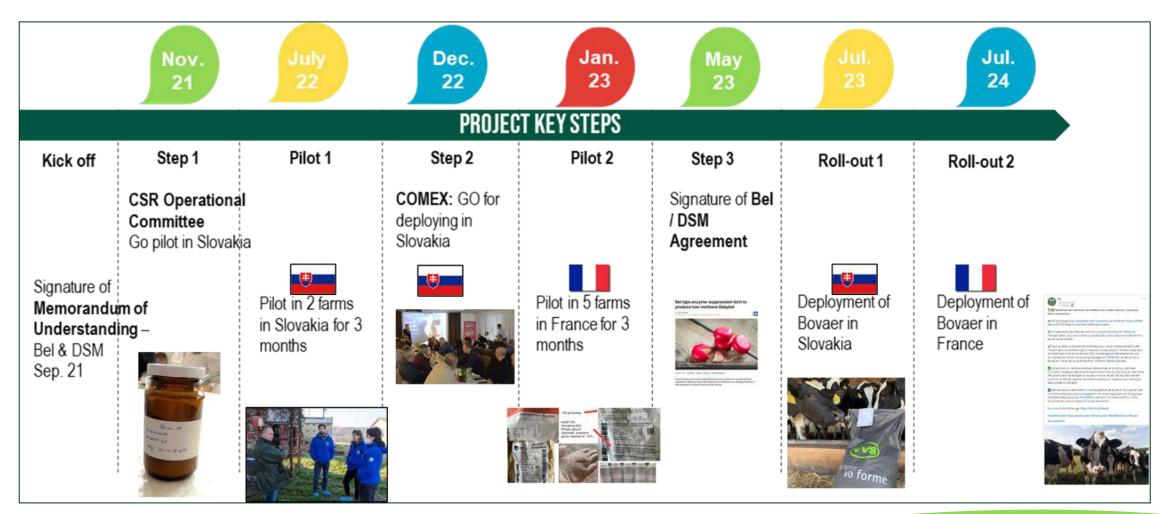






Deployment of Bovaer® in Europe





2 years journey till deployment of Bovaer® @Bel





Regenerative Agriculture Promotion in Azores





2022





Pilot X5







4 external consultants

- Grazing
- Nutrition
- Soil
- Seed

2025 Start of scale up



X15

Training, trials & sharing

Practices:

- ✓ Trials in crops & fertilizer
- ✓ Grazing management

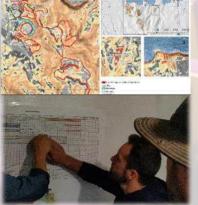
Incentives:

- ✓ Training farmers
- ✓ Expertise on the field

Sharing:

- ✓ Sharing to ecosystem (conference)
- √ Finding seed & fertilizer supply





2025 and beyond

Success? → Scale up

Implementation & validation of the pilot practices



Scale up: 2025

X15



Cooperative + Farm organisation
Asking for EU fund



Highly potential we support data & knowledge



Difficult to change eco-system & find the right support and supply



Key Learnings

- Data is key to be able to measure and monitor => MRV is mandatory
- High heterogeneity in-between countries and within a country => not a single solution for all
- Need for financial and technical support for the farmer to assume the risk during the transition period

Key challenges in front of us

- System financing: who must pay for the transition?
- Indirect sourcing decarbonization: How to work on decarbonization when there is no direct relationships with the farmers?



Need for a full support from all value chain actors to finance milk decarbonization => all dairy companies, retailers and consumers

Include biodiversity & water management as key enablers for decarbonization strategy



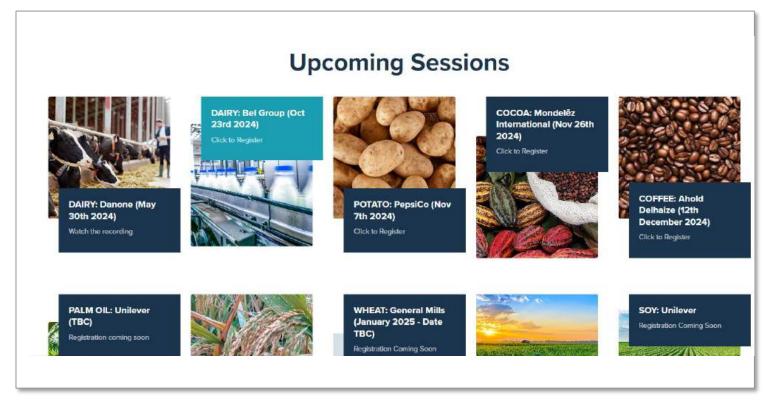








Stay tuned for our next masterclasses



All information and resources available on CGF website: https://www.theconsumergoodsforum.com/environmental-sustainability/net-zero/key-projects/commodity-captain-masterclasses/



