



# The current dairy situation What about the future?

## A presentation for Piimafoorum 2024

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Euroopa Maaelu Arengu Põllumajandusfond: Euroopa investeeringud maapiirkondadesse

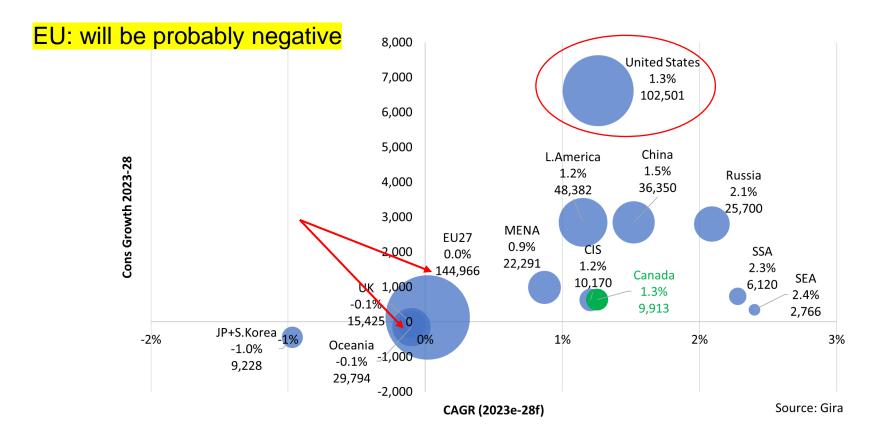
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**Milk collection growth for the next 5 years by main regions** *More milk out of the US/Canada and no growth for the EU and NZ* 







### World dairy consumption

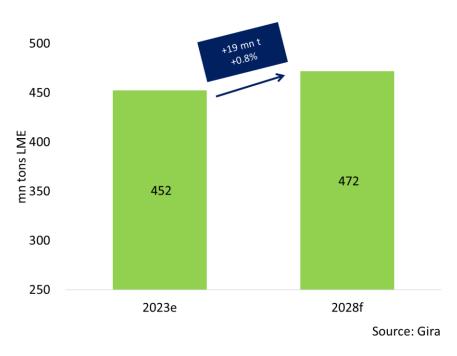
### Will continue to increase but not everywhere

### Dairy Consumption by Region

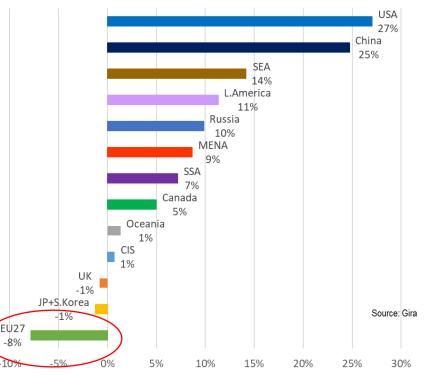
USA should become the fastest growing region in midterm



#### Dairy Consumption, 2023e-28f excl. IN & PK

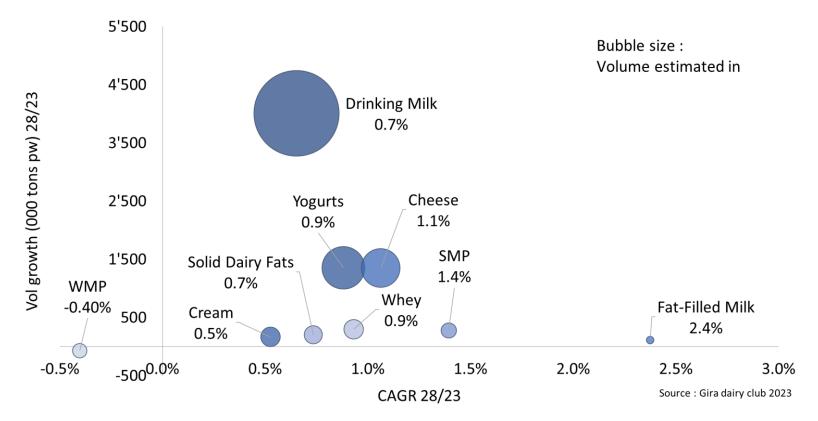


# Region Contribution to the midterm growth, 2023e-28f



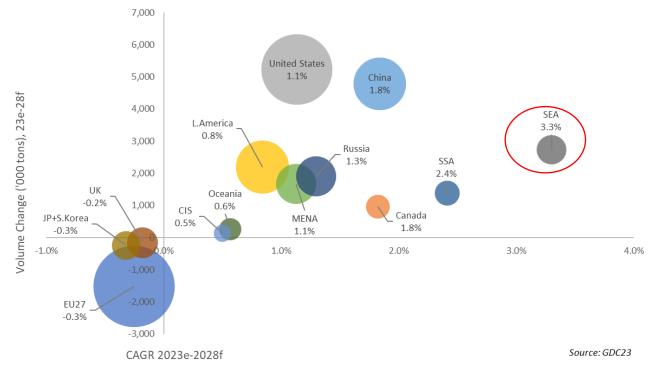


#### Global Consumption growth, excl. IN & PK 2023e-2028f



**Summary of Demand in the coming years** SE-A should be followed carefully for the future!





#### Apparent Dairy Consumption in Milk Eq., 2023 to 2028f

Note: The apparent dairy consumption in milk equivalent is calculated by adding imports and retrieving exports to milk collection all expressed in milk equivalent.



# Focus on China What's going on?

#### What about the future of milk Collection

Base case scenario: slowing milk collection growth in 2024 & by 2028

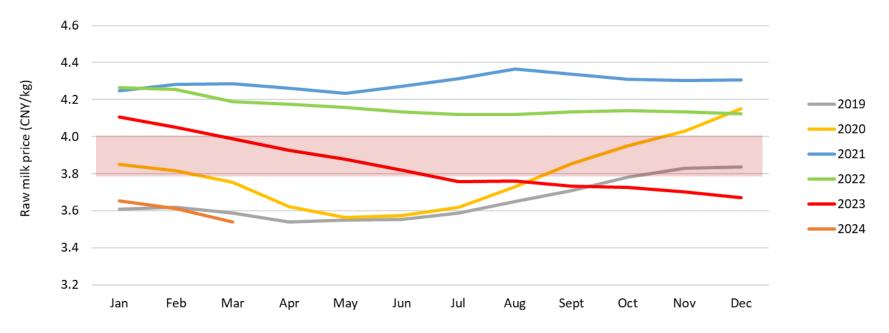


#### Chinese milk collection, 2012-2023e, 2024f, 2028f





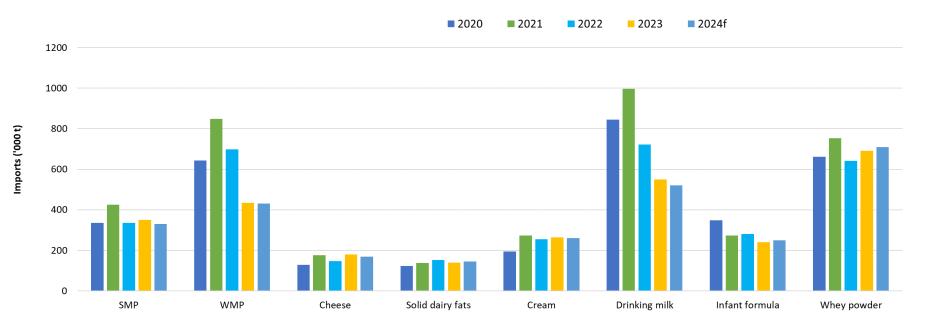
#### Monthly average raw milk prices, 2019-2024



#### Break-even range

### **2024 Imports Forecast** Still too early to say...probably no significant recovery is expected in 24

#### 2024 import forecast by main products



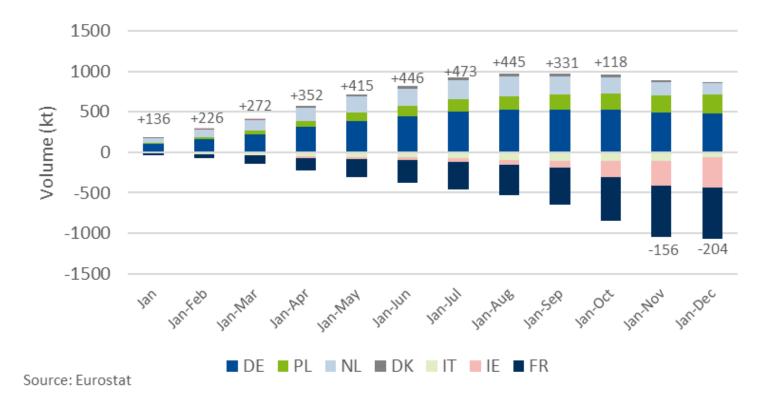
Source: Chinese Customs, Gira forecast



## The EU market

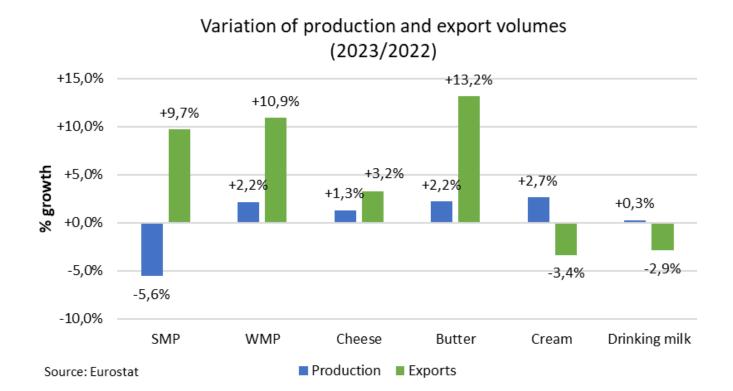
### EU Milk collection: zero growth in 2023

IE has been through several weather issue in 2023



<u>Gíra</u>

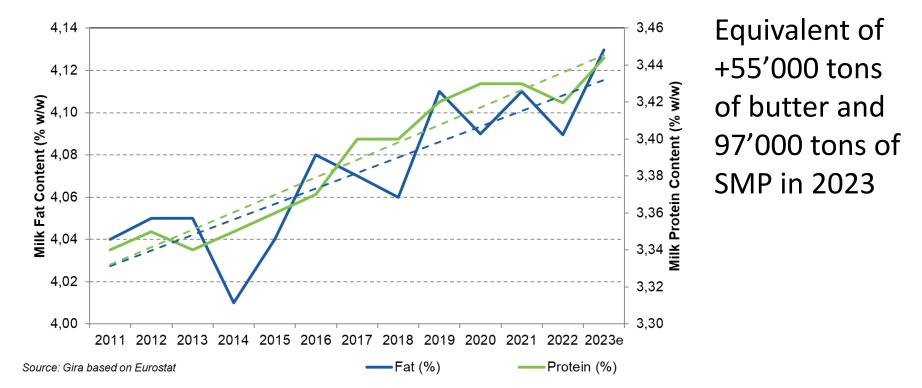




# Between 2012 and 2023 we have gained potentially 120'000 tons of butter and 428'000 of SMP



#### Milk fat and protein contents over the years



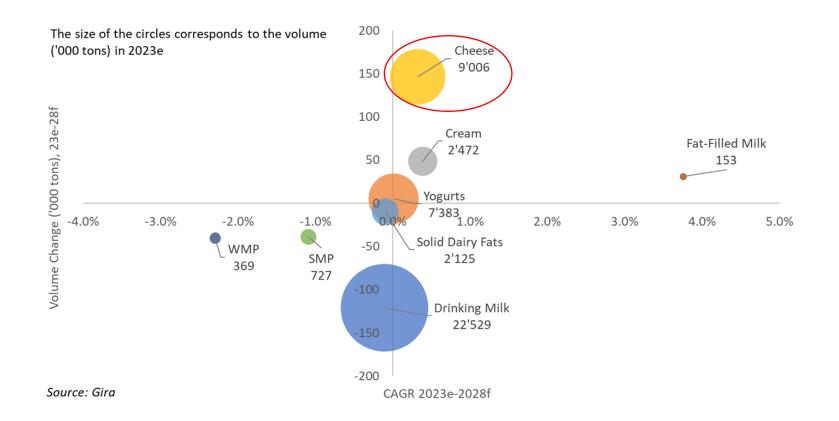


#### Milk collection growth, EU-27, 2019-2024f



#### **EU dairy consumption trend 23/28** *More and more cheese*



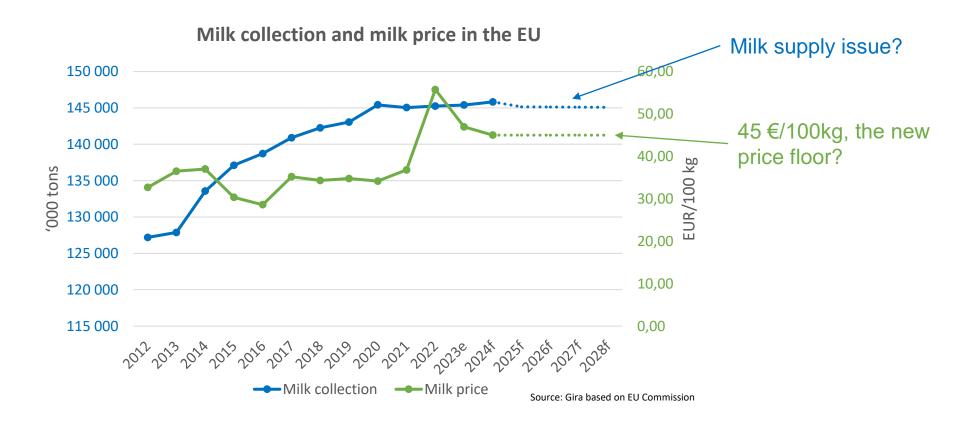




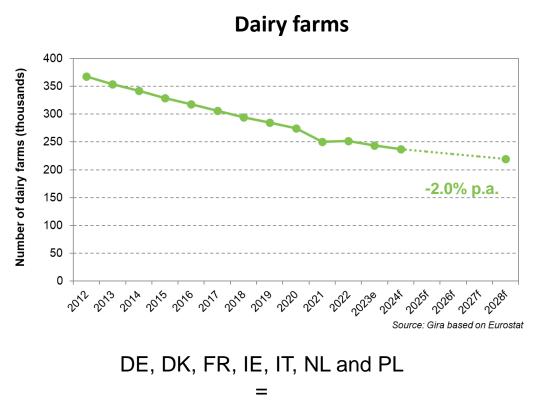
## Less milk and a more expensive milk

#### **Is 45 €/100 kg the "new normal" in Europe?** *Higher milk price will weight on margin: need for added value*



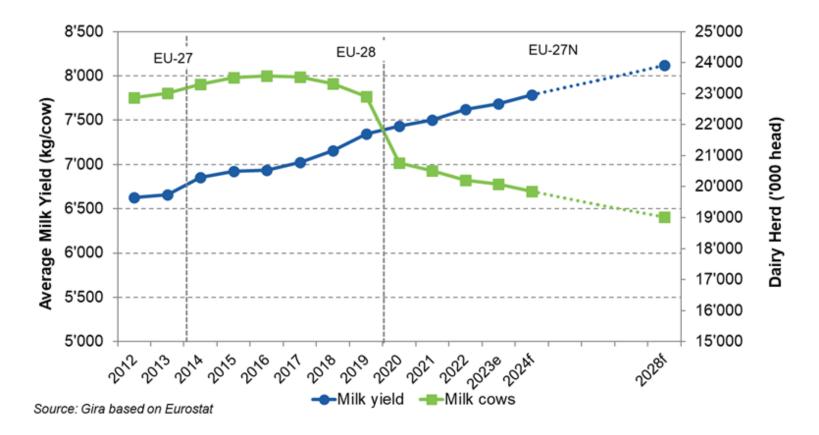






52.3% of EU-27 dairy farms

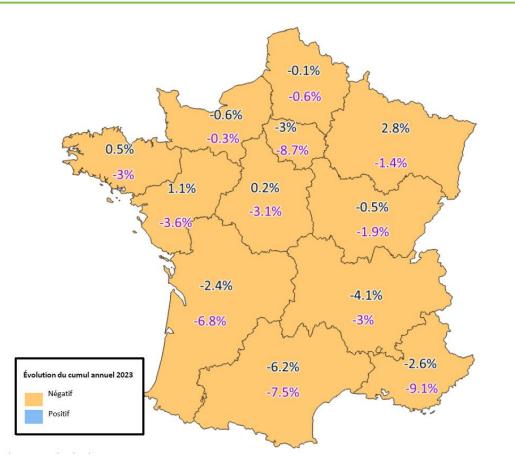
## # cows will continue to go down (-1,1%), yield will goes up EE: -1,6% p.a during the period but Yield +3,7% p.a (best in class in the EUGITA



#### Milk collection in France: down in every region

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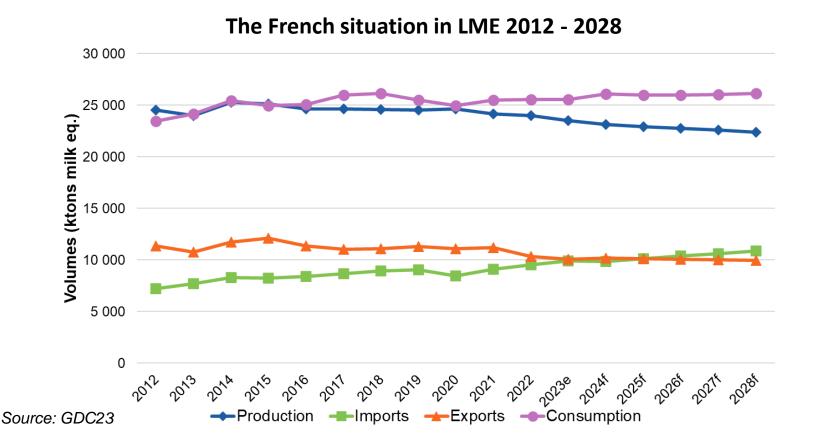
2023: -2,7%, Jan 24: -0,3%



### The milk situation in France in LME

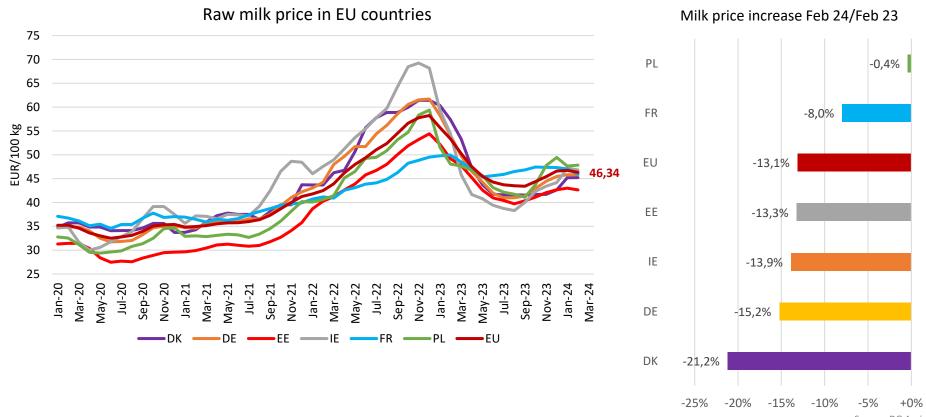
By 2027 France could become a net importer.





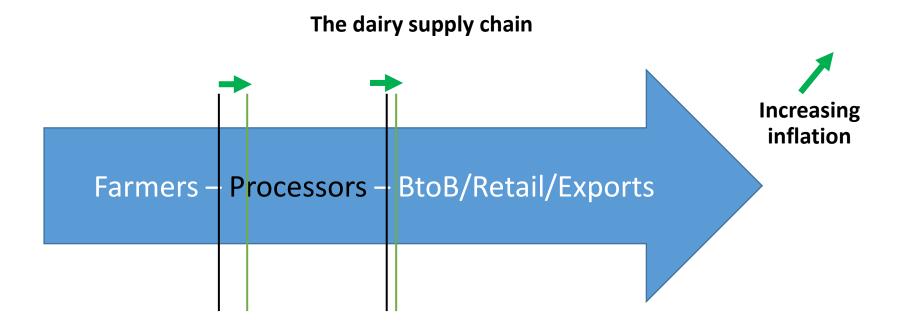
#### Milk prices: slightly up in February for most countries Except for Estonia





Source: DG Agri © Gira What's the impact on processors? Processors' margins will be squeezed





Farmers will have a greater power of negotiation

Clients of dairy processors (retail, BtoB and exports) have little room for price adjustments

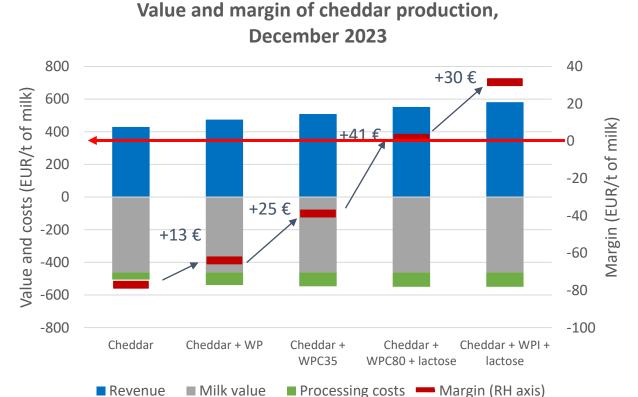
 $\rightarrow$  Processors' margins could be squeezed  $\rightarrow$  Dairy companies will readjust their strategies



# Extraction and valorisation of milk components Not anymore the cherry on the cake but the cake itself



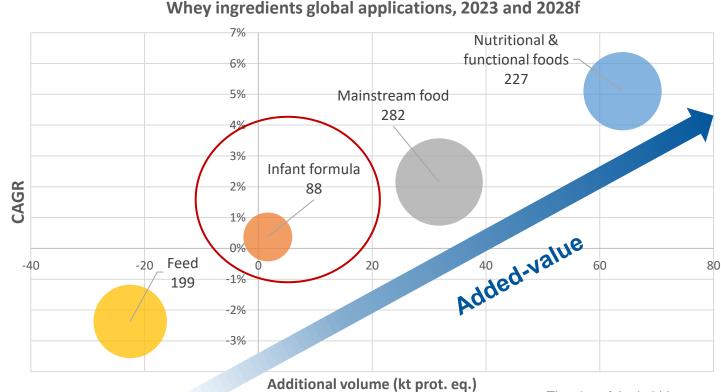
### European Cheddar gross margin calculation December 23 Valorisation is not enough. Compulsory to produce added value ingredient



Source: Gira calculation

### **Global applications** *Nutritional & functional food still drives the demand*





The size of the bubbles corresponds to the volume in 2023

#### Dairy protein powders prices, EU

**┌─** +22.0% 16 000 -16.7% +18.2% +7.7% +20.4% 14 000 +8.3 -28.9% ¬ 12 000 +18.3% +21.1% +18.0% 34.8% +16.9% 10 000 7.9% 0.9% 4.8% 1.2% .6% 7.0% 8 000 6 0 0 0 -8.6% -14.9% 4 0 0 0 +56.8% 2 000 48.5% 0 MPC 85 Acid Caseins Caseinates NPC35 NPC80 NP1 DNP90 WE WE SE WE WINNE

#### Dairy protein powders prices, EU

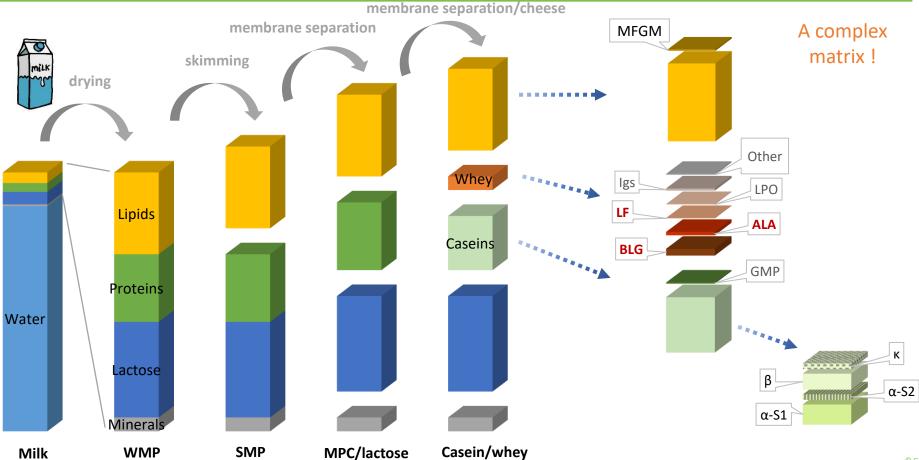
Jan. 22 Jan. 23 Jan. 24



### Milk is full of surprises !

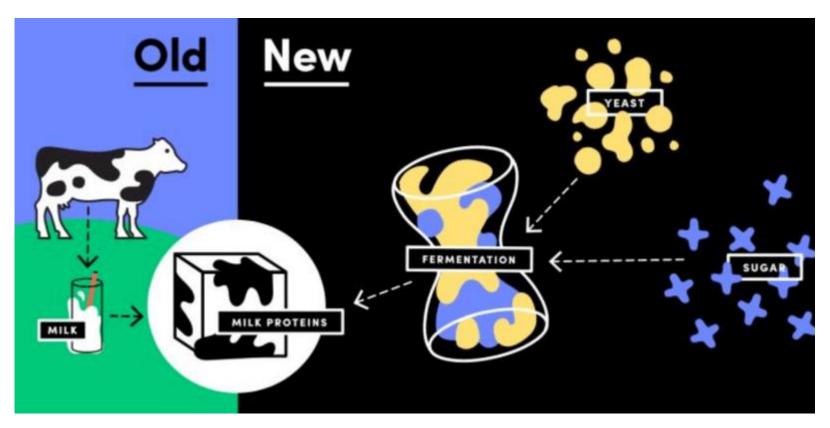
### Minor components, future added-value of milk!





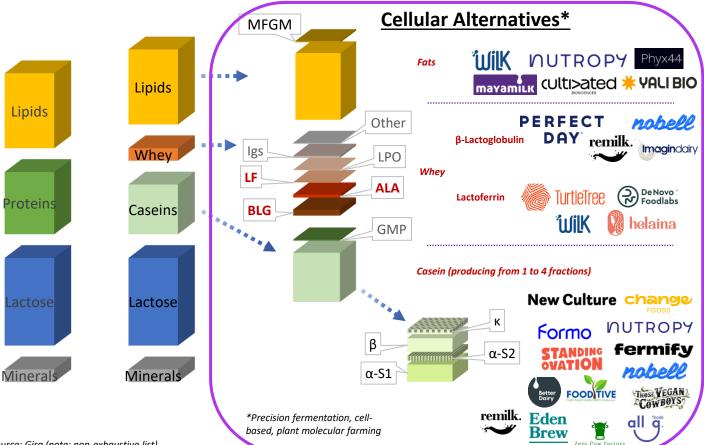
But watch out the next generation of ingredients that will come from precision fermentation!





Milk cracking: the door is open to cellular alternatives (PF)

*Focusing on high-value ingredients without the burden of co-products* 



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## 2023-2024 developments

21g 10

#### The sector is moving fast !





Cupcake Mix (Perfect Dav)

10x more sustainable than dairy whey
 Better for you and the planet too
 Easier to digest
 No hormones or antibiotics
 Lactose free
 No animal ingredients
 Lower water consumption
 10x less GHG emissions than dairy whey

The EVERY Company to 'launch with multinationals' this year as it ramps up manufacturing capacity for animal free egg proteins

February 2, 2024 Elaine Watson

#### Yali Bio Announces 'World's First' Yeast-Derived Breast Milk Fat from Precision Fermentation



- Growing regulation approvals
  - US, CA & IS
  - Remilk, TurtleTree, Vivici, etc.
- Growing partnerships & capacity
- Creation of alliances between start-ups
  - Precision Fermentation Alliance PFA
  - Food Fermentation Europe FFE
- Release of LCAs (ex: Bon Vivant)

#### BUT

- Mitigated commercialisation:
  - Remilk & Generall Mills: started and stopped
- Declining investments
- Perfect Day business change

### Example with Orgain





Price: 80\$/kg ; 58.3% of proteins

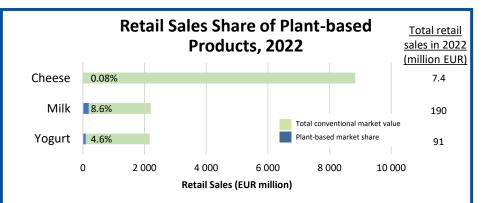


### **Plant based alternatives**

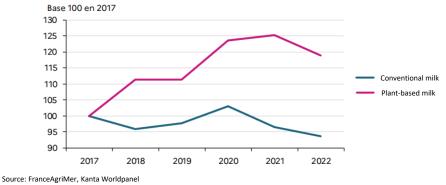
#### The French Example

#### Total growth remain positive in 2023 but slowing down





# Conventional and plant-based milk retail sales evolution, 2017-22



#### What about 2023?

For total plant-based products in 2023 vs 2022: Value sales: **+9.6%** (+17.7% since 2020) Units sales: **+0.4%** (+7.9% since 2020)

| Responsib | sponsible consumption: volume evolution (23/22) |       |         |  |  |
|-----------|---|-------|---------|--|--|
| Organic   | Equitable                                       | Local | "Green" |  |  |
| -12.5%    | -8.3%   | -3.7% | -1.7%   |  |  |

#### Indulgence is leading innovations



Source: Circana, top sales of plant-based substitute innovation in 2023 (hypermarkets)

### **Dairy Alternatives: Product Failures in 2023**

*Taste, texture & price are still the main brakes* 

Dairy alternatives: General Mills shuts down Bold Cultr, Daiya to invest in

fermentation





Nestlé's Plant-Based Brands Wunda, Garden Gourmet and Mezeast to Stop Retailing in UK Supermarkets

March 17, 2023

Has the vegan bubble burst? Sales stagnate in UK as brands withdraw plant-based products



- Taste, texture & price are still consumer brakes:
  - Competitive market conditions
  - Rising production costs (exacerbated by the conflict in Ukraine)
  - Economic slowdown, inflation limiting investments and purchasing power
- General Mills: de-prioritized Bold Cultr fundings and shut it down (cream cheese with proteins made through PF)
- Nestlé: withdraw its products from UK + IE markets (brands: Wunda, Garden Gourmet, and Mezeast)
- Coca-Cola: withdrawing its Innocent plantbased dairy drinks in the UK (which launched in 2018) due to poor sales performance.



#### **New Products Developments**







Califia Farms (US)

"Complete" is a premium product made with all 9 essentials amino acids, made with a blend of pea, chickpea, and fava bean proteins Added functionality



Stockeld Dreamery (SE)

New "Melt" cheese line, made from the company's fermented legume milk (with a pea protein base)



Novel

technologies

#### ANDFOOD (NZ)

Fermenting pulses with high nutritional benefits and functional properties, while low carbon emissions. Claim to have "eclipsed all other plantbased creams" in testing, with 140% overrun Sustainability & upcycling



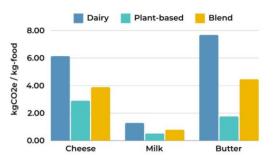
#### Emmi & Coop (CH)

Using apricot kernel, helps to prevent food waste and reduce carbon emissions; no added sugar, and is enriched with calcium and vitamins

#### Hybrids

#### Assessing the impact opportunity of blended dairy & plant-based products

Comparing the carbon intensity (kgCO2e / kg-food) of Smug Dairy's oat-dairy blend\* with dairy and PB equivalents



"Carbon footprint of SMUG Dairy estimated by My Emissions using publicly available data. Comparisons are with standard equivalent products (e.g. semi-skimmed and oat milk) and are for illustrative purposes only My Emissions

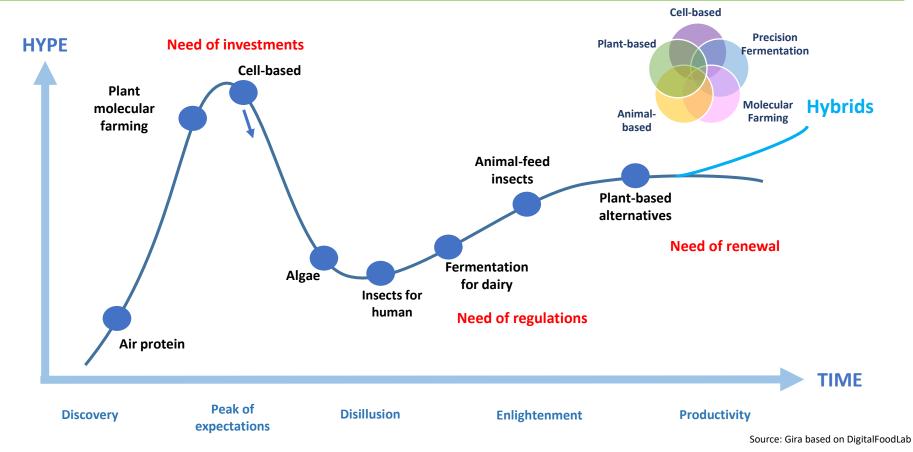
#### Kerry (US)

"SMUG Dairy": blended oat and dairy range of Cheddars, Milks and butter

### So where are we now concerning new ingredients?

Various new technology developing new ingredients





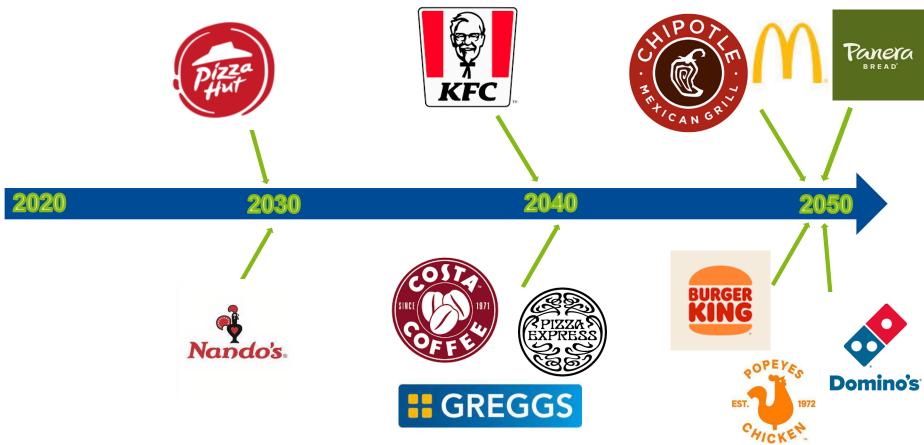


### What about sustainibility?

#### **Restaurant Chains Net Zero Goal Date**

Wide range of targets – will translate to action from production





#### **Food Retailers Net Zero Goal Date**

Retailers are still working on their policy delivery





#### Sustainability: scope 3 impact

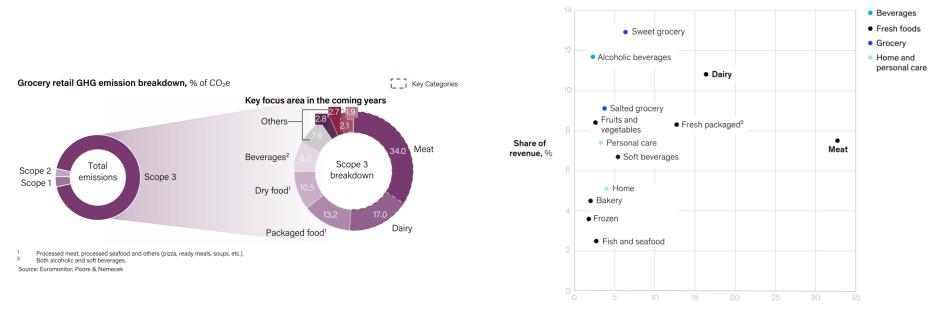
Meat&Dairy will increasingly be under pressure. Be prepared



Grocery Retail GHG Emission Breakdown, % of CO2e

# Grocery revenue vs GHG footprint by category. 2021

Grocery revenue vs greenhouse-gas (GHG) footprint, 2021, by category<sup>1</sup>



#### Share of GHG footprint, %

Revenue share based on average revenues of Western European grocers; share of greenhouse-gas (GHG) footprint calculated by multiplying category volumes with average GHG impacts per category.

<sup>2</sup>Processed meats, processed seafood, and others (pizza, ready meals, soups, etc).

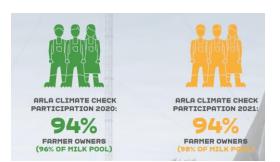
Source: Euromonitor; Thomas Nemecek and Joseph Poore, "Reducing food's environmental impacts through producers and consumers," Science, June 2018, Volume 360, Number 6,392; McKinsey analysis

### Final Thoughts

### European dairy industry faces increased supply pressure



- Sustainability is a significant hurdle for the industry current lack of clarity for long term investment, combined with generational shift, will drive a further EU production decline.
- Two major drivers for implementing sustainability
  - Government regulation development of legislation and industry targets
  - Customer demand, both end user and major food brands but don't forget retailers
- Clear need for urgent industrial action to respond to climate change threats and other environmental challenges







### Conclusions

### **Overview of key factors influencing the European dairy sector** *In 2024 (vs. 2023)*



| Factors            | Bullish  | Bearish  |
|--------------------|--|--|
| Milk Supply        | Not expecting a lot more milk<br>EU: low. Watch out environmental constraints<br>US: no growth S1 and slight growth in S2<br>NZ: stable  | But potentially a higher fat content in milk in<br>the EU in 2024<br>Same situation in the US  |
| Weather            | El Nino (seems not to have any major impact so far in NZ)  |  |
| Logistics          | Cost of containers from EU to China could continue to push prices up.  |  |
| Supply             | Butter: Potential lower production to absorb cheese facility production increase (Ireland)<br>Low SMP supply   | Potentially more from NZ (butter and AMF)<br>Cheese: more production coming (mainly US)  |
| Demand             | <ul> <li>Butter: Still good demand in the bakery sector in the EU EU cream demand is positive.</li> <li>SMP: consumption is low in Europe but still growing in countries like Algeria/SEA</li> <li>Cheese: consumption is still growing in the EU but also around the world</li> </ul> | Butter: Watch out the price increase: there is<br>a strong price elasticity<br>SMP: Potentially low Chinese 2024 imports<br>(no growth expected compared to 2023) (to<br>absorb strong 2023 stocks)<br>EU demand remaining low |
| Oil Price (energy) | Slightly higher crude oil price (EIA forecasts)  |  |

### **Key conclusions**



- A lot more uncertainties than before
- Less milk within the key exports zone for the future
  - We need to give a "better future" to our dairy farmers
  - As more milk will be needed for the future
- Cheese will continue to be the winner: increase production but also consumption
- Dairy ingredients are now the key component of dairy processors profitability
  - Exported ingredients will be part of the solution for Estonia

And don't forget sustainability. Otherwise, retailers will wake you up





Should you require more infos please contact

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