



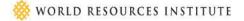
LE SFIDE GLOBALI DEL SETTORE LATTIERO CASEARIO: COME AFFRONTARLE ANCHE GRAZIE AL SUPPOORTO DELLA FIL-IDF

> PIAZZOLA SUL BRENTA 30 NOVEMBRE 2025

If the World's 2 Billion High Consumers Cut Their Meat and Dairy Consumption by 40%...



wri.org/shiftingdiets



SUSTAINABILITY

Why planet-based diets are key to meeting agricultural emissions goals

Shifting diets away from meat and dairy to plantbased protein will be vital in driving down greenhouse gas emissions from agriculture but does a broader concept of a "planet-based diet" hold the key to achieving reductions consistent with the Paris climate goals? **Ben Cooper** explores the implications for food companies.



EVERY DAY YOU ARE VEGAN YOU SAVE 12,492 B SQUARE LITRES OF METERS OF WATER FOREST

27 KG OF CARBON DIOXIDE

ANIMALS

54KG 0F

GRA

BE KIND. EARTH FRIENDLY. HEALTHY

@VEGANDIVERKATT

WWW.MYVEGANEXPERIMENT.COM

uses 70% of fresh water



uses 33% of land area



generates 24% of GHGs



uses 30% of global energy



... But feed 100% of us



MANGIAMO ALIMENTI DI ORIGINE VEGETALE E ANIMALE





GLI UMANI SONO ONNIVORI





They're a solution or they're a problem!







Responsible Dairy Use Recycling & Reuse Waste Reduction Impact







Green Supply Chains
Sustainable Product Demand
Eco-friendly Market Impact





Organic Feed Growth Minimized Chemical Use Enhanced Soil Fertility







Sustainable Dairy Processing Eco-friendly Packaging Energy Efficient Storage





Efficient Milking Practices
Reduced Carbon Emissions



1 NO POVERTY



 Many rural areas rely on dairy production and processing for their income

2 ZERO HUNGER



- Dairy products are naturally nutrient dense foods, supplying significant amounts of high-quality protein and micronutrients, including calcium, magnesium, selenium, riboflavin, and vitamins B5 and B12
- Animal by-products can be used as fertilizers for crop production

3 GOOD HEALTH AND WELL-BEING



- Dairy products provide essential nutrients, especially for adolescents, women of reproductive age and the elderly
- The dairy sector also ensures the good health and well-being of its animals
- Dairy intake is associated with a decreased risk of type 2 diabetes and colorectal cancer

4 QUALITY FOUGATION



- A healthy diet, of which dairy is key, is vital for a person's learning capacities
- Dairy production provides incomes that can support education

5 GENDER EQUALITY



Milk production supports women empowerment.





- Dairy livestock can contribute to the protection of water quality through grazing
- In dairy manufacturing plants, the reuse of water provides opportunity to significantly reduce the stress of water availability in certain parts of the world and/or under certain environmental circumstances.

7 AFFORDABLE AND CLEANENERGY



 Dairy production can provide an alternative to fossil fuels, such as the recycling of manure.

8 DECENT WORK AND ECONOMIC GROWTH



The dairy sector from farming through processing and distribution provides socially just and economically rewarding opportunities for owners, managers, wo-rkers and the communities in which they live.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



- The entire dairy value chain, from production, processing to retail, provide valuable inputs
- There is an increasing amount of innovation in the sector

10 REDUCED INEQUALITIES



 Dairy production is a source of income, creates employment opportunities and provides market participation

AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



- Wastes and losses along the dairy production chain are still relatively high (of 1 I milk, 100ml - 250 ml is wasted, depending on the region)
- The dairy sector is has been a major stakeholder in food waste reduction initiatives

13 GLIMATE ACTION



- The dairy sector is a significant contributor to global Greenhouse gases emissions (2.7%)
- Dairy producers have been the forefront of developing and implementing more environmentally friendly practices

5 LIFE ON LAND



- Efficient grazing management can contribute to grassland restoration, carbon sequestration in soils and can reduce deforestation through agroforestry
- Ruminant grazing can turn unusable peripheral land into high quality protein for human consumption

PARTNERSHIPS FOR THE GOALS



 The dairy sector stakeholders have come together under the Global Dairy Agenda for Action (GDAA) and created the Dairy Sustainability Framework, a roadmap towards greater sustainability in the sector

CONTRIBUTION GLOBAL DAIRY SECTOR TO SUSTAINABLE

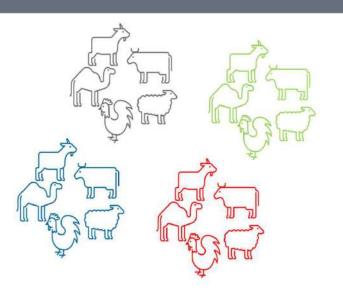
DEVELOPMENT GOALS



What do we want to achieve?



Sustainable Livestock Transformation Initiative



Sustainable livestock sector that satisfies global demand for animal source foods and other animal products, distributes benefits equitably, and contributes positively to the environment while using natural resources efficiently and sustainably.





TODAY'S CHALLENGES FOR AGRIFOOD & DAIRY







Productivity vs. Sustainability

Increased food outputs with less environmental impacts - soil degradation, water scarcity, and emissions.

Fragmented & Inefficient Supply Chains

Post-harvest loss, lack of cold storage, low prices for farmers & producers, & high prices for consumers.

Aging Farmer Population & Rural Poverty

Youth are migrating away from agriculture, leading to an aging workforce, threatening future food production.

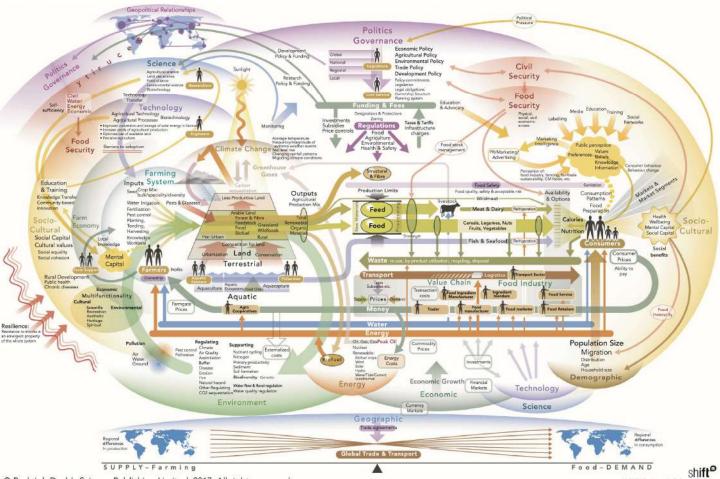
Climate Change Vulnerability

Increasingly frequent and severe droughts, floods, weather pattern changes impacting yields and food security.

Changing Diets & Health Concerns

Rapid urbanization is driving a shift towards processed foods, contributing to malnutrition, undernutrition &

Global Food System Map Assessing the overall impact of the dairy sector (J. Hill)



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Politiche pubbliche e istituzionali

INNOVAZIONE

Benessere animale e biodiversita'

Applicare le migliori tecniche e pratiche disponibili

Tecnologie high-tech e intelligenti per ottimizzare uso risorse

Leggi ambientali adeguate, ne' troppo restrittive ne' troppo permissive

Riduzione degli sprechi e dei rifiuti



Aumentare l'efficienza nell'uso delle risorse naturali

Economia circolare

Allineare,connettere e condividere

Sostenibilita' socio-economica oltre che ambientale

Ridurre, regolare, rigenerare e reindirizzare

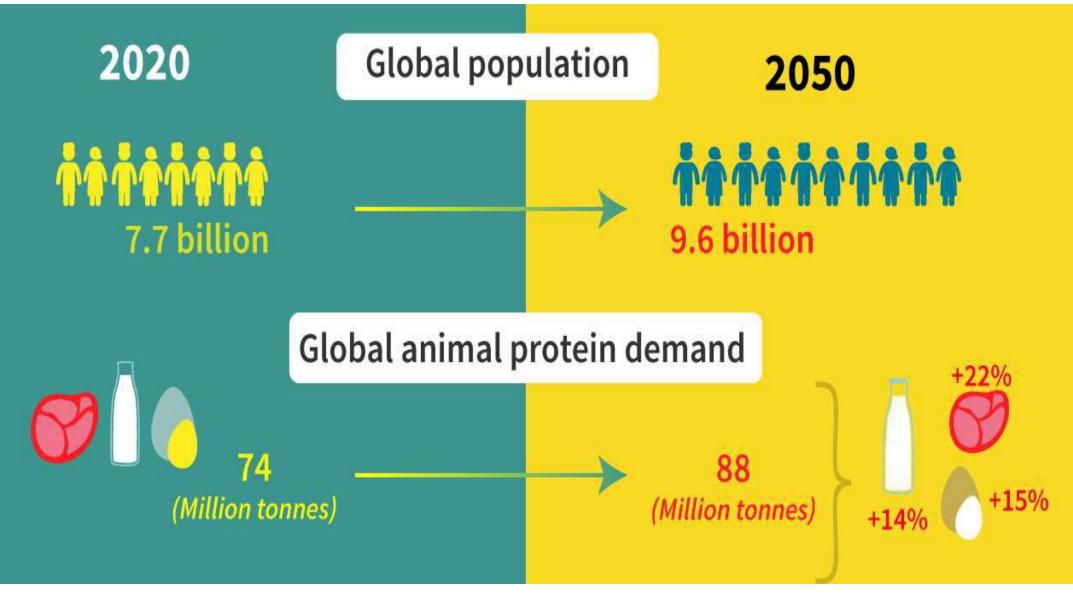
1)Comunicare l'impatto in valore del settore lattiero caseario e dell'agricoltura piu' in generale

- 8,3 billion people on the planet
 - Food insecurity is on the rise
 - Climate change challenges
 - Geopolitical influences
- Nourishes 6 billion people worldwide
- Provides livelihoods for over 1 billion individuals
- 132 million farm households
- 750 million people engaged in milk production





2)Popolazione mondiale e aumento della domanda della proteina animale







The challenge

We need to produce More with Less

Natural resources





Today
842 mln people chronically
hungry<> 1.4 bln overweight

Every minute 158 More mounths to feed



of which 154 in developing And emerging economies Natural resources

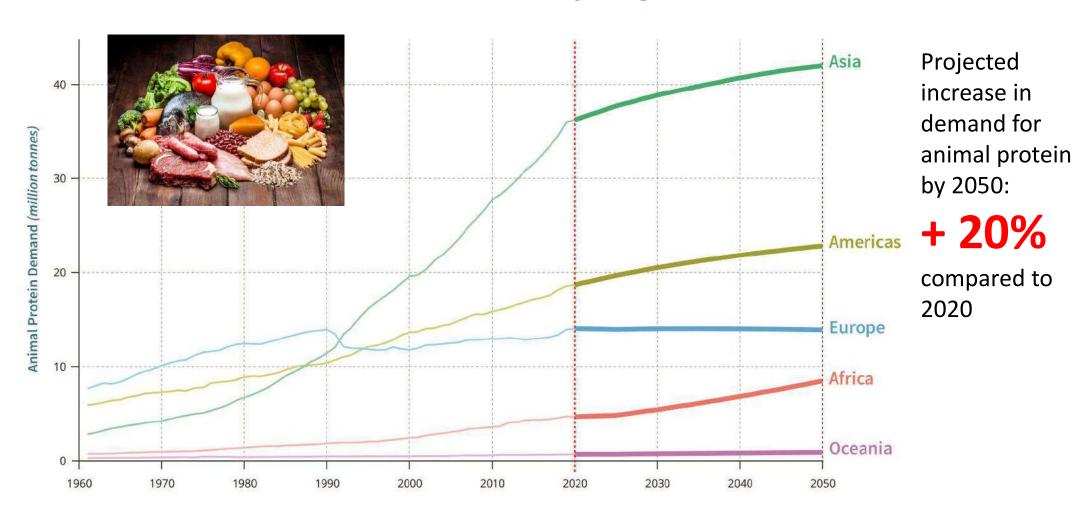


More mounths with more money Living in (mega) cities + 50-70% food by 2050 versus 2020





Demands of animal-source foods by Region



INTENSIFICAZIONE SOSTENIBILE

Future State 2030: The global megatrends shaping governments

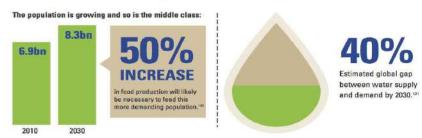
Global megatrend #8

Resource stress

he combined pressures of population growth, economic growth and climate change will place increased stress on essential natural resources including water, food, arable land and energy. These issues will place sustainable resource management at the center of government agendas.

By 2030, significant changes in global production and consumption, along with the cumulative effects of climate change, are expected to create further stress on already limited global resources. Stress on the supply of these resources directly impacts the ability of governments to deliver on their core policy pillars of economic prosperity, security, social cohesion and environmental sustainability.

The evidence of change



TODAY

The International Energy Agency projects an approximate 40% increase in global energy demand by 2030.122

DRIVEN BY

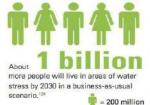


Economic growth



Technological advancements





Both growing demands and unstable production patterns due to climate change will cause global food prices to double between 2010 and 2030.125



The consequences of resource stress







Increased water demand



Energy demand on the rise

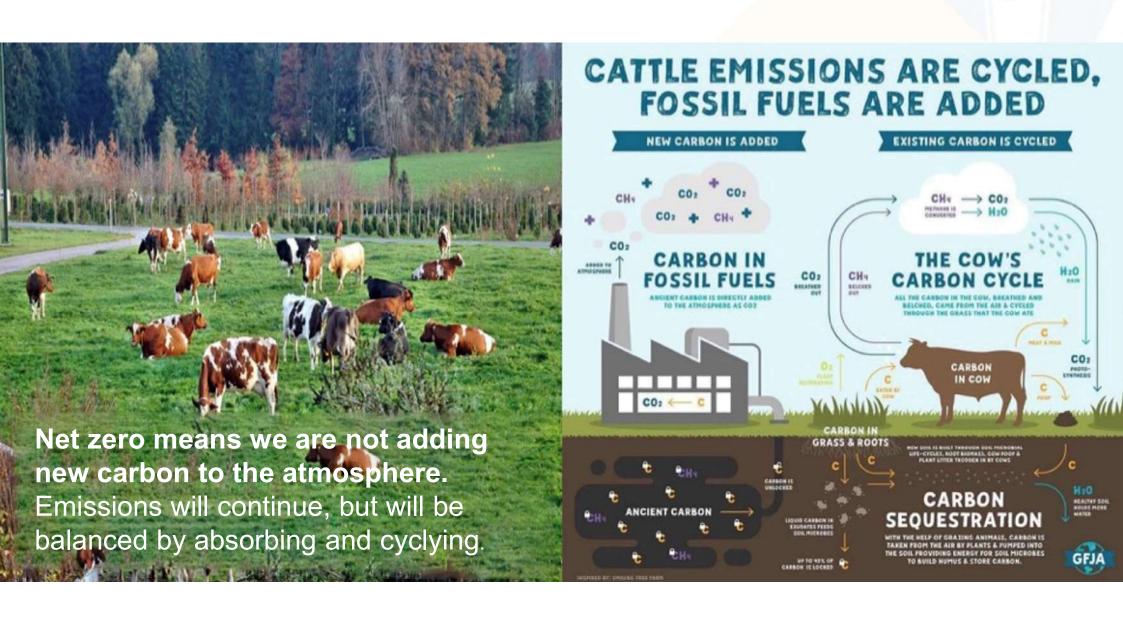


Competition for metals and minerals



Increased risk of resource nationalism

3) Spiegare e far capire il concetto di Circolarità delle emissioni della vacca



Diapositiva 18

SU FOTO NEW CARBON - NO EMISSION (SOLO LA PRIMA) Sofia Zanetti; 2024-10-03T09:26:01.417

Biogenic Carbon Cycle Methane - CH4 CO2 (Methane) CH4 Photosynthesis Suniight - H,O - CO2 Carbonyd Carbohydreles



Global Warming Potential (GWP₁₀₀) of Main Greenhouse Gases





Carbon Dioxide (CO₂)

Methane (CH₄) 28

Nitrous Oxide (N_2O) 265



Half-Life of Main Greenhouse Gases in Years

Carbon Dioxide (CO₂) 1,000

Methane (CH_4) 12

Nitrous Oxide (N_2O) 110









GWP* - A new way to characterize short-lived greenhouse gases

- GWP100 overestimates methane's warming impact of constant herds by a factor of 4, and overlooks it's ability to induce cooling when CH₄ emissions are reduced.
- GWP* is a new metric out of the University of Oxford that assesses how an emission of a short-lived greenhouse gas affects temperature.
- GWP* not only accounts for methane's short lifespan, but also its atmospheric removal.





4)Le ricadute socio, economiche, ambientali e nutrizionali del settore lattiero caseari



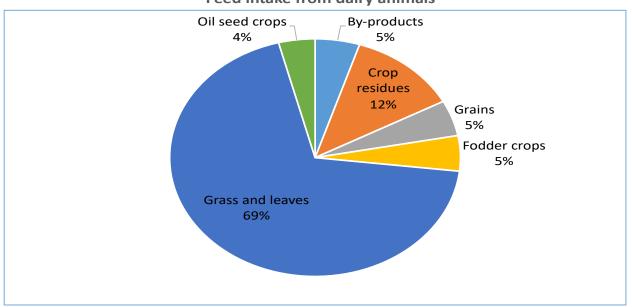
LATTIERO CASEARIO SISTEMA SOST-EDIBILE





Feed requirements

Feed intake from dairy animals



96% of the global dairy feed intake is made of materials that are currently not eaten by humans









COME LA FIL-IDF SUPPORTA IL SETTORE LATTIERO CASEARIO

GLOBAL REACH

- Established in 1903
- Members in 40 countries representing 75% of world milk production
- 1,200 experts working in 17 Standing Committees and 5 Task Forces
- Accredited to the FAO, Codex, WOAH, UNEP, UNFCCC, ECOSOC







Diapositiva 23

Waiting for confirmation from AD on correct number of SC and TF's after merging of SC's Author; 2024-03-28T09:53:37.611

IDF PILLARS OF WORK















IDF WORKING AREAS

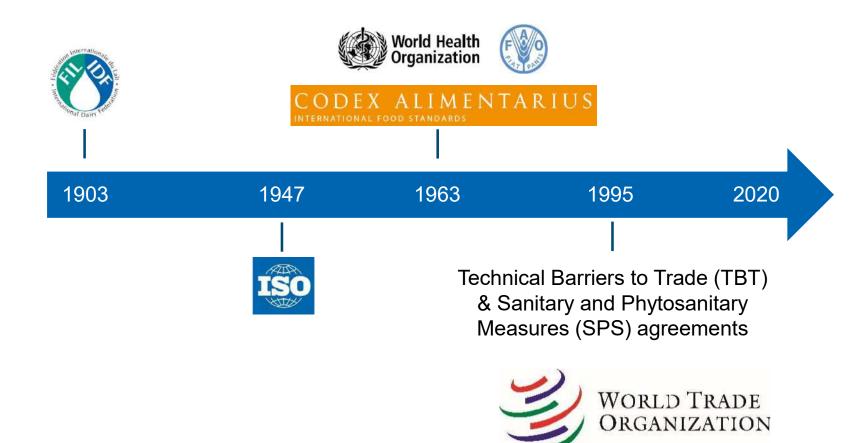
1,200 EXPERTS COVERING NINE AREAS OF WORK

REPRESENTING THE ENTIRE DAIRY SECTOR



- Milk processors
- National dairy organizations
- Academia/non-profit research institutes
- Farmer co-operatives
- Farmers
- Government (ministry of agriculture)
- Suppliers
- Unions (milk processor employees)

IDF ACHIEVEMENTS ON STANDARDS





IDF METHODS OF ANALYSIS ARE ACCEPTED BY IGOS

- The methods developed by IDF, jointly with ISO, are standards accepted by all key organizations
- IDF is currently working on +40 standards, including:
 - Determination of alkaline phosphatase activity Fluorimetric microplate method marker for pasteurisation)
 - Guidelines for the validation of qualitative screening methods for the detection of residues of veterinary drugs in milk and milk products
 - Protein in dairy products
 - Nutrients in Infant Formula, in collaboration with AOAC International
 - Microbiological methods, revision of standard for Enumeration of characteristic microorganisms in yogurt









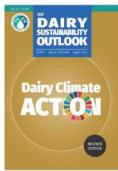




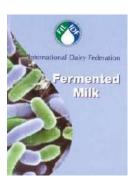




IDF has been delivering a range of publications since 1903



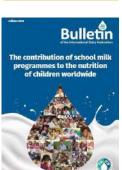










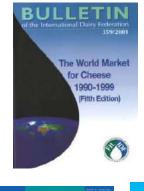














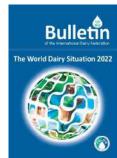


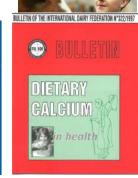


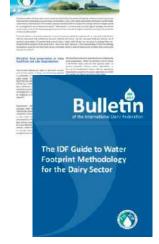












Diapositiva 29

EE: I personally think this could be presented in a much neater way. Author; 2024-01-30T09:12:10.391 **A1**

A1 0 Text also needs to be added to the notes

Author; 2024-01-30T09:13:51.059

Let's think of new ways to show this Author; 2024-01-31T10:49:03.216 A1 1

IDF AS A PUBLIC SOURCE OF INFORMATION









onsuming nutritious food is important at I stages of life, but especially for children of adolescents...

Addressing childhood malnutrition in Sri Lanka New school milk program in Sri Lanka also promotes food safety and recycling

Enhancing child health in Russia through school milk Promoting milk consumption and mproving bealth in Picasia

GiftMilk, a School Milk Programme in India

Burundi's growing school food program

HOME / DAIRY'S GLOBAL IMPACT / DAIRY SUSTAINABILITY OUTLOOK

Peru's school nutrition program

School milk helps increases enrolment rates in Kenya

Rebate Program, Student Nutrition Ontario, Canada





and International

The future of dairy sustainability

The latest issue of the report is dedicated to the 5 action tracks of the UN Food Systems Summit and how dairy is helping to deliver on global sustainable development goals.

progress on all 17 SDGs, each of which relies to some degree on healthier, more sustainable and equitable food systems. Guided by five Action Tracks, case studies from the dairy community are presented, showcasing how the sector is committed to nourishing the global population with safe and nutritious foods through sustainable production systems.

Recent reports/publications

IDF provides a permanent source of authoritative scientific and other information on a whole range of toolog relevant to the dairy sector.









HOME / DAIRY'S GLOBAL IMPACT / SCHOOL MILK KNOWLEDGE HUB

SHARE THIS PAGE





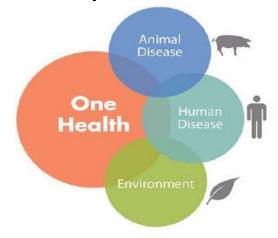






FIL-IDF PROMOTE THE ONE HEALTH STRATEGY

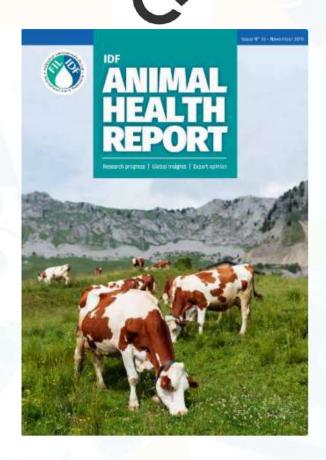
- Guidelines for the prudent use of antimicrobials in the milk production.
- The Animal health report.
- Technical support to guarantee and mantain productive and healthy animals.







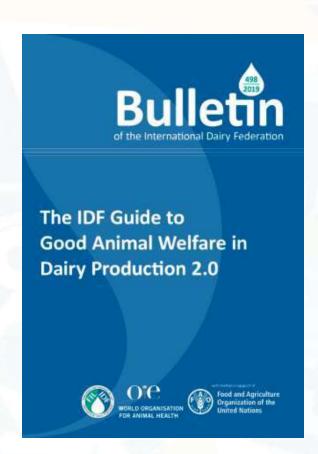






IDF GUIDANCE FACILITATES GOOD ANIMAL WELFARE PRACTICES

- IDF Guide to good animal welfare in dairy production 2.0
- Implements the current standards of the OIE and the technical specification of ISO on welfare and provides a practical approach for farmers















DAIRY SAFETY, QUALITY AND STANDARDIZATION

Without food safety, there is no food security. IDF strives to promote science-based and informed approaches to dairy safety and quality. Our strength lies in building

Our strength lies in building consensus, developing dairy standards grounded in science to

phance trust.



IDF PROTECTS HEALTH THROUGH FOOD SAFETY GUIDANCE

- Food safety concerns both protection from pathogens and from toxic chemicals, and IDF has published on both topics, as well as on best practices.
- Antimicrobial resistance is a topic that has much attention from policy makers and the public.
- In addition to publishing guidance on AMR in the dairy sector, IDF is representing the global dairy sector in the intergovernmental work of Codex mentarius on AMR.

GOOD HEALTH AND WELL-BEING

IDF methodologies and sustainable practices



A common carbon footprint approach for the dairy sector

The IDF guide to standard life cycle assessment methodology



The IDF Guide on Biodiversity for the Dairy Sector



Total cost of ownership

An approach to support sustainable investments in the dairy processing and packaging industry



The IDF Guide to Water Footprint Methodology for the Dairy Sector



Wastewater Treatment in Dairy Processing

Innovative solutions for sustainable wastewater management



Eco-friendly and energy-saving dairy technologies



The IDF global Carbon Footprint standard for the dairy sector



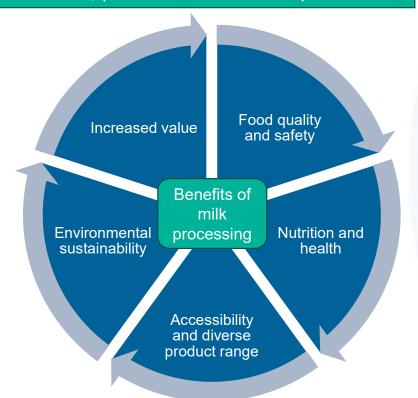
C-Sequ LCA guidelines for calculating carbon sequestration in cattle production systems





IDF PROMOTES SUSTAINABLE MILK PROCESSING

Processing covers technologies needed to transform, preserve milk and milk products





Dairy processing is privotal in converting raw milk into a diverse range of high-quality and safe dairy products. This factored is intended to provide by information on the broader relevance of what processing milk means, from safety to diversible.

Introduction

Itemans have been processing food since prehistoric times. Archaeological evidence suggests that he has been used to coak flood as to tack as 700 000 years. Earther etc.), 2002; Processing consists of various processes or technologies that transform agricultural raw materials or ingredients raising a new form with improved properties (floor). A loggist, 2001; Processing includes traditional methods such as cooking, drying, smiking, ferministation, and modern methods such as postimization, laber high has a format time treatment; flattation or pressure processing recovering enables the transformation of perintable agricultural raw materials into adobts, self-and natiritions and self-and processing and the self-and processing and the processing conditions and the self-and processing and the self-and materials.

The extent to which products are processed does not determine their role in a healthy and balanced det. These processes do not cause deleterations changes to the mutriflood value of daily products or ingradeuts (elbusparence et al., 2023). In fact, processing contributes to safer and insultive disast promotes of the processing contributes to safer and insultive disast promotes other benefits important to extractable food systems (Factor et al., 2022), Desgite this, standard, concerns regarding processing, particularly the concept of ultra processed food (IFF), and itsimized no consense health have extracted in several valors.

The dairy sector plays an essential role in nounthing the world with global milliproduction in 2020 forecast at accurate 409 million formes, up by 6.9% from 2021 (food and Agriculture of the builded hatdons (FAO), 2023) and estimated to increase to 1.020 million fromes by 2530 per FAO data (OECD & FAO, 2021). This expanding milk supply contributes to more dairy assibability beyond just the region where it is produced. More fram 80% of the world's population, or about 6 billion people, regulatry consume liquid milk or other dairy products, which would not be possible without processing advances and destibution. The dairy socies in the third largest provider of proteins and fat to human clobs and an important source of affordable, sustainable and essential nutrients for all (FAO & Global board hat milk professions).

www.hi-ldf.org

Factsheet of the IDF N° 37/2024: Benefits of processing in dairy



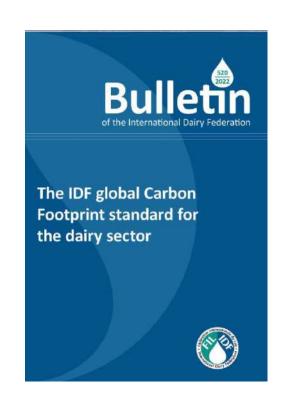
MILK PROCESSING - ENVIRONMENTAL SUSTAINABILITY



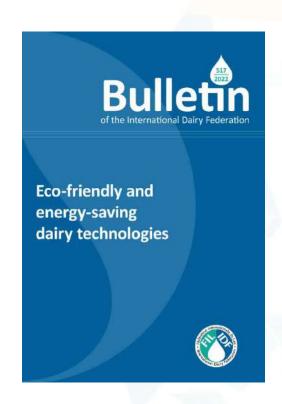




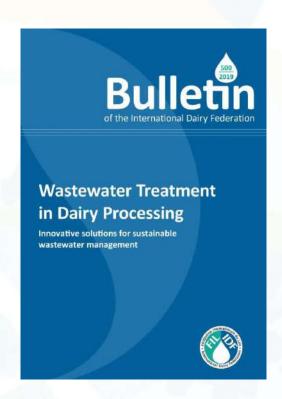




Bulletin of the IDF N°520/2022: The IDF global Carbon Footprint standard for the dairy sector

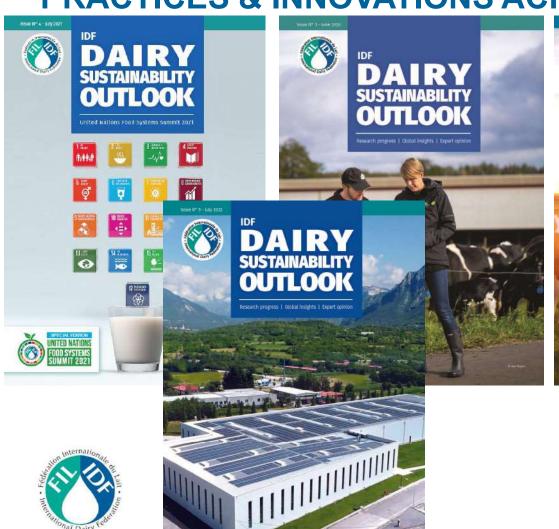


Bulletin of the IDF N°517/2022: Eco-friendly and energy-saving dairy technologies



Bulletin of the IDF N° 500/ 2019: Wastewater Treatment in dairy Processing

THE SERIES EXPLORES CASE STUDIES OF SUSTAINABLE PRACTICES & INNOVATIONS ACROSS THE DAIRY SECTOR

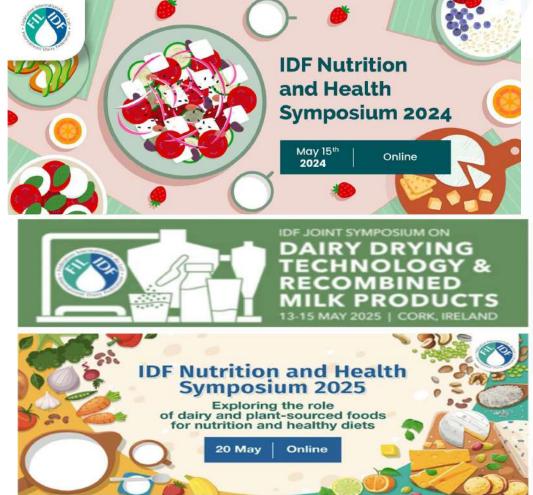






PROMOTING DAIRY'S VITAL ROLE IN NUTRITION

- IDF is highly engaged in the discussion on how to feed the world with a healthy and sustainable diets.
- Recent work has included a scientific symposium to look at the role of dairy in sustainable diets.
- Promoting science based nutrition within UN institutions



Value of terrestrial animal source food in human health



Nutrients found concentrated and bioavailable in terrestrial animal source food play important roles in human health









MACRONUTRIENTS

High-quality proteins

- · Increase muscle mass
- · Prevent loss of muscle mass

Long-fatty acids and ratios of essential fatty acids

- Cognition
- Neurodevelopment
- Anti-inflammatory processes

MICRONUTRIENTS

Zinc

Vital functions in growth, development and immunity

Vitamin B12

- Neurodevelopment
- · Cell formation

Choline

- · Growth
- · Brain function
- · Gene interactions

Calcium

· Bone health

Iron

 Prevents iron deficiency anaemia

Selenium

- · Anti-inflammatory
- Genome-level processes

IDF - la serie delle schede informative (factsheets)



La serie (2023) di factsheets di IDF è composta da 4 schede: generale, latte, yogurt, formaggio.

Factsheet of the IDF N° 27/2023: Dairy matrix: Understanding its impact on the health effects of dairy foods

Content of the DF Y (2000)

Today metrics Understanding its impact on the health effects of dairy foods

Today metrics Understanding its impact on the health effects of dairy foods

Today metrics Understanding its impact on the health effects of dairy foods

Today metrics understanding its impact on the metrics and the health effects of dairy foods

Factsheet of the IDF N° 33/2023: Dairy matrix: The case of milk



Factsheet of the IDF N° 34/2023: Dairy Matrix: The case of cheese



Factsheet of the IDF N° 35/2023: Dairy matrix: The case of yoghurt



Le schede riportano la sintesi delle più recenti evidenze scientifiche sulla matrice lattiero-casearia.

Concetto fondamentale: ogni categoria e, all'interno di questa, **ogni tipo di alimento è una matrice diversa** che si traduce in effetto matrice distinto

Dairy matrix e gli effetti sulla salute: i concetti chiave





Riconoscere l'effetto matrice significa riconoscere che:

- 1. l'effetto di un componente di una alimento dipende dalla combinazione con gli altri componenti contenuti in quel particolare alimento e dalla struttura risultante.
- le persone assumono i nutrienti come parte di un alimento e consumano il cibo come parte di un pasto.
- 3. la matrice alimentare influenza direttamente il processo di digestione e assorbimento dei componenti alimentari nel tratto gastrointestinale, influenzando gli effetti nutrizionali e sulla salute complessivi degli alimenti



Dairy matrix evidenze molto solide:

Associazione neutra o benefica tra il consumo di latte e la salute cardiometabolica.

Diminuzione del rischio di cancro del colon-retto
Riduzione del rischio di diabete di tipo 2, indipendentemente dal contenuto di grassi.

Facilitazione dell'assorbimento dei nutrienti

Nonostante il suo contenuto di grassi saturi e sodio, il formaggio ha inaspettatamente mostrato effetti da neutri a benefici sulla salute cardiometabolica

Nonostante il suo contenuto di sodio il formaggio NON è stato associato ad effetti sulla pressione sanguigna.

Il formaggio è l'esempio più eclatante dell'effetto matrice: i componenti interagiscono modellando la struttura del formaggio, influenzati da fattori come il processo di produzione la maturazione

Dalla mission di IDF...





- ☐ fare corretta informazione
- ☐ affermare il ruolo del latte ed i suoi derivati in una dieta salutare e sostenibile, science based!

Da Mozaffarian D.

Identifying nutritional priorities for global health: time for a more PURE focus on protective foods, Eur Heart J. 2023 Jul 21;44(28):2580-2582.



Dariush Mozaffarian is a cardiologist, public health scientist, and Director of the Food is Medicine Institute at Tufts University

"È tempo che le Linee Guida nutrizionali nazionali, l'innovazione nell'industria, le politiche dei governi, l'etichettatura e le normative e gli interventi sanitari relativi all'alimentazione siano basati sulla scienza. Milioni di vite dipendono da questo"

Vegan diet 'cannot easily provide some vital nutrients,' major report warns

The findings come after the UN's Food and Agriculture Organisation examined more than 500 scientific papers on animal foods

https://www.telegrap

2 May 2023

Good news does not come often — and for decades the livestock sector has carried criticism. Today, we have the chance to rewrite the story: livestock as a force for food security, nutrition, climate solutions, and sustainable future.



telegraph.co.uk

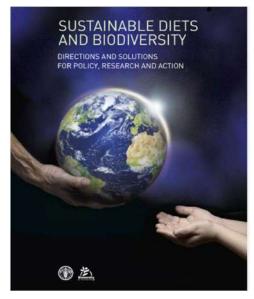
Vegan diet 'cannot easily provide some vital nutrients,' major report ...
The findings come after the UN's Food and Agriculture Organisation
examined more than 500 scientific papers on animal foods

a major United Nations report has warned.

Warning to vegans: Diet of meat, eggs and milk is healthier than plant-based foods, major review finds

- · The study was carried out by the UN's Food and Agriculture Organization
- It looked at 500 papers to analyse the benefits and risks of animal source foods

Dieta sostenibile: il passaggio chiave della FAO



da una
dieta sostenibile
ad una
dieta salutare
e sostenibile



FAO, 2010: DEFINITION OF SUSTAINABLE DIETS

Sustainable Diets are those diets with low environmental impacts which contribute to food and nutrition security and to healthy life for present and future generations. Sustainable diets are protective and respectful of biodiversity and ecosystems, culturally acceptable, accessible, economically fair and affordable; nutritionally adequate, safe and healthy; while optimizing natural and human resources. Burlingame B., Dernini S., FAO 2010

FAO - WHO, 2019

AIMS OF SUSTAINABLE **HEALTHY** DIETS

Sustainable Healthy Diets are dietary patterns that promote all dimensions of individuals' health and wellbeing; have low environmental pressure and impact; are accessible, affordable, safe and equitable; and are culturally acceptable. The aims of Sustainable Healthy Diets are to achieve optimal growth and development of all individuals and support functioning and physical, mental, and social wellbeing at all life stages for present and future generations;

FAO and WHO. 2019. Sustainable healthy diets – Guiding principles. Rome.

FAO e WHO hanno introdotto il «concetto di salutare»

Dieta salutare e sostenibile

significa considerare nello stesso quadro



- 1. **NUTRIZIONE** (nutrizionalmente adeguata)
- 2. AMBIENTE (con il minor impatto ambientale possibile)
- **3. ECONOMIA** (economicamente accessibile e sostenibile)



Peters S., Voeding Magazine 2 - 2019

4. CULTURA (culturalmente accettabile, nel rispetto delle abitudini e delle tradizioni delle diverse popolazioni)

EQUILIBRIO TRA NUTRIZIONE E AMBIENTE



Integration of environment and nutrition in life cycle assessment of food items: opportunities and challenges



McLaren, S. et al, 2021, FAO, Rome

FAO e Nutritional LCA (nLCA)



FAO (2021):

integrare nutrizione e ambiente

nella valutazione della sostenibilità degli alimenti.

Gli studi sul life ciclo di vita di un alimento (life cycle assessment), noti come LCA, dovrebbero diventare nutritional LCA (nLCA)

"This report defines a nutritional LCA (nLCA) study as an LCA study where the provision of nutrient(s) is considered as either the main function or one of the main functions of a food item."

"nLCA studies should be undertaken by multidisciplinary teams involving nutritional and health scientists as well as environmental scientists".



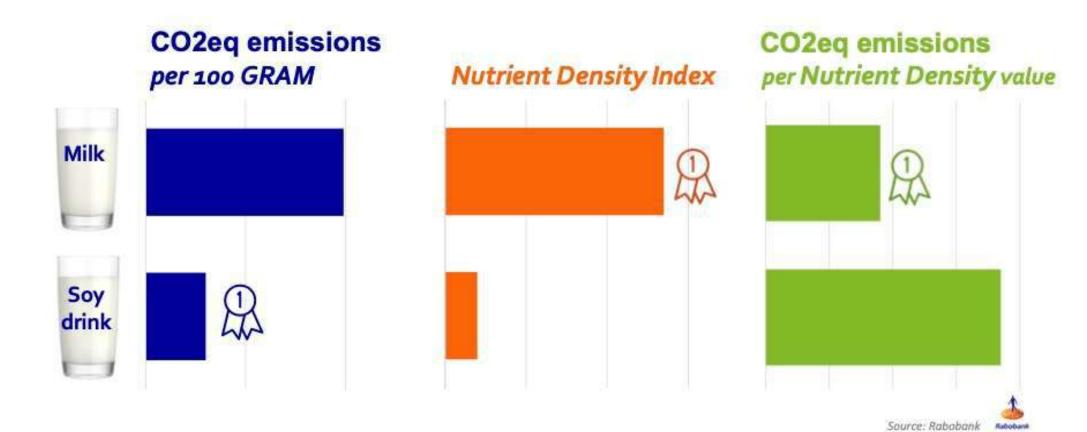


Metrics Matter (*)





Source: Smedman et al, 2010



A NEW CHALLENGE THE PARIS DAIRY DECLARATION

- ✓ The dairy sector has shown strong commitment to sustainability
 - Global Dairy Agenda for Action (2009)
 - Dairy Sustainability Framework (2013)
 - Dairy Declaration of Rotterdam (2016)
 - Pathways to Dairy Net Zero (2021)
 - Global Methane Pledge (2022)
- ✓ The Paris Dairy Declaration on Sustainability, signed by IDF and FAO in October 2024, solidifies a global commitment to sustainable dairy development with public, quantified, and time-tabled objectives.
- ✓ IDF calls on all members, leaders, and stakeholders to endorse the Paris Dairy Declaration on Sustainability and commit to achieving its sustainability goals.





COMMITMENTS' STOCKTAKING ON SUSTAINABILITY



Dairy quantified and timetabled commitments on sustainability over the coming years

29th April 2025



HOW ARE CLASSIFIED THE COMMITMENTS?

4 main chapters



Organisations and companies analysed

A2	New Zealand Quantified and timetabled commitments identified on A2 Milk website and a2 Milk Company net zero roadmap 2024
Agropur	Canada Quantified and timetabled commitments identified in Agropur 2021 ESG report and Agropur ESG report 2023
Almarai	Saudi Arabia Quantified and timetabled commitments identified in Almarai sustainability report 2024
Andechser Natur	Germany Commitment for GHG emissions in SBTi target dashboard
Andros	France Commitment for GHG emissions in SBTi target dashboard
Arla Foods	Denmark Quantified and timetabled commitments identified in Arla Foods annual report 2023 and Arla Foods annual report 2024
Aurora Organic Dairy	United States Quantified and timetabled commitments identified in Aurora Organic Dairy sustainability report 2022
Ausnutria	China Quantified and timetabled commitments identified in Ausnutrii sustainability report 2023
Australian Dairy Sustainability Framework	Australia Quantified and timetabled commitments identified in Australian Daire Sustainability Framework Report 2021 and Australian Daire Sustainability Framework Report 2023
A Ware	Netherlands Quantified and timetabled commitments identified in Royal A Warn website — Pijler productie proces (NL), A Ware sustainability report 2023 (report downloading not allowed) and A Ware annual report 2024
A.J. & R.G. Barber	United Kingdom Commitment for GHG emissions in SBTi target dashboard
Bauer	Germany Quantified and timetabled commitments identified in <u>Bauer website</u> sustainability
Bayerische Milchindustrie	Germany Commitment for GHG emissions in SBTi target dashboard
Bechtel Naturkäsewerk	Germany Commitment for GHG emissions in SBTi target dashboard
Bega Cheese	Australia Quantified and timetabled commitments identified in Bega Cheese 2022 sustainability report, Bega Cheese 2023 sustainability report and Bega sustainability report 2024



WHAT KIND OF COMMITMENTS DOES THE ANNEX CONTAIN?

On sustainability

Over the coming years

Quantified

Timetabled

In an open access document

Water consumption, saving, recycling and monitoring

aligned with SDG









Almarai	Saudi Arabia
Commitment	To increase water efficiency across our manufacturing, sales, distribution and logistics divisions by 15% by 2025 against a 2018 intensity baseline
Reference document	Almarai Sustainability Report 2022 (p 19)



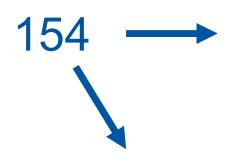
Dairy quantified and timetabled commitments on sustainability over the coming years

August 30, 2025

1,000 commitments made by 155 dairy organisations and companies from 41 countries



TO DATE, 154 DAIRY OPERATORS WHO HAVE MADE QUANTIFIED AND TIME-BOUND SUSTAINABILITY COMMITMENTS OVER THE COMING YEARS HAVE BEEN IDENTIFIED



144 companies collecting and/or processing milk (cooperatives or private)

10 collective organizations (interbranch organizations, farmers' or processors' federations, etc.)

- 3 Africa
- 30 America
- 22 Asia
- 90 Europe
 - 9 Oceania

4. PDDS WEBPAGE



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https://fil-idf.org/dairys-global-impact/paris-dairy-declaration/ -

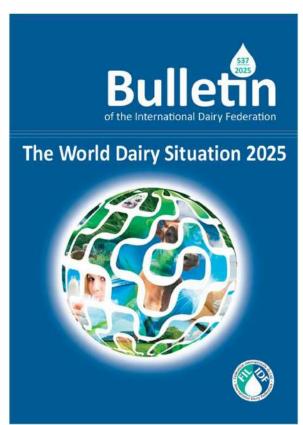
IDF DAIRY INNOVATION AWARDS BUILT-IN SUSTAINABILITY AND UN-SDGS

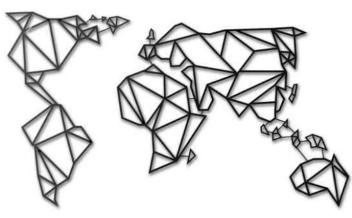




The World Dairy Situation Report

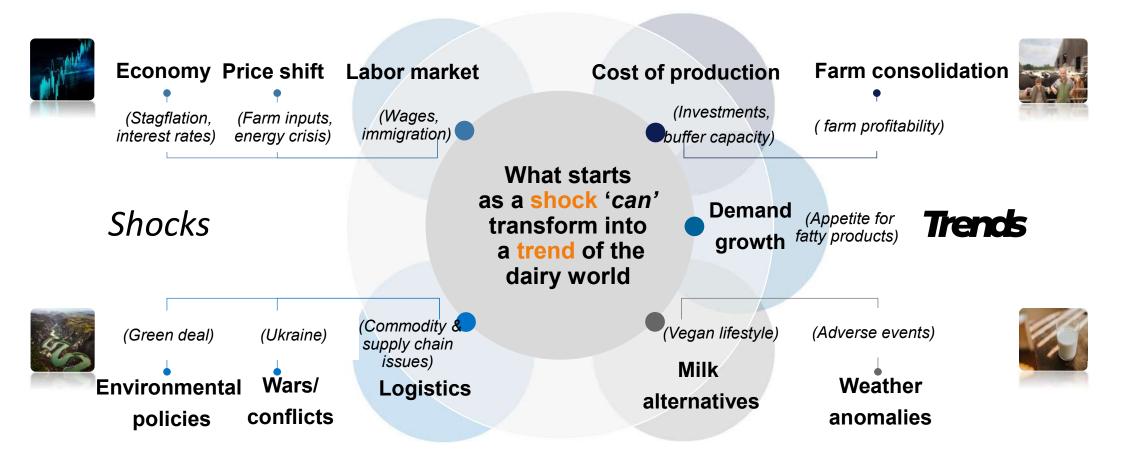




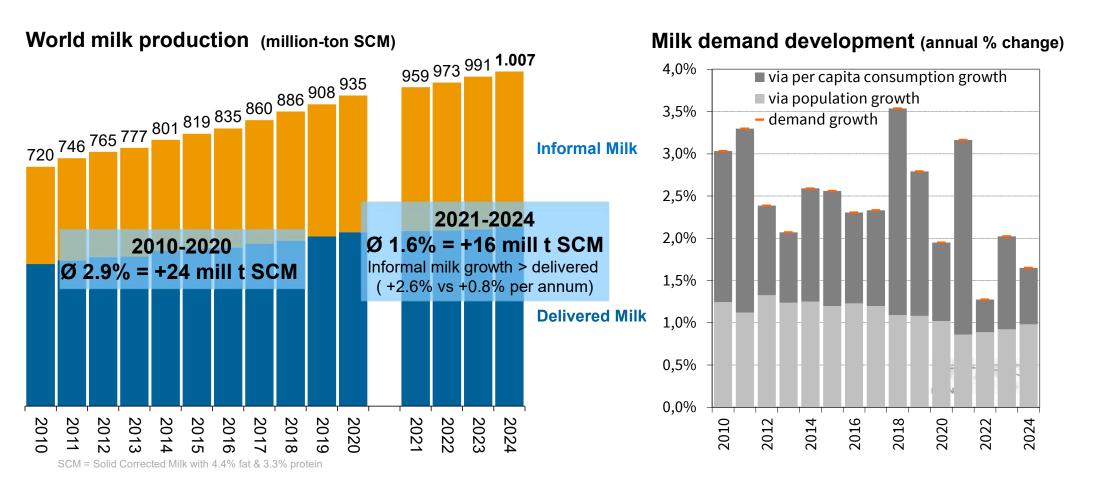


49 countries featured More in database

Forces reshaping the global dairy



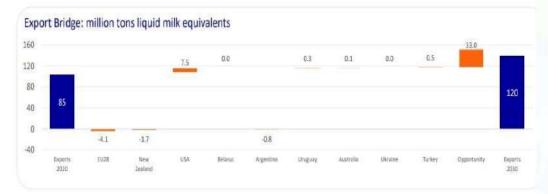
Global milk supply growth is slowing



Global dairy supply and demand outlook

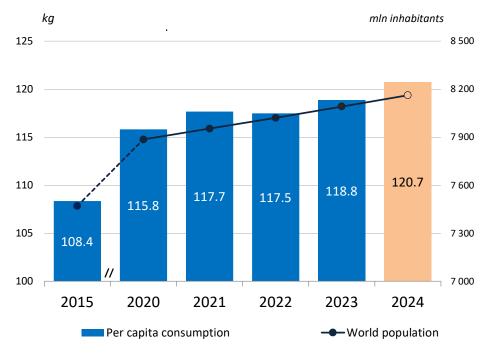
Updated 2023

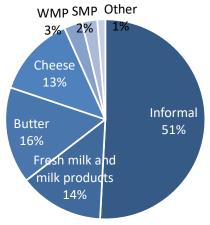




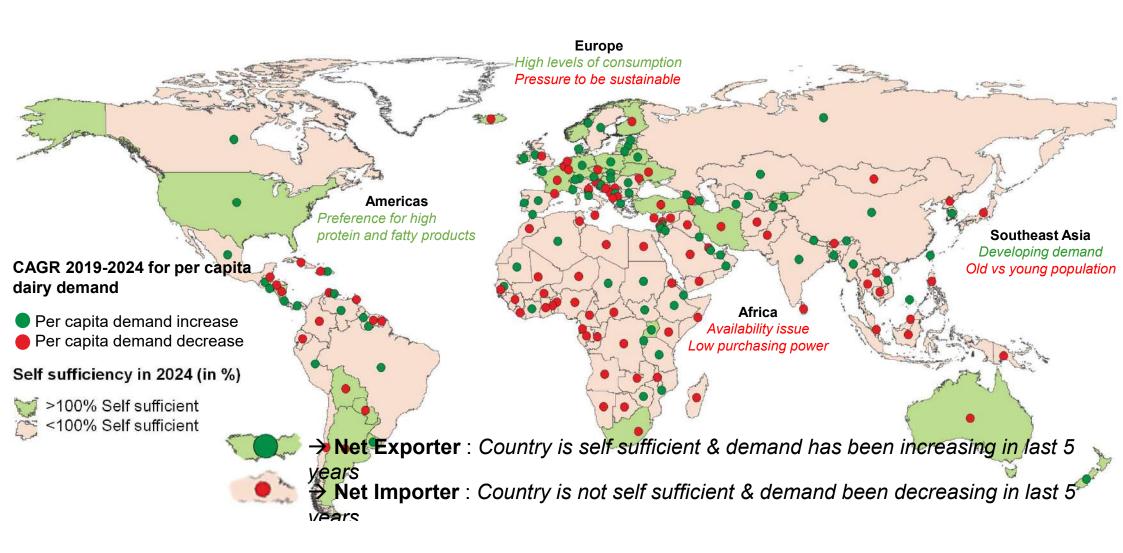
Source: Rabobank, 2023

Per capita consumption and population

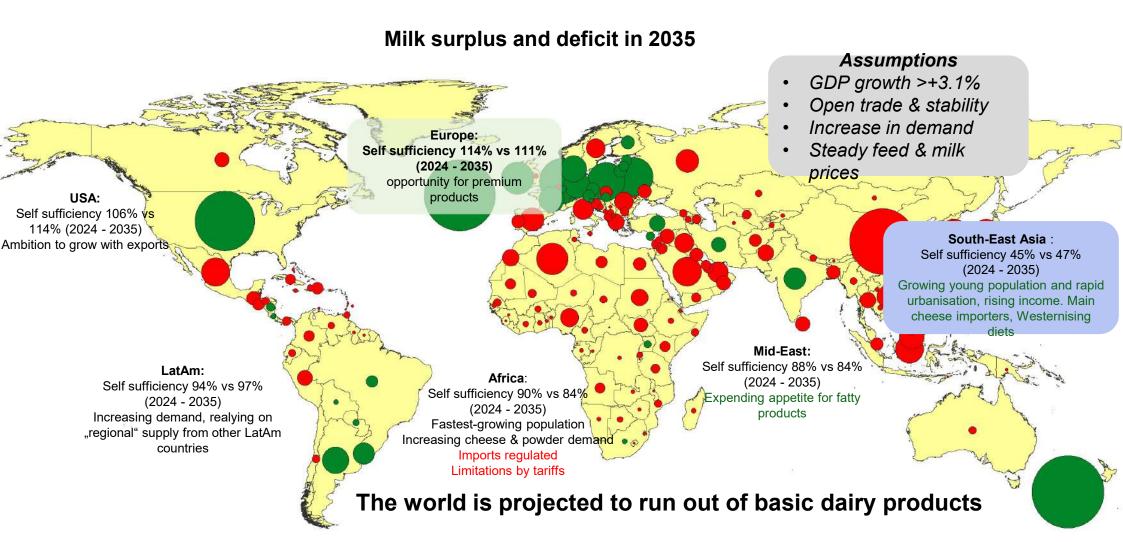




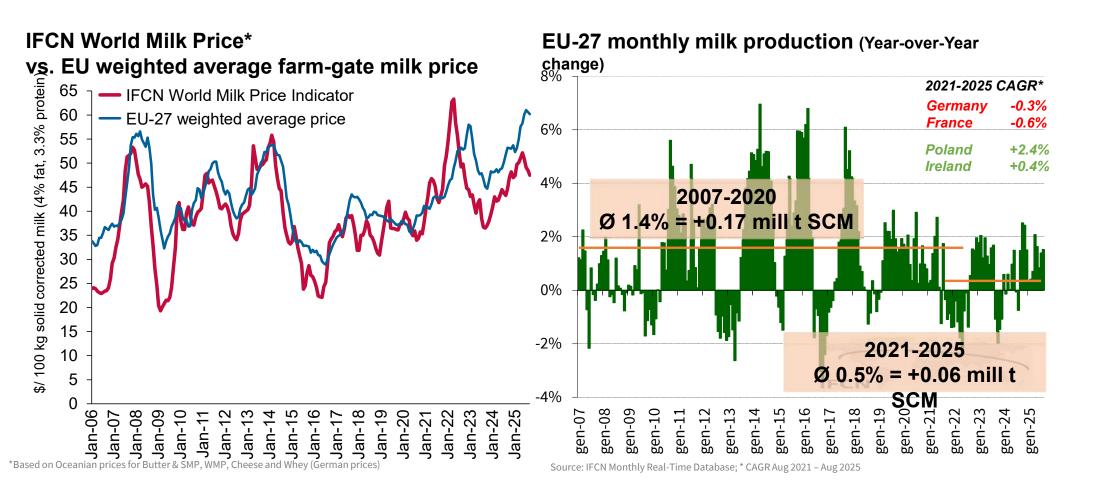
Who can supply? Who must import?



Europe's dairy: looking ahead to 2035

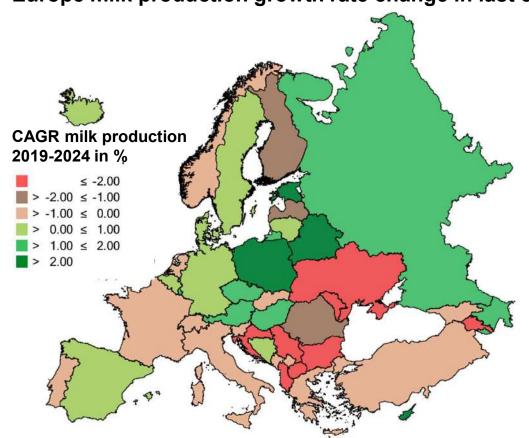


Europe: competitive on price but lagging in milk growth



Caution: potential shift ahead! EU west to east shift

Europe milk production growth rate change in last 5 years



Western Europe's traditional dairy regions are **slowing down** with milk, constrained by limited growth, regulations, and an ageing farm base.

Meanwhile, some countries in **Eastern Europe** are **stepping up**, showing resilience and expansion.



The world of milk has changed

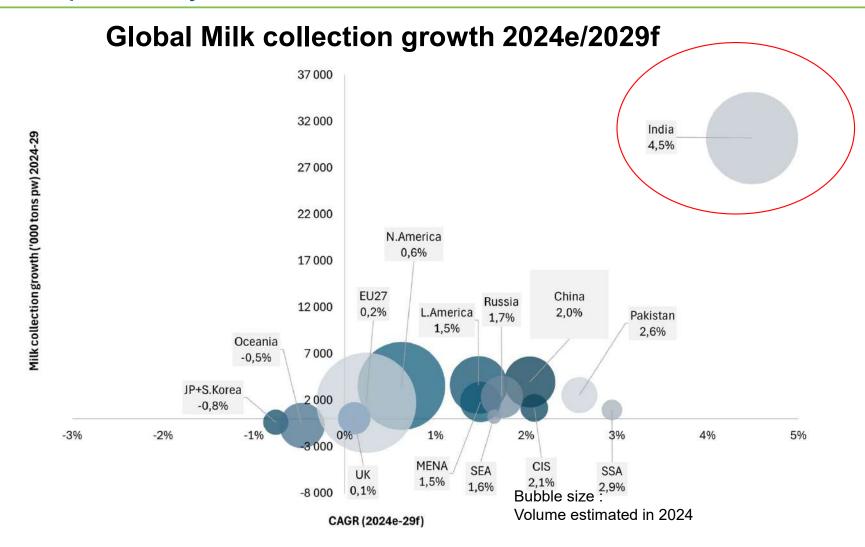
Key trends for the future

Christophe Lafougère, CEO Gira



Milk collection: India will lead the game

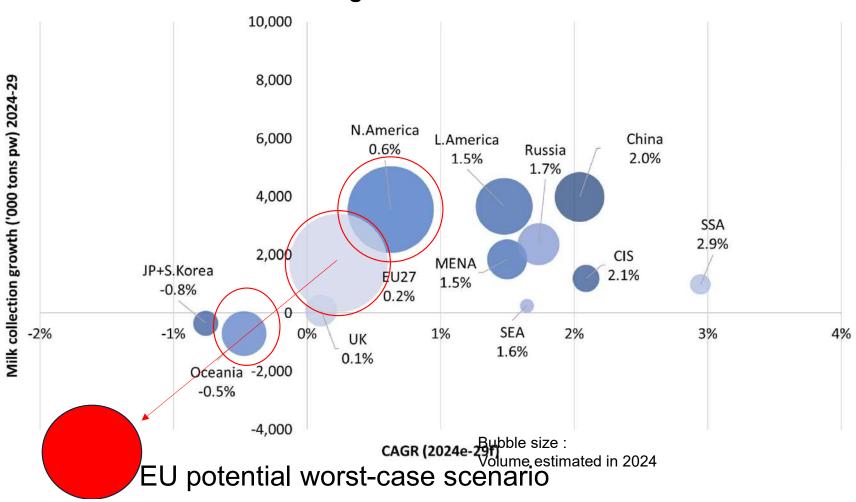
+1.6% p.a expected by 2029 at world level



Small/no growth to be expected in top exporting countries

Only +0.8% p.a by 2029 without India and Pakistan

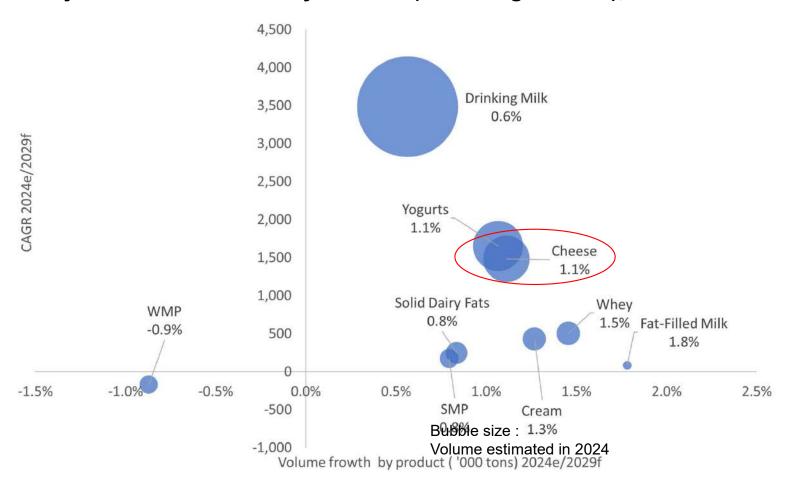
Milk collection growth 2024e/2029f excl. IN & PK



We will produce more and more cheese at world level

+1,1% p.a for the next 5 years

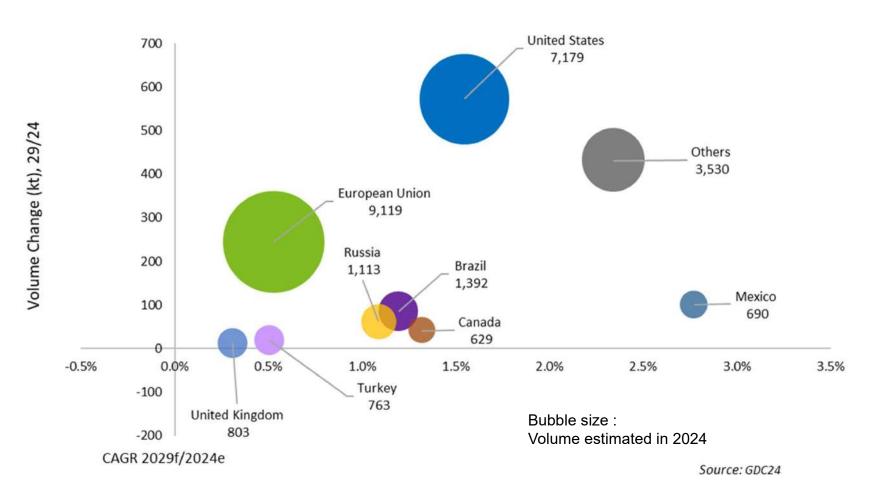
Dairy Production Growth by Product (excluding IN & PK), 2024e/2029f



Because cheese consumption will be really positive

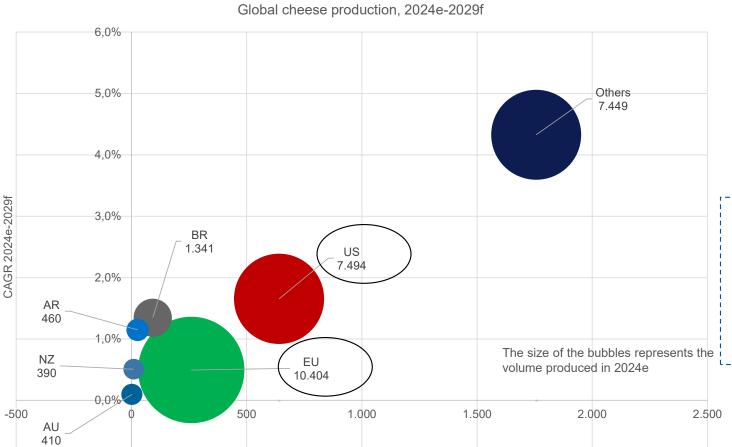
The US will continue to show the highest growth but watch out the "others"

Global Cheese Consumption growth 2024e-2029f (excl. IN & PK)



But more cheese means more co-product: whey

Whey: the main possibility to add value to the milk (will be more expensive)



Additional volume between 2024 and 2029, kt

-1,0%

EU: +260 kt of cheese US: +641 kt of cheese

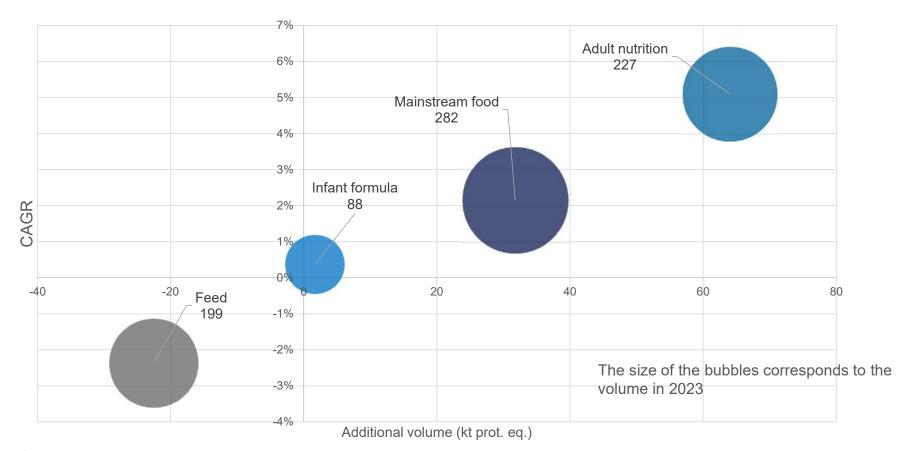
+901 kt of cheese

What does it mean in terms of potential additional volume of whey available?
Potentially +62Kt WPC80 for example

Source: GDC24 synthesis

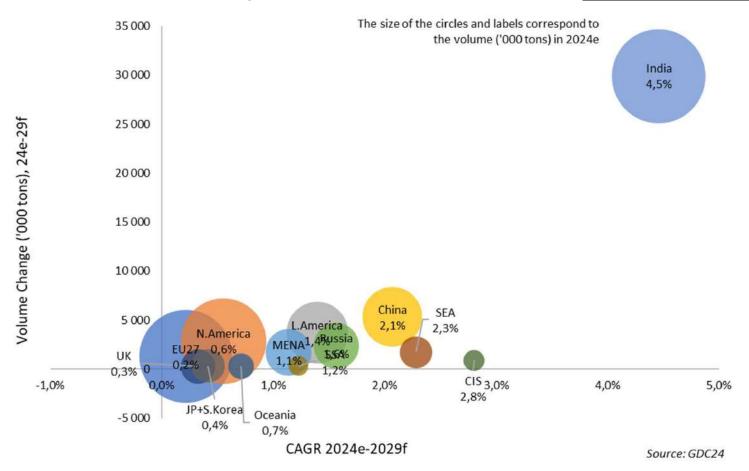
The appetite for dairy proteins will continue to grow all around the world but we should have enough supply

Whey ingredients global applications, 2023 and 2028f



India will be the place to be but compulsory to be local More mature markets in the EU/NZ/US

Global Apparent Dairy Consumption in Milk Eq., 2024e to 2029f

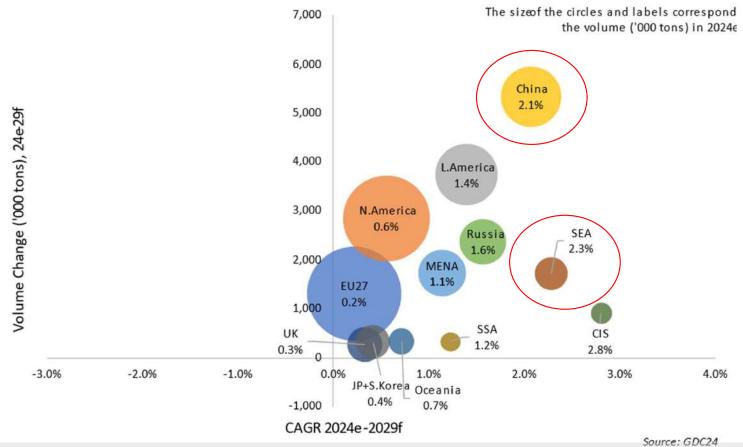


Note: The apparent dairy consumption in milk equivalent is calculated by adding imports and retrieving exports to milk collection all expressed in milk equivalent.

Chinese consumption will continue to grow

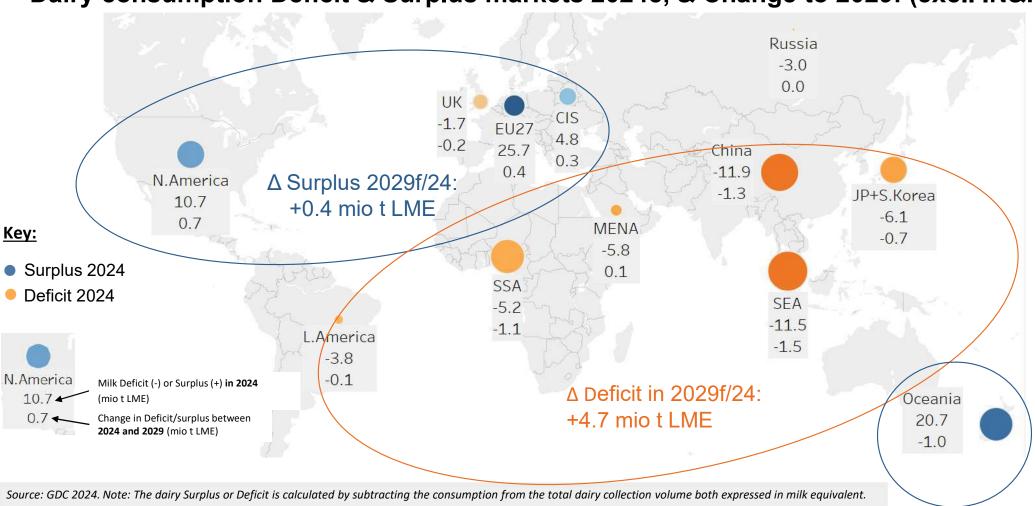
But don't forget SEA with little growth of local milk

Global apparent Dairy Consumption in Milk Eq., 2024e to 2029f (excl. IN & PK)

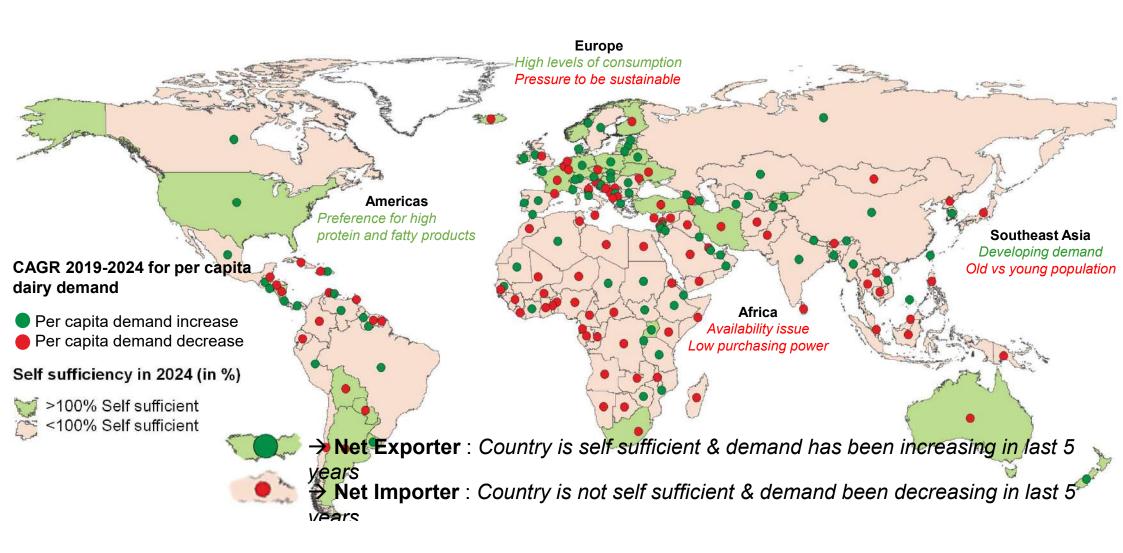


Note: The apparent dairy consumption in milk equivalent is calculated by adding imports and retrieving exports to milk collection all expressed in milk equivalent.

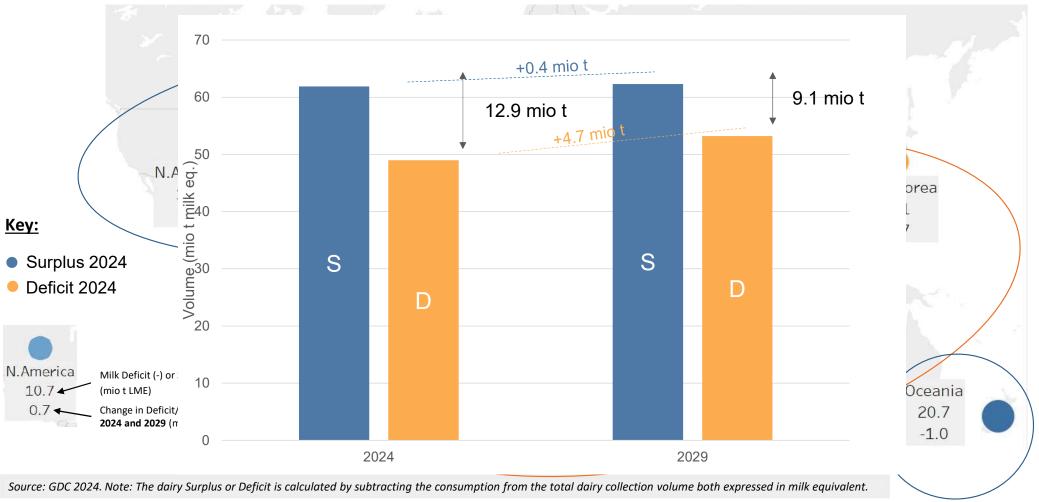




Who can supply? Who must import?



Dairy consumption Deficit & Surplus markets 2024e, & Change to 2029f (excl. IN&PK)



Conclusion: key trends for the next 5 years

- Milk collection: smaller growth to be expected
 - Small/no growth to be expected from top exporting countries
- More cheese will be produced and consumed
- Appetite for dairy proteins will continue to grow around the world, absorbing additional supply of whey
- Dairy consumption will continue to grow but:
 - India will be the place to be but with a local business
 - Chinese consumption will continue to grow but with less imports of commodities
 - Don't forget about SEA
 - At a lower level in our part of the world
- Dairy deficits will continue to increase at a higher rate than surplus
 - Potentially less milk available for the "other" countries in the future
 - Potential role for India as an exporter in the LT future?





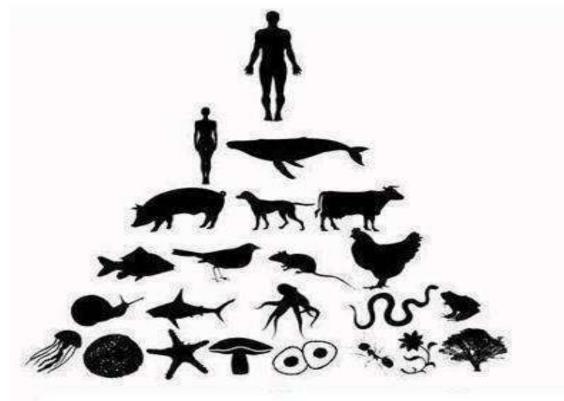


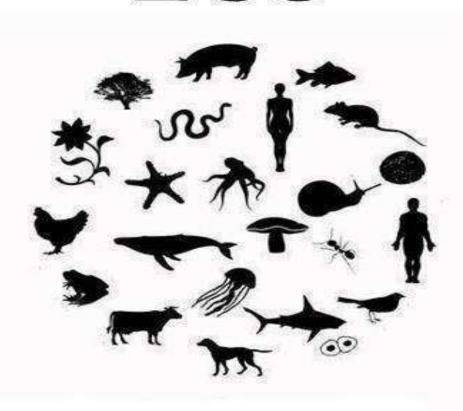
Sustainable Livestock Transformation





ECO







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