

Sustainability and resilience of the dairy sector.



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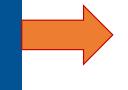


4th International Meeting 'Lait, vecteur de développement

6 to 8 March 2023, Tunis

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IFCN network

Dairy global & sustainability

Dairy economics

How to win the future



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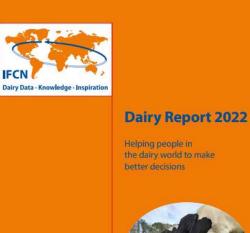


Mission: Helping people in the dairy world to make better decisions.



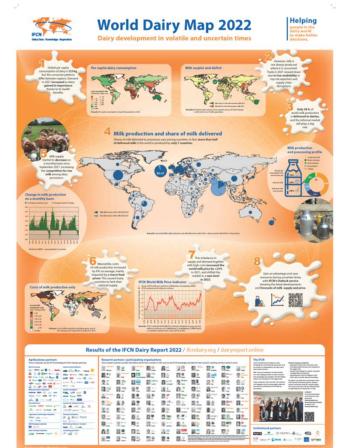
IFCN World Dairy Map 2022







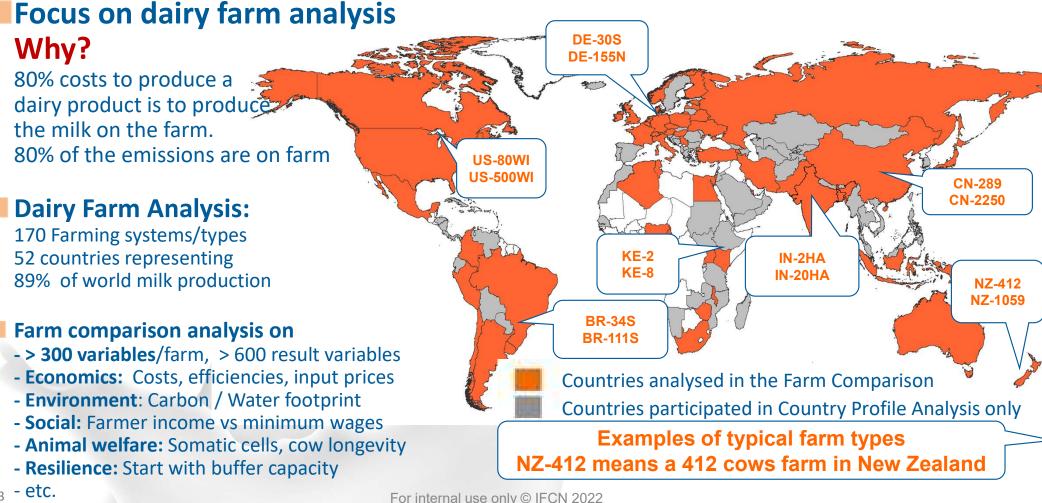
IFCN The Dairy Research Network **This map** is a summary of the report 2022



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IFCN Dairy Research Network 2022



3/24/2023 - etc.

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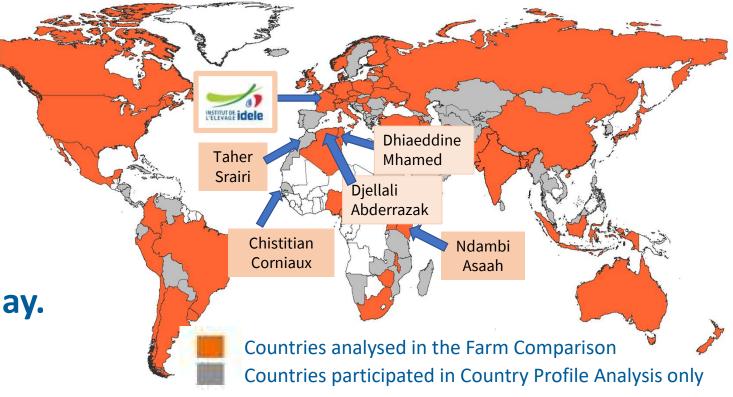


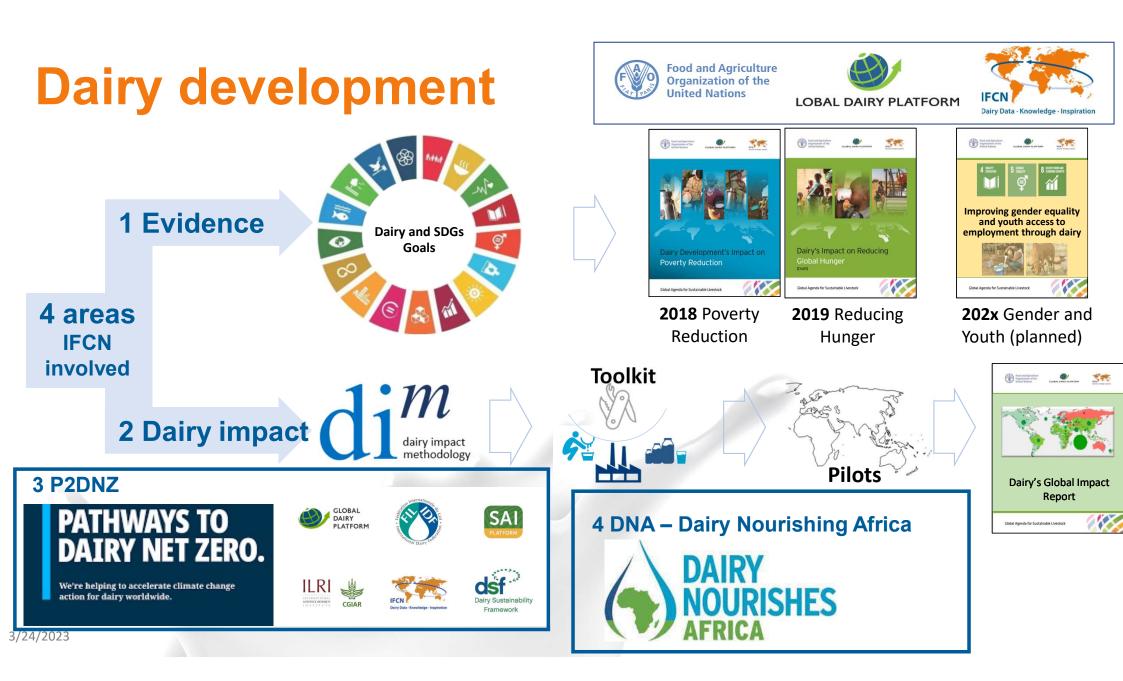
IFCN Researchers Network 2022

Big thanks to all researchers participating in IFCN

Some are with us today.

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Dairy Alternatives are Aggressive

Its like milk but made for humans

Superbowl 2021

30 sec slot - 5.5 mill US\$

No cows No cows No cows

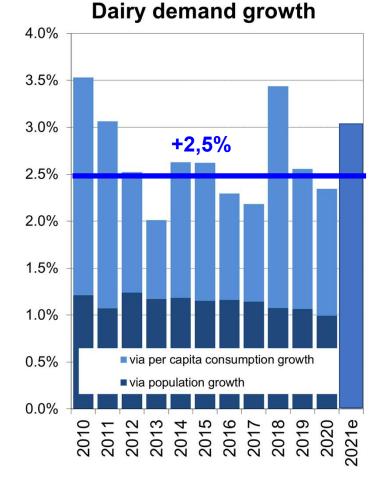
Oatly

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Global Dairy Demand Developments



IFCN data base 2022, Method milk equivalents

Stories you hear: Dairy =

Drivers for dairy demand 1. More People 2. More dairy / capita 2010 - 2020USA + 10%; EU + 8% Asia > + 30% Africa + 7%



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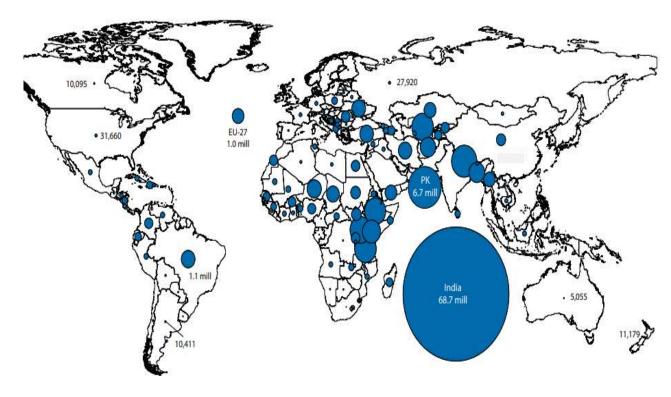
Sustainability A lot of people see it like this Sustainability Carbon emissions = 4 pillars a) Social, b) Economic, c) Environment, d) Animal welfare

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IFCN Dairy Data - Knowledge - Inspiration

Social: Dairy impacts income of 1 bill people

Dairy farm numbers in 2020



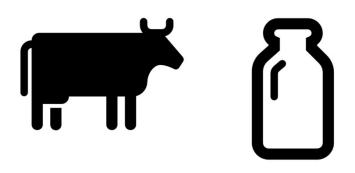
Dairy World 2020 120 million farms, 3 cows / farm 7,5 kg milk/ day

1 Bill People Mathematics

- => Over 600 million people live on dairy farms (120*5)
- => Over 355 million people live in household where 1 person has a job in the dairy chain (71*5)
- => Over 50 million people impacted by induced jobs / spin offs

Econmics: Dairy > than Apple & Microsoft





Dairy > 800 billion US\$* (consumer value of milk)



Apple & Microsoft = 585 billion US\$ Sales 2022

Environment: Dairy counts for 2,2% of all global green house gas emissions

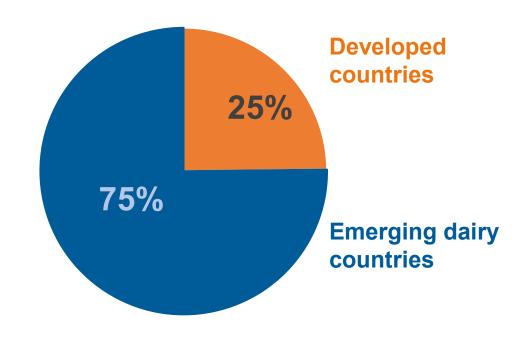


Status quo

2.2% Milk production on global GHG emissions^{1,2}

75% Emissions in emerging dairy countries ¹

Dairy GHG emission by segments²



Sources: 1. FAO,2010; 2. IFCN database, LCA model and estimation 2021.



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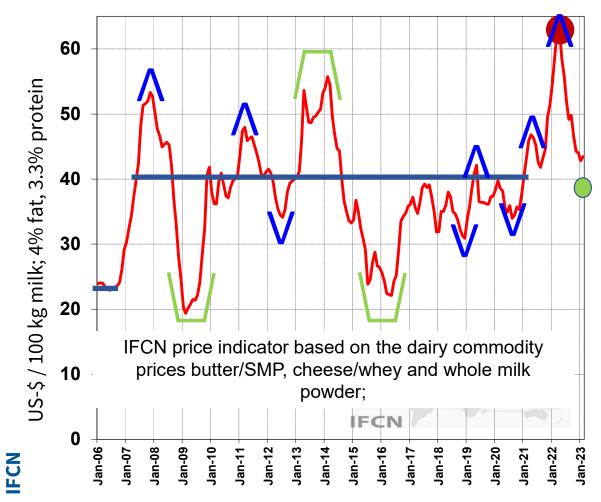
For Dairy Farmers No.1 = Economics

More Sustainable & resiliance

Less Sustainable

World milk price, 2006 – Feb 2023





Three price levels (simplified) until – 2006 – 25 \$/ 100 kg 2007 – 2021 – 40 \$/ 100 kg 2022 new record – > 60 \$/ 100 kg 2023 – 30% from peak Tunisia today 1200 dinar

Patterns

Mostly we are in price cycles 3- 4 years Stability 2017 – 2021 an exception (5 years) More "V's" than "U's" Drivers for

Prices = Milk supply and demand growth

Volatility = Delay to react on prices change

Cycles = Biology in the farming system

Source: IFCN world milk price is based on the dairy commodity prices butter/SMP, cheese/whey and whole milk powder; mainly Oceania prices

World milk price drives national prices

France



USD / 100 kg SCM 4% fat, 3.3% protein 60 60 50 50 40 40 30 30 20 20 **Red: World market Red: World market** 10 10 **Blue: National price Blue: National price** IFCN FCN 0 0 Jan-10 Jan-11 -Jan-12 -Jan-15 -Jan-16 -Jan-16 -Jan-18 -Jan-20 -Jan-22 -Jan-2 Jan-06 Jan-07 Jan-08 Jan-09 Jan-10 -Jan-11 -Jan-12 -Jan-13 an-15 an-16

Patterns

- 1. National prices follow the world price with a certain delay
- 2. Today Germany at 58 US\$/100 kg France at 52 US\$ / 100 kg, lower level & less volatile
- 3. Outlook

Price in the EU to drop soon

Germany

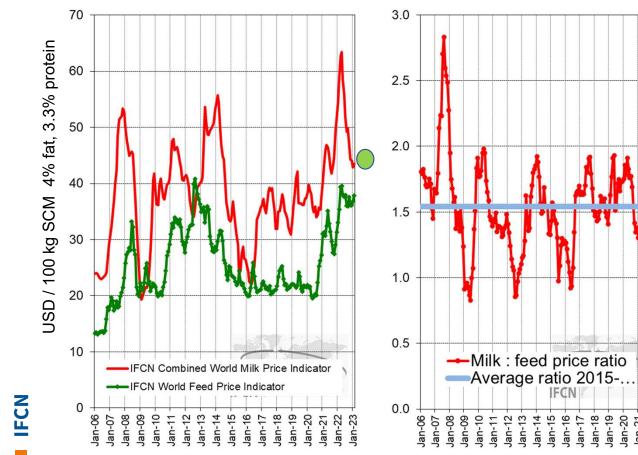
World market milk / feed prices



Price milk/ feed



lan-22 lan-23



1. Average milk feed price ratio ca. 1.5. Selling one kg milk can buy 1.5 kg compound feed.

2. Ration 1 to 1 or below like in 2009, 2012, 2016 is very bad. In 2023 we move in this direction.

3. Country specific this looks very different. Most cases worst as a lot of countries did not get the high milk prices.

Tunisia Feed price > world market Milk feed ration today 0,8

Source: D3.4 IFCN Monthly Real-Time Database for 65 countries; Status March 2022; Feed prices blended 30% soy bean meal and 70% corn/barley



1. Fitting farming system (measure, research, & training)

2. Fitting dairy policy design; supply chain, etc.

3. Who starts first wins the future & future generation.