



GLOBAL DAIRY
PLATFORM

Dairy's Role in Global Food Systems, Healthy Diets, & Sustainable Lives

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The Dairy Story



of the worlds agriculture lands are cared for by the dairy sector

At the global level, milk contributes an average of



of energy



of protein



of fat

Data: FAO Stat



Dairy has Impact

Milk is one of most produced and valuable agricultural commodities worldwide

Milk ranks third by production tonnage

Milk is the top agricultural commodity in value terms the world over



Contributes



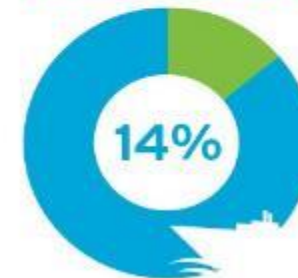
to the global value added from livestock

Contributes



to the global value added of agriculture

Milk and dairy products account for about



of global agricultural trade

Data: FAO Stat



Dairy is Relevant

133 million
Dairy Farms



600 million
people live on Dairy Farms



400 million

additional people are supported by the full time jobs that are created in support of dairy farming



240 million

people are directly or indirectly employed in the dairy sector



37 million

farms are female-headed with

80 million

women engaged in dairy farming to some extent

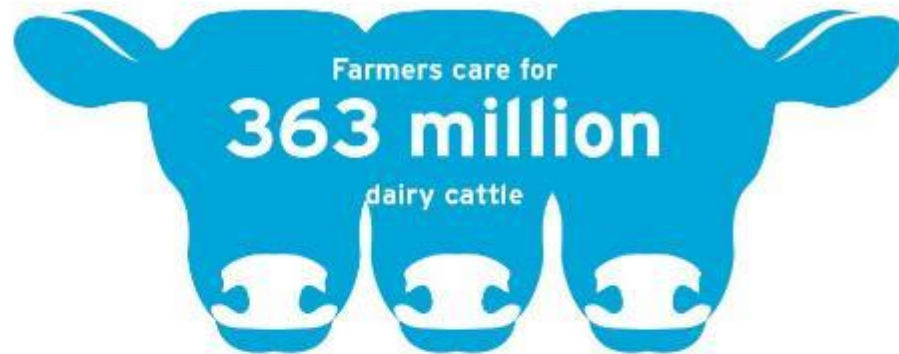


Data: FAO Stat



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Dairy is Responsible



Farmers in developing countries usually
keeping them in herds of
2 or 3 cows



In industrialized economies herds are often larger: the average dairy farms in
the UK and the US manage **90 and 300 dairy cows** respectively

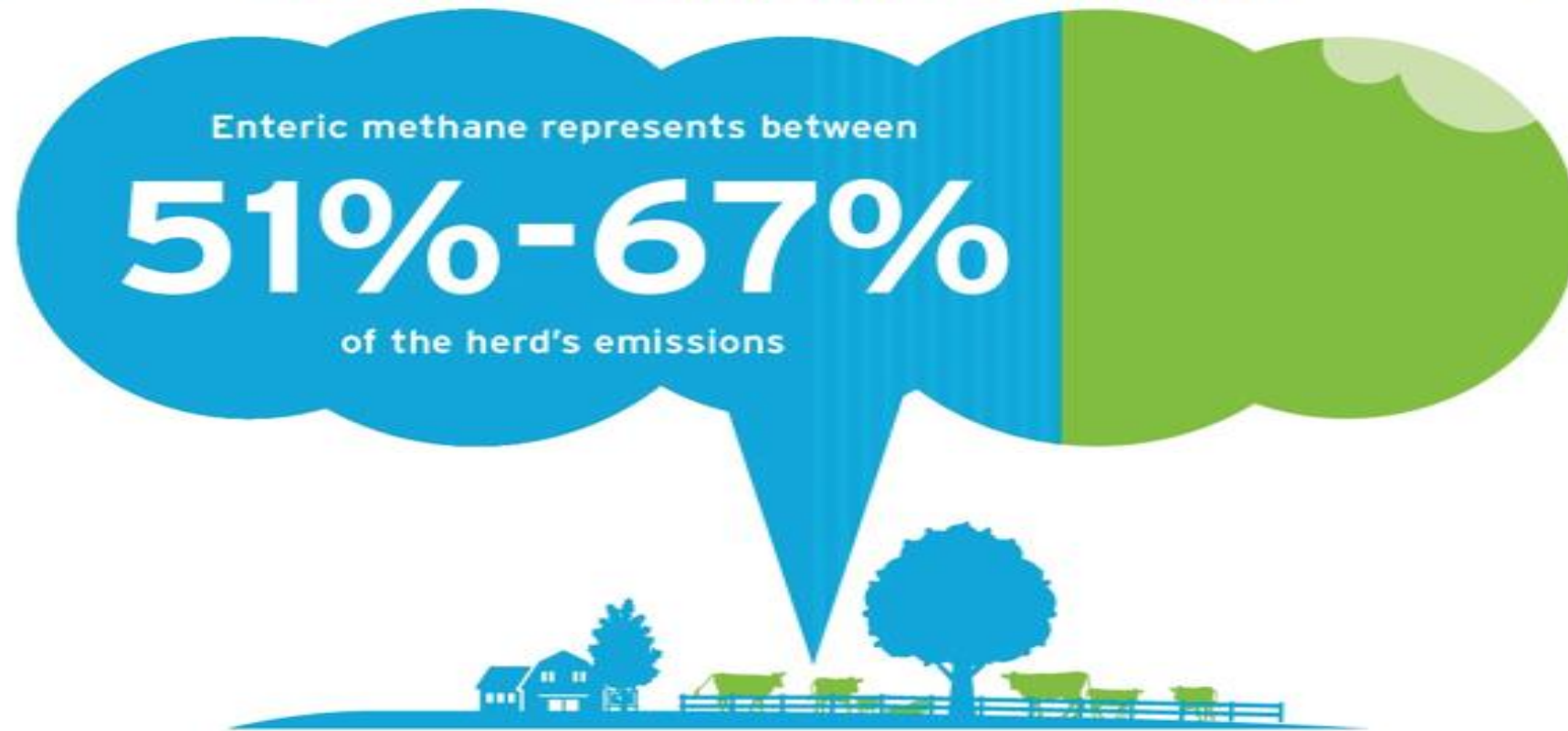


However, farms with more than
100 cows represent less than
0.3%
of all dairy farms globally

Data: FAO Stat

Dairy is addressing climate change

Global % of dairy herd's emissions



Data: FAO Stat

**PATHWAYS TO DAIRY NET ZERO:
ACCELERATING
ACTION,
ACHIEVING
RESULTS**



**PATHWAYS
TO DAIRY
NET ZERO.**

Tracking, Measuring & Reporting Sustainability Performance



Dairy Sustainability Framework

- ✓ Launched 2013 – Global Perspective
- ✓ Tracks Economic – Social – Environmental dimensions
- ✓ Currently 265 billion liters of milk - 31% of global milk production ~52% formal milk

Tracking & reporting

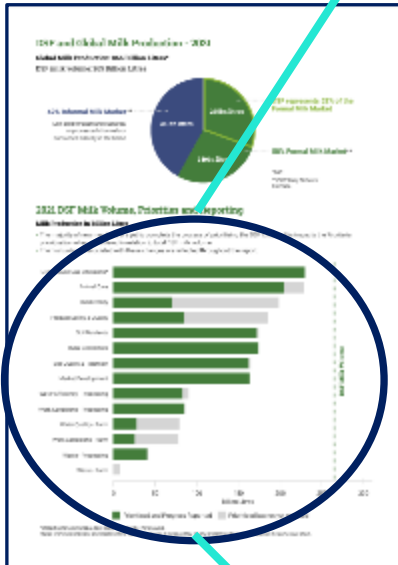
DSF Annual Reporting for the 2021 Calendar Year

2021 Highlights

DSF Development

New DSF Members in 2021

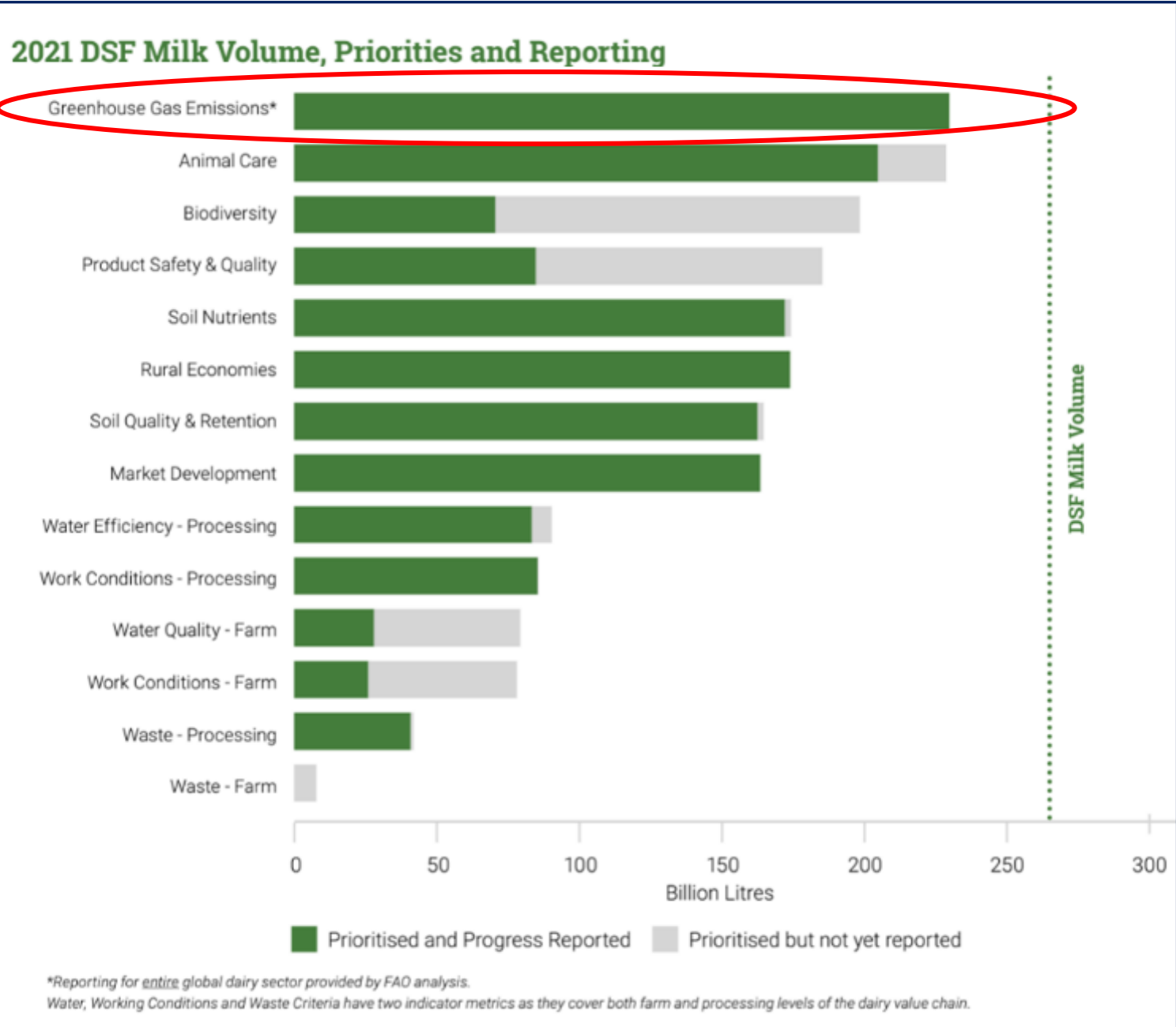
2021 Snapshot - Total Membership



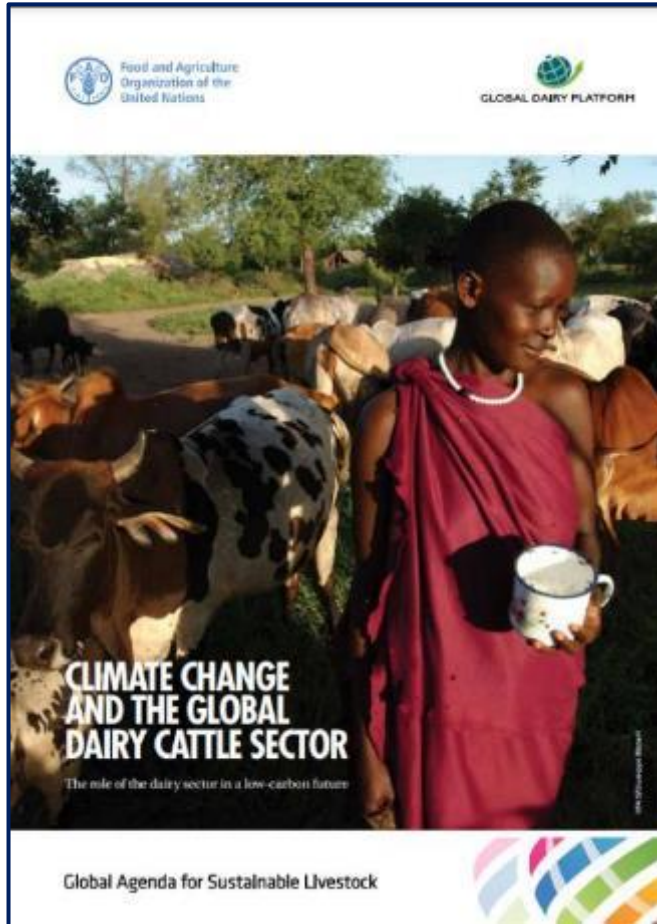
Animal Care

Animal Welfare

Animal Care



Understanding dairy's emissions



Food and Agriculture Organization of the United Nations
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Global Dairy and GHG Emissions

FAO analysis 2005-2015

The global dairy sector is extremely diverse in terms of milk production systems and geography. Dairy farmers and processors the world over work to produce highly nutritious milk as a nutritious and responsible way to feed the demands of the growing world population. Farmers, more than most, know the impacts of climate change on a regular basis and as such are very aware of the need to act quickly and innovatively on environmental issues.

The analysis undertaken by the UN Food and Agriculture Organization (FAO) indicates green house gas (GHG) emissions from the dairy sector over a 10 year time period. The study highlights the progress that has been achieved, and provides guidance on areas where further action should be considered.

The study compares data from 2005, 2010 & 2015.

The Dairy Sector - Major Trends

Global milk production has increased 30%. Growth in milk production has been achieved through increasing milk yields and number of milking cows.

- +15% Increase in yield per cow (measured 524 litres/cow per lactation)
- +14% Increase in number of milking cows

Milk production among regions has shifted considerably, with expansion taking place in the low-and middle-income regions and contracting in some high-income regions. These changes in overall yields and efficiency have not occurred homogeneously in all regions. Some regions had already had sizeable and increasing milk production, some regions expanded on production farms that are expensive to milk (e.g. USA), while others have seen milk production at a lower cost than in the past.

76% of dairy cattle herd in SA, SSA, SA and CA. Fastest growing (milk production) dairy regions over 10 decade were SA (4.8%), SSA (3.6%) and WANA (4.5%). Western Europe and North America averaged about 1.5% growth in production.

Legend: SA Sub-Saharan Africa, SSA Sub-Saharan Africa, WANA West Asia, North Africa, WE Western Europe, EA East Asia, CA Central and South America, SA South America, SA Sub-Saharan Africa, WANA West Asia, North Africa, WE Western Europe.

The world compares data from 2005, 2010, 2012 & 2015

Emissions - Key Findings

The Sector is already part of the solution to limit climate change

- 30% increase in milk production
- 20% increase in milk production
- 15% increase in yield per cow
- 14% increase in number of milking cows
- 11% reduction in GHG emissions per kg of milk
- 11% reduction in GHG emissions per kg of milk

World's dairy emissions have increased by about 18% but 20% of the increase has been offset by efficiency gains.

The fastest gains in emissions intensity reduction have occurred in low and middle income regions with particularly low production levels. These gains are due to a combination of factors including: expansion of production farms, improved feed efficiency and improved herd health.

600 million people depend on dairy

120 million head of cattle

400 million head of small ruminants

87 million head of water buffalo

Pathways to Dairy Net Zero

A collaboration between:



Knowledge partner



Supported by



**PATHWAYS
TO DAIRY
NET ZERO.**

OBJECTIVES

- Systematically *introduce or enhance climate action* in global dairy systems
 - food and nutrition security
 - livelihoods and economic growth
 - animal health and welfare
 - climate and natural resource use
- Develop *pathways* for all dairy systems
- Stimulate commitments + Action

Progress in developed dairy economies

4 Tracks guide regional work:

Methods /
Frameworks
/Proof points

Accelerated
Implementation
& R+D

Policy Making
and Partnerships

Pilots /
Lighthouse
Projects

Globally seek 3-4 Collaborative actions:

1. Carbon Accounting

Ensuring the sector is recognized for its emission reductions efforts is key to the Pathways initiative.



2. Dairy Processing

Taskforce to investigate latest advances in dairy processing technologies to tackle GHG emissions.



3. Methane

Develop science-based narrative on dairy and methane emissions and actions underway

4. Animal Nutrition

Investigating the role of improved feed/forage and supplements to lower dairy's environmental footprint

Progress in emerging dairy economies

Identifying *Early Adopters* from emerging dairy economies

- ✓ Working with the Global Methane Pledge, Cornell University, FAO and GDP, we identified 10 countries to approach as “Early Adopters” of the Pathways to Dairy Net Zero initiative.
- ✓ Between them, these countries represent over 30% of the GHG emissions from dairy.
- ✓ Through the Global Methane Pledge and US Department of State, letters were sent to the first group of countries inviting them to join the program



* GDP is a supporter of the Global Methane Pledge

Progress in emerging dairy economies

PATHWAYS
TO DAIRY
NET ZERO.

Potential Early Adopters

Region	Early Adopters	Status
Africa	Tanzania	Agreed
	Kenya	Agreed
	Rwanda	Agreed
	Uganda	Agreed
Americas	Uruguay	Agreed
	Costa Rica	Agreed
	Colombia	Agreed
Asia	Pakistan	Agreed
	Vietnam	Agreed
	India	In discussion
Dairy GHG %	~31%	



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Investing in rural people



GLOBAL
DAIRY
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Global
Methane
Hub



USAID
FROM THE AMERICAN PEOPLE



Pathways to Dairy Net Zero

www.PathwaysToDairyNetZero.org