



Dairy Sustainability Framework

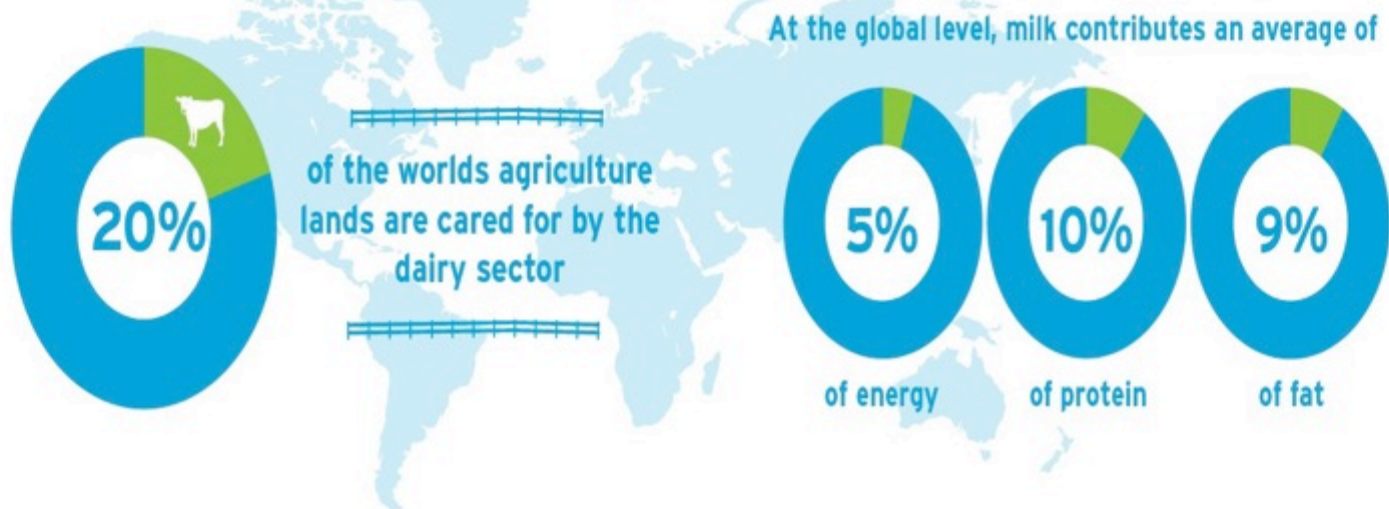
Aligning and connecting sustainability initiatives to demonstrate leadership and progress globally



Dairy Sustainability Framework

[dairysustainabilityframework.org](http://dairysustainabilityframework.org)

# Dairy in Context





**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



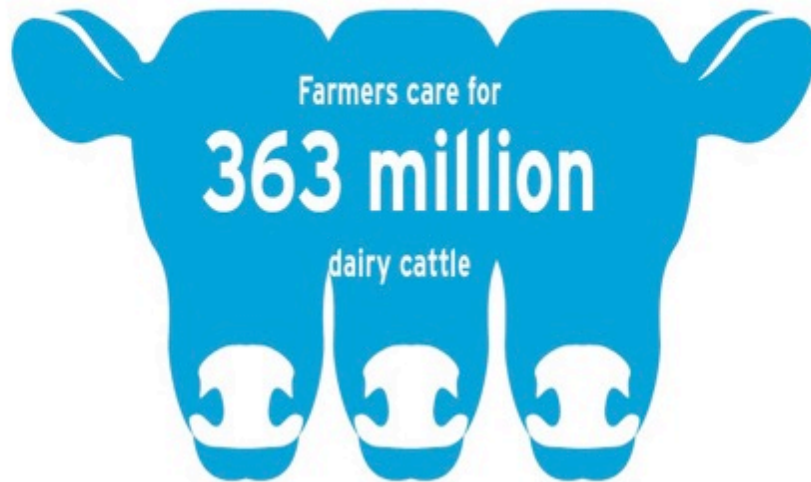
**37 million**

farms are female-headed with

**80 million**

women engaged in dairy  
farming to some extent





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

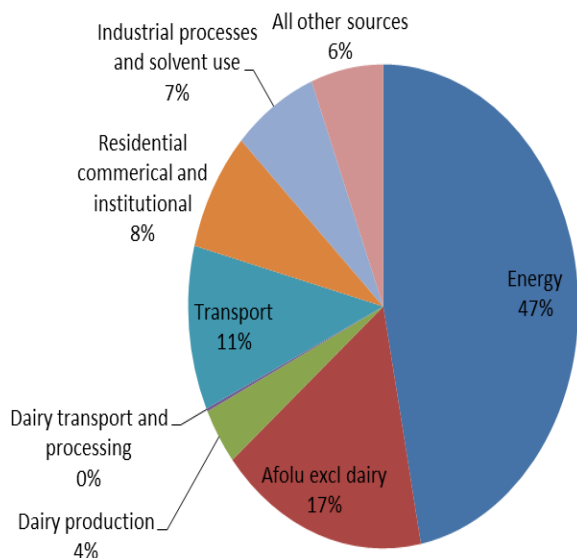
**0.3%**

of all dairy farms globally

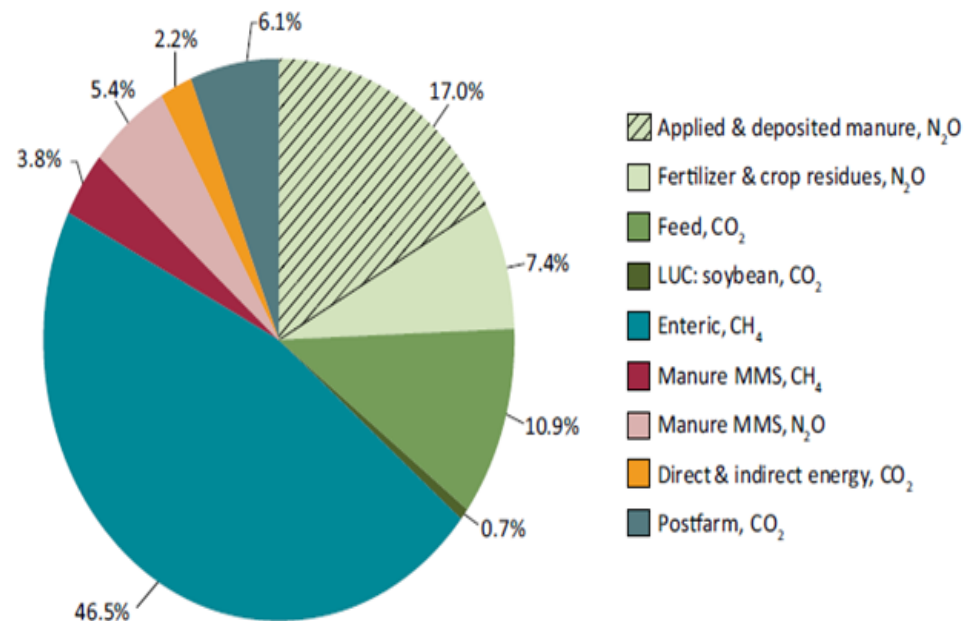


# The contribution of dairy and of the different processes to total GHG emissions

**Shares of greenhouse gas emissions from dairy and other sectors in 2010**



**Dairy (4%)**



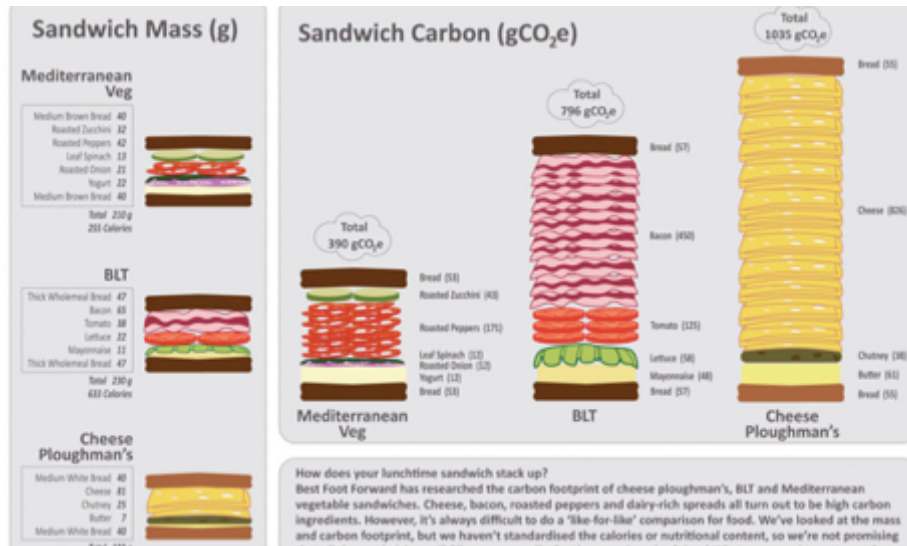
# Sustainability?







# The single issue challenge!

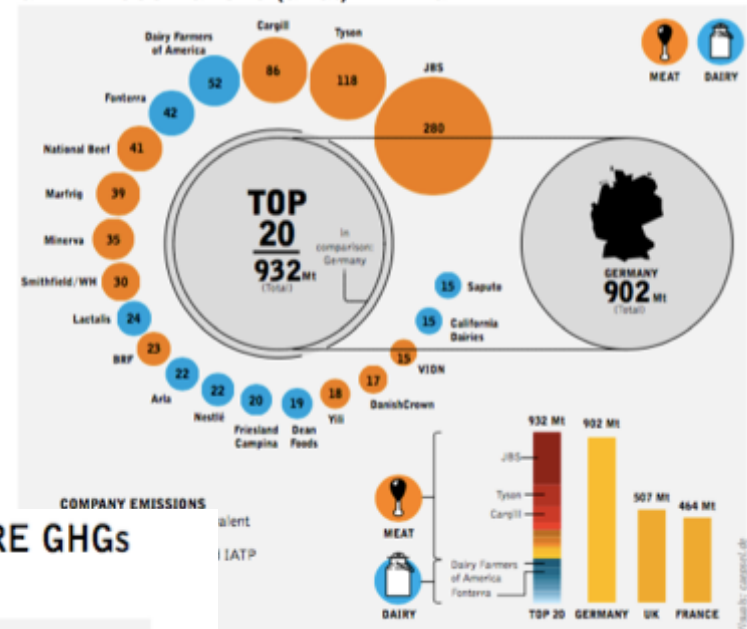


HEINRICH BÖLL STIFTUNG



## BIG MEAT AND DAIRY'S SUPERSIZED CLIMATE FOOTPRINT

THE TOP 20 MEAT AND DAIRY CORPORATIONS EMIT MORE GREENHOUSE GASES (GHGs) THAN GERMANY



## THE TOP MEAT AND DAIRY CORPORATIONS EMIT MORE GHGs THAN EXXON, SHELL OR BP

Meat and Dairy company emissions in MtCO<sub>2</sub>e (2016); Oil company emissions (2015)



- TOP 5 MEAT AND DAIRY EMITTERS**
- 1 JBS
  - 2 TYSON
  - 3 CARGILL
  - 4 DAIRY FARMERS OF AMERICA
  - 5 FONTERRA GROUP



# Sustainability and why should we as a sector engage?





# DSF vision

**A vibrant dairy sector committed to continuously improving its ability to provide safe and nutritious products from healthy cattle, while:**

- 1. Preserving natural resources**
- 2. Ensuring decent livelihoods across the industry**



# A sustainable development framework for Dairy

- A **Framework** versus Standards
- **Continuous improvement** versus *point in time* reporting
- **Honest** and **transparent** approach that recognizes we need to improve, versus simply trying to convince everyone we are right
- A single **inclusive** Framework that allows the entire industry to participate, versus multiple exclusive programs that try to define right and wrong - winners and losers
- A Framework that will deliver **global alignment, connection** and **quantified progress** across the whole value chain

# Governance and Advisory



## Advisory Council

- American Humane Association
- ASDA/Walmart
- FAO
- Solidaridad
- WWF - *observer*
- Rabobank
- Global Round Table for Sustainable Beef
- World Bank
- OXFAM
- GFAR

# 11 Sustainability Criteria



## Greenhouse Gas Emissions

GHG emissions across the full value chain are quantified and reduced through all economically viable mechanisms.



## Soil

Soil quality and retention is proactively managed and enhanced to ensure optimal productivity.



## Working Conditions

Across the dairy value chain, workers operate in a safe environment, and their rights are respected and promoted.



## Soil Nutrients

Nutrient application is managed to minimize impacts on water and air, while maintaining and enhancing soil quality.



## Biodiversity

Direct and indirect biodiversity risks and opportunities are understood, and strategies to maintain or enhance it are established.



## Product Safety & Quality

The integrity and transparency of the dairy value chain is safeguarded, so as to ensure the optimal nutrition, quality, and safety of products.



## Waste

Waste generation is minimized and, where unavoidable, waste is reused and recycled.



## Market Development

Members along the dairy value chain are able to build economically viable businesses through the development of transparent and effective markets.



## Animal Care

Dairy animals are treated with care, and are free from hunger and thirst, discomfort, pain, injury and disease, fear and distress, and are able to engage in relatively normal patterns of animal behavior.



## Water

Water availability, as well as water quality, is managed responsibly throughout the dairy value chain.



## Rural Economies

The dairy sector contributes to the resilience and economic viability of farmers and rural communities.





# Initiatives – *Members Database*

Greenhouse Gas  
Emissions

51



Soil Nutrients

15



Waste

17



Water

18



Soil

7



Biodiversity

16



Market Developments

15



Rural Economies

15



Product Safety  
and Quality

20



Working Conditions

9



Animal Care

17

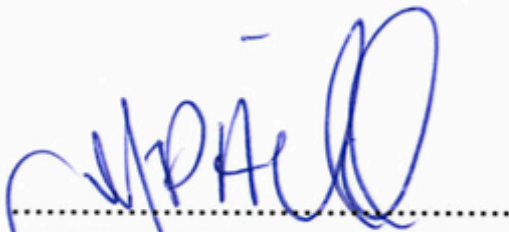


# DAIRY DECLARATION

We agree to:

- Take an integrated approach to promote the sustainability of dairy systems, jointly taking into consideration social, economic, health and environmental dimensions;
- Give particular attention to the needs of family farmers, small holders and pastoralists;
- Build, implement and disseminate tools and guidelines to facilitate the identification and adoption of sustainable practices in the dairy sector;
- Build capacity in support of sustainable practices and provide enabling conditions;
- Measure and report on sustainability outcomes.
- Strengthen multi-stakeholder dialogue for consensus building, reviewing progress and continuous improvement.

Rotterdam, 19 October 2016



Jeremy Hill,  
President, International Dairy Federation aisbl

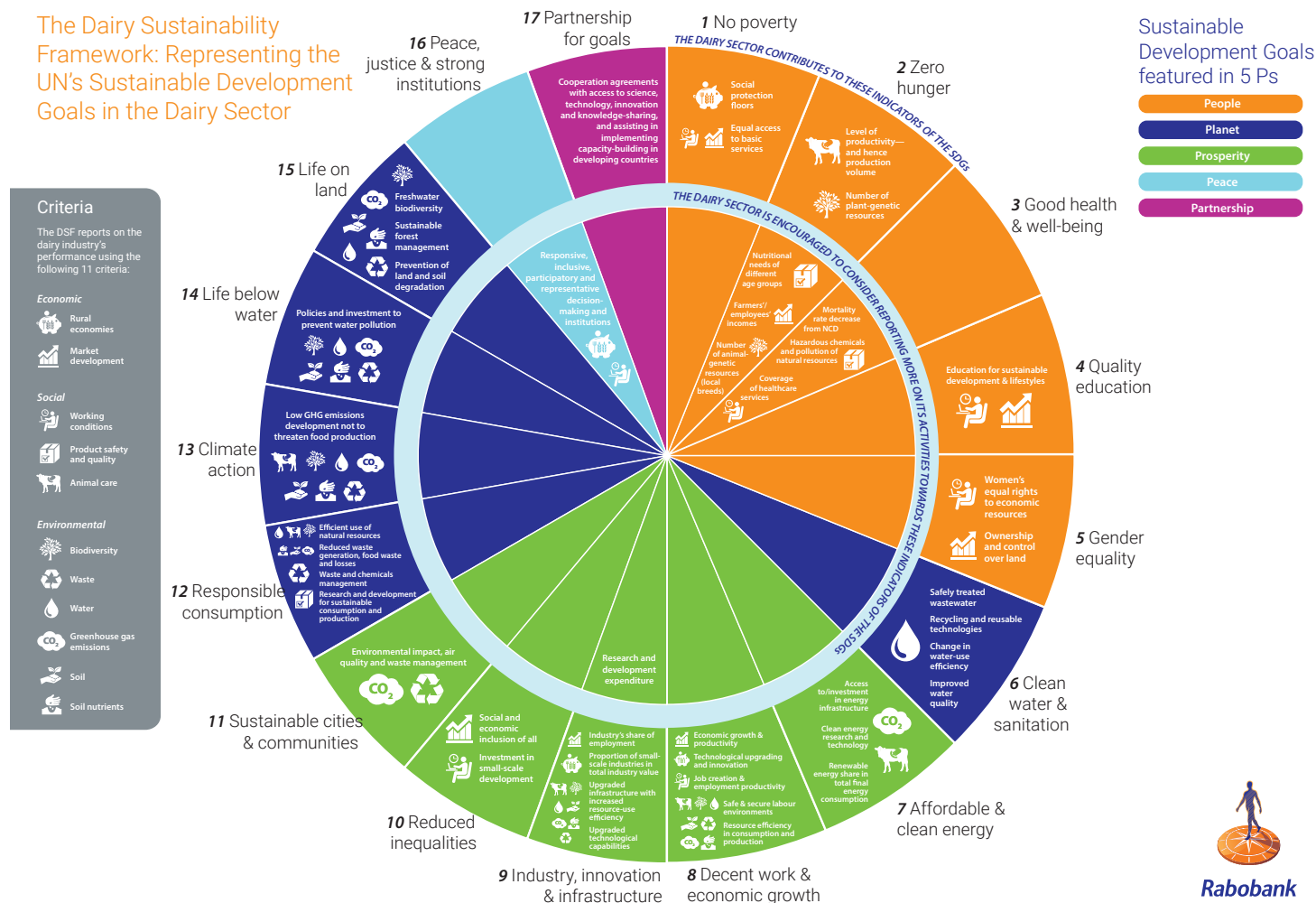


Ren Wang,  
Assistant Director General, Food and Agricultural  
Organisation of the United Nations



# Dairy and the Sustainable Development Goals

The Dairy Sustainability Framework: Representing the UN's Sustainable Development Goals in the Dairy Sector





# Australia – On farm carbon management

- 650 cows – South Eastern Australia (project with 3000 farmers)

## Resource Efficiency – Farm inputs

- Nitrogen use efficiency – *Right time and right rate*
- Extension support
- Dairy Carbon Calculator – Areas to target

### Outcomes:

- Increase in home grown fodder – 5tDM/ha – 7 t DM/ha
  - *Worth \$300/ha!*
- Improved quality of the fodder produced
- Reduced the age of calving from 27 – 24 months
- Reduced CF by 0.04kg/litre of milk

**Farmers increasing fertilizer efficiency – report average savings of AU\$15000/year**

***Good business management is good carbon management***

# India – Cow feeding

- 2/3's animals fed in excess of requirements
- Similar number deficient in essential minerals
- Ration Planning – Local feeds
- Training for locals to deliver advice (30k – 6k women)
- Animals tagged to monitor progress



- 2.4 million animals
- 30,000 villages
- 1.8 million farmers – 26% are women

## Outcomes:

- Net daily income of farmers increased by INR 25/animal/day (annual INR - 7625.00)
- Increased milk production – more milk for families
- Reduced feeding costs!
- Decrease in GHG emissions 12-15%
- Social status of LRP's increased substantially to INR 1500-3000

# So what can you do.....Now?

- Step back and look at your business using Sustainability glasses. – Materiality.
- Benchmark your performance with other local data/performance measures.
- Prioritize areas for improvement
- Set programs with targets
- Quantify your progress
- Plan, Do, Check, Adjust!





## *A journey not a destination....!*

One we are all travelling together!

