

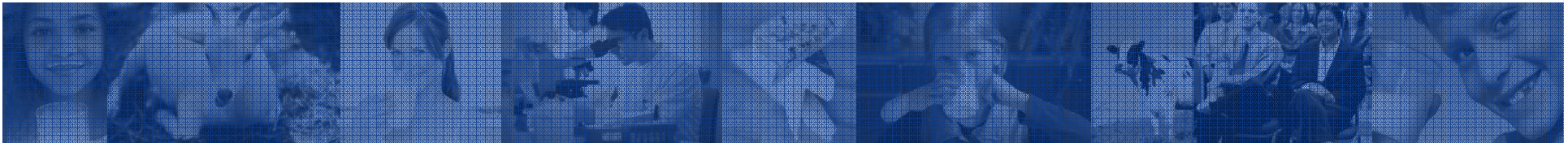


# Global Dairy Agenda for Action

## Climate Change and Sustainability

Multi-Stakeholder Platform meeting  
Brasilia, 19 May 2011

Presented by Marcelo Pereira de Carvalho





# IDF collaboration with key international and regional organizations



<u>Priorities</u>	<u>Formal Working relationship</u>	<u>Joint Events</u>	<u>Joint Publications</u>	<u>Others</u>
FAO	✓	✓	✓	
Codex	✓			
OIE	✓	✓		
ISO	✓	✓	✓	
WHO		✓		✓
ILSI Europe		✓		✓
IFAP, IMS, IFIF, IFAH, IFT, ILSI, SAI, GDP ...				✓



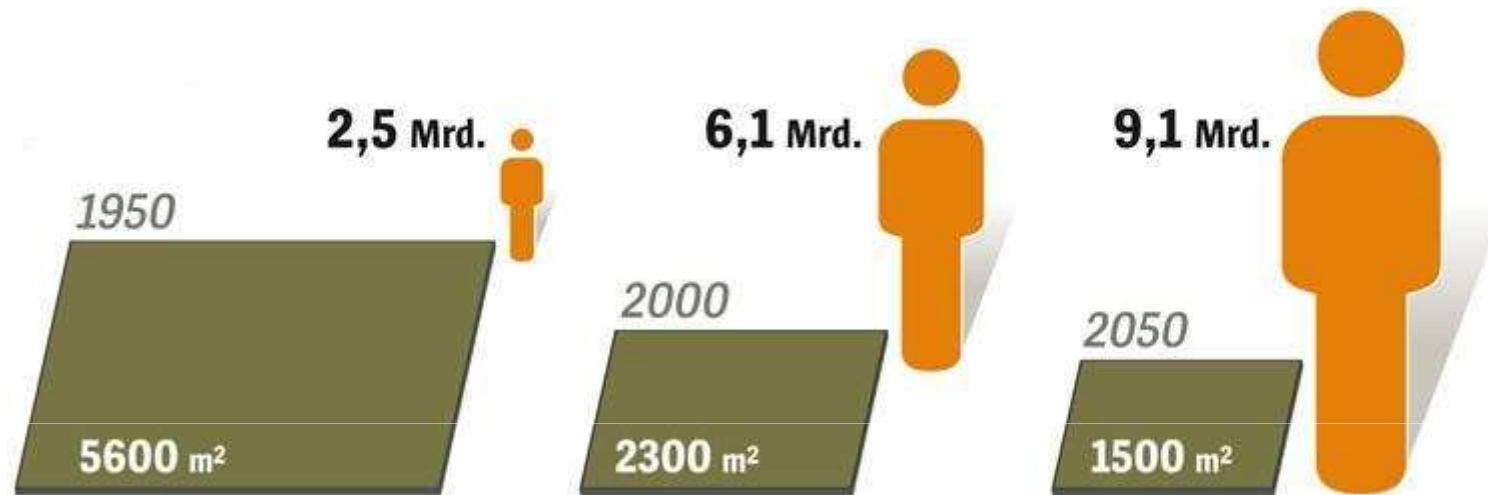
# IDF's overall objective with regard to sustainability



To generate, compile, present and communicate science-based and validated technical information and facts :

- Enabling stakeholders within or connected to the dairy sector **to select and apply feasible solutions** to maintain and further develop sustainability in all sectors of the dairy value chain
- Assisting **communication from the dairy sector** at global, regional and national level about the **responsible and sustainable dairy industry worldwide**
- Liaising with **other organizations having impact on the dairy sector** to secure their support to the dairy sector and its further sustainable development

# Evolution of growth of world population versus availability of arable land and animal protein



Availability of arable land per head of human population

According to FAO the world demand for animal protein (milk, eggs, meat) will increase by about 50% by 2020 and is expected to double by 2050.

⇒ **What are the implications for dairy?**

# The global dairy industry position



**The global dairy industry has a shared interest with governments and the global community**

**and is committed to:**

- To continue to provide consumers with the nutritious products which they want

**In a sustainable way which is:**

- Environmentally sound
- Socially responsible
- Economically viable



# Global response required



The global issue is that producing nutritious dairy foods requires energy and the use of such energy needs to be as efficient as possible to reduce the impact on climate change

## Industry Stakeholders:

Producer/organizations, processors/associations, transporters, suppliers, retailers

### Along the global dairy supply chain



# Global action of the dairy sector to address Climate change and Sustainability



- On 24 September **2009**, the global dairy sector made history signing a *Global Dairy Agenda for Action* during the World Dairy Summit in Berlin, Germany.
- The *Global Dairy Agenda for Action* is originally an industry pledge to reduce carbon emissions as part of its contribution to help address global warming.



# Truly a global dairy industry approach



## Current signatories of the Global Dairy Agenda for Action:

International Dairy Federation (IDF)  
Sustainable Agricultural Initiative (SAI) Platform  
Global Dairy Platform (GDP)  
European Dairy Association (EDA)  
Pan American Dairy Federation (FEPALE)  
Eastern and Southern African Dairy Association (ESADA)

- represent 605 billion litres of milk (86 % of total global production)



# The global dairy industry position



## The objective in launching this Agenda for Action:

- To demonstrate the positive activities that the dairy sector is undertaking to support its commitment to sustainability.
- To catalogue the continuous improvements already made and in progress as evidence of the industry's commitment.
- To make a call for action from policy makers to provide a supportive regulatory policy environment in which the sector can deliver on its commitments, without compromise to the dairy industry's contribution to global nutritional and social wellbeing and the profitability of the sector (win-win situations).



# IDF with its partner dairy stakeholder organizations in a concerted global commitment



## Global Dairy Agenda for Action: 5 commitments

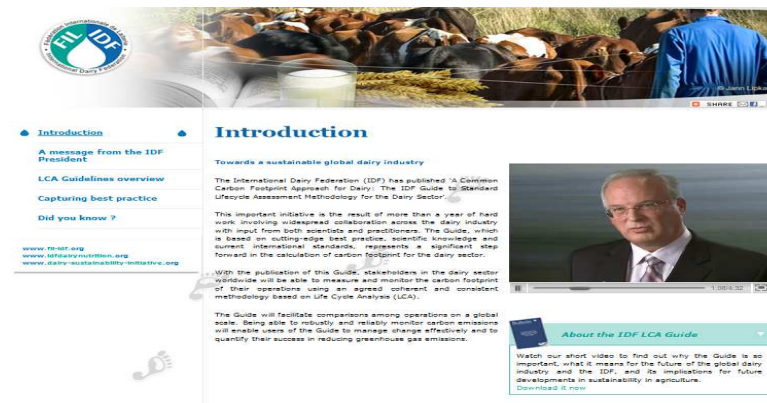
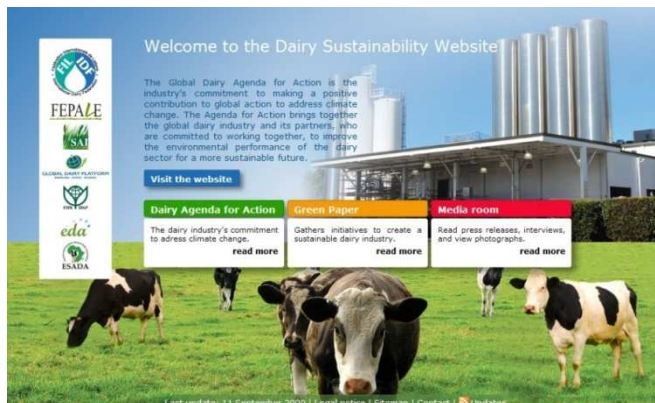
- Promote the development of a **standard methodology** framework for assessing the carbon footprint of milk and dairy products based on robust science;
- Promote **adoption of world's best practices** within the global dairy sector and actions that:
- Seek to advance the **establishment of tools to facilitate measurement and monitoring** of emissions both on-farm and in dairy manufacturing.
- **Promote improved farmer understanding of agricultural emissions** and opportunities to reduce greenhouse gas emissions on farm.
- **Support sharing information and aligning research efforts** to develop cost effective mitigation technologies for both on farm and manufacturing application



# How does this happen?



- Collaborative approach and dialogue
- IDF provides the necessary leading role and coordination
- Dedicated dairy sustainability website
- Liaison with international bodies (e.g. FAO, UNEP...)
- Development of the LCA methodology and website

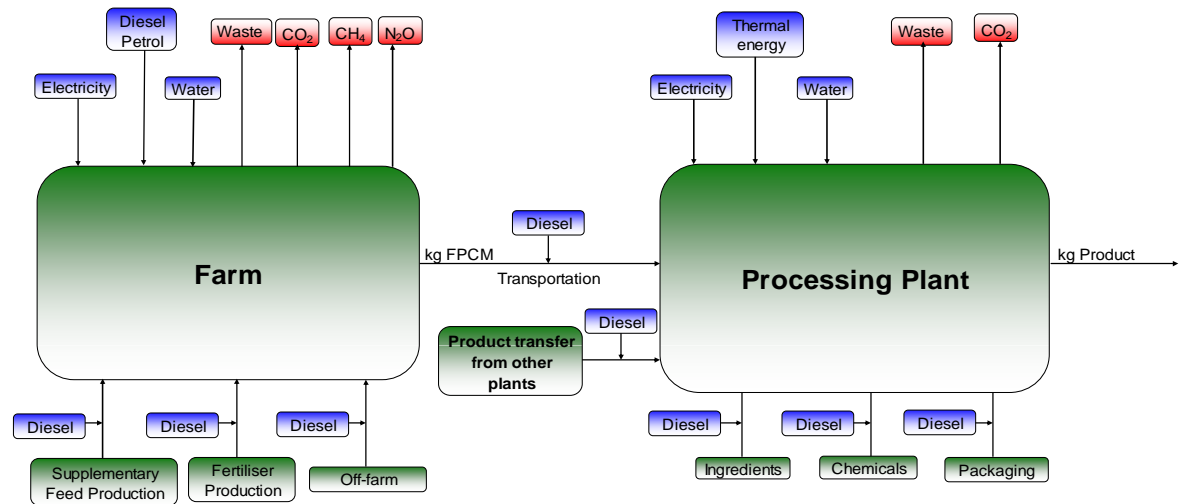


# We recognise the need to provide evidence



➤ Evidence has been collected on past, current and planned work in **6 key areas:**

- Emissions Reduction
- Energy Efficiency
- Transport Efficiency
- Reduction in loss of milk and milk products
- Resource Efficiency
- Life Cycle Analysis and Management



➤ Dairy sector's commitment is to continue to provide evidence of the growing volume of work in these and other sustainability areas (e.g. biodiversity, animal health and welfare, social and economic impacts)



# Dairy Sustainability Website

## [www.dairy-sustainability-initiative.org](http://www.dairy-sustainability-initiative.org)



## Welcome to the Dairy Sustainability Website

The Global Dairy Agenda for Action is the industry's commitment to making a positive contribution to the global action in addressing climate change. The Agenda for Action brings together the global dairy industry and its partners, who are committed to working together to improve the environmental performance of the dairy sector for a more sustainable future.

[Visit the website](#)

### Dairy Agenda for Action

The dairy industry's commitment to address climate change.

[read more](#)

### Green Paper

Collection of initiatives to create a sustainable dairy industry.

[read more](#)

### FIL-IDF LCA Guide

IDF Guide to Standard Lifecycle Assessment Methodology for the Dairy Sector.

[visit](#)

# Transparent reporting

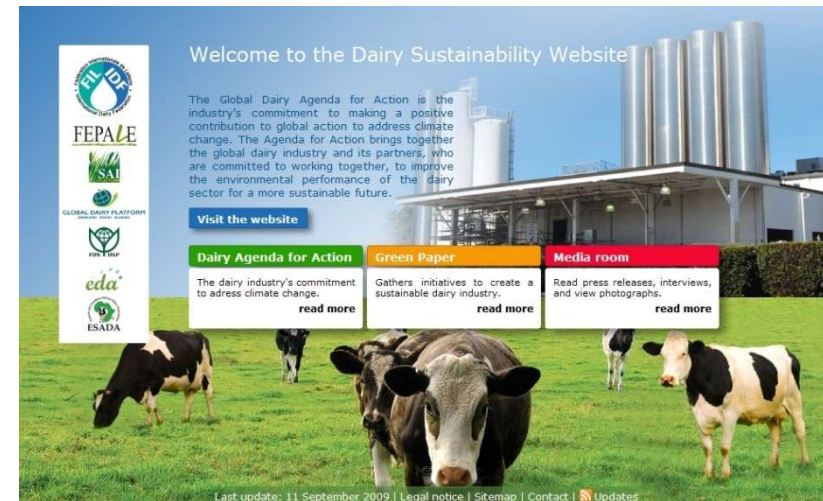
## [www.dairy-sustainability-initiative.org](http://www.dairy-sustainability-initiative.org)



The *Global Dairy Agenda for Action* is intended as a living document and process

committed to:

1. Ongoing reporting through the website – Green paper
2. Regular and transparent reporting at IDF World Dairy Summits with stocktaking on progress achieved every two years



# What is the Green Paper ?

[www.dairy-sustainability-initiative.org](http://www.dairy-sustainability-initiative.org)



- **Sharing Best Practice**

- Searchable Public Database of projects from industry stakeholders addressing the key areas of climate change and sustainability
- Currently over 330 examples from over 42 different countries around the world
- Over 110 examples on emissions reductions alone!
- Wide ranging to capture the huge diversity of dairy situations around the world: tree planting in India to latest packaging innovations in Sweden and Denmark



## The Green Paper website

'A compilation of Greenhouse Gas reduction initiatives by the global dairy sector'

**BACKGROUND**

In September 2008, the Dairy Agenda for Action on Climate Change was signed by seven associations. It demonstrates the industry's global commitment to making major reductions in Greenhouse Gas emissions along the whole of the dairy supply chain. The Green Paper catalogues these initiatives via the Dairy Sustainability website.

**THE GREEN PAPER**

- The Green Paper website can be used by organisations and individuals working in the dairy supply chain, to share information about the positive sustainability actions they are implementing, either in their own organisation, with suppliers or through research
- Relevant initiatives and activities can be big or small, on a local or global level, on the farm or throughout the supply chain
- Provides a one-stop shop for anyone who wants to be better informed about what the dairy supply chain is doing on climate change
- Involves short and important messages related to your sustainability activities
- The Green Paper examples are catalogued into the following key areas:
  - > Emission reductions
  - > Energy efficiency
  - > Transport efficiency
  - > Reduction in loss of milk and milk products
  - > Resource efficiency and
  - > Life Cycle Analysis and management

Do you have an example of activity in your organisation that would fit into any of these categories? Read on!

**THE BENEFITS?**

- Add to the growing evidence of how the industry is genuinely committed to reducing GHG emissions
- Showcase your commitment to a wider audience
- Favourably influence the perception of your industry by consumers, governments and retailers
- Profile your company or department
- Generate further traffic to your website

**GETTING YOUR EXAMPLES ONLINE**

The International Dairy Federation has developed a standard and simple, online form for inputting examples onto the site - see: <http://www.dairysustainabilityinitiative.org>

The Green Paper panel will review each submission before it is uploaded to the site.

The seven organisations who committed the sector to these actions plan to have biennial reports on the progress of the sector against the Agenda for Action commitments and will be utilising examples from the Green Paper as evidence of progress. Your submission could become one of these examples.

For further information regarding the provision of examples, for the Green Paper contact: [Info@idf.org](mailto:Info@idf.org)



# IDF LCA Project : The goal

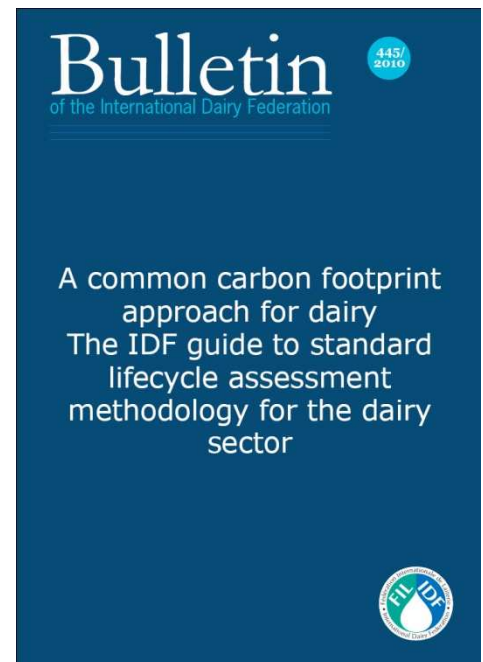


- **To define and agree on a common methodology**, based on Life Cycle Analysis, amongst the sector and academics, to calculate :
  - the carbon footprint
  - the water footprint
  - the biodiversity footprint of dairy products
- With involvement of **FAO** and **SAI** at the level of the IDF project group
- **To publish an IDF** standard carbon footprint methodology for dairy products as the international reference document to harmonize current diverse approaches
- **Ultimately** to help identifying the best options to reduce the environmental impact of dairy production and to be able to measure the improvement.....Consistently

# Common Methodology for Dairy Lifecycle Assessment of carbon footprint



- Major challenge to progress – comparative analysis and benchmark
- IDF Standing Committee on Environment recognised this as a major issue
  - Multi disciplinary and international team
  - Many months of review and debate
  - Considerable engagement with dairy supply chain partners and international bodies
  - ISO standards as a basis
- **Goal achieved in achieved in October 2010 !**
  - Our members to implement the methodology



# IDF LCA Guide Website in support [www.idf-LCA-guide.org](http://www.idf-LCA-guide.org)



SHARE

## Introduction

A message from the IDF President

LCA Guidelines overview

Capturing best practice

Did you know ?

[www.fil-idf.org](http://www.fil-idf.org)  
[www.idfdairynutrition.org](http://www.idfdairynutrition.org)  
[www.dairy-sustainability-initiative.org](http://www.dairy-sustainability-initiative.org)

## Introduction

### Towards a sustainable global dairy industry

The International Dairy Federation (IDF) has published 'A Common Carbon Footprint Approach for Dairy: The IDF Guide to Standard Lifecycle Assessment Methodology for the Dairy Sector'.

This important initiative is the result of more than a year of hard work involving widespread collaboration across the dairy industry with input from both scientists and practitioners. The Guide, which is based on cutting-edge best practice, scientific knowledge and current international standards, represents a significant step forward in the calculation of carbon footprint for the dairy sector.

With the publication of this Guide, stakeholders in the dairy sector worldwide will be able to measure and monitor the carbon footprint of their operations using an agreed coherent and consistent methodology based on Life Cycle Analysis (LCA).

The Guide will facilitate comparisons among operations on a global scale. Being able to robustly and reliably monitor carbon emissions will enable users of the Guide to manage change effectively and to quantify their success in reducing greenhouse gas emissions.



### About the IDF LCA Guide

Watch our short video to find out why the Guide is so important, what it means for the future of the global dairy industry and the IDF, and its implications for future developments in sustainability in agriculture.

[Download it now](#)

# Current IDF Work on sustainability in a nutshell



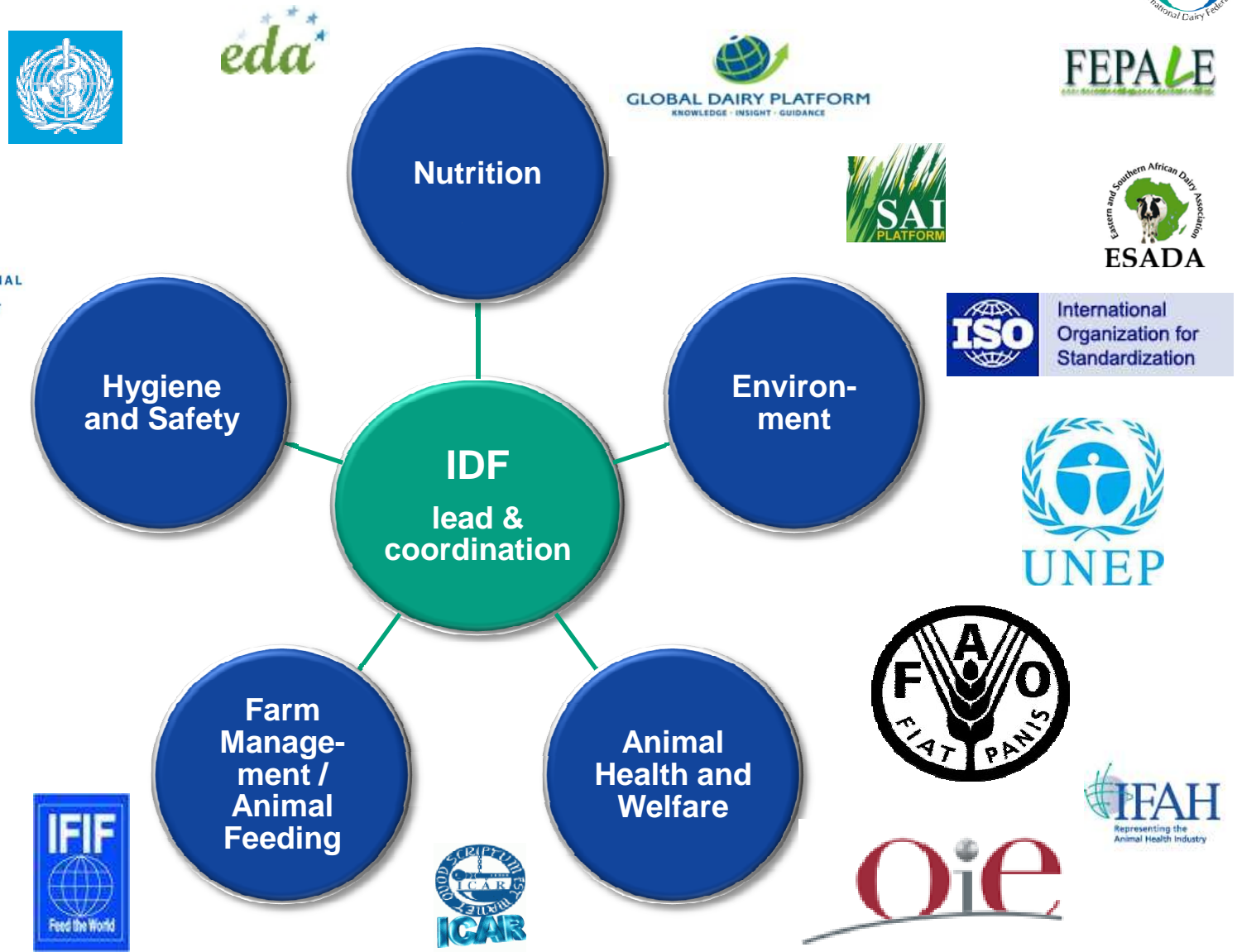
Environmental	Economic	Social
<p><b>Global warming incl. greenhouse gas emissions</b></p>	<p><b>Quality assurance at dairy farming level</b>  <b>Animal Health / Animal Welfare / Animal Feeding</b></p>	
<p><b>Waste handling, effluent treatment and removal of salts</b></p>	<p><b>Food Safety</b>  <b>Nutrition</b></p>	
<p><b>Water use and water depletion incl. eutrophication</b></p>	<p>Price of feed and raw milk, costs of milk collection, production and processing</p>	<p>Labour conditions / health and safety of workers</p>
<p><b>Biodiversity, land &amp; energy use</b></p>	<p>Return on investment, profit margin</p>	<p>Consumer acceptance of GMO in the food chain &amp; final product</p>

# IDF Work on Environment – future steps



- Follow-up work of the IDF LCA Guide on **A common carbon footprint approach for the dairy sector** has been initiated:
  - Monitoring LCA developments world-wide and consider adaptations
  - Water footprinting in dairy
  - Incorporation of biodiversity into the LCA methodology
  - IDF Product Category Rules for Milk and Dairy Products
  - Dairy nutrition and environmental sustainability
- Continuation and strengthening the IDF leadership of the Global Dairy Agenda for Action

# IDF key partnerships in different priority areas of current and future sustainability work



# IDF World Dairy Summit 2011 co-organised with FAO on Sustainable food security



- Committed to report on our sustainability progress in Parma, Italy on 15 - 19 October 2011 !





[www.dairysustainabilityinitiative.org](http://www.dairysustainabilityinitiative.org)