

## What the EU Dairy Industry is doing within the scope of a Global Sustainable Approach

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## Content of the Presentation

- What do we learn from the facts and figures?
- Chain approach to the Dairy Sector
- Recently-decided projects on GHG emissions reductions in the EU Dairy Industry

## What do we learn from the Facts & Figures?

- Dairy production and consumption have a relevant contribution to global GHG emissions
- In contrast with many other sources of GHG emissions, emissions from dairy have not increased since 1990
- In many parts of the world, a significant decrease has even been observed.
- GHG emissions are related to activities all along the production chain. CH<sub>4</sub> and N<sub>2</sub>O emissions related to dairy farming are of main importance.

## Chain approach in the Dairy Sector on GHG emissions reductions

- At all links in the production/consumption chain GHG emissions
- Dairy companies have worked for a long time on aspects directly related to processing/packaging/distribution
- Dairy companies participate in initiative to develop guidance on environmental aspects for primary producers:
  - Sustainable Agriculture Initiative
- Co-operation between primary producers, processors and distributors on national, continental and global levels, covering work on GHG emissions reduction along the whole chain.

## Main Projects out of the last 25 years

- Increased energy efficiency in milk processing
- Reduction of product loss; use of secondary flows for increased resource efficiency
- Increased efficiencies in raw material and product transport
- Increased efficiencies in material use in packaging, including material recycling
- Reduced use of water in processing

## Recently-Initiated Projects: increasing focus on farming activities

- **FR:** research into the relevance of carbon-binding grasslands as part of dairy farming activities
- **FR/UK:** adapting cows' diet to reduce CH<sub>4</sub> from enteric fermentation
- **DE:** use of wood for CO<sub>2</sub> neutral power supply with dairy processing
- **NL:** fermentation of manure, together with residual products out of dairy processing/distribution to supply dairy plant with heat and electricity

## Recently-Initiated Projects: increasing focus on farming activities (ctd)

- **SE:** Study on effect feed composition on GHG emissions from both feed production and feed-consuming cows
- **UK:** Study into feasibility of centralised anaerobic digesters, based on dairy residual products
- **UK:** Milk Roadmap: set of commitments on which progress is reported yearly
- **DK:** Series of actions to work on GHG emission reductions:
  - Use of 2<sup>nd</sup> generation bio fuels
  - Research into GHG emission reduction from dairy farming: feed composition, manure/fertilizer management

## **Role of EDA**

- **Facilitation of exchange of experiences**
- **Collection and dissemination of relevant knowledge**
- **Work at world level to increase coordination**