### **Overview of dairy farming globally** IDF World Dairy Summit in Yokohama 28.10. to 1.11. 2013.





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Source: IFCN Dairy Report+ cooperation of dairy researcher from 90 countries.

## What matters for dairy farmers most?

Where is the milk price now and where will it be in the future?





# World milk prices drive national prices

Monthly milk price developments 2006 – 2013 up to Sept.

Germany



**New Zealand** 





Brazil





0

Jan 06

Jan 08 -

Jan 07

Jan 09

Jan 10

Jan 11

Jan 12

Jan 13

### The key driver for world milk prices Milk surplus and deficit by dairy region 2010





Calculation of surplus or deficit per country or region: Milk production minus milk demand. Regional demand: Regional population and country average per capita milk consumption. Additional assumption for India: Not delivered milk is consumed in the region where it is produced. **Remarks:** Moscow region and city shown as one, Buenos Aires region and city shown as one, Santiago de Chile = Metropolitana region. Regional abbreviations: USA: CA = California, ID = Idaho, WI = Wisconsin, FL = Florida. China: IM = Inner Mongolia, HL = Heilongjiang Sheng.

# **Outline**

IFCN concept + method

Milk production & dairy farming

**Costs of milk production** 

**Perspectives** 

Sum up



# **IFCN** = International Farm Comparison Network The IFCN is a global dairy network of researchers, companies and other stakeholders who are active in the dairy chain. The IFCN has a Dairy Research Center with 15 dairy researchers coordinating the network process + running dairy research activities. The IFCN is independent from third parties and committed to truth, science and reliability of results. **IFCN** Dairy **Researchers Companies Reserach Center** \*\*





### **IFCN** mission

We create a better understanding of milk production world wide







# Status of the IFCN Network in 2013



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#### **Dairy Report 2013**

For a better understanding of milk production world-wide



IFCN International Farm Comparison Network





Milk volumes cows & buffalo milk –standardised to 4% fat and 3,3% protein

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IFCN Dairy Report 2012







#### World → 289,253 farms >100 cows



Data: Farms in Standard Classes based on 91 countries, cows in Standard Classes based on 83 countries. Estimated milk production per standard size class representing 85% of cow & buffalo milk production. 2012 data preliminary or estimated for selected countries.



Sources: Dairy sector database product, IFCN Dairy Research Center

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### **Cost of milk production only in 2012**

- average sized farms -



### Ranking countries by cost of production average farms per country in 2012



# NZ - Costs of milk production 2000 - 2012





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### World milk production – April 2013 vs. 2012



60 countries analysed (p = milk production, d = milk delivery): EU-27: (d), CIS: Armenia (p), Azerbaijan (p), Belarus (p), Kazakhstan (p), Kyrgyzstan (p), Moldova(p), Russia (p), Tajikistan (p), Ukraine (p), Uzbekistan (p),



USA & Canada: Canada (d), USA (p), Latin America: Argentina (p), Brazil (d), Chile (d), Colombia (d), Mexico (p), Peru (d), Uruguay (d), Oceania: Australia (p), New Zealand (p), Asia: Bangladesh (p), China (p), India (p), Indonesia (d), Japan (p), Pakistan (p), Africa: Egypt (d), South Africa (p). Other: Croatia (d), Switzerland (d), Turkey (d), Iran (p). Countries included represent 92% of world milk production. Data is preliminary or estimated.

### Price, margins + milk production 2007 – 6/ 2013 July-Sept - real time estimates

Wolrd milk and feed price





Explanation: Relative change of the 12-months rolling sum of milk production expresses the relative deviation of milk production in a 12 month period compared to the same period one year before. Countries included represent 92% of world milk production. Data is adjusted for leap year effect.

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Source: Monthly real time data of milk production, milk & feed prices, status 9/2013





US-\$ per 100 kg



© IFCN 2013

Source: Monthly real time data of milk production, milk & feed prices, status 9/2013

### Price, margins + milk production 2007 – 6/ 2013 July-Sept - real time estimates



Explanation: Relative change of the 12-months rolling sum of milk production expresses the relative deviation of milk production in a 12 month period compared to the same period one year before. Countries included represent 92% of world milk production. Data is adjusted for leap year effect.

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Source: Monthly real time data of milk production, milk & feed prices, status 9/2013

### World milk production - Sept 2013 vs. 2012



60 countries analysed (p = milk production, d = milk delivery): EU-28: (d), EIS: Armenia (p), Azerbaijan (p), Belarus (p), Kazakhstan (p), Kyrgyzstan (p), Moldova(p), Russia (p), Tajikistan (p), Uzbekistan (p),

USA & Canada: Canada (d), USA (p), Latin America: Argentina (p), Brazil (d), Chile (d), Colombia (d), Mexico (p), Peru (d), Uruguay (d), Oceania: Australia (p), New Zealand (p), Asia: Bangladesh (p), China (p), India (p), Indonesia (d), Japan (p), Pakistan (p), Africa: Egypt (d), South Africa (p). Other: Switzerland (d), Turkey (d), Iran (p). Countries included represent 92% of world milk production. Data is preliminary or estimated.



# Summing up

**Three selected findings:** 

- 1. 122 million dairy farms; Ø 2,9 cows, Ø milk yields 2100 kg/cow/year
- 2. Costs to produce milk in 2012 ranges from 4 128 USD per 100 kg milk
  Be aware: Costs can double or triple in US-\$ within 3-6 years driven by prices for feed, land, labour, exchange rates, droughts, etc.
  Be aware: Exchange rates can drive costs down e.g. Japan -20%
- **3. Milk prices:** Once we are not reaching milk volume growth of 17 mill t / year or 2,4 % prices will to rise for the future?

#### Paradigm shift confirmed:

**EU/US**: **More** competitive costs/ milk prices + **less** government support



BRIC countries / selected emerging dairy countries: Less competitive in costs / milk prices + more government support

# The IFCN work is a result of researchers from 95 countries cooperating !



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IFCN researchers usinge the orange perspective at the 2013 IFCN conference in Turkey