

Challenges and future perspectives – Ruminant nutrition and the feed industry

Nicolas MARTIN – Ruminomics workshops Edimburgh – 10 November 2015



FEFAC Outline

- FEFAC in a nutshell
- Main drivers
- Challenges for research activities
- How to measure and communicate environmental performance?



FEFAC in a nutshell

- Created in 1959
- Represents industrial compound feed and premixtures manufacturers
- 33 Members:
 - 24 Member Associations from 23 EU Member States
 - 2 Observer Members (Serbia, Russia)
 - 7 Associate Members (Turkey, Switzerland, Norway (3), EMFEMA, EFFPA)
- 153 mio. t of industrial compound feed in EU-28 in 2013
- 7 Technical Committees to assist the FEFAC Council
 - Animal Nutrition
 - Industrial Compound Feed Production
 - Premix & Mineral Feed
 - Feed Safety Management
 - Fish Feed
 - Milk Replacers
 - Sustainability

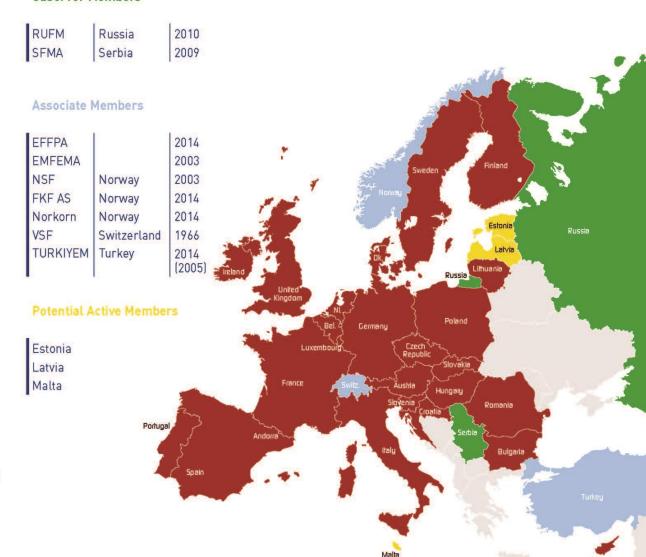


Active Members

Situation on 1 June 2015

VFÖ	Austria	1995 (1964)
APFACA/BEMEFA	Belgium	1959
BFMA	Bulgaria	2013
CFIA	Croatia	2013 (2008)
CAFM	Cyprus	2004 (2003)
SKK	Czech Republic	2004 (2000)
DAKOFO	Denmark	1973
FFDIF	Finland	1995 (1993)
SNIA	France	1959
DVT	Germany	1959
HGFA	Hungary	2012
IGFA	Ireland	1973
ASSALZ00	Italy	1959
LGPA	Lithuania	2005
NEVEDI	The Netherlands	1959
IZP	Poland	2004 (2001)
IACA	Portugal	1986 [1976]
ANFNC	Romania	2014
AFPWTC	Slovakia	2004 (2003)
GZS	Slovenia	2004
CESFAC	Spain	1986
FS	Sweden	1995
LANTMÄNNEN	Sweden	1995
AIC	United Kingdom	1973
l		(observer as from .

Observer Members





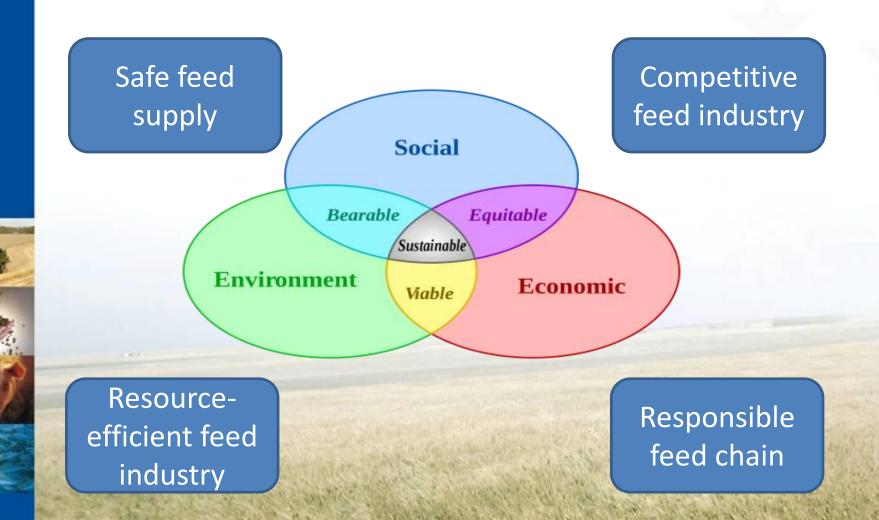
The FEFAC mission

- represent, defend and promote the interests of the European compound feed industry to the European Institutions;
- lobby for a legislative framework and its implementation, without discrimination in EU Member States so as to maximise market opportunities for EU compound feed companies;
- safeguard conditions of free access to raw materials, the proper functioning of their markets and the definition of their quality;
- develop professional rules and good manufacturing practices including the sourcing of feed materials that ensure the quality and the safety of compound feed;
- encourage the sustainable development of livestock production responding to the market requirements, so as to maximise market opportunities for EU compound feed companies;
- encourage the development of precompetitive European feed-related Research & Development projects seeking to enhance the EU feed & livestock sectors competitiveness and capacity to innovate in and/or transfer science and technology based solutions to improve the sustainability of resource efficient livestock production systems.





Sustainability for the feed industry





Vision

- The focus of the EU feed industry is based on further increase of resource efficiency
- The feed industry needs to take care of its impact on the environment (social and environmental impacts)



The FEFAC « Credo »

- Products of animal origin from an integral part of the European diet providing key nutritional benefits.
- Nutritionally optimised feed is essential to mitigate the environmental impact of animal products
- Pro-active attitude of the EU compound feed industry



The FEFAC « Credo »

- Promotion of ecologically intensive production systems, resource efficiency
- Changes in diet patterns and composition to reduce emissions
- Improvement of feed efficiency
- Further optimisation of use of co-products
- Harmonization of environmental footprinting methodology
- Facilitation of cross-sector initiatives





Ambition

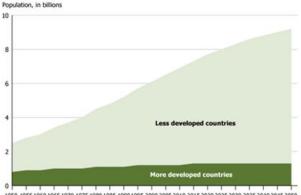
- Communicate the contribution of the EU feed industry using reliable figures
- Contribute or take the lead in the development of
 - Criteria defining sustainable supply
 - Environmental footprinting
- Coordinated action towards more sustainable production





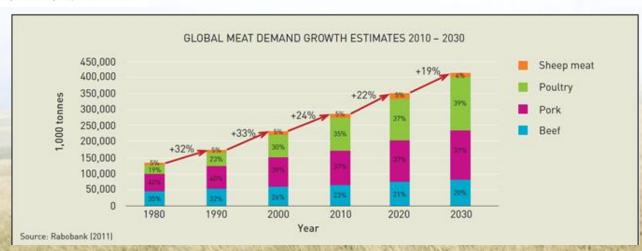
The Agricultural business: unprecedented growthpotential





1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 2020 2025 2030 2035 2040 2045 2050

Source: United Nations Population Division, World Population Prospects, The 2008 Revision.



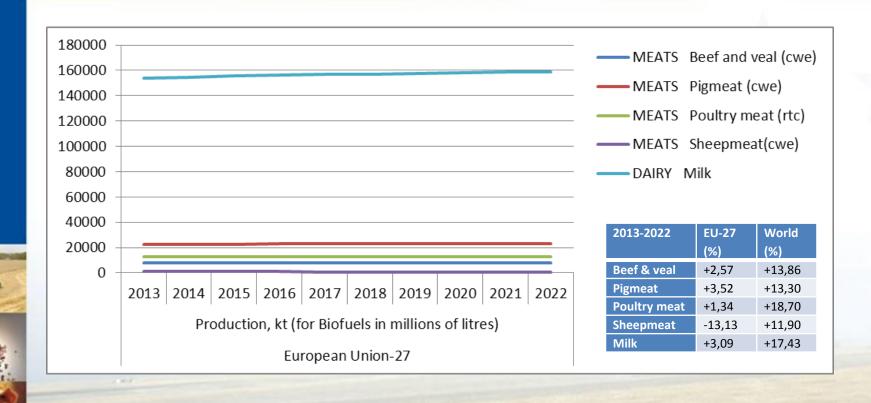


The agricultural business: unprecedented technologies





But, in Europe growth expectations are limited



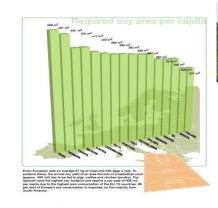


Market drivers: the pressure is growing

livestock's long shadow









Danger CO₂W

Flying's a wonderful thing















0.1587 gallons of gasoline, 16



GHG-emission and productivity

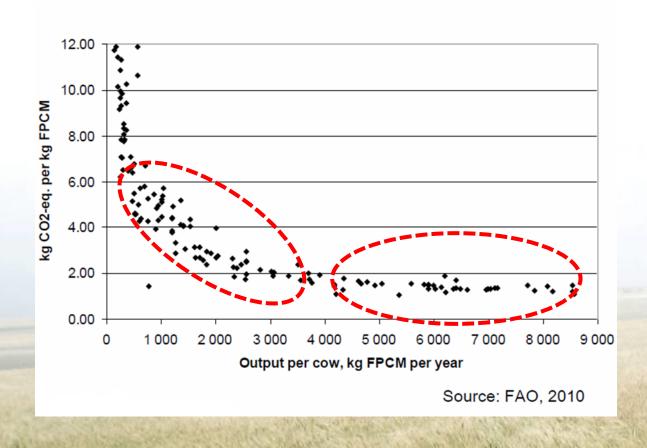




Image gap and relationship with progress











Societal acceptance will lead to new production chains ...



- 25% Dutch market

- 25% Dutch marke

New sustainable chicken:

- Slow growth
- Low in antibiotics
- Responsible Soya
- Long term: increase European raw materials

De kip van morgen komt eraan

Voor hoerastemning is het nog te vroeg, maar het initiatief van de pluimveesector en de supermarkten om in gezamenlijkheid te komen tot een heldere definitie en afspraken over de duurzaamheid van pluimveevlees, wordt breed toegejuicht. De eerste oriënterende besprekingen zijn inmiddels gevoerd. 'De Kip van Morgen' is een kwestie van tijd.

The Kip van Morgen' is in zekere zin een voortzetting van het convenant Tussensegment Pluimveevlees, waarin de pluimveesector en
de retail afgesproken hebben om
het tussensegment tussen gangbaar en biologisch te vergroten.
In dat tussensegment van
vlees met een dierwelzijnsplus is inmiddels voorzien met
producten als de Volvaardkip
en het Gildehoen. De consument
kan kiezen. De supermarktketens
hebben pu uitgessproken date zin 2020

hierbij aan. Resultaat voor de Nederlandse markt is snel te boeken. Zelfs zonder extra investeringen 'De bezettingsgraad bijvoorbeeld zou zo naar beneden kunnen. Nu gebeurt dat niet. omdat retailers niet aangeven dat ze dat willen. Alleen komt dan wel het bedrijfseconomisch rekenmodel er heel

anders uit te zien.

De pluimveehouder

uitnodiging tot innovatie. Dat geldt in zekere zin ook voor de uitspraak van onze retailers, dat in 2020 tekent Dellaert alle vlees in

Innoveren in

duurzaamheid

Een begrip als duurzaamheid is

een mooie prikkel tot vernieuwing. Duurzaamheid is een uitdaging. Een doel om na te streven. Een

het schap durzaam moet zijn. Duurzaamheid is een complex begrip. Zeker in de veehouderij. Het gaat hierbij in essentie immers om de borging van dierenwelzijn, een voedselvellig iendproduct én een rendabele productiewijze met een lage milleudruk. De combinatie dierenwelzijn-millieu is een moeilijke. Kiezen voor het ene, is (een

Hoe kriig je een kip die maximaal scoort op alle aspecten van duurzaamheid? Dat is een vraag aan de sector die alleen met een geïntegreerde aanpak te beantwoorden is. Innovaties zijn daarbij onontbeerlijk: Vanuit die doekstelling zal uitgezocht moeten worden wat precies nodig is. Ander voer? Andere stalsystemen? Andere ras-





Institutional drivers

- EU 2020 strategy
- International negotiations on climate change





EUROPE 2020 Strategy key priorities

- Smart growth developing an economy based on knowledge and innovation
- Sustainable growth promoting a more resourceefficient, greener and more competitive economy
- Inclusive growth fostering a high-employment economy delivering economic, social and territorial cohesion



EUROPE 2020 Strategy - Flagship initiative "Resource efficient Europe"

- Boost economic performance while reducing resource use
- Identify and create new opportunities for economic growth and greater innovation and boost the EU competitiveness
- Ensure security of supply of essential resources
- Fight again climate change and limit the environmental impacts of resource use





EUROPE 2020 Strategy Delivering more sustainable consumption and production

- By 2020, right incentives for citizens to choose the most resource efficient products and services, through appropriate price signals and clear environmental information
 - Product Environmental Footprint (PEF) published in April 2013
- Ensure more environmental friendly products on the EU market
- Promote sustainable consumption



Building the Single Market for Green Products

- General objective: improve the availability of reliable information on the environmental performance of products and organisations
- Specific objective: promote the use of a common methodology to assess and communicate the environmental performance of products and organisations
- Operational objectives
 - Launch 2 methodologies, simple but also robust, one for products, one for organisations
 - Encourage the take-up of the methodologies in MS and by private sector
 - Develop PCR through an open, transparent, multistakeholder process





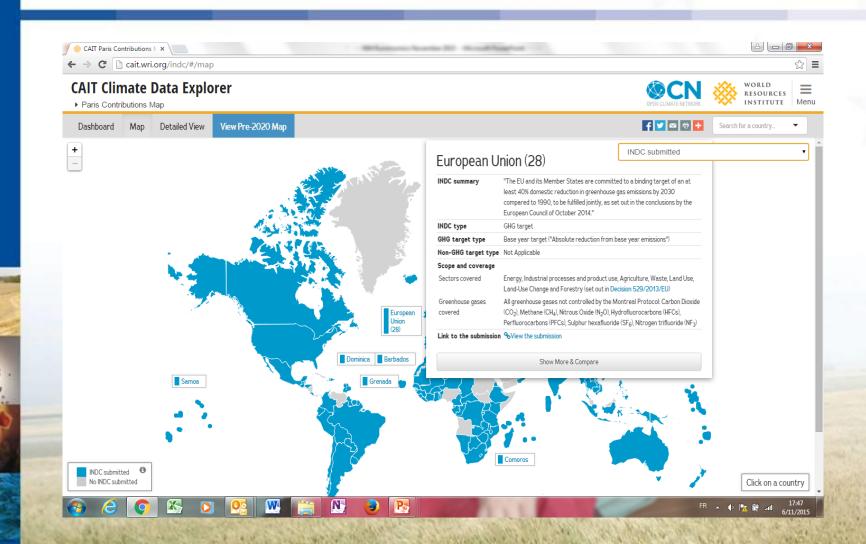
Main proposals

- Two methods to measure environmental performance throughout the life cycle: the PEF and the OEF
- Recommendation of a voluntary use of these methods by MS and companies
- Three-year testing period to develop product and sector-specific rules aligned with these methods
- Principles for communicating environmental performance
- Comparability as important objective
- Support for international efforts towards more coordination in methodological developments and data availability





Climate negotiations



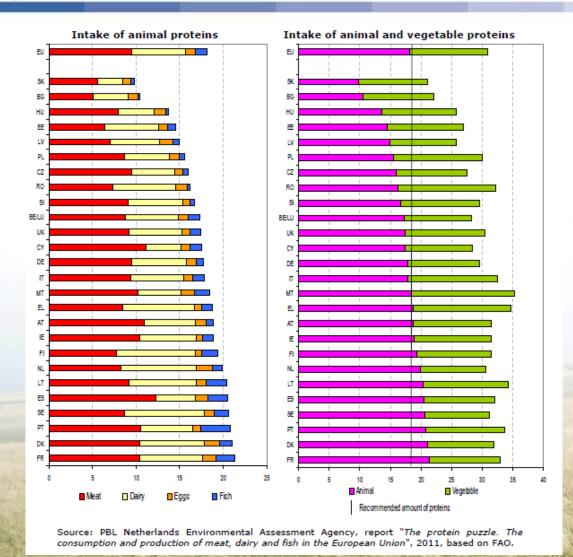


Resource efficiency indicators

- Resource efficiency roadmap
 - Food and drink value chain in the EU causes 17% of the GHG emissions and 28% of material resource use
 - Consumption patterns have global impact, in particular related to the consumption of animal proteins
- Indicators are needed to monitor progress



Food: consumption of meat and dairy products





European Feed Research agenda

- Multifunctionality of animal nutrition
 - Optimizing resource efficiency by using nutrients efficiently
 - Healthy animals for healthy people
 - Social responsible livestock farming





- Optimizing resource efficiency by using nutrients efficiently
- Healthy animals for healthy consumers
- Social responsible livestock farming

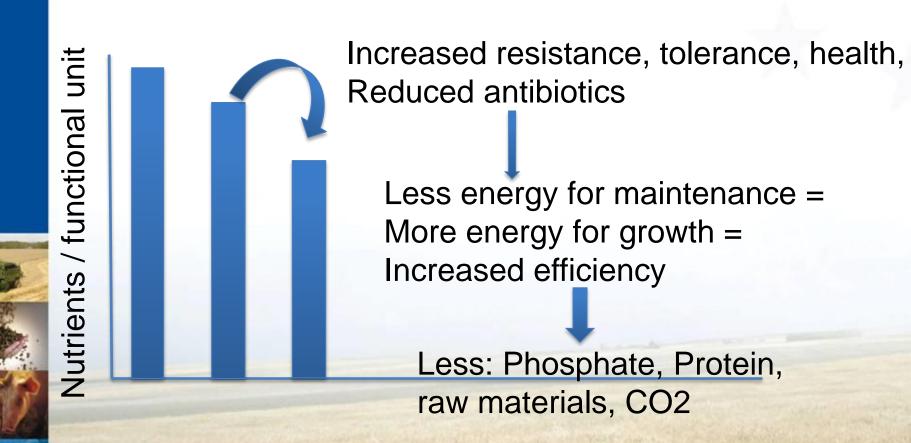


By: Better predictive modeling, Sensor technology Use of Nutrigenomics

Less: Phosphate, Protein, raw materials, CO2

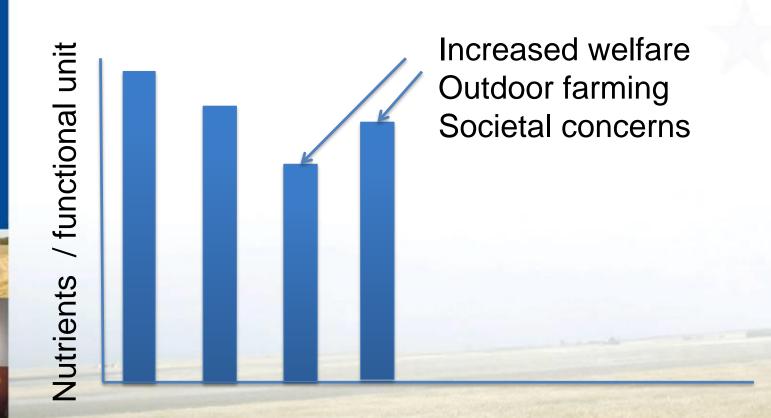


- Optimizing resource efficiency by using nutrients efficiently
- Healthy animals for healthy consumers
- Social responsible livestock farming



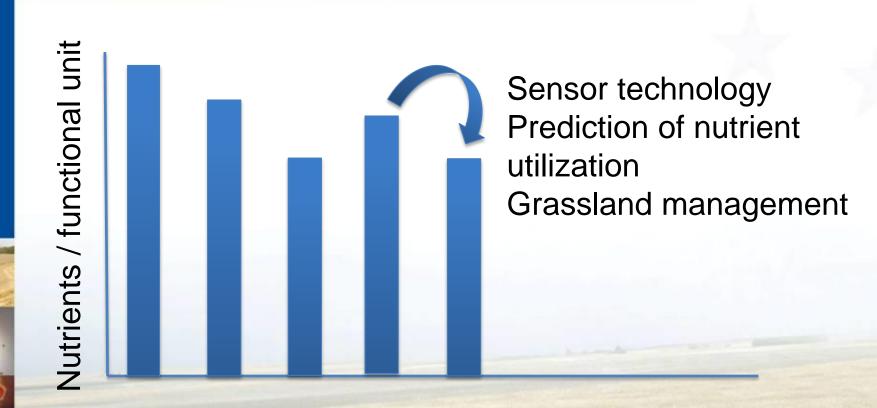


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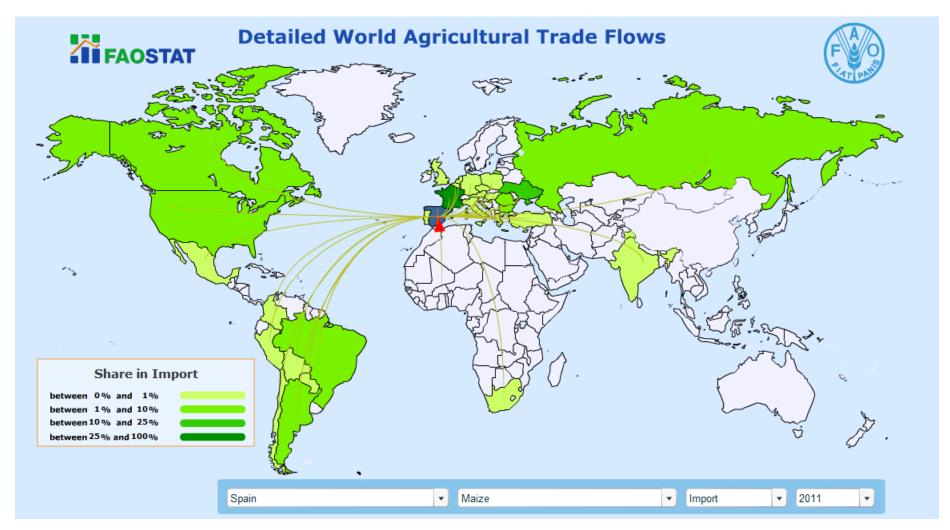


The need to measure the impact on the environment

- Feed and livestock industry under pressure
- Need to communicate on reliable figures
- No green washing
- Common methodology is a pre-competitive issue and is part of consumers' expectations



Feed supply chains are global and complex (example of Spain maize imports)



Source: FAOSTAT http://faostat.fao.org/DesktopModules/Faostat/WATFDetailed2/watf.aspx?PageID=536



Communication is a challenge

- Mitigation options require on-farm strategies
- Reliable communication requires aggregated figures



Walking on the road to sustainable feed for sustainable food



Thank you for your attention

Questions?

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FEFAC

Fédération Européenne des Fabricants d'Aliments Composés

Europäischer Verband der Mischfutterindustrie

European Feed Manufacturers' Federation

