

Reducing the "feed versus food" competition: valorising foodchain & biorefinery by-products

Ruud Tijssens FEFAC President

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FEFAC in a nutshell

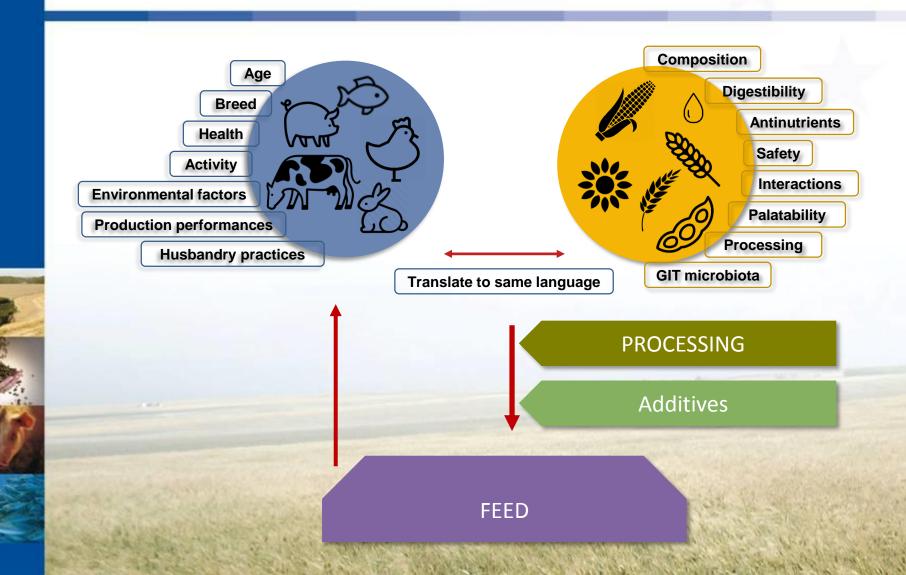
- Created in 1959
- Represents industrial compound feed and premixtures manufacturers
- 33 members
 - 24 Member Associations from 23 EU Member States
 - 2 Observer Members (Russia, Serbia)
 - 7 Associate Members (Turkey, Switzerland, Norway (3) EMFEMA, EFFPA
- 156 mio. T of industrial compound feed production in 2015





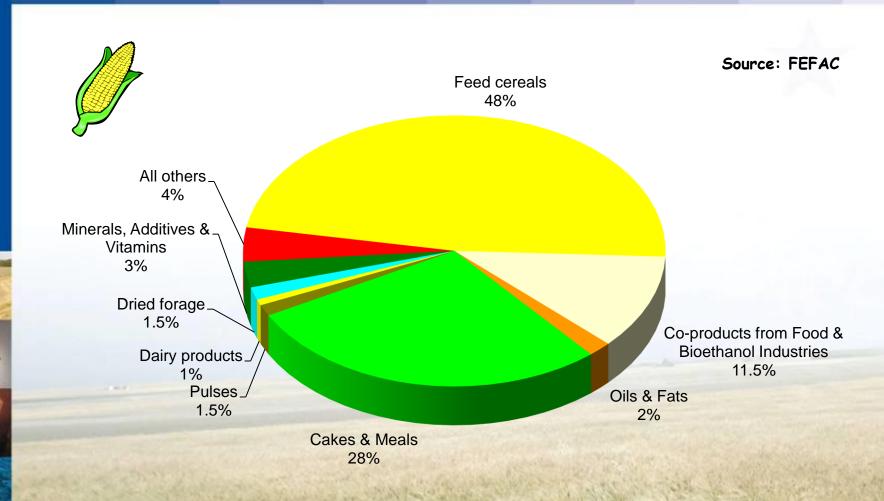


Animal feed industry – the link between ingredients and nutrition



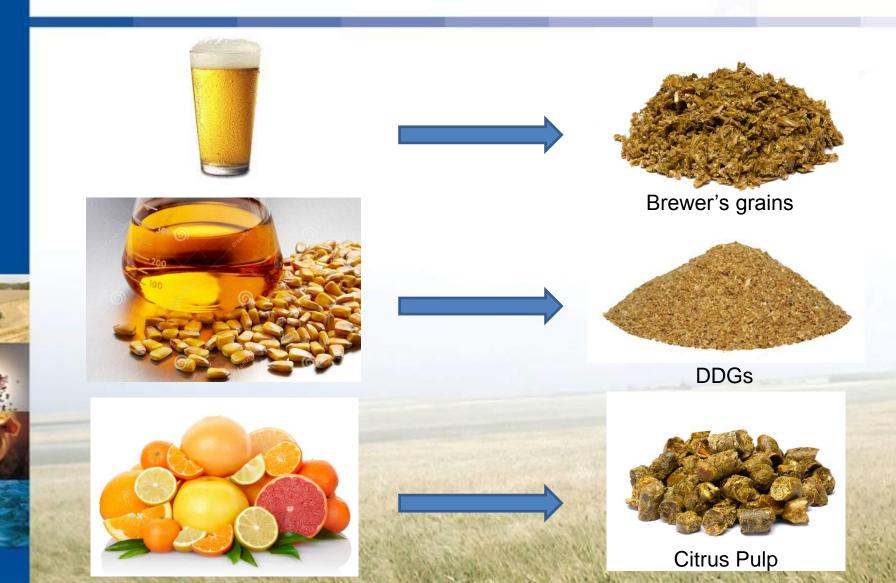


Feed material consumption by the EU-28 feed industry in 2015





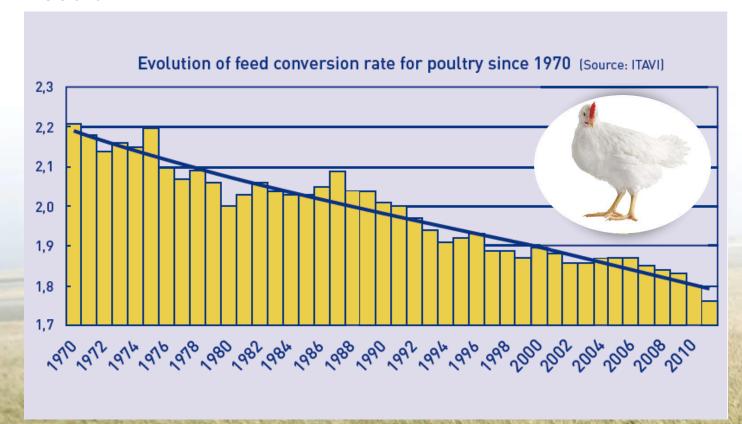
Animal Nutrition Science – Discovering feed value in the unconventional





Animal Nutrition Science – Constantly reducing the feed conversion rate

- ➤ Increase nutrient efficiency reduce the losses
- More resource efficiency means a more sustainable livestock sector





Former foodstuffs - the new frontier

- Unintentional/unavoidable food losses
 - Intermediate or incorrectly packed/shaped/flavoured/labelled
 - Seasonal products (sports events, easter, christmas, halloween)
 - Removed from the human consumption market for commercial reasons
- ➤ Not "waste/rubbish" high value feed ingredient
- High energy content (sugar, fats/oils, starch)





Former foodstuffs: Food industry byproducts













What aren't former foodstuffs?







Animal By-Products (EU Regulation 1069/2009): Former foodstuffs with animal protein are not allowed in feed for food-producing animals, with the exception of milk, eggs, honey and porcine gelatine



The Finished Product: A Feed Ingredient





Safety &
Traceability!
General Food Law;
REG 178/2002

Lawful! Feed Marketing; REG 767/2009 Hygiene! Feed Hygiene; REG 183/2005 Controls!
Official Controls;
REG 882/2004



Nutritional Value of Processed Former Foodstuffs (Source: NRG, VDLUFA, INRA)

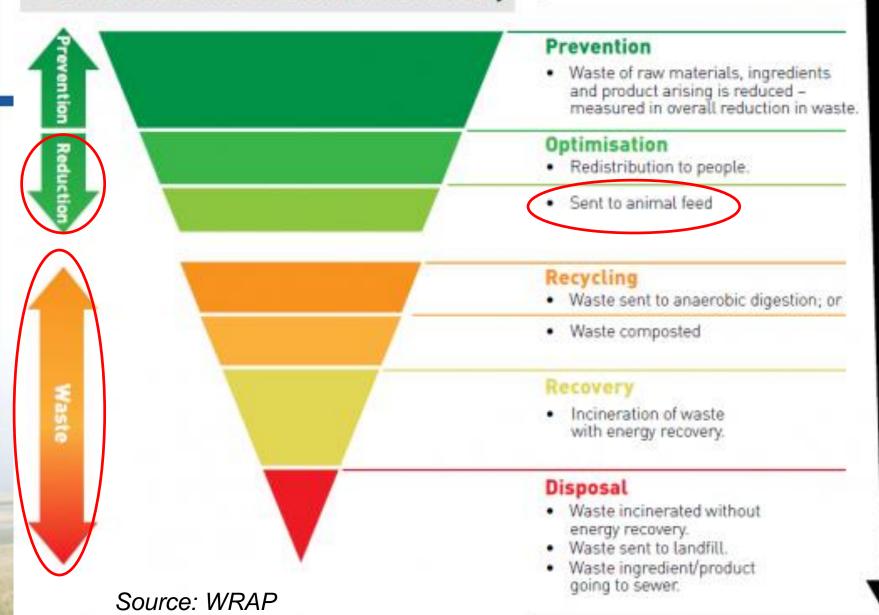
	Processed former foodstuffs	Barley	Wheat
Dry matter	88.0%	88.0%	88.0%
Crude protein	10.9%	11.0%	12.4%
Lysine	0.26%	0.38%	0.34%
Crude fat	9.8%	2.8%	2.1%
Crude fiber	2.2%	5.5%	2.7%
Starch	41.9%	51.6%	59.2%
Sugar	14.0%	2.2%	2.4%
Metabolisable energy pig (ME)	15.48 MJ/kg	12.95 MJ/kg	14.43 MJ/kg

Main targets: young animals (e.g. piglets)





Food and drink material hierarchy



Least preferable option



Research agenda

- Identifying <u>nutritional</u> & <u>risk</u> profiles of potential new feed ingredients
 - Insects, algae, single cell proteins, former foodstuff
- Increasing the efficiency & effectiveness of feed ingredients use
 - Reduction of GHG emissions livestock sector through improved feed conversion rate
 - Reduction of nitrogen and phosphates
 - Reduction of veterinary medication through animal nutrition strategies





Take home messages

- Food and feed production: Complementary to each other, not competitors!
- Feed outlet is a solution to reduce food waste, but safety above all
- Feed outlet should never be 'disposal route', out of environmental or economic reasons
- Innovation





FEFAC

Thank you for your attention

Contact FEFAC A.I.S.B.L. Rue de la Loi 223 1040 Bruxelles fefac@fefac.eu

