Martin Alm





European Fat Processors & Renderers Association Germany

Dr. Martin Alm is technical director of the European Fat Processors and Renderers Association, as well as director of Dr. Alm Research and Consulting.

He is a consulting board member of the German Renderers Association and member of the Research Committee of the Fat and Protein Research Foundation.

Alm started his career at SARIA Bio-Industries, a leading European rendering company, where he was responsible for research and development and regulatory affairs.





Rendered Products Worldwide

Dr. Martin Alm
European Fat Processors and
Renderers Association



Dr Martin Alm
EFPRA Technical Director
WRO Scientific Advisory Panel

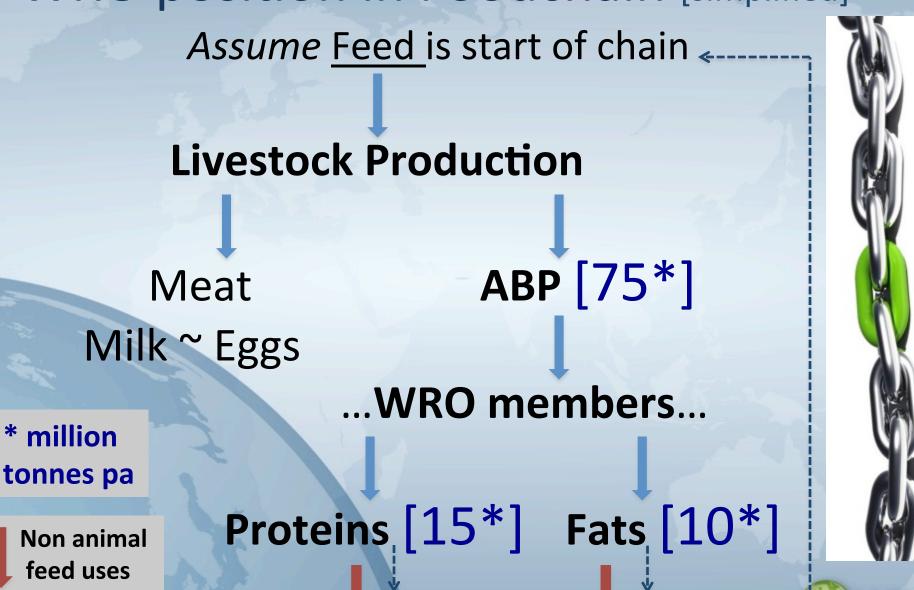
WWW.WORLDRENDERERS.ORG

WRO & the World of Animal by-Products

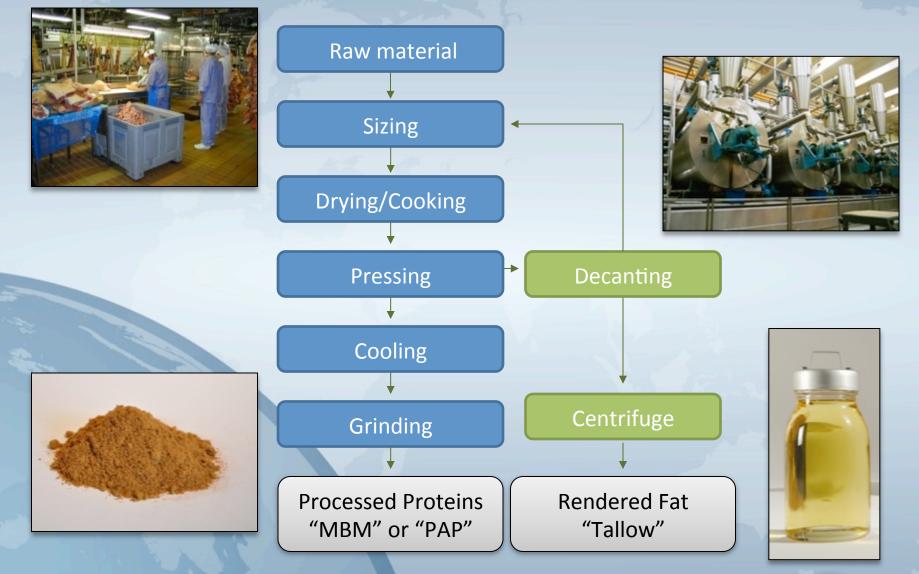
- ✓ Renderers are a vital link in the Food Chain
- ✓ Renderers collect animal by-products [ABP] from livestock production [farming]
- ✓ Animal by-products contain natural resources Proteins, Fats, Minerals BUT are are also highly degradible... due to presence of water and natural microflora.
- ✓ Renderers process ABP by evaporation, sterilisation and stabilisation of products.
- ✓ Rendered products... are valuable resources



WRO position in Foodchain [simplified]



Rendering: Simplified Process Flow diagram







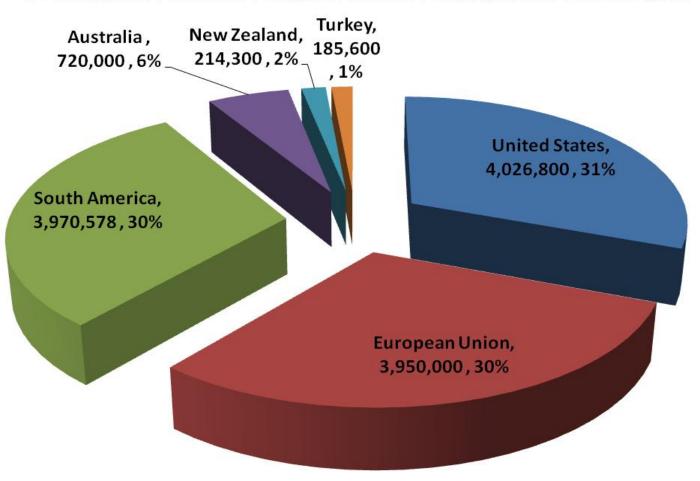
WRO Rendered Products



Rendered Animal Protein Meal [MBM or PAP] and Rendered Animal Fats [Tallow]



Processed Animal Protein Meal Production Estimates



Total Global Production: 13+ million metric tons



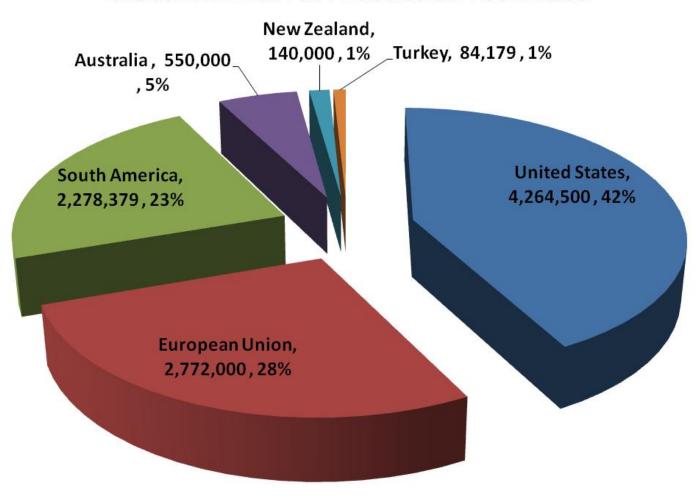
Protein Meals

- Processed Animal Proteins
- 50% Meat & Bone Meal
- Porcine Meal
- Poultry By-Product Meal Feed Grade
- Poultry By-Product Meal Pet Food Grade
- Feather Meal
- Blood Meal
- Greaves Meal
- Fish Meal





Global Animal Fat Production Estimates



Total Global Production: 10+ million metric tons



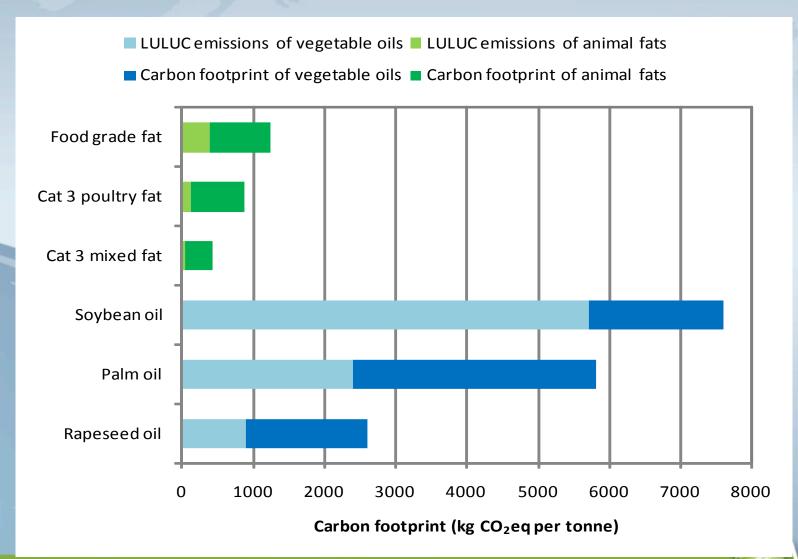
Rendered Fats & Oils

- Edible Tallow
- Edible Lard
- Tallow, Bleachable Fancy Tallow (BFT)
- Choice White Grease (CWG)
- Poultry Fat (PF)
- Yellow Grease (YG) (UCO)
- Brown Grease
- Listed in order of highest quality and price to lowest.





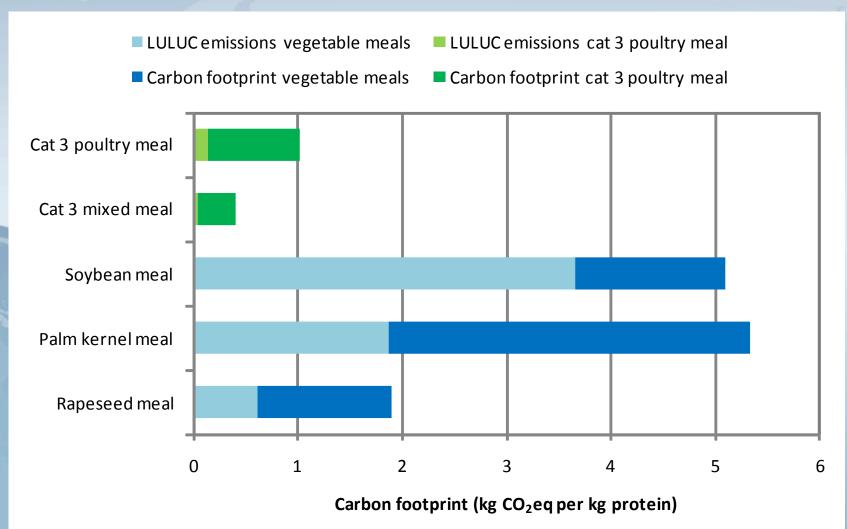
CFP of different fats and oils



Source: Hans Blonk, EFPRA Congress 2010



CFP of different proteins



Source: Hans Blonk, EFPRA Congress 2010



Focus on key areas

- ✓ Biosecurity: Key step for reducing the potentialfor livestock diseases
- ✓ Nutrition: Optimum for farmed livestock & companion (pet) animals
- ✓ Environment: Minimise environmental pollution of the air, water, earth.
- ✓ Sustainability: Maintain the natural production capacity without adverse environmental impact
- **✓ Biofuels: Utilisation non-(human food)resources**



Thank you

Contacting WRO

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