

Drs. Jan van der Velden

(EVP - International Rendering

and Specialties Darling Ingredients)





WHO ARE WE?







DARLING INGREDIENTS: CREATING SUSTAINABLE FOOD, FEED AND FUEL INGREDIENTS

200+

locations worldwide Operations on

continents...

...in 18 countries Irving TX

headquarters in USA

136+

years in business ~10,000

employees internationally \$3.7 billion

2017 sales revenue

DAR (NYSE)

publicly traded since 1994

Industries served:



Food



Pharma



Feed



Pet food



Fuel



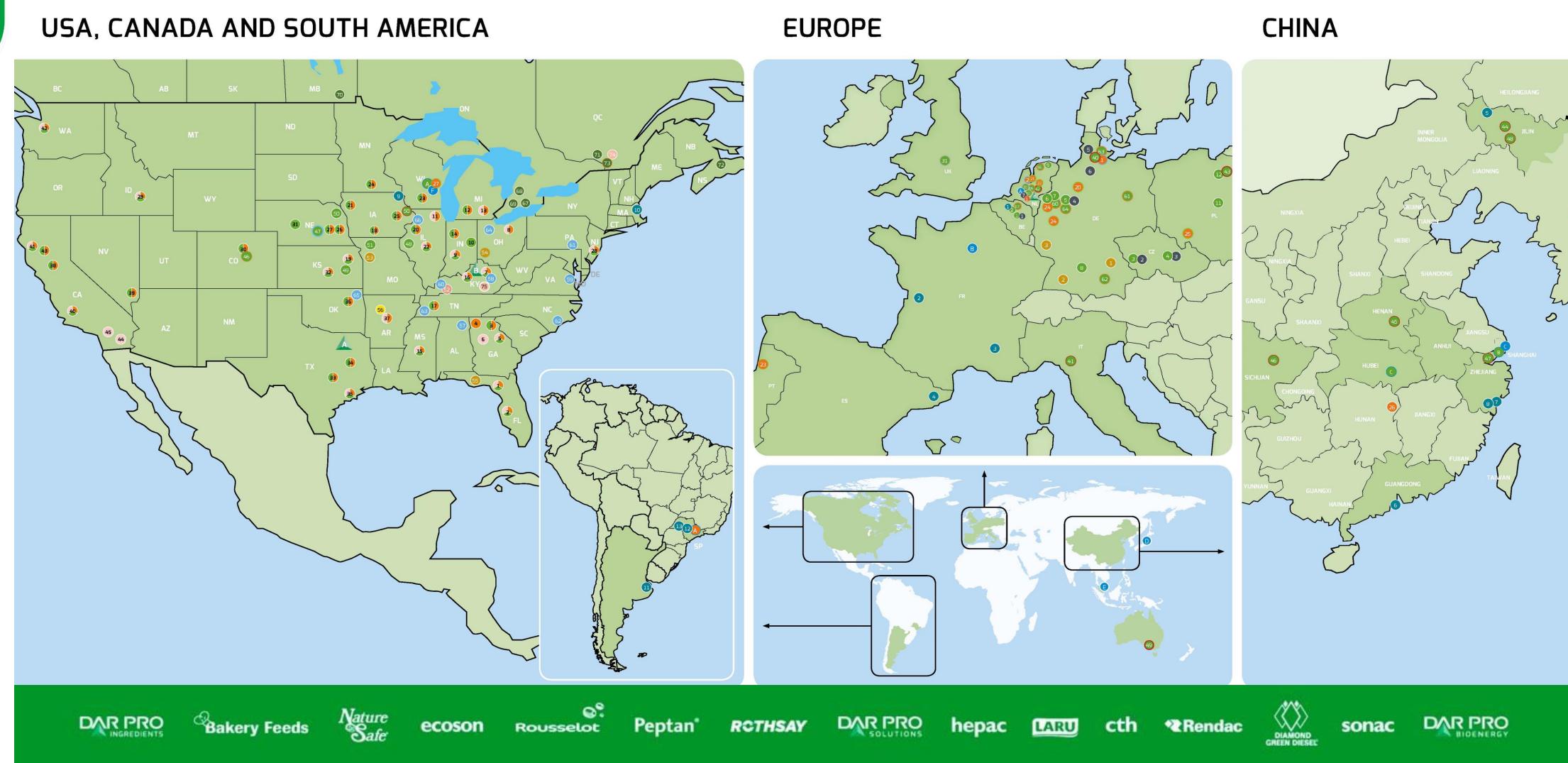


Bioenergy Technical Fertilizer Foodservice





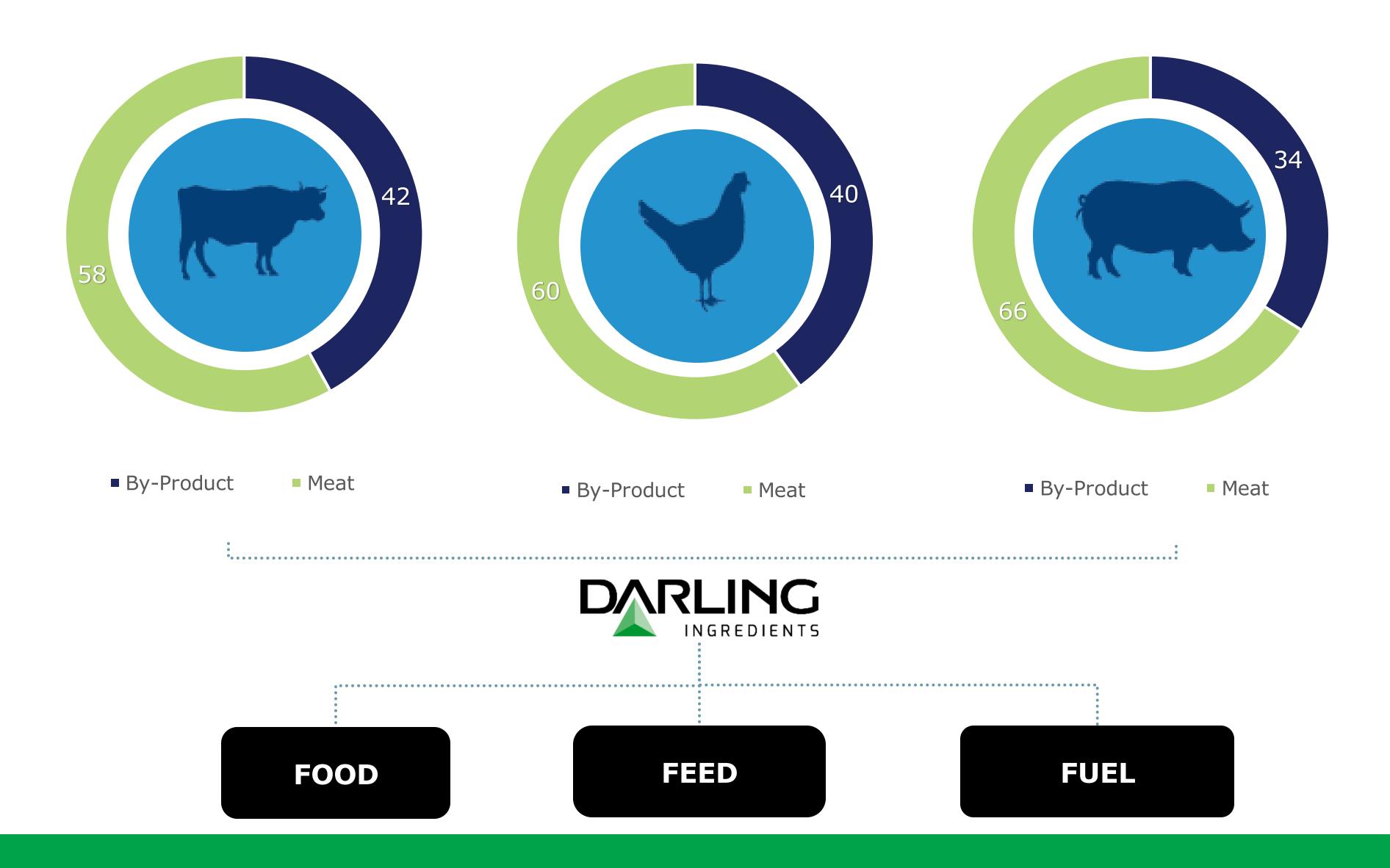








OUR CORE BUSINESS







UNIQUE PORTFOLIO

OFFERING A DIVERSIFIED AND







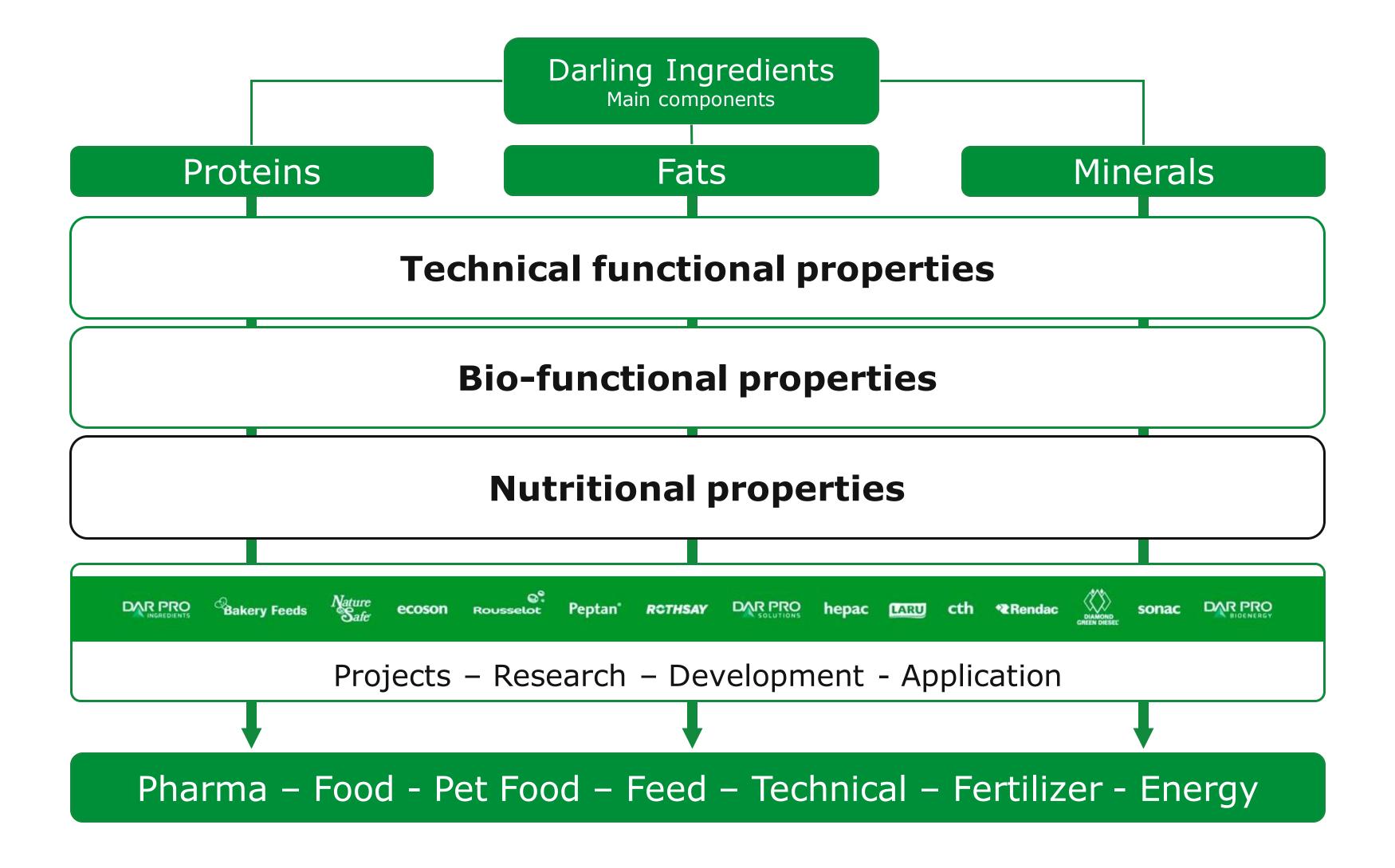
Darling Ingredients: BROADEST INDUSTRY PRODUCT PORTFOLIO!





GLOBAL LEADERSHIP IN RESEARCH & DEVELOPMENT









OPTIMIZING NUTRITION AND HEALTH: CASE



MucoPro® - improved feed intake of young animals

- Type of product
 - Hydrolyzed protein with high content of amino acids and peptides
- Raw material
 - Porcine mucosal tissue from intestines
- Application
 - Feed: Mainly for piglets around weaning

Innovation

Scientific studies confirm reinforcement of gut defense system and improved feed intake of young animals

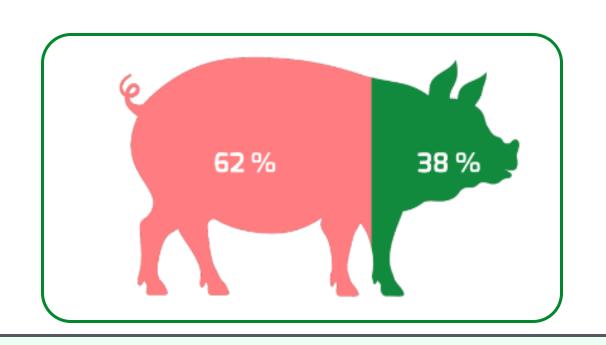






VERSATILITY OF A PIG





Bones Gelatin Ash Fat

Lard **Protein**

Blood Purified fat Hemoglobin Plasma **Fibrin**

Skin Gelatin Fat

Guts Casings Heparin **Peptones**

Hair **Fertilizer** **Byproducts Protein** Fat

Manure Rejects Meal **Biogas Biophospate** Fat





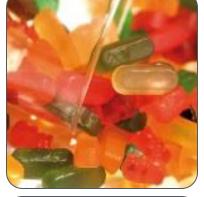




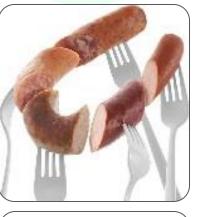










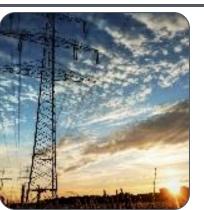


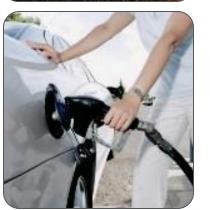




















OPERATING GLOBALLY...









SONAC, A DARLING INGREDIENTS BRAND: OPERATING GLOBALLY















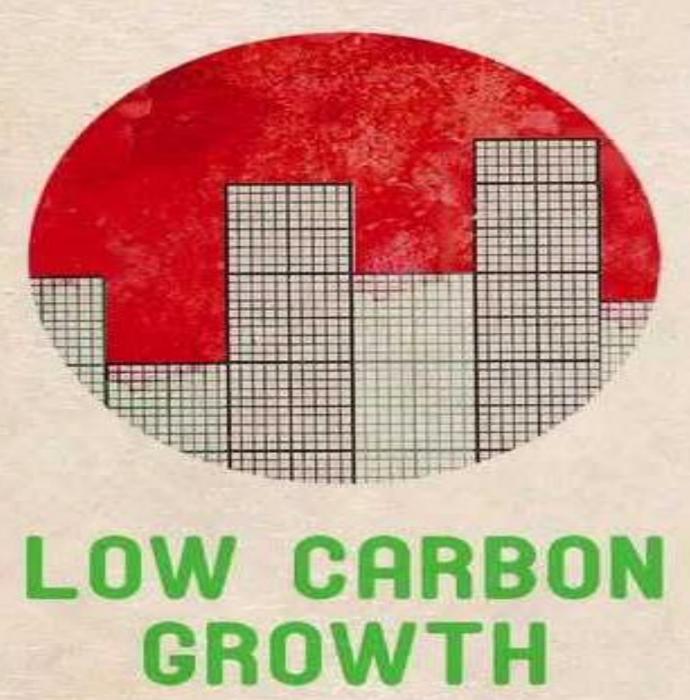
- The world leader in the production of ingredients from animal origin
- Operating locations on five continents.
- Seeing what others cannot see!
- Global marketing & sales system with dedicated local support.
- Global R&D and technical sales support organization
- Broad product portfolio means "One-stop shop"



SUSTAINABLE BENEFITS









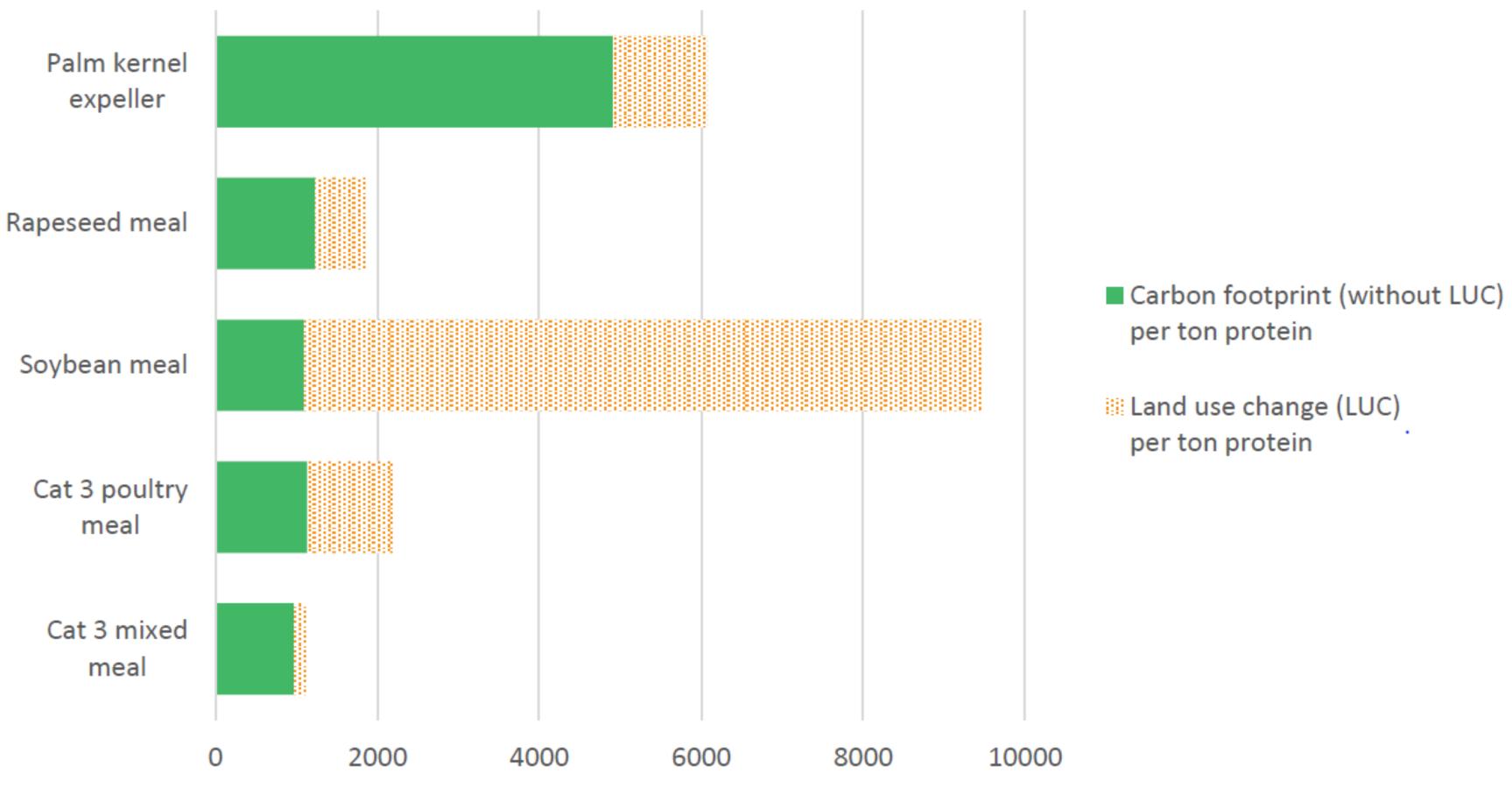
EFFICIENCY



SOCIAL
INCLUSIVITY



CARBON FOOTPRINT OF SONAC CAT 3 MEAL



Carbon footprint and land use change emissions of cat 3 animal and vegetable meals (kg CO_2 eq per ton of protein)

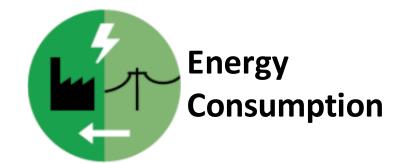


WORLD OF BENEFITS

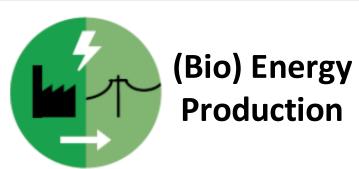
HERE GOES A HEADING

WORLD OF BENEFITY HG EMISSION METRICS

CONSUMPTION (Used)



CONTRIBUTION (Produced)







GHG Emissions



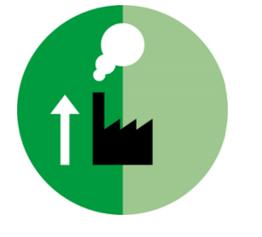
Raw Material Carbon Capture





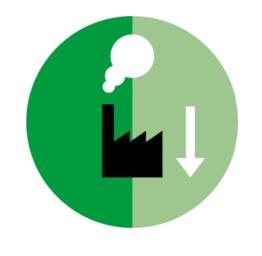
Water Production

FOSSIL FUEL EMISSIONS



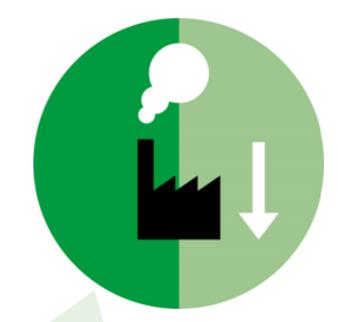
1.7 Mln metric tonnes CO₂e emissions

RAW MATERIAL CARBON CAPTURE



5.3 Mln metric tonnes CO₂e emissions avoided

NET CARBON FOOTPRINT



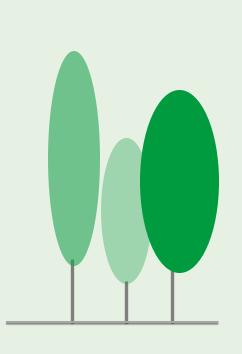
3.6 Mln metric tonnes
CO₂e emissions
avoided

3.6 MIn MT

of net AVOIDED emissions =

a CO₂ equivalent of planting

165 million trees







IMPROVING SUSTAINABILITY



REDUCING CARBON FOOTPRINT



RESPECTING NATURAL RESOURCES



INCREASING PRODUCTION EFFICIENCY





OPERATING GLOBALLY



PRODUCING HEALTHIER ANIMALS



REDUCING ANTIBIOTIC USE



IMPROVING FEED EFFICIENCY