



**allergen-free & clean-label
solutions**



**Discover our
gluten-free
rice, pulses
& cereals
ingredients**

Herba Ingredients

Arjan Geerlings



Ebro Foods

- Subsidiaries distributed over 25 countries in Europe, America, Asia, Northern Africa and a portfolio of over 60 brands.
- World leaders in the branded rice sector, the second branded pasta manufacturer worldwide.
- Focused on the development of added value applications for the retail and industrial markets.
- Very strong position in Europe and North America
- Quoted on the Madrid Stock Exchange Market

Ebro





Herba **Ingredients**

- Leading European rice, pulse and quinoa ingredient producer
- Wide range of production technologies
- IFS, Halal, Kosher, non-GMO, and Bio certificates available
- Supported by:
 - **Own rice fields in Spain**
 - **In house R&D departments and pilot plants**
 - **Big in house buffer stocks and raw material access**





European rice & pulse production locations



Liverpool, UK

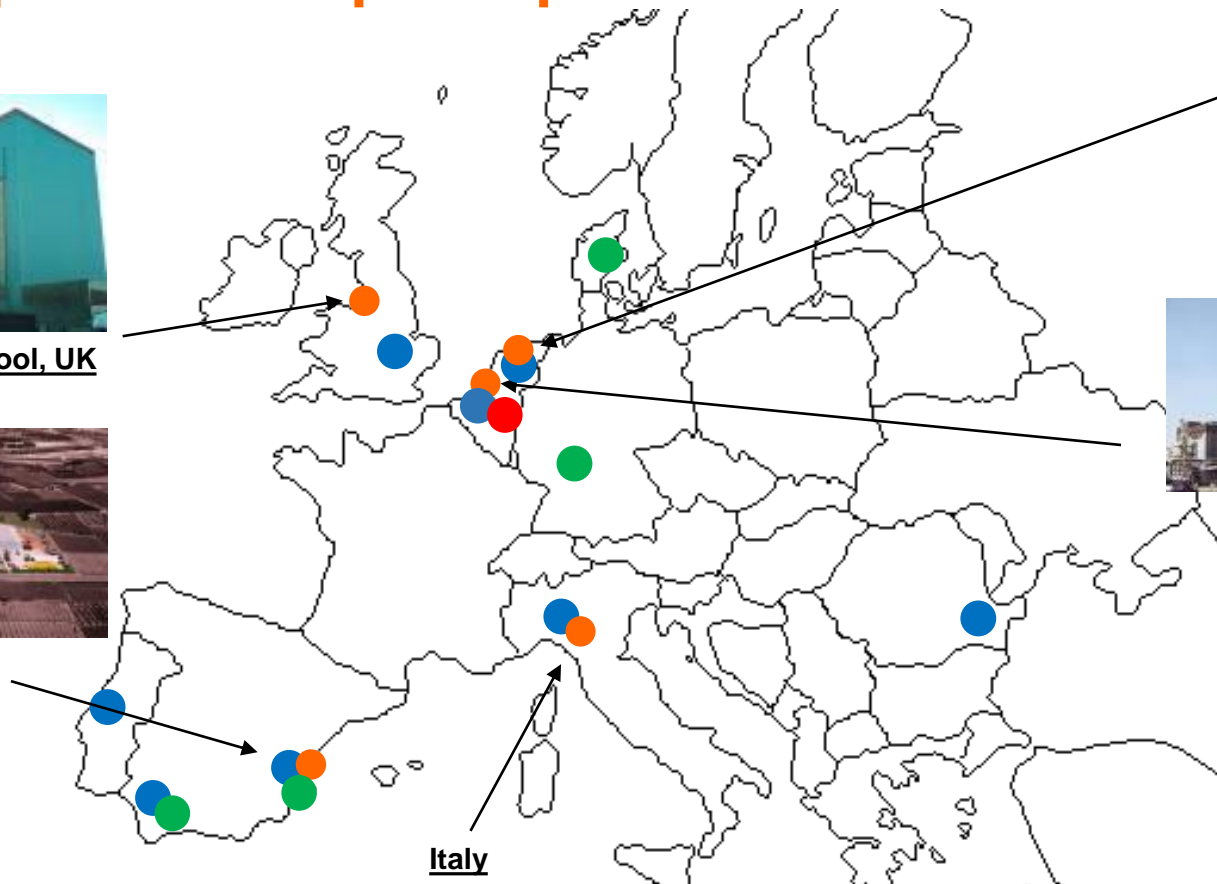
Netherlands



Belgium (3x)

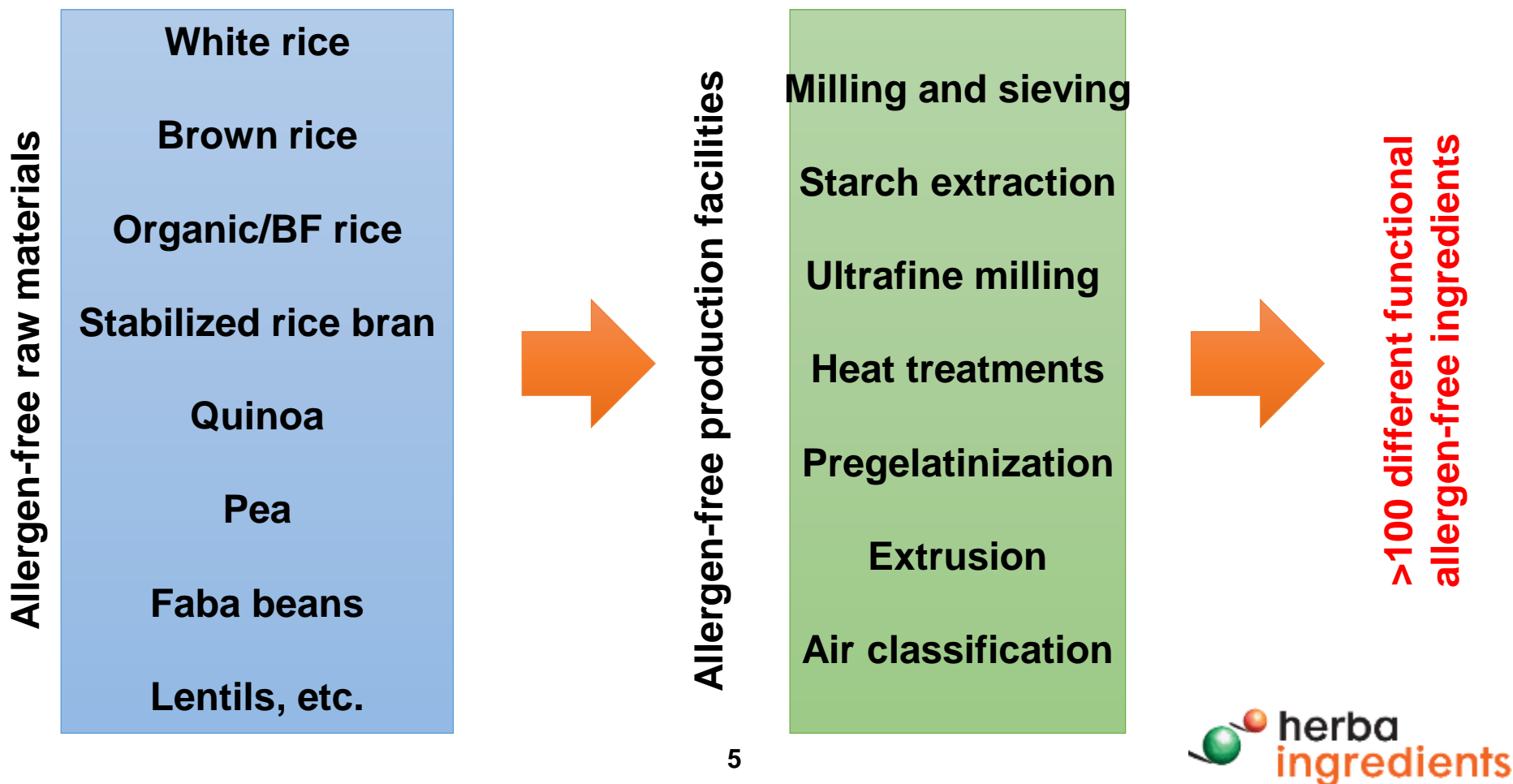


- Rice Mills
- Rice flour mills
- Rice RTE
- Pulse fractionation





Different in-house technologies





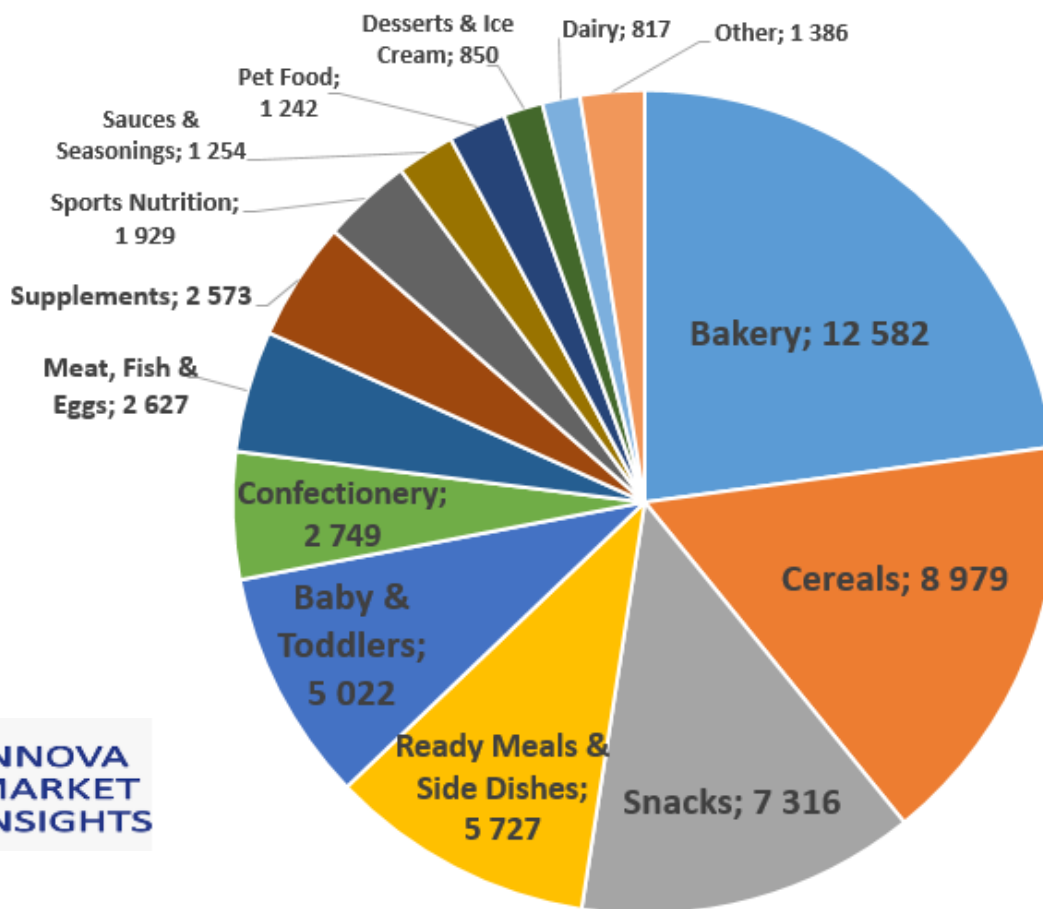
Why rice ingredients?

- o Good image
- o Broad range of functional properties:
 - o Thickening & stabilizing
 - o Texture enhancement
 - o Carrier
 - o Anti-sticking
 - o ...
- o Bland taste & neutral color/appearance
- o GMO-free
- o Allergen-free, ideal for gluten free foods
ao.
- o Affordability
- o Clean label natural solution
- o Excellent digestibility
- o Reduces acrylamide formation
- o Whole grain solutions





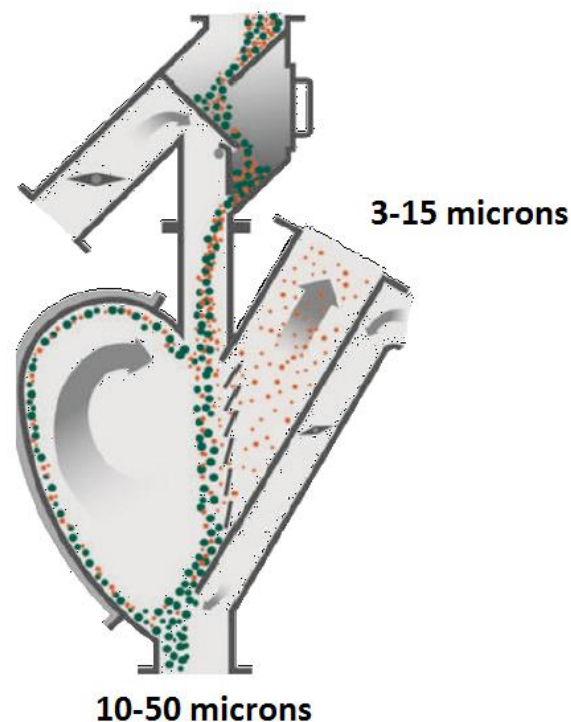
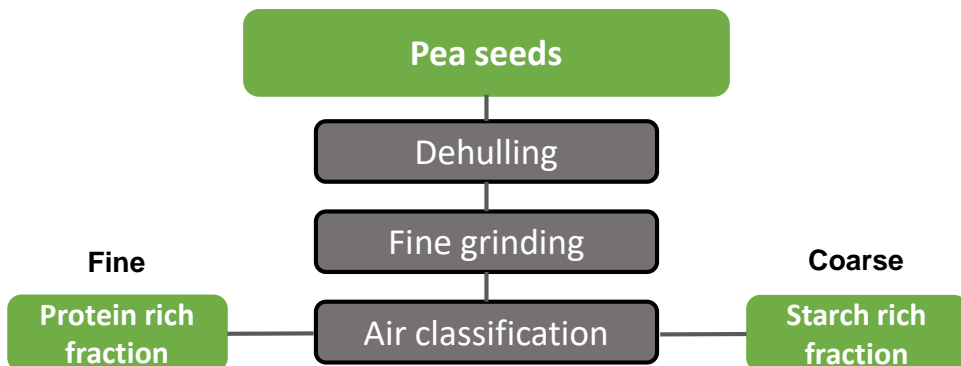
Product launches containing rice flour in the last 5 years





Concentrates

Physical separation of starch and protein



Concentrates

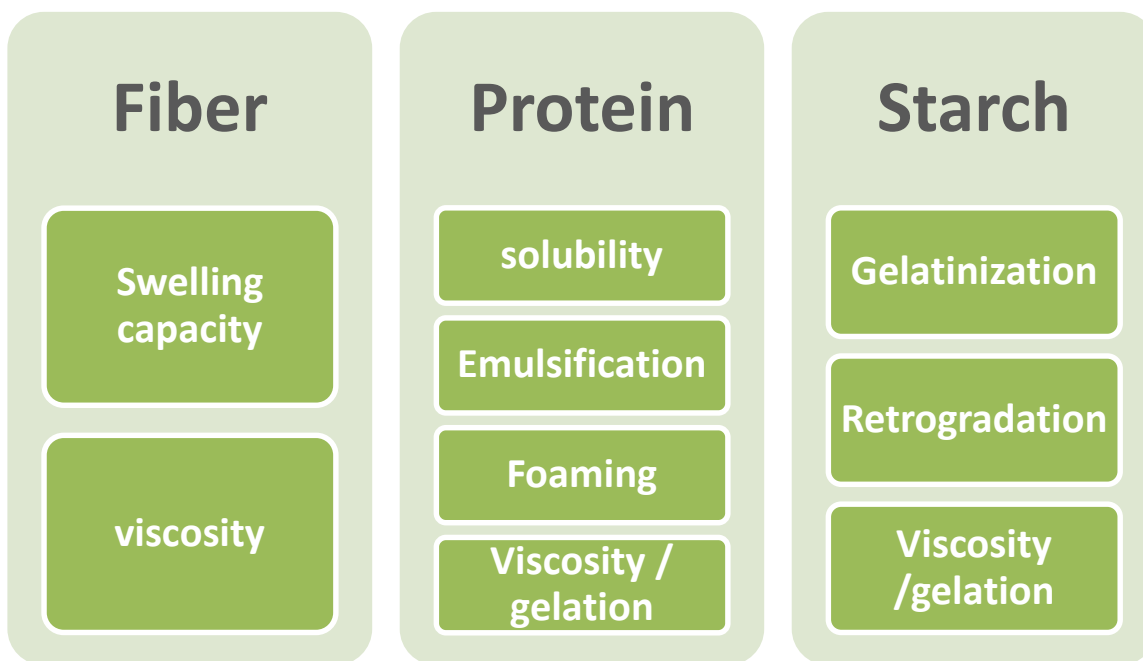
- No chemicals needed
- No water usage
- No drying energy needed
- Protein concentrates of 55% and 65% for pea and faba bean respectively
- Starch fractions with 12-15% protein

Isolates

- Separation using chemicals
- High water usage for rinsing
- Higher energy need to dry
- Protein isolates of 80%+ protein

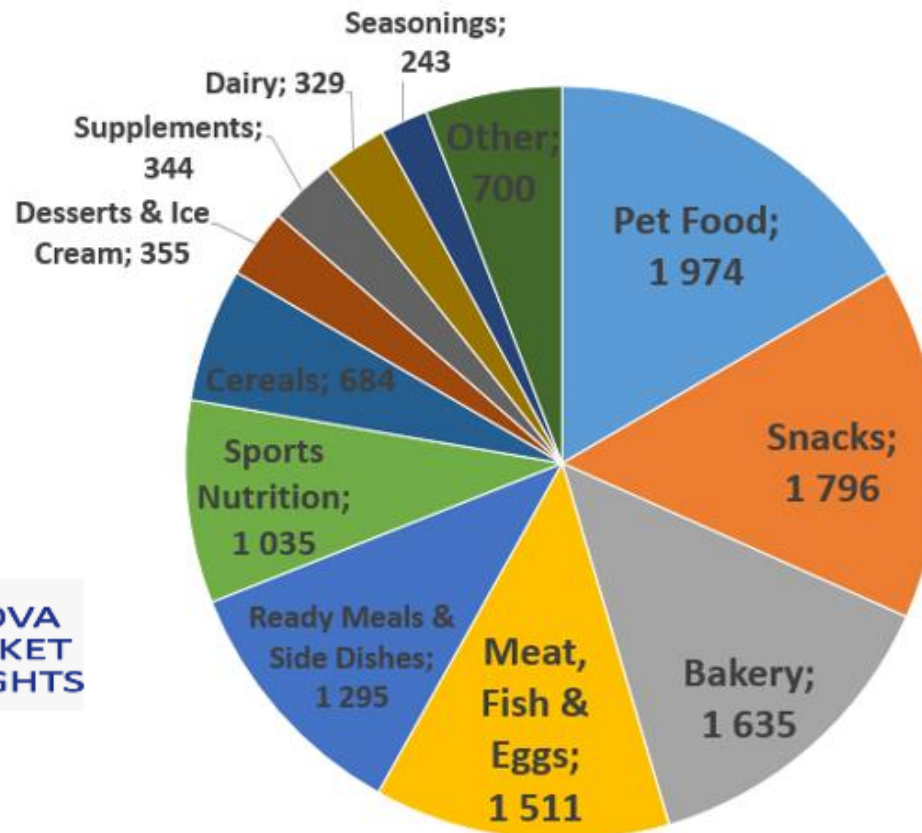


Functionality of the fractions





Product launches containing Pulse flours and concentrates in the last 5 years





Pulse ingredients



HerbaPULS®
Native pulse flours
& starch
concentrates



HerbaPRO®
Pea & faba bean
protein range



HerbaRICH®
Pea & faba bean
flour (also quinoa
flour)



HerbaGEL®
Instant precooked
pulse flours



HerbaTEX®
Texturized
vegetable protein



Yellow Pea Fibre



HerbaRICH®
Pea & faba bean
flour (also quinoa
flour)

- Outer pea fibre (>80% total fibre)
- From the hull of the pea
- Used for nutritional enrichment, water binding and bulking (cookies, snacks, meat

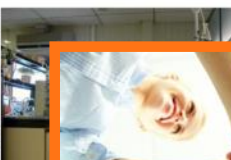
Chemical composition

Chemical composition	% (d.b.)
Crude fiber	57,1
TDF	88,1
Soluble fiber	4,5
Insoluble fiber	83,6
Lignin	1,1
Cellulose	62,6
Hemicellulose	12,1
Insoluble pectins	7,8





Happy to walk the journey together!






Thank you



Contact us

Herba Ingredients BV
Lassiestraat 1
1531 MG Wormer
The Netherlands



www.herbaingredients.com

info@herbaingredients.com

Tel. +31(0) 756 471 280

Fax +31(0) 756 471 281