



The Global Market For Plant Proteins - Competition With Dairy 2017-2021

Published February 2018



1. Introduction

2. Production of plant proteins

3. Key players and applications

4. Consumer product trends

5. Market outlook and future market trends

6. Conclusions and threat to dairy

7. Appendix





Methodology for Research - Data Sources and Abbreviations

The building input blocks of this report:

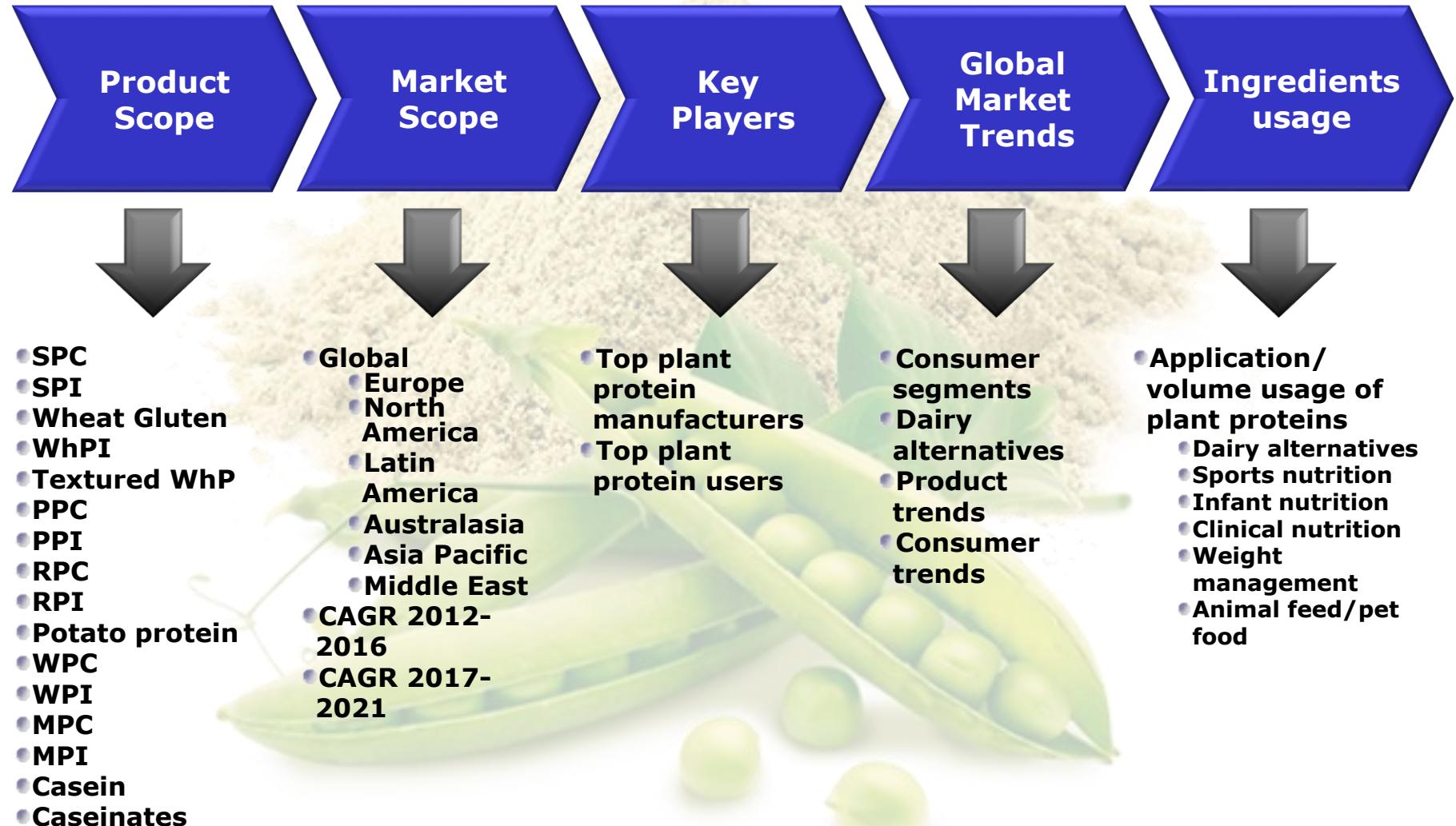


Abbreviations:

CAGR	Compounded Annual Growth Rate
EUR	Euro
LATAM	Latin America
MEA	Middle East and Africa
MPC	Milk Protein Concentrate
MPI	Milk Protein Isolate
MT	Metric Tonne
NA	North America
PoPI	Potato Protein Isolate
PPC	Pea Protein Concentrate
PPI	Pea Protein Isolate
RoW	Rest of World
RPC	Rice Protein Concentrate
RPI	Rice Protein Isolate
RTD	Ready-To-Drink
SPC	Soy Protein Concentrate
SPI	Soy Protein Isolate
USD	US Dollar
WhPH	Wheat Protein Hydrolysate
WhPI	Wheat Protein Isolate
WPC	Whey Protein Concentrate
WPI	Whey Protein Isolate



Market Research Approach



Global soy protein market size and trends and major producers of soy protein

Production volume by ingredient, 2016



Soy ingredient	Price range
Soy flour	USD xxx per MT
Soy protein concentrate	USD xxx per MT
Soy protein isolate	USD xxx per MT

Company	Estimated share of nutritional markets
DUPONT	30%
ADM	25%
DSM	15%
Others	30%



- Headquartered in France, with EUR 3.3 bio. in annual sales, Roquette is the world's major producer of pea protein, marketed under the **Nutralys brand**
- In January 2017, Roquette announced a USD 300 mio. investment in what they report will be the world's biggest pea protein plant, located in Canada (Manitoba), where 30% of 4,000 MT produced in 2016 global pea protein production takes place. Production begins in 2019
- In June 2017, Roquette announced a further EUR 40 mio. investment in its Vic-sur-Aisne (France) plant to expand production of pea protein
- By 2019, the **Manitoba** and **Vic-sur-Aisne** plants will have a combined pea processing capacity of around **250,000 MT annually**, according to Roquette
- In addition to pea protein, Roquette also markets **wheat protein hydrolysates** under the **Nutralys** brand as well as **corn** and **potato protein** under other brands

Detailed company profiles and product portfolios

Roquette protein brands

Pea, Wheat, Potato, Corn and Algae Protein

Product	Application(s)
NUTRALYS PEA F	Food and nutritional
NUTRALYS PEA S	Food and nutritional
NUTRALYS PEA XF	Clinical, sport and weight management nutrition
NUTRALYS PEA T	Bakery
NUTRALYS WHEAT W	Bakery/cereal, confectionery, dairy, pet, food, sports nutrition
NUTRALYS WHOLE WHEAT	Baked and fish food
VITEN WHEAT wheat gluten	Calf milk-replacer
GLUTALYS corn protein	Animal feed
TUBERMINE potato protein	Animal feed, fermentation
Algility chlorella	Functional foods and weight management

Source: Roquette



Global protein production - plant and dairy proteins

Global dairy and plant protein volumes 2016



Dairy and plant protein
production volumes and
prices

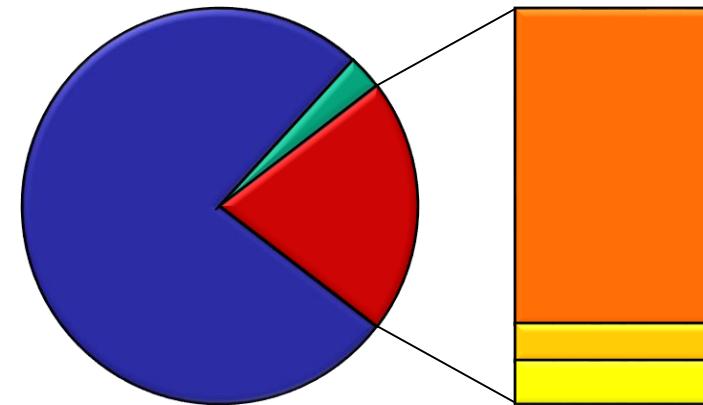
World food market dairy and plant protein prices



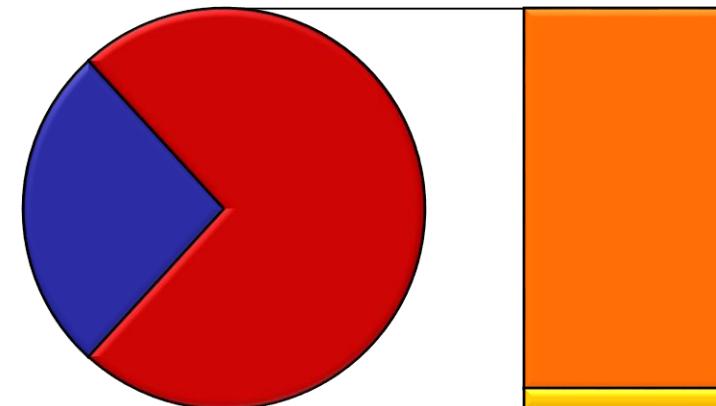
Source: 3A Business Consulting

Plant and dairy protein application volumes and trends

Soy protein isolate applications



Soy protein concentrate applications



New product launches / consumer product trends - Whey Protein Concentrate (1)

Historic development

- Between 2011 and 2016, **8,937 new products** containing whey protein concentrate were launched
- North America** was the most active region, accounting for **more than half** of product launches containing WPC
- The number of products launched with WPC between 2011 and 2016 has grown by **16%** annually on average

New product launches with plant based protein and dairy ingredients

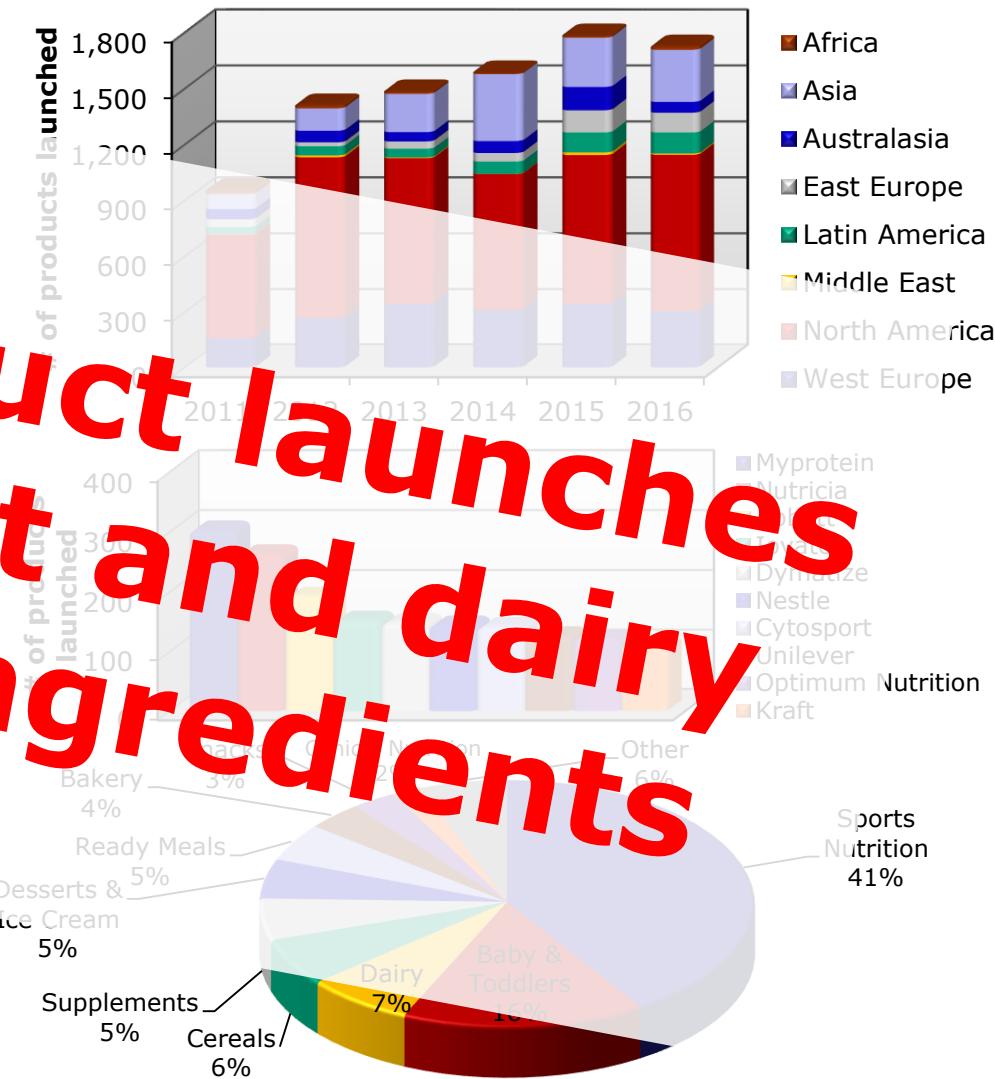
Most active companies

- The most active companies in terms of product launches with WPC have been **nutritional companies**. **Myprotein** has been the most active company, followed by **Nutricia**
- The 10 companies listed below collectively account for **21%** of product launches with WPC between 2011-2016

Major application segments

- The sports nutrition segment** has seen the most new product launches with whey protein concentrate followed by **infant formula**
- Several product launches with WPC is also seen in a wide range of food categories as well as in **supplements** and **clinical nutrition**

Source: Innova Market Insights



New product launches / consumer product trends - Whey Protein Concentrate (2)



Company: Myprotein

Date: April 2016

Category: Sports nutrition

Ingredients: Whey protein concentrate (96%), emulsifier, flavoring, sucralose

New product launches with plant and dairy protein ingredients



Company: Nutricia

Date: November 2016

Category: Baby formula/milk
Ingredients: Lactoalbumin hydrolyzed whey protein concentrate, vegetable oils, galactooligosaccharides etc.



Company: Abbott

Date: January 2016

Category: Baby formula/milk

Ingredients: Skimmed milk, lactose, vegetable oils, **whey protein concentrate powder**, maltodextrin, GOS, phospholipid etc.



Company: Iovate

Date: January 2016

Category: Sports nutrition

Ingredients: Protein blend (*micellar whey, whey protein concentrate, whey protein isolate, whey protein isolate 97% whey protein hydrolysate*)



Company: Dymatize

Date: February 2016

Category: Sports nutrition

Ingredients: Maltodextrin, protein blend (**whey protein concentrate, milk protein isolate, whey protein isolate, whey protein hydrolysate etc.**)



Company: Kraft

Date: October 2016

Category: Cheese

Ingredients: Milk, water, **whey, whey protein concentrate, canola oil, maltodextrin, salt, sodium phosphate etc.**



**Historic and forecasted
growth of respective
dairy and plant
proteins**

CAGR 2012-2021



Final assessment competition between plant and dairy proteins

Sports Nutrition

Weight Management

Dairy & Dairy Alternatives



Global Plant Protein Report – project management and costs

Team

3A Business Consulting team:

- Managing partner - Tage Affertsholt
- Junior consultant – Daniel Pedersen

Time

Report available in PDF format – in total approx. 100 slides – from February 2018

Cost

EUR 4,700

