

The Smart Protein project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862957

Smart Proteins - Research Developments, Consumer Insights and Market Trends on Plant Protein Foods in Europe

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What is the Smart Protein Project?

One of the most **innovative** plant-based projects

A collaboration of **33 partners** from more than **20 countries**

4 years in duration (2020-2024)

An **EU-funded**research project
(Horizon 2020) with a
€9+ million budget

Objective: *innovative, cost-effective, and resource-efficient EU-produced plant proteins from:*



Chickpeas, lentils, quinoa, & fava beans

Innovative protein products from plants



Yeast and fungi

New protein ingredients



Byproducts from pasta, bread, & beer

A **circular economy** will be created by upcycling side streams

What is the Smart Protein Project?



Stakeholder Advisory Board

Agricultural networks









Investment and business development





Research, advisory body or NGO

Farm Transformation Institute







Food and Beverage Production













ROQUETTE













consumer interest and insight

Retailer and







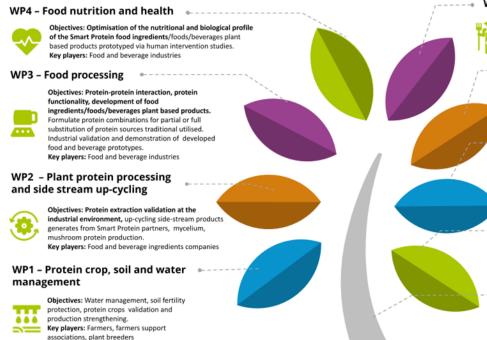






HERBALIFE

Smart Protein Strategy



WP5 - Exploitation & business development

Objectives: Assessment of the commercial feasibility and safety of protein channels through its live interaction among the WP1-WP4 – Business case-development

Key players: Farmers/Industries/Food retailers, consumers/support, associations

WP6 - Consumer studies

Objectives: Development and implementation of plant-based food and beverage prototypes to enhance consumer's acceptance, consumer readiness, network and promoting activities.

Key players: Food retailers, consumers/support associations

WP7 - Dissemination and communication



Objectives: Disseminate, exploit and communicate the results of the Smart Protein project within and outside the consortium to the public and relevant professional sectors such as food industry, manufacturing and production, food and regulatory authorities.

Key players: Farmers/Industries/Food retailers, consumers/support, associations, policy makers

WP8 - Sustainability Assessment



Objectives: Environmental impact profiles of protein food covering the whole protein food supply chain (from cradle to grave).

Key players: Farmers/Industries/Food retailers,

WP9 - Project management and coordination

consumers/support, associations, policy makers



Objectives: Overall management of the project, establishment of an effective communication infrastructure and foster the integrative process within the consortium, ensure consortium's performance.





Plant-based foods in Europe: How big is the market?

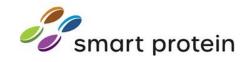


Plant-based products grow strongly

NESTLÉ

Sales in vegetarian and plant-based food grew at a double-digit rate in 2021, reaching around CHF 800 million (€780 million).





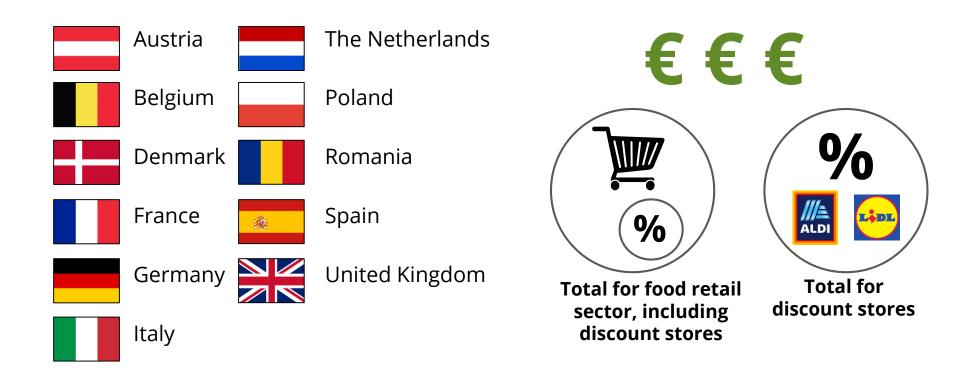


Introduction

"Finally, we get to see the tremendous growth of plant-based food in Europe over the last few periods, shown in concrete numbers."



Sales values across 11 countries



Six food categories





Plant-based meat



Plant-based cheese



Plant-based milk



Plant-based fish



Plant-based yoghurt



Plant-based ice cream





Plant-based sector overview

"The European plant-based-food sector experienced tremendous growth over the last two periods."



Germany had the highest PB sales, followed by the UK. All countries showed huge growth.



Total European plant-based-food sector, by country, for MAT 2020*

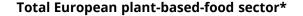


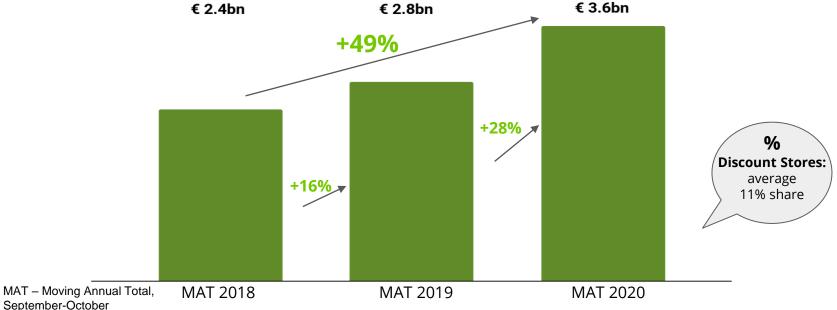
^{*}Total market incl. discounters, AU (Plant-based (PB) meat, milk, yoghurt)+BE (PB meat, milk, yoghurt)+DK (PB meat, milk, yoghurt, cheese, ice cream)+FR (PB meat, milk, yoghurt)+GER (PB meat, milk, yoghurt, cheese, ice cream)+NL (PB meat, milk, yoghurt, cheese, ice cream)+NL (PB meat, milk, yoghurt, cheese)+PL (PB milk)+SP (PB meat, milk, yoghurt)+UK (PB meat, milk, yoghurt, cheese, bakery), sales value in € and growth rates, MAT Sep/Oct (between CW39 and CW42 depending on country) 2020

Source: Nielsen MarketTrack. Note: Keep in mind that not all categories are available in each country! Only comparisons within categories are truly conclusive.

Tremendous growth is visible in Europe - the sector grew by 49% over the last two periods







^{*}Total market incl. discounters, AU (Plant-based (PB) meat, milk, yoghurt)+BE (PB meat, milk, yoghurt)+DK (PB meat, milk, yoghurt, cheese, ice cream)+FR (PB meat, milk, yoghurt)+GER (PB meat, milk, yoghurt, cheese, ice cream)+NL (PB meat, milk, yoghurt, cheese, ice cream)+NL (PB meat, milk, yoghurt, cheese, ice cream)+NL (PB meat, milk, yoghurt, cheese)+PL (PB milk)+RO (PB meat, milk)+SP (PB meat, milk, yoghurt)+UK (PB meat, milk, yoghurt, cheese, bakery), sales value in €, MAT Sep/Oct (between CW39 and CW42 depending on country) 2018 vs. 2019 vs. 2020





Plant-based meat

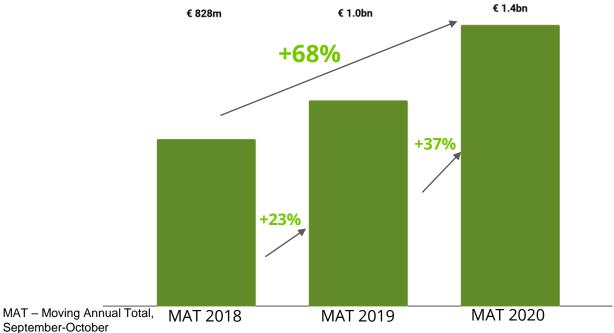
"Growth of 76% over the most recent period in Germany."



The European PB meat sector showed strong double-digit growth, especially in last period.







^{*}Total market incl. discounters, AU+BE+DK+FR+GER+IT+NL+RO+SP+UK, sales value in € and growth rates, plant-based (vegan and vegetarian) meat, MAT Sep/Oct (between CW39 and CW42 depending on country) 2018 vs 2019 vs 2020; Spain only MAT Sep/Oct 2019 and 2020.

September-October

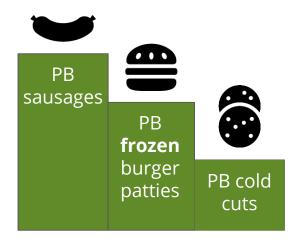
PB sausages, burger patties, and cold cuts lead the sector in the UK and Germany



Top three vegan- and vegetarian-meat market segments in countries with the highest sales value*









Plant-based prepared meats are on the rise.



Plant-based-meat market segments with highest sales value and growth rates*





Already huge sales:



Plant-based refrigerated meat



Plant-based burger patties



Plant-based sausages



Highest growth rates:



Plant-based frozen meat



Plant-based burger patties



Plant-based prepared meats (e.g. nuggets, stir-fry, mince, etc.)



Plant-based sausages





Plant-based milk

"Oat milk is on fire, with huge sales values and growth rates."

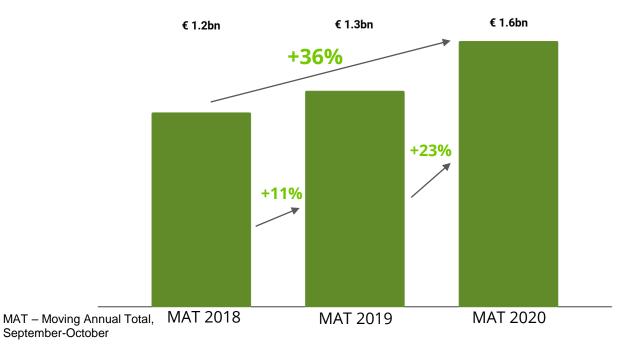


The PB-milk sector recorded huge sales value and / continues to show double-digit growth.





European plant-based-milk sector*



^{*}Total market incl. discounters, AU+BE+DK+FR+GER+IT+NL+PL+RO+SP+UK, sales value in €, plant-based milk (plain and flavoured), MAT Sep/Oct (between CW39 and CW42 depending on country) 2018 vs 2019 vs 2020.

September-October

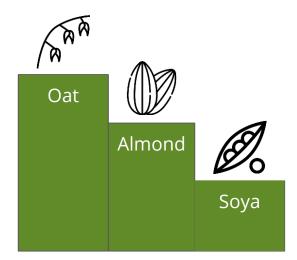
Oat, almond, and soya are the most successful segments in Spain and Germany.



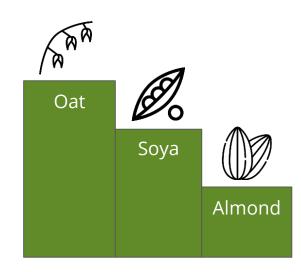


Top three plant-based-milk segments in countries with the highest sales value*









Oat is on fire, leading in sales values and growth rates. There is increasing product variety.



Plant-based-milk segments with highest sales values and growth rates*





Already huge sales:





Soya



Almond



Highest growth rates:



Spelt



Legumes (e.g. pea, lupin)



Almond





Plant-based cheese

"The plant-based-cheese sector is still in its infancy, with huge potential for more varieties in all countries."



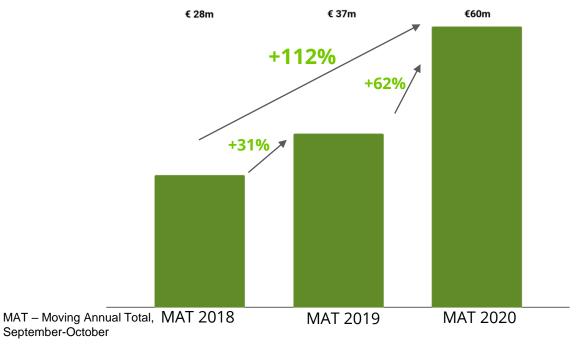
Growth rate doubled in the most recent period, increasing from 31% to 62%.







European plant-based-cheese sector*



^{*}Total market incl. Discounters, DK+GER+IT+NL+UK, sales value in €, MAT Sep/Oct (between CW39 and CW42 depending on country) 2018 vs 2019 vs 2020



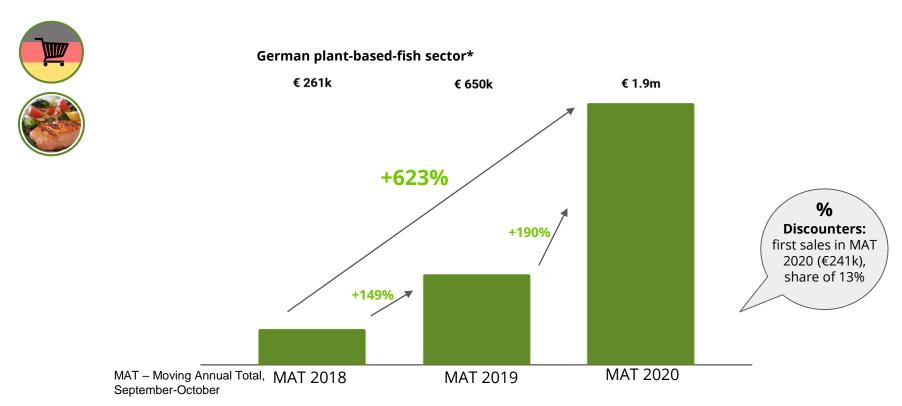


Plant-based fish

"Plant-based fish shows the highest growth rate among all categories in Germany, with 623% over the past two periods."



PB fish showed huge growth and even had its first sales in discounters in the latest period.



^{*}Total market incl. discounters, Germany, sales value in €, plant-based fish, MAT CW39 2018 vs 2019 vs 2020

There is room for improvement in terms of plant-based-fish products.







Nutritional value



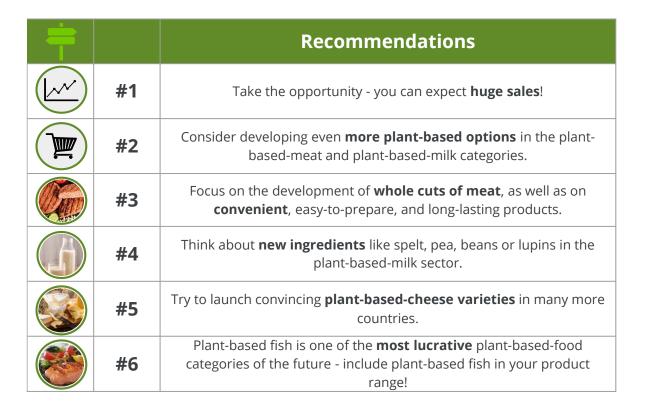


Recommendations

"Plant-based meat, plant-based fish, and plant-based cheese show the greatest potential."



The way forward:



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For more information on the Smart Protein Project and to subscribe to the project newsletter, please visit:

www.smartproteinproject.eu



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https://www.youtube.com/ channel/UCN5w6Tb19DdfK CX5xhdHFgQ

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