

RaboResearch Food & Agribusiness

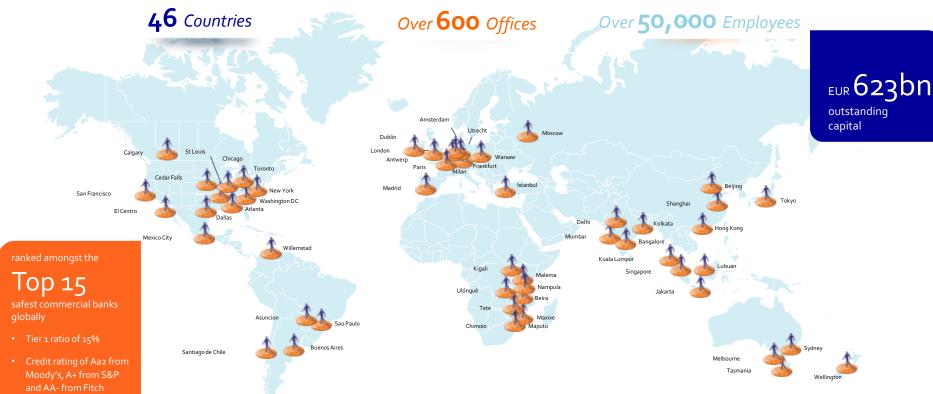






Rabobank: Globally leading food and agribusiness lender and financial services provider

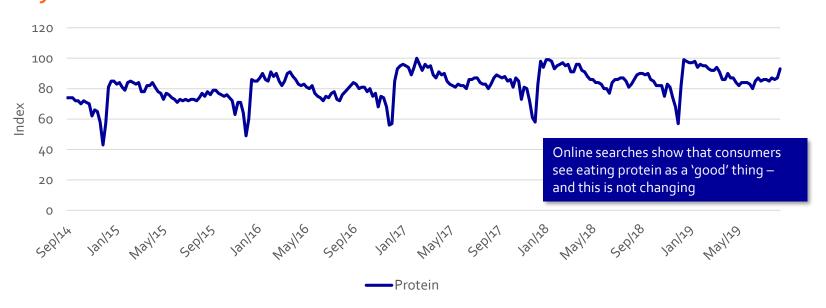




Consumers remain switched on to protein...



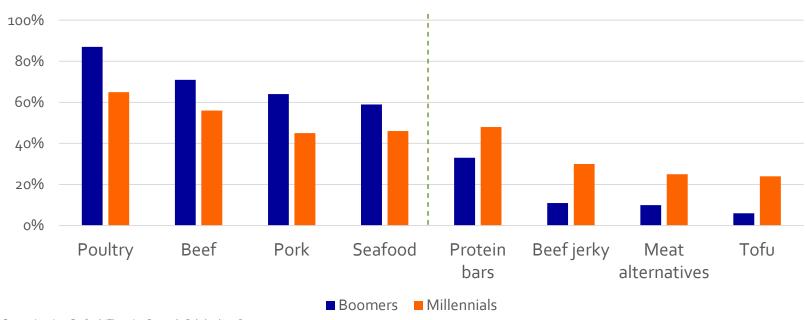
Like clockwork, every year consumers think of protein as one of their good intentions for the year ahead



...but protein preferences are changing



Relative interest of consumers for different proteins: boomers vs. millennials



Re-thinking meat consumption has become a global trend













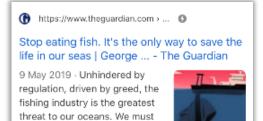






Similar discussions are around seafood production now











take ...







The growth of alternative protein space is sustained by strong drivers at the consumer level



Drivers for the growth of alternative proteins are well understood



Sustainability



Animal welfare



Health and wellness



Uniqueness & novelty

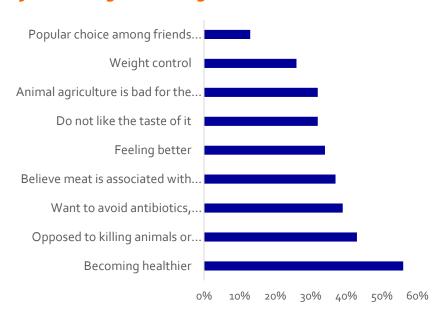


Adaptability & convenience

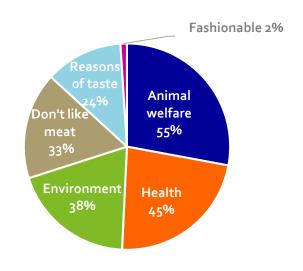
Health and animal welfare concerns around meat consumption motivate consumers to have less meat



For the US consumer, health is the main reason to follow a vegetarian/vegan diet



Animal welfare concerns outweighs health concerns with UK consumers



Barriers also exist for the future growth of alternative protein



These barriers can also be turned into key success factors











Alternatives are currently sold at a premium – similar to seafood



Price per kg of burger patty options

EUR 10 EUR 25 EUR 5 **EUR 15** FUR 20 Private label **Beyond Burger** Private label Black angus burger Vegetarian burger Garden Gourmet Chicken burger Private label Private label Private label Vegetarian burger Salmon burger Vegetarian burger The Vegetarian Butcher Cod burger Vegetarian burger

There is a range of possibilities in alternative proteins, but differences in markets exist



Established Emerging

Traditional Vegetarian **Products** (Tofu / Tempeh / Seitan)

Veggie **Burgers**

Hybrids

Meat and Seafood **Imitations**



Cellular Meat ጼ Seafood































Four types of companies are active in the alternative proteins market





- Leading innovation in the space main strength
- Tend to focus on niches, but evidence show that this can grow





- Innovation has been limited, single digit growth
- Strength is brand, distribution, product development

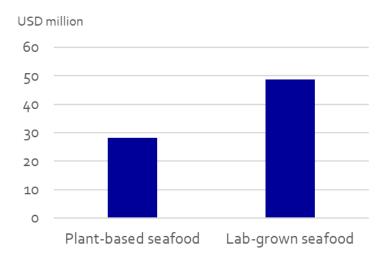


- Brand owners and food retail and foodservice companies all want a slice of the action
- Strength is product developments, capabilities and cost

The size of the seafood alternatives market is smaller than the meat alternatives market



Capital is swimming towards seafood alternatives



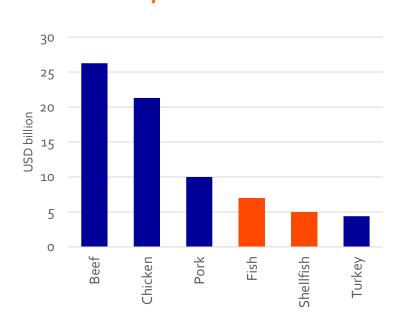




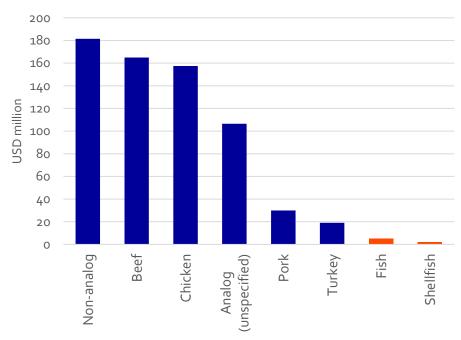
Seafood alternatives currently makes a small fraction of total seafood sales in the US



Animal based proteins



Plant based proteins

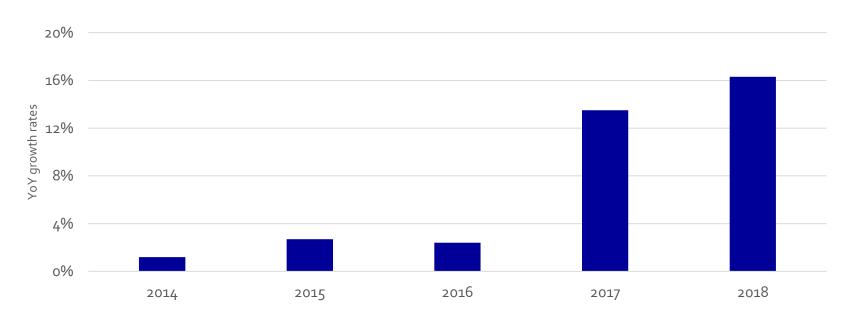


Source: GFI based on Nielsen , Rabobank 2019

The excitement is in the growth in the alternative proteins retail sales



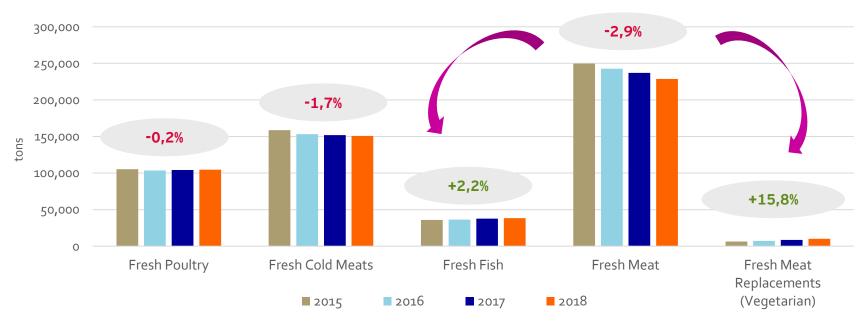
Double digit growth in meat alternatives in the last two years in the US



Also in the Netherlands, the growth of meat substitutes is more relevant than the market size



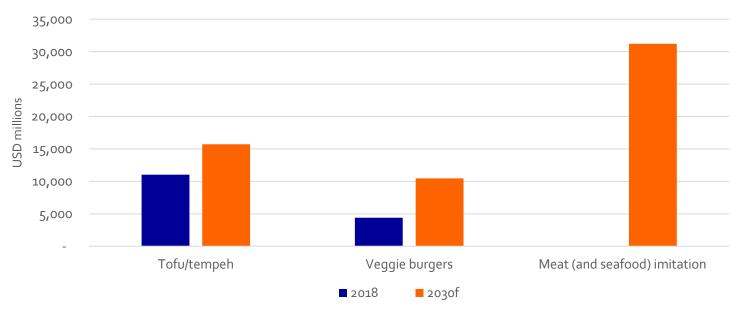
Retail sales of proteins in the Netherlands



Global sales of alternative proteins is roughly equal to USD 15 bn, our forecast is to exceed USD 55 bn



Meat imitation-type products will be responsible for most of this growth



Seafood is generally a well-known substitute to meat – now the seafood sector is facing competition



The share of seafood alternatives is small, but the competition for centre of the plate is getting tougher "Who will steal from the growth of the meat sector?" Alternatives is one answer to consumer concerns, but not the only one Positives around seafood production needs to be emphasized, and negatives needs to be prevented



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