



7,8 billion in 2020

Global population is growing



10 billion in 2050



Global demand for proteins will double by 2050

Environmental impact of Food production is high:



Greenhouse gas emissions (26% of global GHG)



Land use (50% of global habitable land)



Water use (70% of global freshwater withdrawals)



Biodiversity loss (94% mammal biomass is livestock)

Sources: <http://ourworldindata.org/environmental-impacts-of-food>

Need for sustainable proteins:



Microalgae Protein



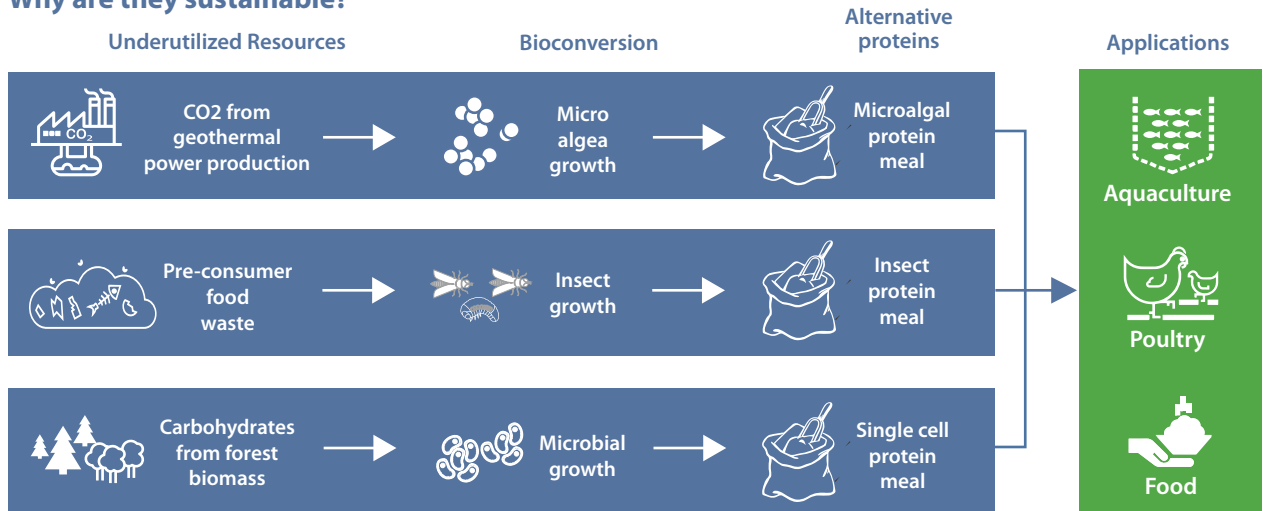
Insect Protein



Single Cell Protein

NEXTGEN PROTEINS

Why are they sustainable?



Why are they not on the market yet?



Production scalability

New process = small batch



Production costs

Small batch = high costs



Value chain risks

Small batch = high risk



Safety

New Proteins = safety check



Regulations

New Proteins = new regulation



Consumer acceptance

New Proteins = new taste & ethics

