



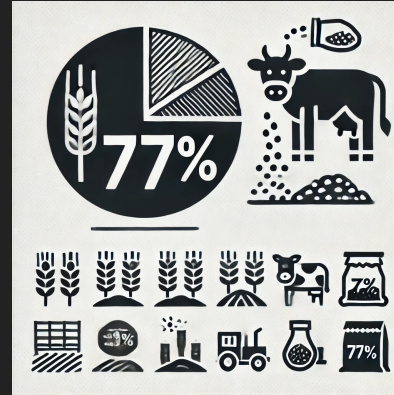
# Revolutionizing Protein Cultivation with OrbiFarm<sup>®</sup> Technology

# The Growing Demand for Protein



## Rising global demand for meat and protein-rich foods

Particularly driven by emerging markets like China, India, and the MENA region



## Increased demand putting pressure on limited agricultural land

77% of arable land is currently used for animal feed production



## Limitations of conventional agriculture

Soil degradation, climate change, and extreme weather events impacting crop yields and food security

**The growing global demand for protein-rich foods is posing significant challenges for conventional agriculture, requiring innovative solutions to ensure food security and sustainability.**

# The Importance of Protein



## Pea Protein: A Versatile Commodity

Wide range of applications including aquaculture, animal feed, pet food, milk alternatives and meat substitutes.



## OrbiFarm®: Innovative Vertical Farming

Novel vertical farming platform for the industrial production of protein-rich food crops at highest yield and quality.



## Growing Pea Protein Market

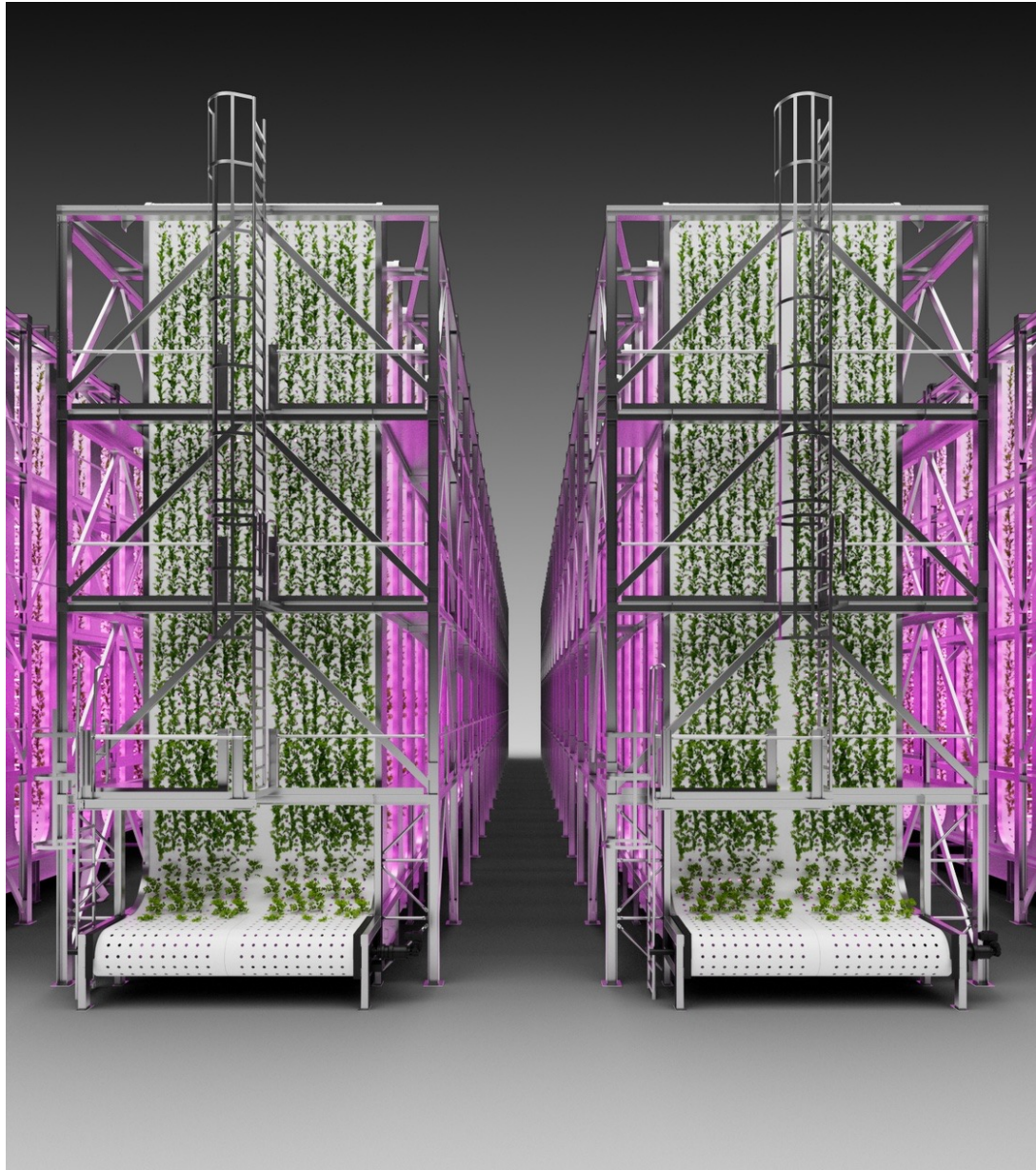
The global Pea Protein market size is USD 650 million in 2024 and will grow to **USD 1,6 billion by 2032.**



## Favorable Plant Phenotype

High density grain pea plant cultivation in OrbiFarm® without any support aid, resulting in curved stem, small height, high biomass volume density, and strong standing stability.

The OrbiFarm® technology has the potential to revolutionize the production of protein-rich crops, addressing food security and sustainability challenges globally.



## **OrbiFarm®**

**OrbiFarm is a groundbreaking vertical farming technology platform for the cost-efficient production of food crops, medicinal plants, and ornamentals at minimal space and resource requirements.**

# The Science Behind Patented OrbiFarm® Technology

unique conveyor belt technology

gravitropism

end-to-end cultivation process

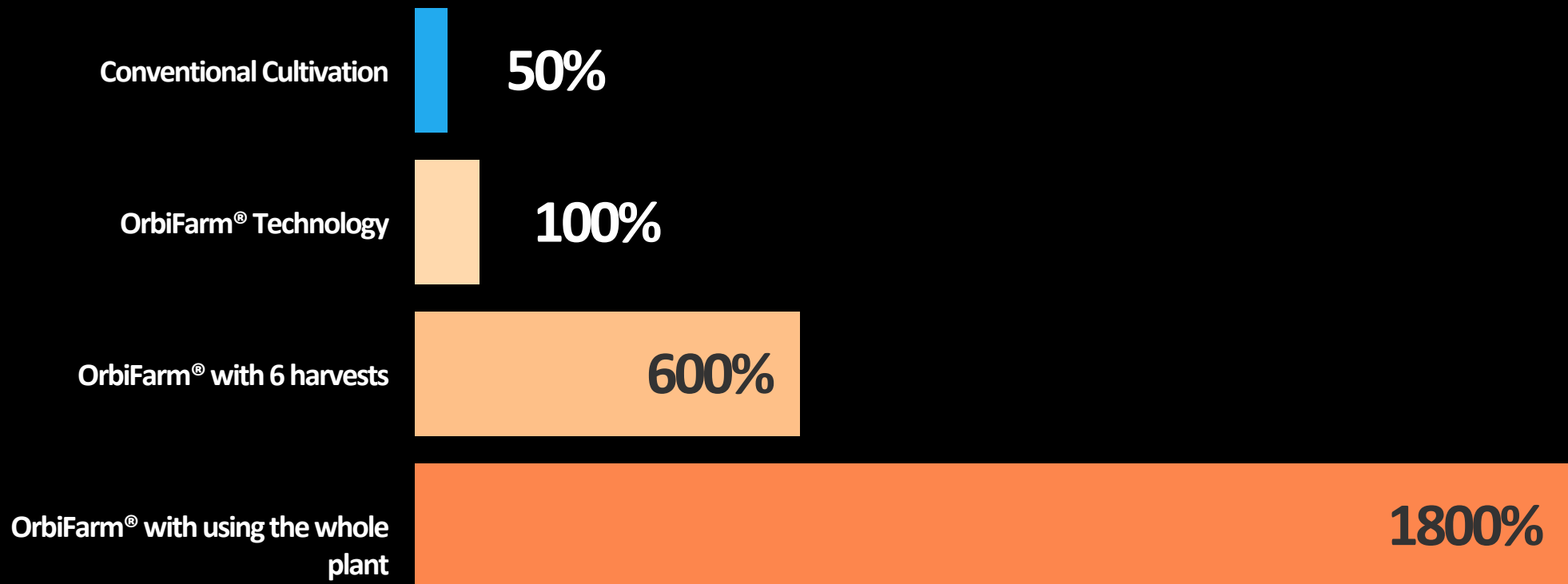
no soil required

aeroponic system



# Advantages of OrbiFarm<sup>®</sup> over Conventional Cultivation

Yield per square meter of cultivation area



# Achievements of OrbiFarm® Technology

## Food Security for All Regions

Ensures food security for all regions, even those with limited agricultural land.

## Staple Food Production Anywhere

Enables the cultivation and availability of staple foods anywhere, regardless of location.

## 100% Safe and Calculable Yields

Delivers 100% safe and calculable cultivation yields.

## No Pesticides Required

Cultivation process does not require the use of any pesticides.

## Climate-Independent Protein Production

Allows for the cultivation of proteins independently of climate, environment, and water resources.

## Integrated Value Chains

Enables seamless integration of cultivation, production, and end-product delivery in a single process.

# Transforming the Future of Food Production



**From Farm to Fork**



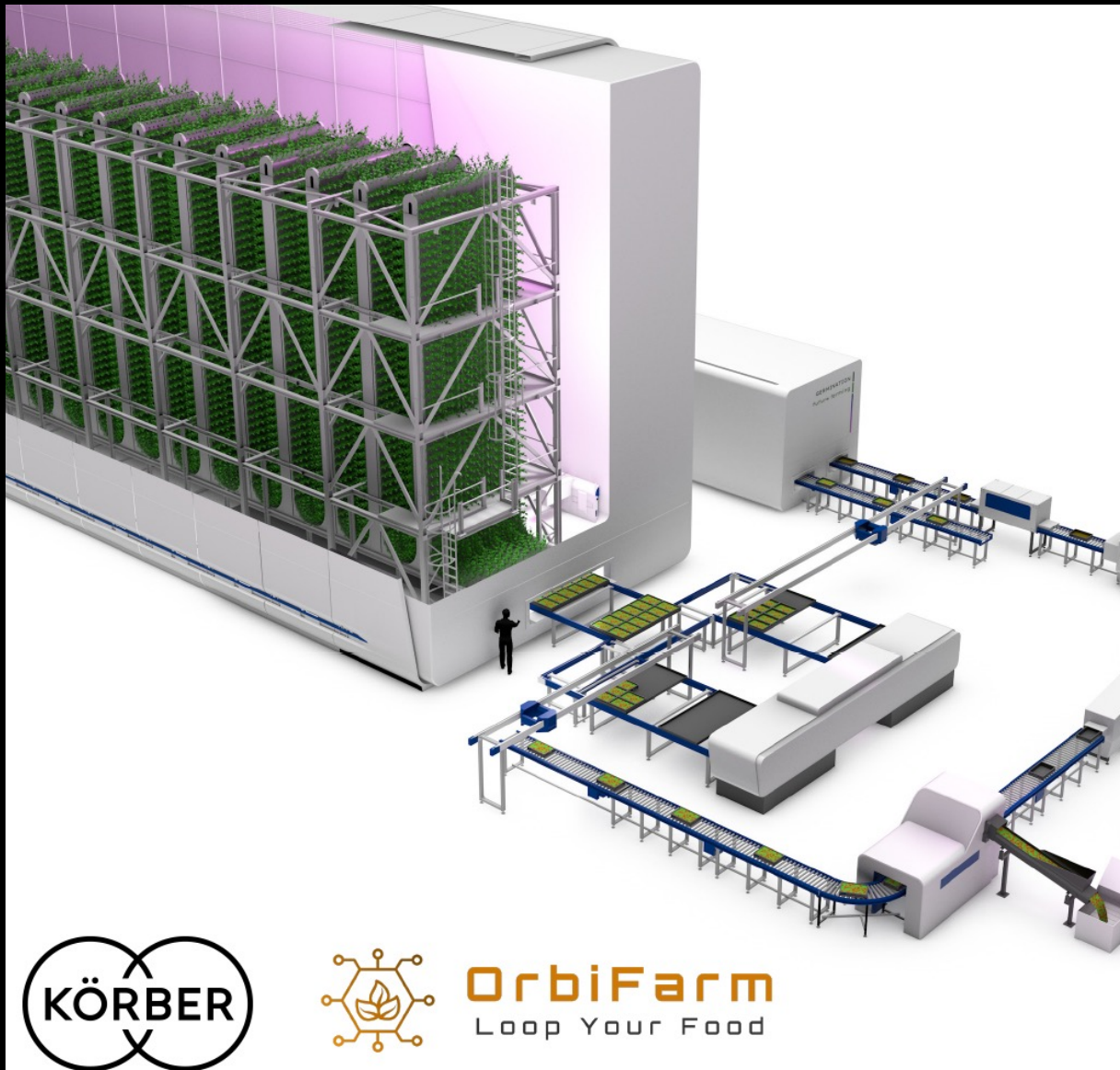
**The cultivation of proteins works independently of climate, environment and water resources**



**Cultivation is economical, reliable and profitable**



**The yields from cultivation are 100% safe and calculable**



## The OrbiFarm® business model

Orbifarm® is a pure license model  
case

license for the construction of the  
systems to Körber Technologies

license fee for all harvested crops

CO2 certificates because the Farm  
processes CO2

# Revolutionizing Protein Cultivation with OrbiFarm® Technology

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