

## Company Purpose



#### ACERON will automatise urban gardening



Development of proprietary technologies for urban agriculture





Partnerships with selected sustainable manufacturers and distributors



Sale under both ACERON brand and private label branding



ACERON wins Bochumer Senkrechtstarter-Wettbewerb (start-up competition) in 2021



Supported by the Bochum Office of Economic Development



**BAFA INVEST-Certification** 



Partnership with Grubenholz Bochum (furniture manufacturer)

### The Team



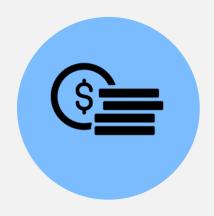


**Christian Vogelsang**Founder & Executive Officer

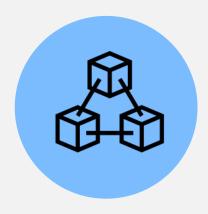


**Alyx A.**Software Engineering & Development

#### **Backgrounds**



**Antonio C.** Finance & Controlling



Quality Management & Product Development



Environmental Engineer Student



IT Student



Controlling Officer



Consulting Engineer

### The Problem



While field cultivation generates significant emissions and is increasingly regulated, growing your own vegetables in an urban environment is currently expensive, inflexible and complicated for both businesses and private individuals



Heavy reliance on pesticides and preservatives



Field and garden cultivation is limited by seasonality



Fiel cultivation is highly regulated in the EU



Loss of nutrients via refrigerated transport



Long, CO2-intensive transport routes with field cultivation



Currently: Expensive & inflexible vertical gardening systems

## Our Solution



#### More yield with less ressources

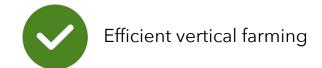














# ACERON Hydroponic Series



#### Easily constructed, modularly adaptable, autonomous.

#### **HydroBox**

- B2C, Plant container
- Apartments and Kitchens
- Successful MVP already developed



#### **HydroTop**

- B2C, Raised bed
- Gardens and stores



#### Greenwall

- B2B, modular vertical farm
- Stores and food industry
- Freely adaptable and expandable



## The USPs



### Modular System

- Same components for all 3 products
- Expandable and flexible
- Inexpensive and relatively simple

### **Technology**

- Ebb-and-Flood technique: efficient and autonomous watering
- Faster plant growth
- Cultivation without seasonality issues
- No pesticides



## Feasibility and MVP



#### **Next Steps**



- Hydrobox improvement
- Development of Greenwall



Software optimisation & user-friendly interface



EU Certification for electrical devices and systems for food production



Patenting



- HydroBox: successful MVP already developed
- Feedback-loop via showrooms and expositions already started
- System has already been tested several times. Significantly faster plant growth and no infestation by parasites
- We are desining the software to be flexible and customizeable for different plant species

## Business model





Development and improvement of product portfolio

Assembly and maintenance



Selected distributors

Development of customized solutions by ACERON



Individuals in highly urbanised areas

Restaurants and grocery stores

Agricultural industry, Focus on sensitive plant breeding

### Market



#### Young Market with high Growth Potential

#### Markt

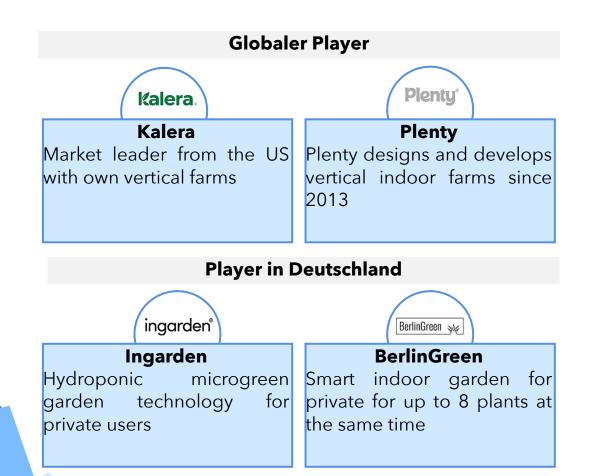
- Market for vertical and indoor farming is growing rapidly:
  - Growing world population
  - limited availability of arable land.
  - Need for CO2 neutral food production
- Increase in transportation costs and regulatory hurdles for field cultivation
- Strong growth in ecological awareness in Germany
- Vegan food market grows by approx.
   15% annually

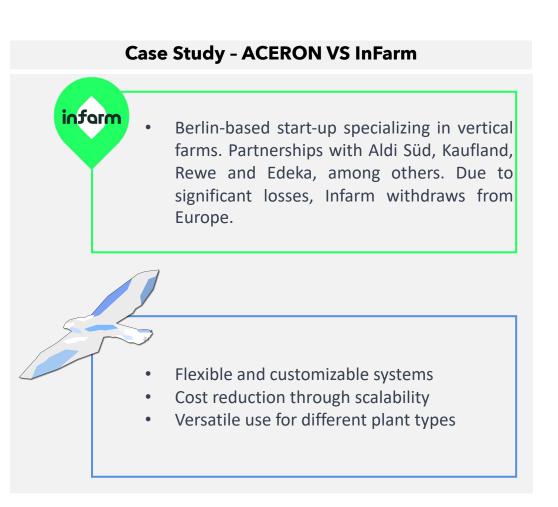


### Competition



#### Urbane Landwirtschaftsszene in Deutschland wächst rasant





# Financing requirements



Finanzierungsbedarf, T€						
	2023	2024	2025	2026		
CE_Certification	15					
Patenting	10					
Start Production HydroBox	25	25				
Prototypes HydroTop & Greenwall		30	25	20		
Working Capital Pre-financing	25	25				
Personnel costs Pre-financing	50	50				
Sum	125	130	25	20		

Roadmap, T€						
	2023	2024	2025	2026		
Sales	10	695	1.072	1.531		
Gross profit	0	382	697	1.072		
EBIT	-47	203	703	1.306		
Number of employees	4	8	10	12		
Personnel costs	0	-392	-490	-588		

Investment of 300.000€ for the whole project

### Contact



#### www.aceron.org

E: contact@aceron.org

Christian Vogelsang

E: christian.vogelsang@aceron.org

T: +49 176 41865125



LinkedIn



Website