

AERO FOOD

Investor introduction letter

Automated aeroponic biomass production technology



Dear Sir or Madam,

I am looking for an investor or strategic partner to continue and commercialize AERO FOOD - a fully automated aeroponic machine for producing fresh plant biomass. The first and best-tested application is fresh feed for dairy, beef cattle, sheep and poultry, but we see the machine more broadly as a programmable biomass production platform.

Prototype already built and tested: in 2022-2024 we commissioned a full-scale machine in Israel, in the West Bank/Dead Sea desert area near Jericho, opposite Jordan. It worked in real desert conditions - heat, humidity and warm process water - which confirmed the technology and gave us a clear list of improvements for version 2.0.

WHAT WE BUILT

The machine is a long, insulated production tunnel with several working levels. Seeds are incubated, automatically transported and distributed onto conveyor belts. A pressing and leveling system forms a uniform seed carpet. The material then moves through a controlled growth cycle supported by LED lighting, a mobile irrigation robot, water preparation, pH control and mineral dosing.

At the end of the cycle, the biomass forms a dense mat of roots, sprouts and green matter. It is mechanically shredded and discharged as a ready fresh product. In barley tests, we achieved approximately 400-500% fresh mass increase within seven days. One full-size production line can produce approximately 3-4 tonnes of fresh biomass per day.

KEY SYSTEMS

Seed and process start	Growth and control	Output and hygiene
• Seed incubation • Seed hopper and feeder • Seeding height regulation • Pressing and leveling	• Multi-level conveyors • LED lighting • Mobile irrigation robot • Water, pH and mineral dosing	• Conveyor cleaning • Ozone hygiene support • Biomass shredding • Output conveyor

WHY THIS TECHNOLOGY MATTERS

The value of AERO FOOD is not limited to one crop. Barley is the product we tested first, but the same platform can potentially run other production programs after adapting the process parameters: feed components, sprouts, microgreens, leafy crops or specialized biomass applications.

We believe this is part of the future of agriculture. Large farms and food systems increasingly need local, predictable and automated production of biological inputs. Water scarcity, land constraints, feed price volatility and supply-chain risk make decentralized biomass production more relevant every year.

WHO WE ARE

My role in the project was mainly automation, electrical systems, control software and irrigation. My engineering partner was responsible for mechanical design, CAD models, fabrication and machine integration. Together, we combine experience in automation, machine building, agriculture, industrial systems and real field conditions.

Our value is not only documentation. It is also the practical know-how gained from actually building, commissioning and testing the system. We know which elements worked, which should be simplified, reinforced or redesigned for the improved demonstration machine.

WHAT WE ARE LOOKING FOR

We are looking for an investor or strategic partner who can support the next stage: building the improved demonstration machine, validating the process and preparing the technology for global commercialization.

Our goal is to transfer and commercialize the technology, then build a production and deployment center from which machines could be offered worldwide - especially to large livestock farms and regions where water, land or stable feed supply are serious constraints.

The prototype exists. The technology has been confirmed. The next step is industrial refinement and global commercialization.

We are ready to discuss investment, technology transfer, implementation support and construction of the next machine.

Kind regards,

Kacper Wronowski, Engineer