

### Automated Resilient Yield Upkeep System

Greenhouse / Grow tent climate control unit, an automation solution for keeping reliable yields by household appliances

### The Problem we face

Unpredictability in agriculture due to climate change; early/late crops freeze, overheat or dry out if not maintained constantly.

# What should be achieved?

- Controlled temperature, humidity
- Control watering
- Intervene before disaster happens
- Should be cost and energy efficient



### What the ARYUS core machine provides

- SMART
- Monitors multiple sensor data in the greenhouse and/or around it
- Stores the sensor data to make any statistics of growth
- Controls heating or cooling through the connected devices
- Has a user friendly and intuitive web-based monitor/ control interface
- Small, can fit in any grow tent / greenhouse
- Keeps the climate within the pre-programmed thresholds
- Sends alerts, when things go bad.

# **Our technology**

The hardware

- Raspberry PI / Micro PC controlled
- All electronics are fused
- Can withstand an IP54 test
- Disconnectable, modular sensors
- Low base consumption

### The software

- Linux based, stability guaranteed
- All sockets are individually programmable for interventions or for timed on/off periods.
- Have an intuitive web based user interface, as a submodule of OverSeer CRM
- Can connect online, can securely view the status anywhere from the world, even through VPN



### **Competitive analysis**

What is on the market right now?

- Competitors either offer less features, or have to be integrated during the construction of the greenhouse.
- There is no "household" solution, only industrial scale. People who use household fans, heaters, lights can not "smarten up" their growth kit.
- To achieve something similar to ARYUS's performance you have to buy many individual subsystems for weather / water control
- ARYUS is the best value offer for household and urban farming, democratizing precision agriculture, which is now privilege of large farms

### Who would love to get an ARYUS core?

#### Our clients will be anybody, who:

- are innovative small farm owners
- are semi- and professional agriculturalists who wants to eliminate the chances of climate related crop fails.
- are indoor growers who want to really smarten up their greenhouses
- likes to monitor the growth phases, would love to see some graphs, charts about the temperature curves or humidity changes and power consumption estimates etc.
- Wants to have the comfort knowing he/she can always check on his/her greenhouse at any time anywhere

#### How we will reach them:

- "We preach what we practice" we provide valuable and relatable information and practices on our website through constant content and periodic creation.
- SEO techniques, Google Adwords, Facebook adverts, targeted marketing through relevant communities, direct sales.
- Raise demand by showing how effective we can be.

### Going to the market!

- Pilot farms / ambassadors with long term support contracts
- Establishing a company
- Launching a Kickstarter project
  Targeted marketing campaigns on Google and Facebook

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### **Our Team**

Director

- Customer Success Managers
- AI Machine Learning and Virtual Assistant Experts
- Hardware Production and Distribution Specialists

Advisors (local fundraising for small businesses, farms, Better Practice Guide for Urban and Small Farming, cybersecurity and data science, privacy and legal)



# **Financial projections**

One employee can manufacture a unit in 4-6 hours (330 per year) without further automation, software initialization in minutes per manufactured unit.

True value provided through the software - 4:1 conversion rate per product sold.

Base unit material cost: 400 USD, retail price of base unit 2000 USD+VAT Reinvesting in solar and sustainable energy and R&D In 3 years going multinational and establish eco-villages.

### **Current status**

#### We have:

- working prototypes with 1 year sensor data, working software and hardware.
- reliable, contracted supply chain of parts
- reliable predictions about manufacturing capabilities
- a long term plan for building sustainable solar powered greenhouses
- tested methods of utilizing 3D printing from recycled PET materials

#### In the near future:

- Kickstarter and marketing campaign
- Establishing a production company at best production location

#### How would we use the money we raise:

- Build greenhouse(s), acquire assets, 3D printers, PET recycling unit, Solar energy, forming a company, launching a marketing campaign in 3-6 months.





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