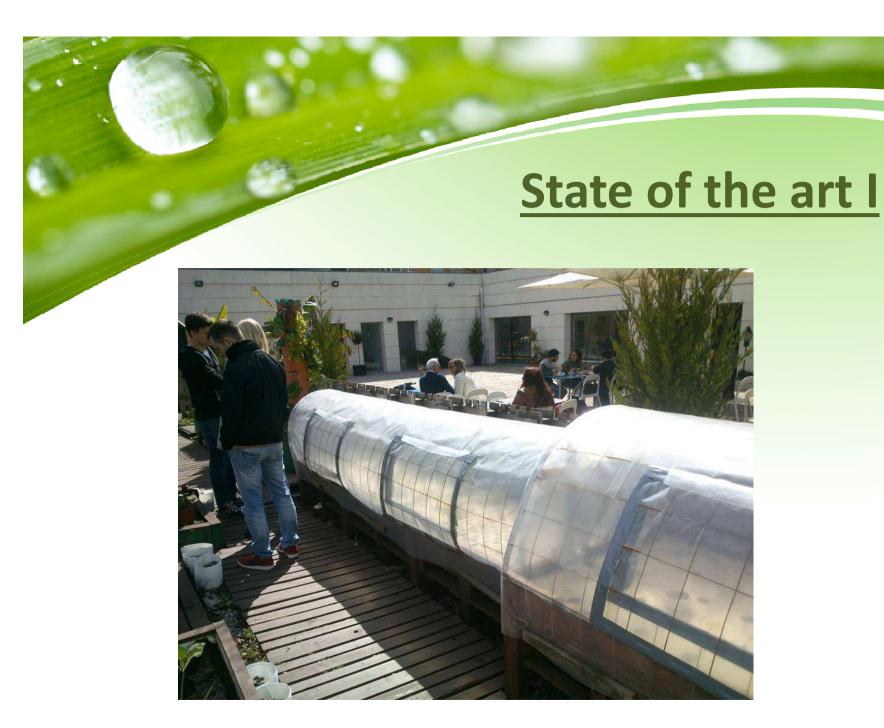


Adriana Jurado, Mateusz Bartniak, Pawel Jankowski, Reelika Martoja, Roland Esenszki, Severin Bernreuther



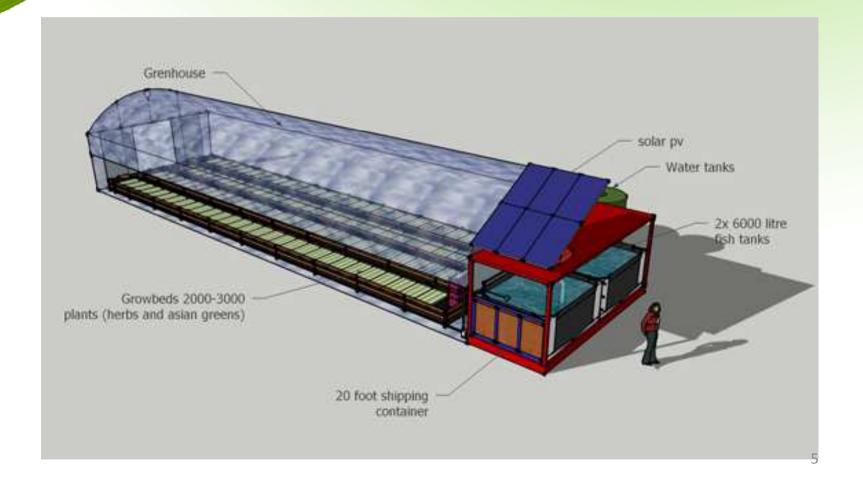
- Build a house for an aquaponic system
- o Greenhouse that looks good in city
- o Protect the aquaponic system from unsuitable weather



State of the art II



State of the art III





- ➤ Marketsize and Trends
- ➤ Steep Analysis
- **→** Segmentation
- ➤ Positioning Strategy

SWOT - Analysis

Strengths	Weaknesses
 Dynamic team Focus on design / smart functions Great Publicity / marketing value Environmentally friendly 	 Limited budget young / inexperienced team CWP? High investments required Why is there no real competitors
Opportunities	Threats
 Aquaponicsmarket is growing Growing awareness in the population Market niche – growing food in urban areas + design 	 New technology – Does it push through? Exisiting & Future regulations Too expenisve for customers? Competition in Greenhouse and Aquaculture Industries

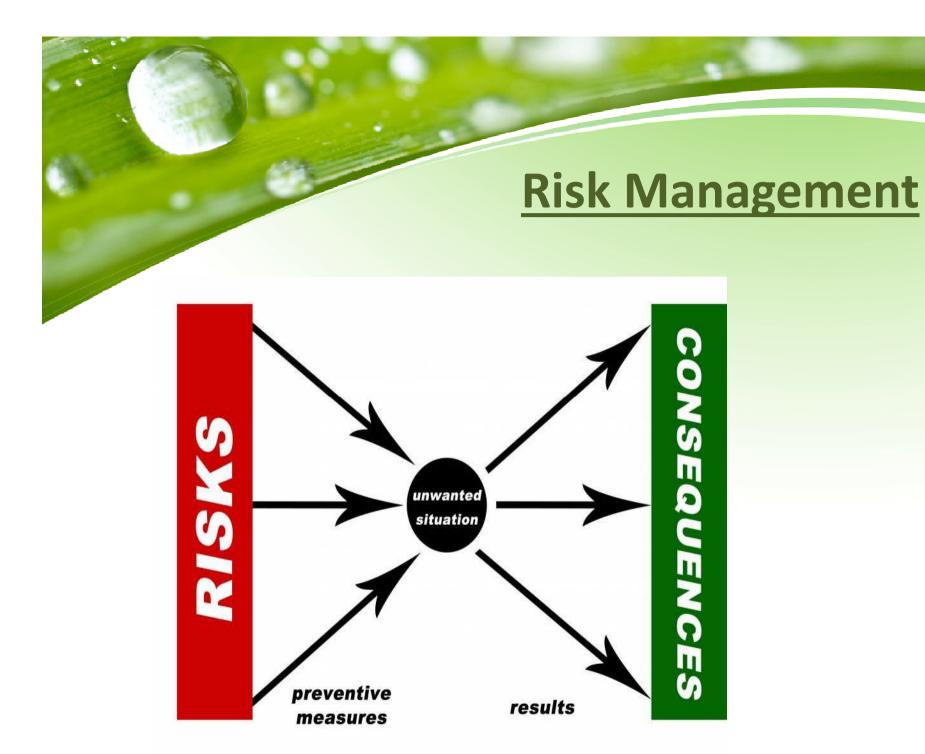


oConclusion

➤ Offer a Design Product at a reasonable Price









ECO-SOCIAL

Money saving (Nonartificial light, Solar power, rain water etc.)

ECONOMIC

Affordable materials
Financing
Bigger productivity
Workplaces

SOCIAL

Independency Eco-friendly feeling Availability

ECO-ENVI

Energy efficiency (Not using large among of electricity)

ENVIRONMENTAL

Eco-friendly materials
Air Pollution
Visual pollution
Biodegradable

SUSTAINABILTY Not using cham

Not using chemicals Organic food Long lasting materials

ENVI-SOCIAL

Eco-education / Eco-community



- Eco-community
- Recyclable materials
- Long lasting materials
- Year-round effective production



<u>o</u>Engineering

- **≻**Safety
- ➤ Perform services only in their areas of competence



- ➤ Solid image
- >Truthfully without tricking

o **Environmental**

- **≻**Materials
- ➤ For growing

OAcademic





o Pine wood

o Multi wall polycarbonate

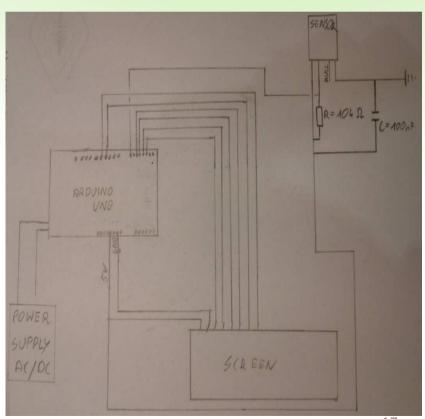
o Plywood





Design Electronics

- o Arduino UNO board
- Power supply
- Temperature&Humidity sensor
- LCD display

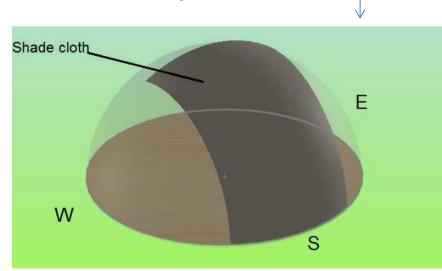


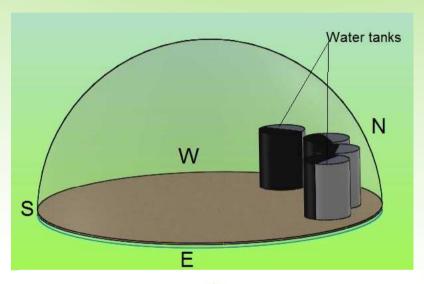
Functionalities

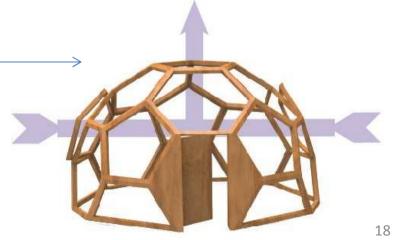
oHeating system

OVentilation system

Sun protection









- Strength calculations
- The mechanic system of the windows
- Define the marketing mix, the positioning and strategy
- Do the layouts of the pieces and assembly
- o Improve the report
- Improve the final design and the simulation
- o Build the scale model
- oTest the scale model



Thank you for listening!

Any questions?