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Euro-MedHackathon
ECO-EFFICIENCY IN THE AGRO-FOOD CHAIN

14-15 December 2016 | AMMAN, JORDAN

medSpring

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aytekmakine

# Water less Land to avoid Waterless Land

PAMUKKALE TeknoKENT

Republic of Turkey
Ministry of Science, Industry and Technology

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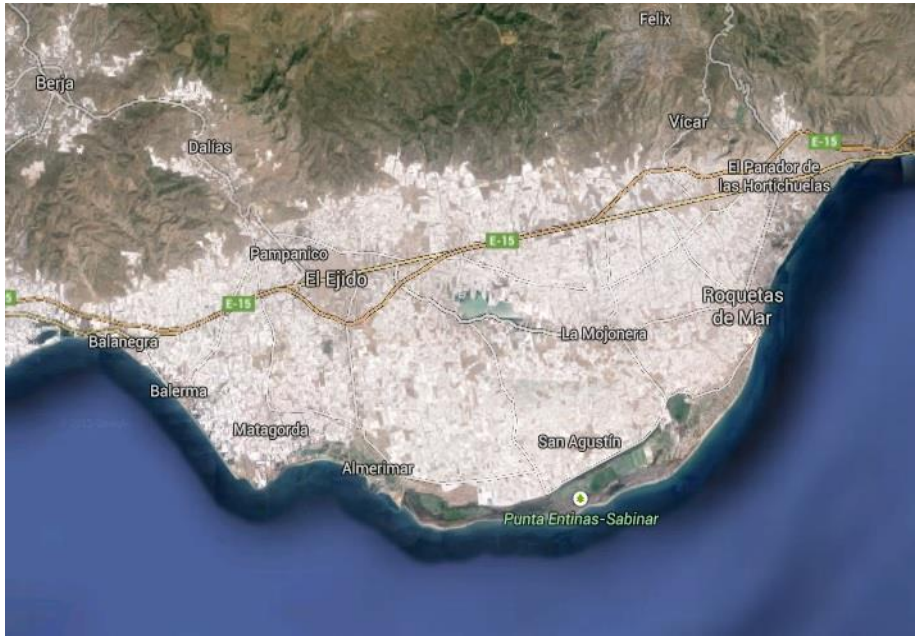

Almeria, Spain

36°50′25″N 2°28′05″W

Buharkent, Turkey

37°57′42″N 28°44′32″E

# Problem

- Unefficient using of Agricultural Lands
- Unefficient using of sources and energy
- High cost of Automated and Mechanic Agriculture Technologies

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# Euro-MedHackathon
# ECO-EFFICIENCY IN THE AGRO-FOOD CHAIN

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Bridging Science and Business

**Vertical Hydroponic System;**

- Minimize water consumption using NFT,
- Benefit from sunlight (Rotating),
- Reduce Power Consumption (Collect waste water),
- Fully Controlled (Nutrients, pH, EC),
- Measure and Monitor;
    - Quantity
    - Growth Period,
    - Growth Speed,
- Compact (Implemented in different sizes)
- Easy to Use (Controlled via Mobile Devices)

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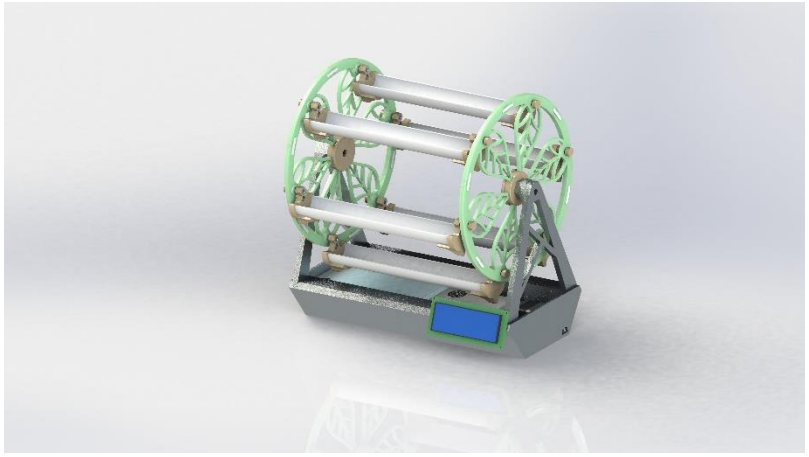
**Target:**

- Commercial Greenhouse
- Local Retail Markets
- Restaurants,
- Urban Farmers



## Impacts

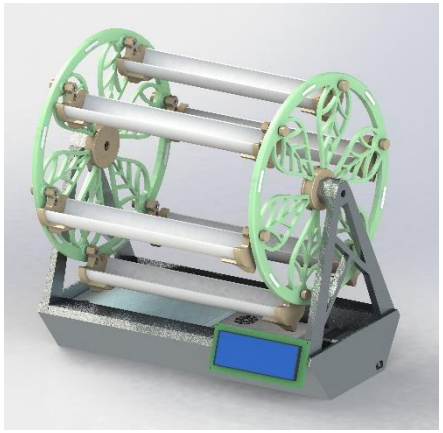
- Increase growing efficiency,
- Decrease Preparation time
- Decrease food waste (Just Grow as much as you need)
- Can be Implemented on roofs, in non available farming areas
- Fresh food delivery
- Reduced Logistic Costs
- Reduced Carbon Foot Print

**INNOVATIVENESS**

- Nutrient Film Technique (NFT)
- Control System (Add nutrients automatically, measure pH, EC)
- Data Comparement (Growth Rate, Quantity etc.)

## MARKETABILITY

- Data storing income for commercial greenhouses(cloud), technical assistance
- A 5 km-Radius greenhouse for retail markets
- Sales of In House products for Urban Farmers



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**Your VOTES will help us make further innovative efforts and we will be honored to collaborate with this brilliant community.**

**Süleyman Aytekin**

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