



REMTECH EXPO

REMTECH

CONTROLLO DI AMBIENTI INDOOR MEDIANTE SISTEMA REMOTO E BIODEPURAZIONE DELL'ARIA

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SETTEMBRE 2018

RemTech Expo 2018 (19, 20, 21 Settembre) FerraraFiere

www.remtechexpo.com



THE CHALLENGE – LA SFIDA

- **INQUINAMENTO A TORINO**
- **ALLE PIANTE PIACE MOZART (Frequenze)**

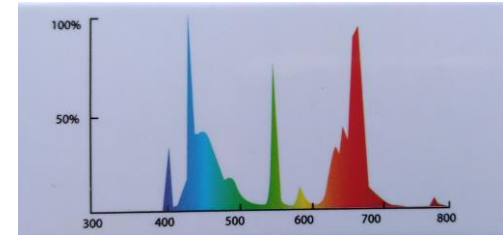
POSSIAMO ‘MIGLIORARE’ LE PERFORMANCE DI UN BIOREATTORE AD ALGHE e GESTIRLO DA REMOTO???



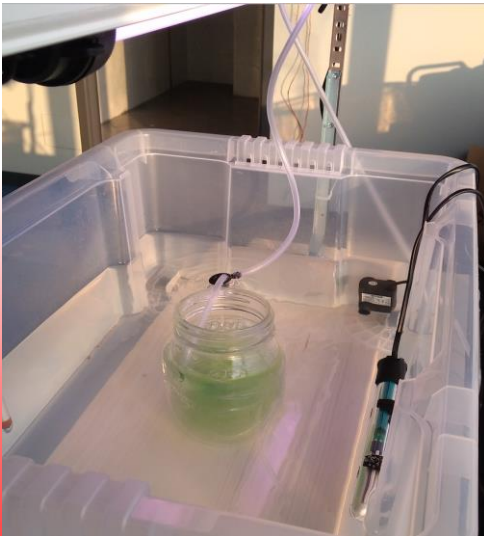
LA NOSTRA SPERIMENTAZIONE

- **CONDIZIONI**

- ✓ LUCE NEON 'ROSA' 16 h su 24 h
- ✓ BAGNO TERMOSTATIZZATO 30 C 24h

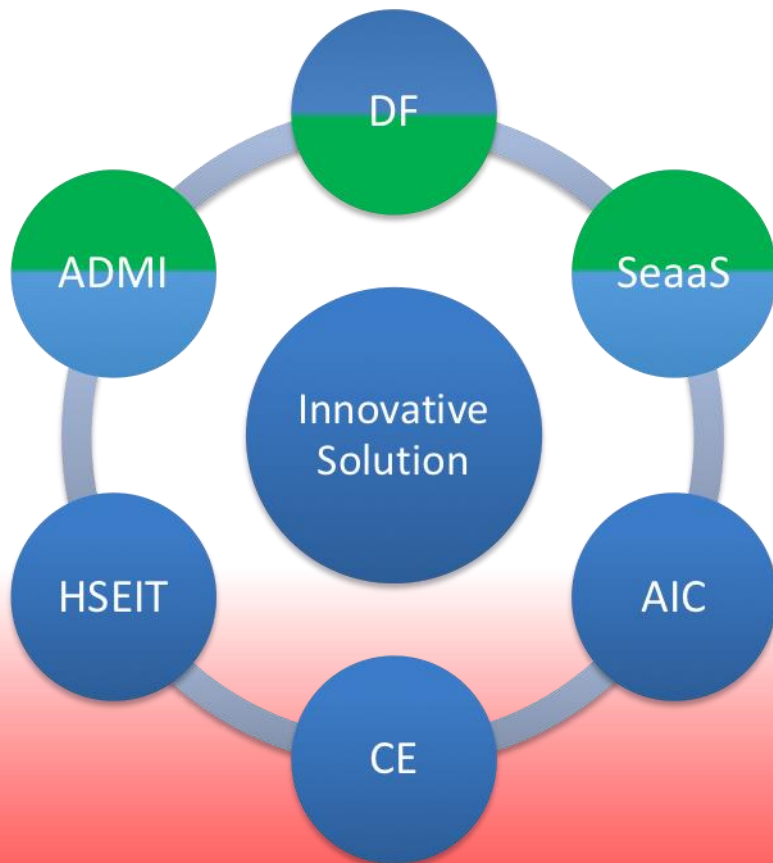


- **CINETICA: ANALISI GIORNALIERA UVVIS A 663-680 nm**
- **RESIDUO a 40 DOPO TEST DI 4 GG um 20%**





TECNOLOGIE DI THEAREN USATE NELLA SPERIMENTAZIONE

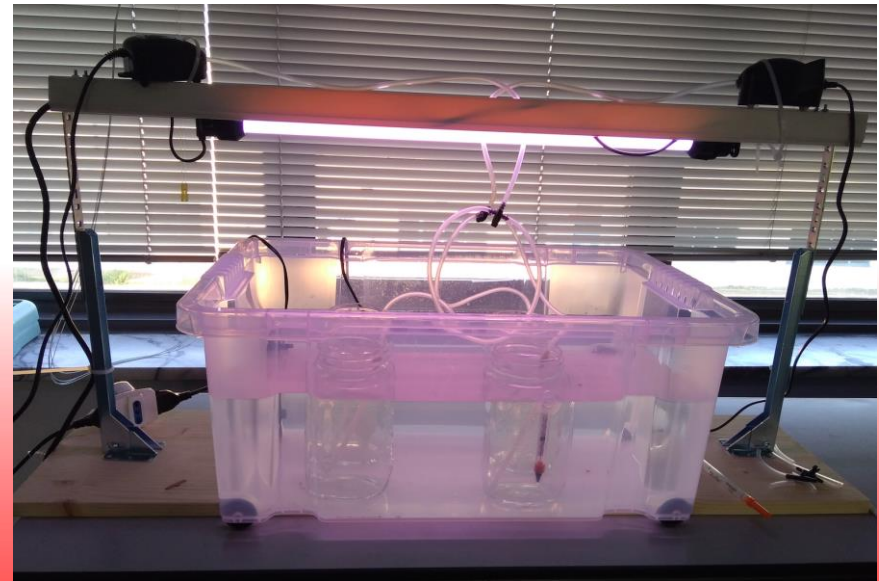
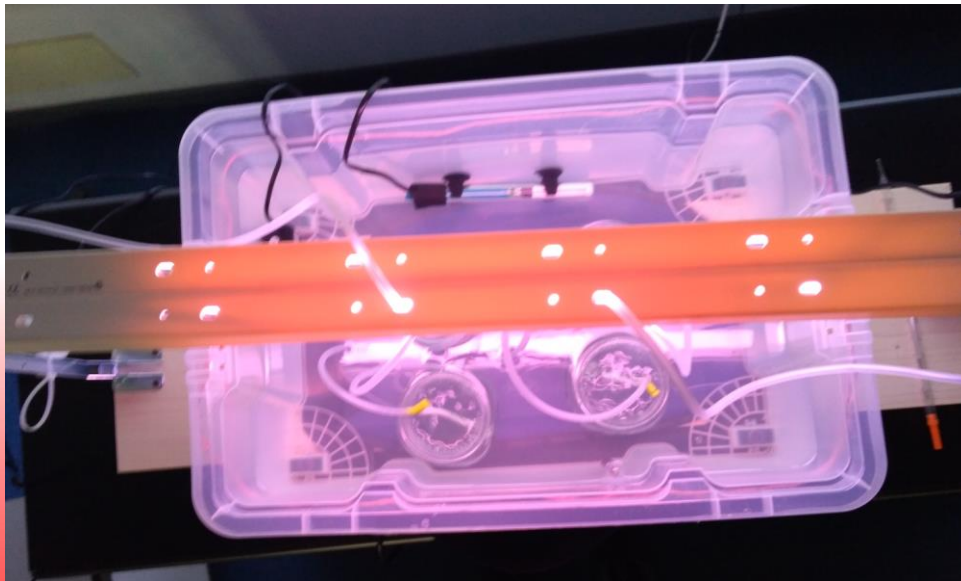


- DF Digital Forms
- SeaaS Sensing as a Service (IOT)
- ADMI Adaptive Data Management Infrastructure
- AIC Augmented Immersive Collaboration
- CE Cognitive Ergonomics
- HSEIT Health Safety and Environmental Innovative Technologies



IL BIANCO

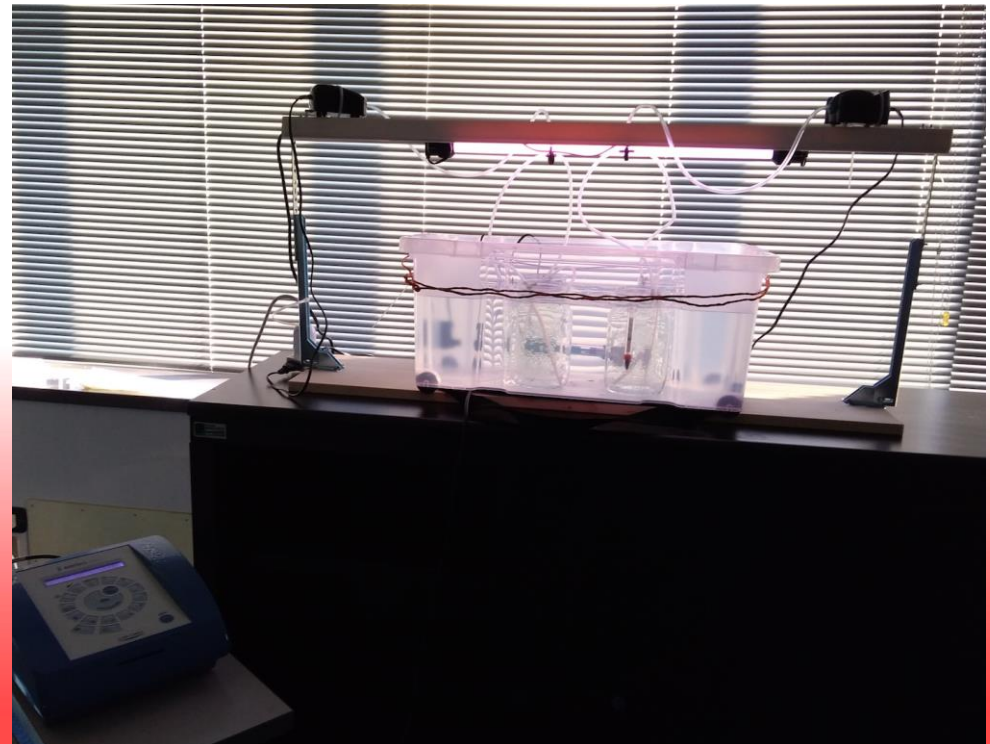
- **SISTEMA STAND ALONE:**
 - ✓ NO FREQUENCY
- **CINETICA DIFFICILE DA SEGUIRE (AGGREGAMENTO ALGHE)**
- **RESIDUO 18 mg/L**





EF - WIRED COIL

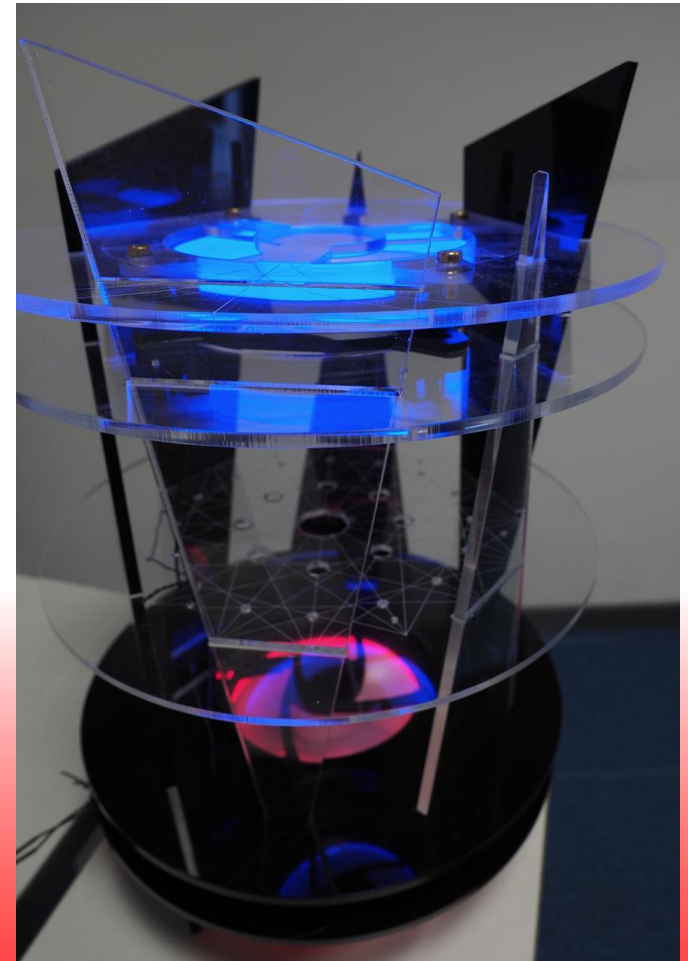
- **SISTEMA STAND ALONE:**
 - ✓ GP FREQUENCY
- **CINETICA DIFFICILE DA SEGUIRE (AGGREGAMENTO ALGHE)**
- **RESIDUO 22 mg/L**





BLUE AND RED LAMP WIRELESS ANTENNA

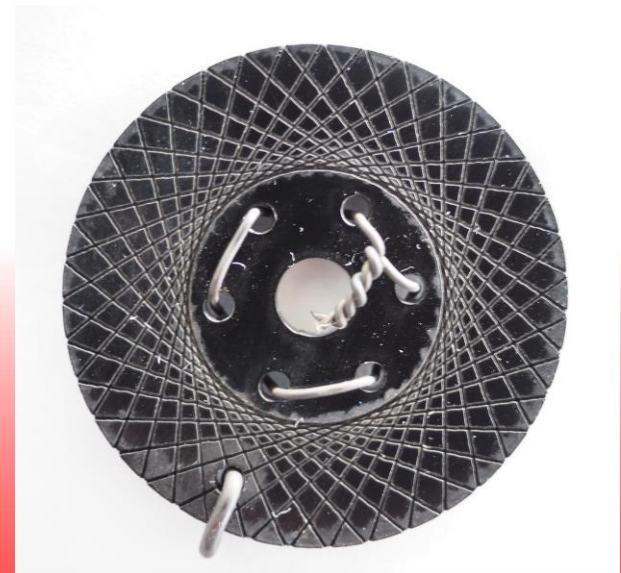
- **SISTEMA ADDITIONAL BLUE AND RED LAMP (15 min/h in 16 h/24), WIRELESS ANTENNA OUTSIDE WATER BATH:**
 - ✓ SPECIFIC FREQUENCY SET FOR ALGAE GROWTH (3 times/day)
- **CINETICA DIFFICILE DA SEGUIRE (AGGREGAMENTO ALGHE)**
- **RESIDUO 28 mg/L**





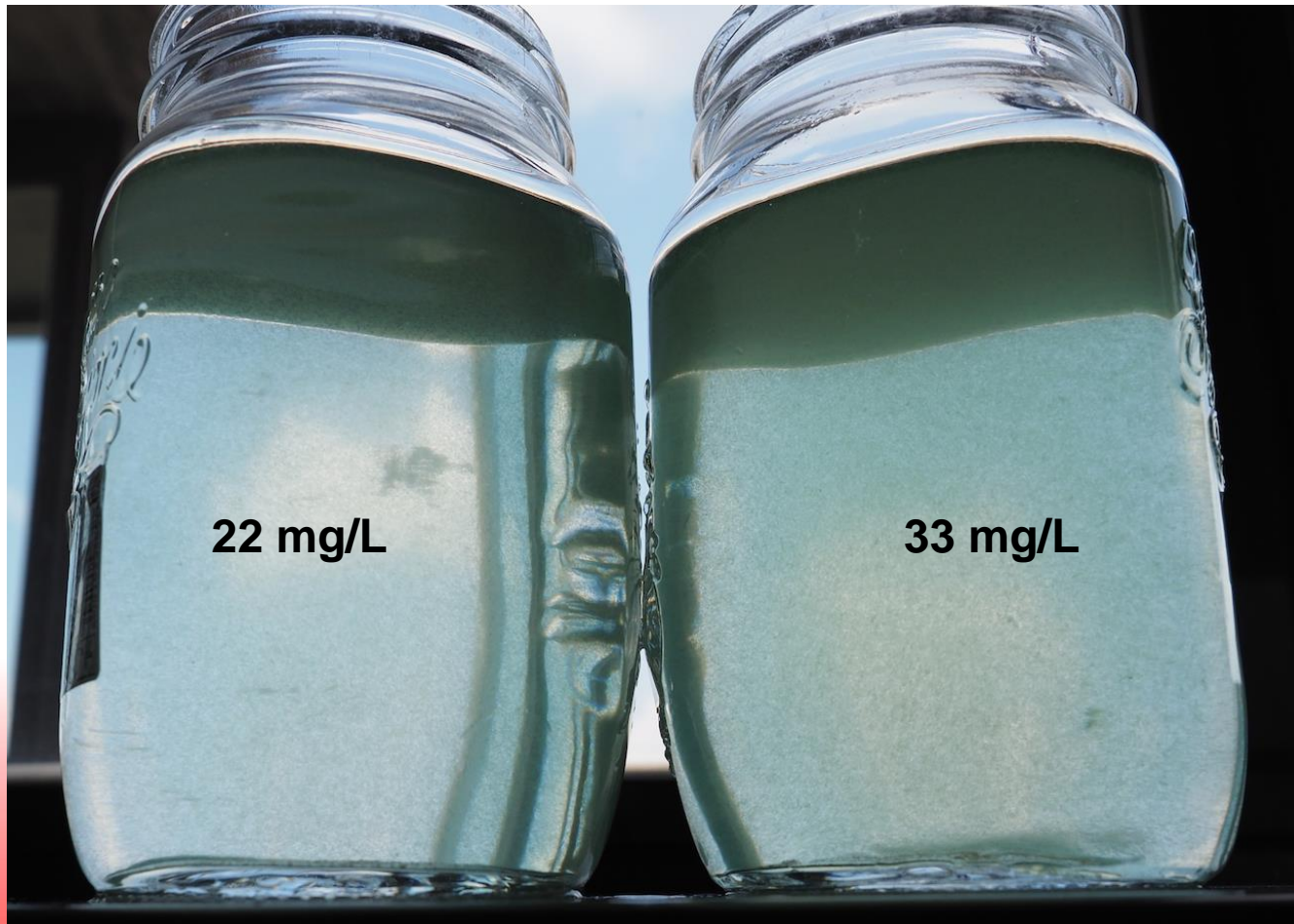
WIRELESS ANTENNA IN WATER BATH

- **WIRELESS ANTENNA INSIDE WATER BATH:**
 - ✓ SPECIFIC FREQUENCY SET FOR ALGAE GROWTH (3 times/day)
- **CINETICA DIFFICILE DA SEGUIRE (AGGREGAMENTO ALGHE)**
- **RESIDUO 33 mg/L**





VISUAL COMPARISON





LAMPS: WHAT'S NEXT?

INDOOR AIR QUALITY + WELL BEING IMPROVEMENT:

- 🌀 BIOACTIVATED ALGAE LAMP + GREEN LAMP
- 🌀 OTHER WELL BEING LAMPS
- 🌀 BIOREACTOR FOR 'SPIRULINA' PERSONAL CONSUMPTION?



WIRELESS ANTENNA ANY VOLUNTEERS?

- **BIO-PROCESSES ACCELERATION**
 - **BIO-REMEDICATION?**
 - ...



THEAREN

Inspiring Innovation

QUESTIONS?