



# Accelerator for green growth!



- Finding circular economy solutions with researchers and companies
- Smart solutions and future technologies
- Our successful project organisation and business services supporting you



IIN KUNTA

**MICRO  
POLIS**

Expertise on green energy and environment

16.6.2023

MICROPOLIS.FI IIN.FI/BUSINESS





## Unique: CircLab R&D Environment

- Microalgae production customised to your needs
- Environment open for all
- Available services from business model planning to analysing produced microalgae
- Water treatment, utilising waste and side streams



16.6.2023

KASKI - GROWTH FROM THE CIRCULATION WITH GREEN TECHNIQUES





# Highlights: scaling up!

First demonstration of this scale in Finland: from miniscule to hundred of litres

- Photobioreactor 600 l: clean groundwater
  - Optimising algae cultivation and business planning 3/2023: *Chlorella sorokiniana*
  - Nutrients, aeration, pH, lighting conditions, and energy usage can be optimised
- Open Pond 560 l: industrial wastewater
  - Nutrient recovery and water treatment with microalgae
  - Tested with waters from mining, breweries, pulp and paper industry and fish processing

Co-operation  
(Industrial Water  
Research Group):



UNIVERSITY  
OF OULU

Coming up: advanced algae harvesting methods

16.6.2023

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