

AQUAPONICS IN FINLAND

Present & Future

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Outline

The current situation of Aquaponics in Finland

The Finnish Aquaponics Society (FAPS)

Legislation (briefly)

The bigger picture?

Aquaponics in Finland - Present

- Food production: No commercial Aquaponics (AP)
- Private company: Decorative AP (InnaGrow Solutions)
- Research: LUKE, Universities of Jyväskylä & Eastern Finland (RAS & AP)
- Organization: The FAPS is on a good way!

What are the major obstacles?

- Energy costs & sustainable resources
- Public awareness & consumer behaviour
- Legislation: EU organic certification *etc.*

According to...

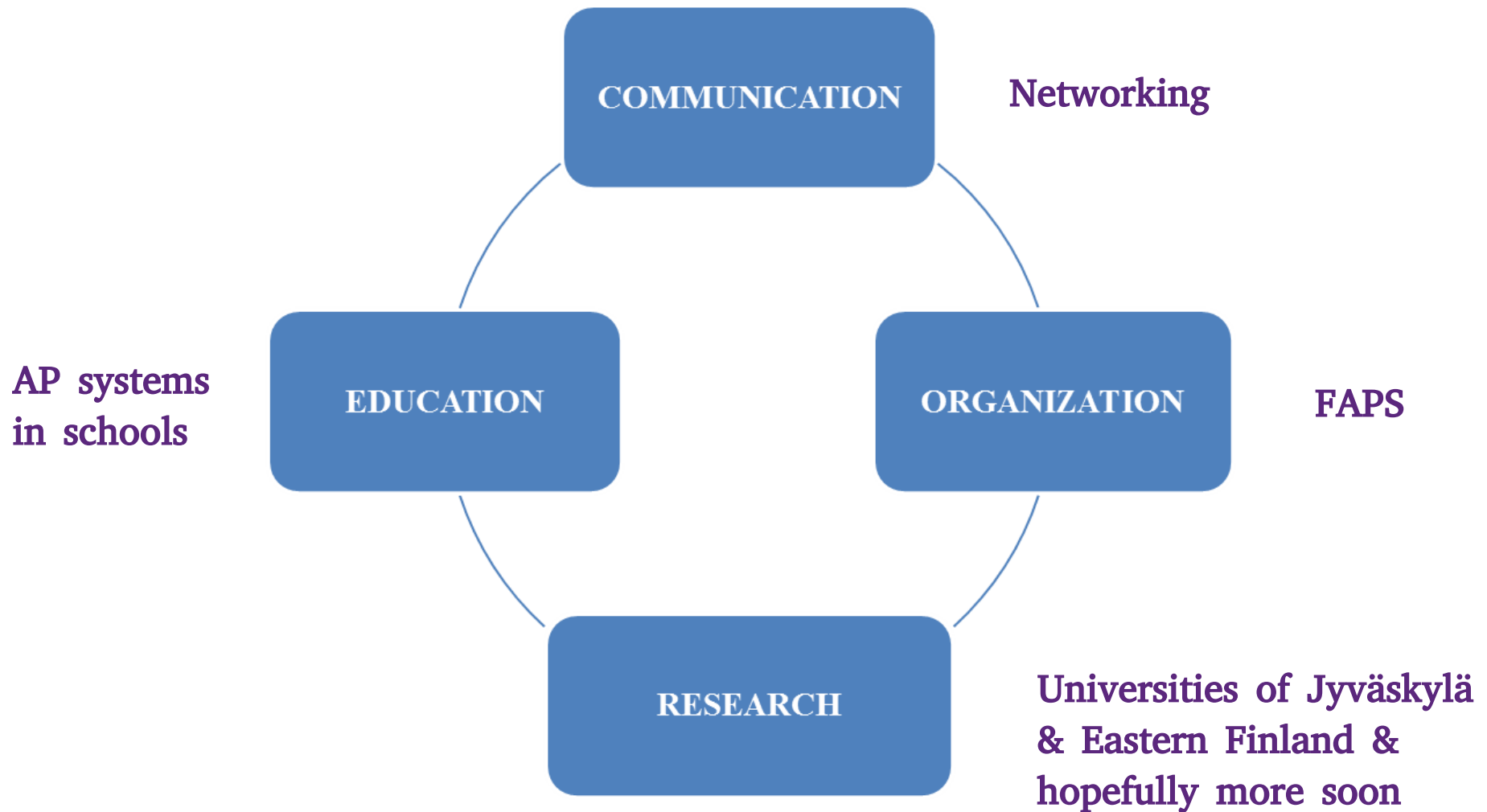
Ceder & Pereira 2021 (in prep.)

Miličić *et al.* 2017

Palm *et al.* 2018

How to clear the way?

- The CORE aspects for the development of AP:

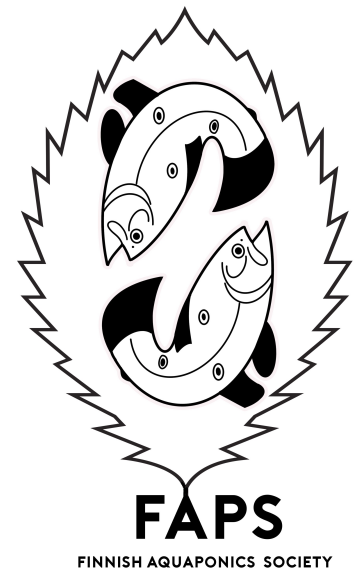


How can we achieve this?

- Organize ourselves
 - Learn from each other
 - Team up for proposals, projects & publications
 - Support research-to-business & *vice versa*
- This will aid the development, promotion & use of AP in Finland & elsewhere!

FAPS: What is it? What do they do?

- Who? 9 like-minded AP enthusiasts - 1st meeting in March 2021
- Expertise: AP, RAS, algae, microbiology / biogeochemistry, international business
- Suggestion: Peer-review of the national & EU-wide food legislation on AP products
- The vision:
 - AP research & production site in Finland
 - Developing, promoting, and commercializing AP
 - Creating research & job opportunities
 - Providing alternative protein sources & local produce
 - Producing healthy, sustainable & affordable food under strict control



FAPS: Purpose & Activities?

- **Purpose of this association?**

Improving the 4 core aspects to clear the way for aquaponics and by that promoting and developing this alternative food production method for a more sustainable future.

- **Planned activities?**

Conference participation & publications (research output)

Organization of (international) workshops / conferences & project proposals

Public presence (website, twitter account, a newspaper article)

Application for funding (FAPS, research & production facility)

Decorative systems in libraries & schools (InnaGrow Oy)

Legislation – Finland & EU

- No AP-specific legislation in Finland
- Lack of knowledge & political vision
- EU organic certification – RE-check!
- No subsidy structure for Finnish fish farming
- AP not on official roadmap for development of AqCult in Finland
- Sea-based AqCult = Obstacle for sustainable grow out methods → Circular Economy?

Information from Ceder & Pereira in prep. & references therein

Outlook

- **FAPS: Intensifying the activities**
- **Fund raising: Proposals, applications, ...**
- **Manuscripts in prep.: Ceder & Pereira; Lipsewiers, Ceder & Pereira (2021)**
- **AlgaeBBB 2021 conference (June): “Algaeponics & publications – up-to-date”**
- **What is the status of AP on a Baltic Sea wide level ???**





Thank you very much!

Looking forward to your questions & feedback!

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