



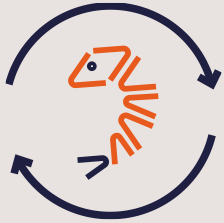
RAS Technology:

SHRIMP RAS AND SORTING SOLUTIONS
FOR HIGH INTENSITY SHRIMP FARMING

Eran Hadas | Aquacultuer Europe, Vienna | September 2023



Complete end-to-end solution



ECO-Shrimp

Detailed design
For production
unit 100-500t/y



ECO-Sys

Remote monitoring
& AI
For smart RAS
shrimp production



ECO-Loop

RAS Water
Treatment
Tailored for
shrimp needs

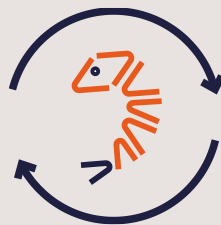


ECO-Feed

Unique formula
For clear water
shrimp production



ECOshrimp design



Year round productivity – independent from the environment, continues marketing



Close to market – “Farm to table” – can be installed anywhere



Optimal use of resources – addressing challenges of CAPEX & OPEX in RAS



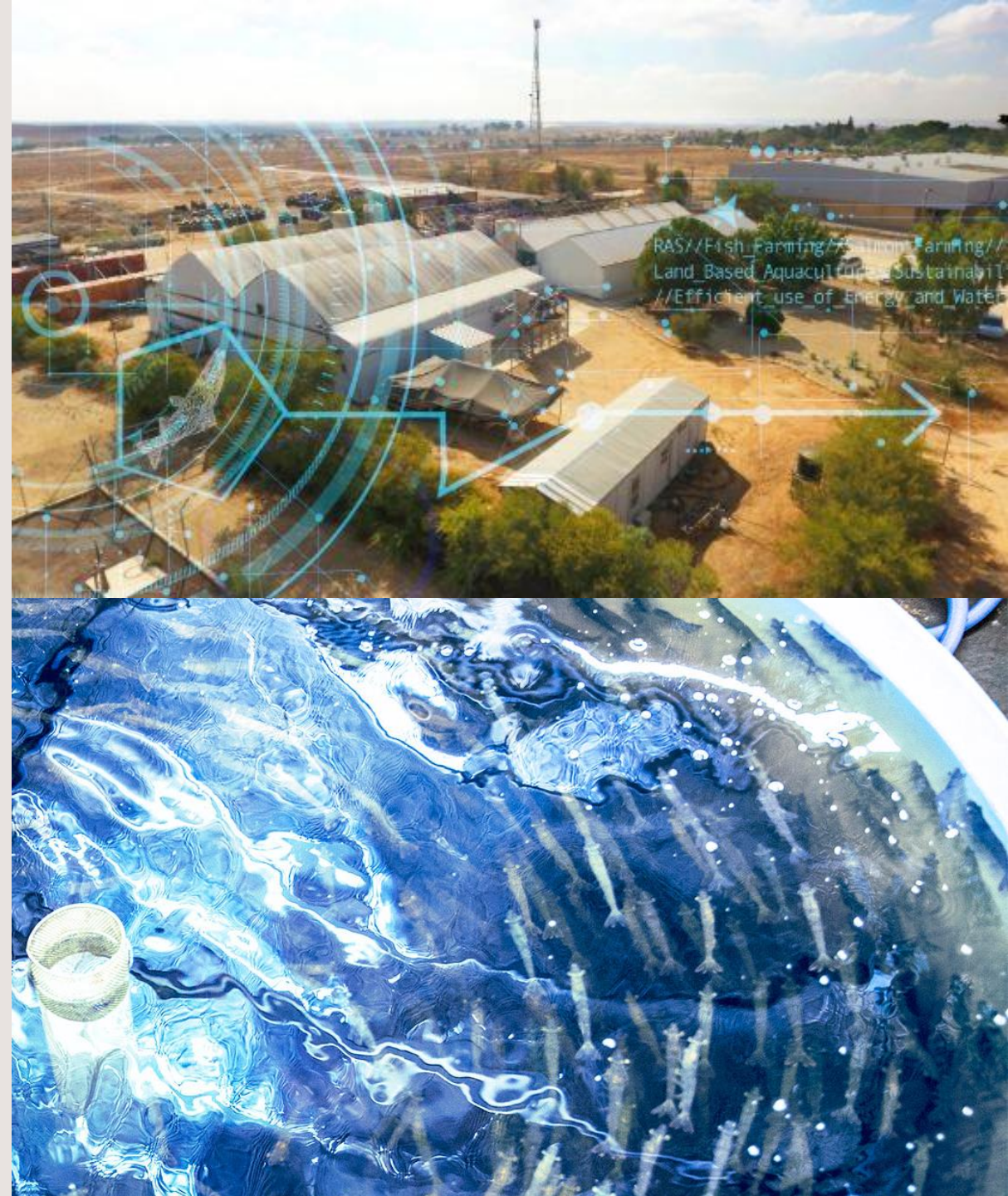
Sustainability - Low environmental footprint – highest yield per sqm, closed loop



Full biosecurity control - disease free, antibiotic & chemical free

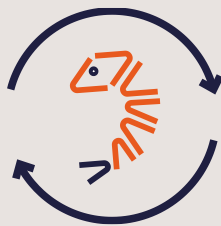


Healthy and tasty – no off flavors





ECOshrimp design



Hands on R&D (20 batches) – vast experience with solid biological data:

- 15kg/m³>densities, up to 65kg/m³ annually
- 14-16 weeks - PL9/12 - 22-25g

Built to scale – engineering expertise:

- Modular design - can be multiplied (100-500t/y)
- Industrialized approach – reduced footprint, lower civil cost, can utilize existing buildings

Smart Tank structure – US Provisional +PCT

- Maximized surface
- Complete integration of feed, harvest & sensors



Haifa

Tel Aviv

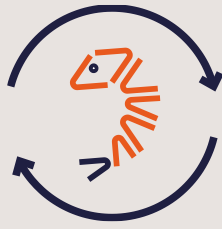
Jerusalem



Revivim



Shrimp Grading



Shrimp grading is not a common practice

- Labor intensive, handling problem.
- No proper machinery.

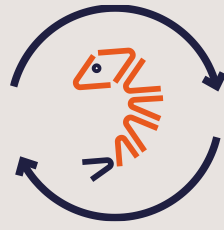
What are the incentives to grade shrimp?

- Product quality: small animals -low value
- Lower total productivity of production units.
- RAS must be super intensive and super effective.





Shrimp Grading



Conclusions

- Grading affects shrimp population.
- Method of grading affects shrimp population.

Open questions

- When is the right time for grading?
- What is the best method for grading? Passive? Active?
- Based on this data – development of the right machinery and protocols.

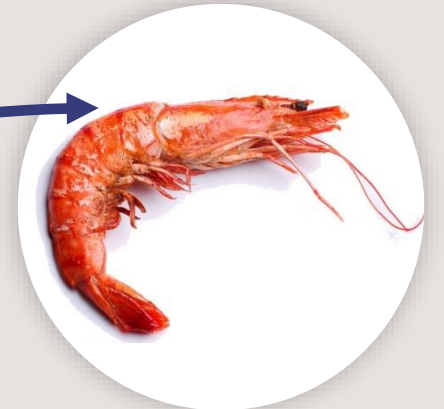
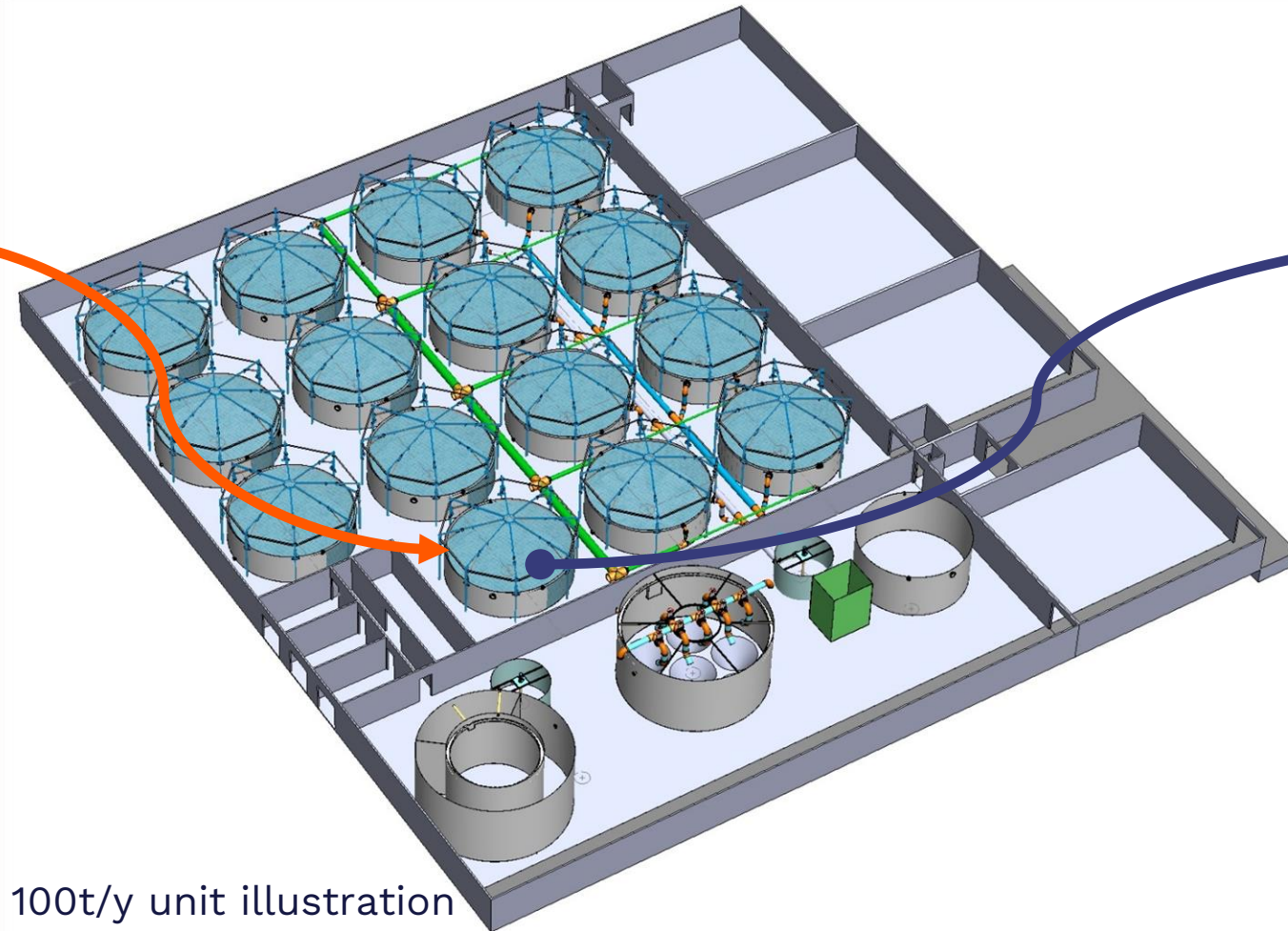




Shrimp Production Process



PL9-12:
Weekly stocking
1 of 15 tanks
(Ø~8.4m)



Market size:
Weekly harvest
1 of 15 tanks after
15 weeks
20-25 gr
~2 tons/ week



- Remote monitoring package
- AI biomass assessment
- Online data and alerts
- Advanced management tools
- Online support from professional team (saving labor cost and reducing operational risk)

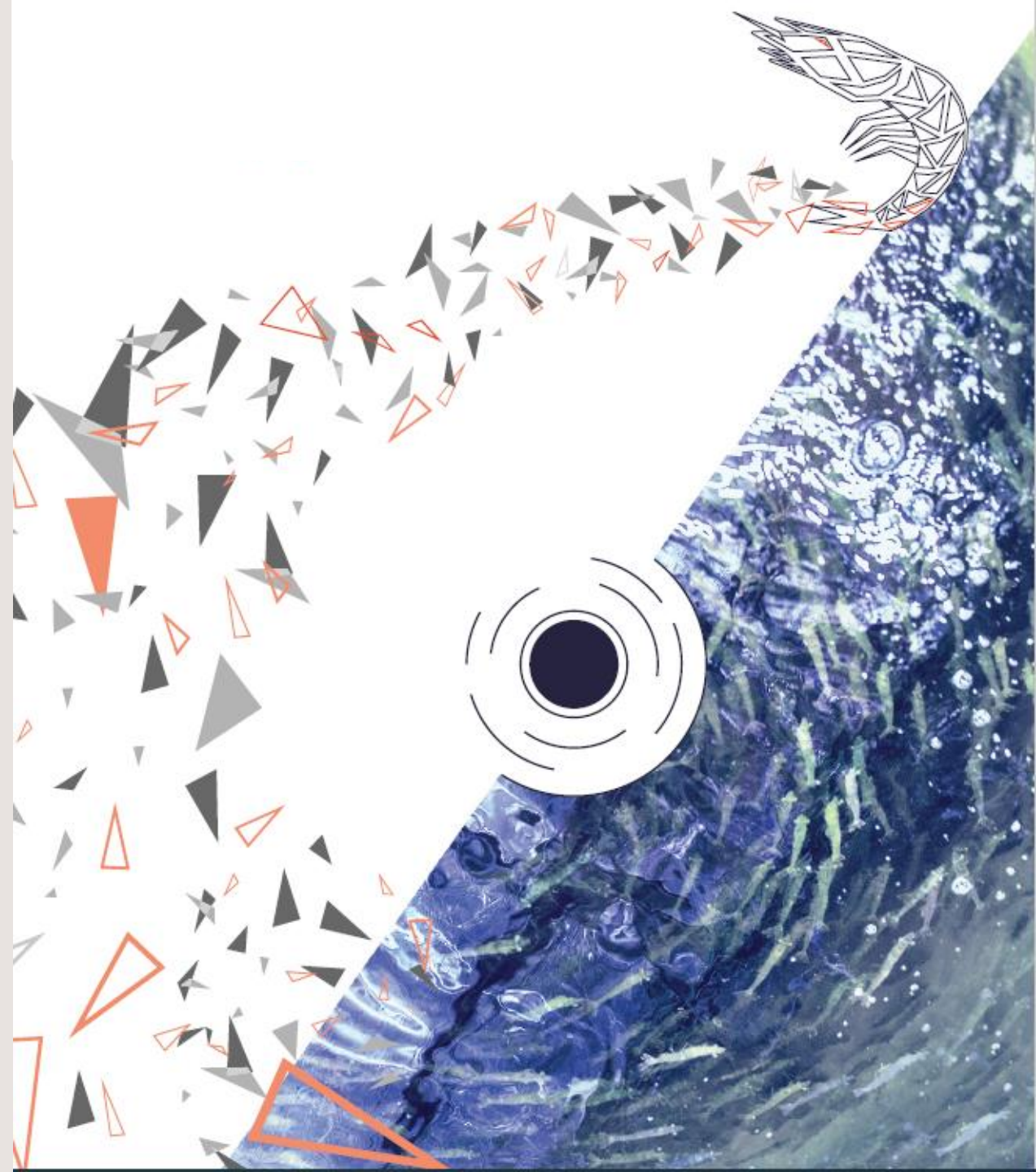
To be provided to ECOshrimp farms, partners and additional production facilities in EU, US, etc.





- 💧 Smart closed loop Water treatment solution
- 💧 Tailored to remove high TSS levels (small particles of waste and access feed), 30c, salinity, etc.
- 💧 Proprietary design reducing cost and regulatory burden (ESG)

To be provided to ECOshrimp farms, partners and additional production facilities in EU, US, etc.





- Proprietary Feed in collaboration with [Zemach feed mill](#)
- Lower cost (\$1.5-2/kg)
- Providing all nutritional needs
- Can be licensed for local production.

To be provided to ECOshrimp farms, partners and additional production facilities in EU, US, etc.



Complete sinking Feed for *Litopenaeus vannamei* shrimp



- ✓ 2mm extruded pellets
- ✓ Sinking

Raw materials:

Plant products and by-products, Poultry by-products, Fish hydrolyzed proteins, Fish oil, Mixed Oil, Vitamins and minerals, Amino Acids, Preservatives: E282, E260, E200.





Our Vision

Sustainable & safe shrimp production

Bringing fresh, healthy,
antibiotic and chemical free,
tasty shrimp to the market





Want to join us?

Contact Us

ECOShrimp

12 Amal st. Rosh Ha'ayin, 4809239 Israel

T 972.3.6031460 | **F** 972.3.6031461

www.ecoshrimp-sys.com





Confidential Disclaimer

This presentation is the property of ECOshrimp Ltd. (Israel) and its subsidiaries (the “Company”) and is strictly confidential. It contains information intended only for the person to whom it is transmitted. With receipt of this information, recipient acknowledges and agrees that: (i) this document is not intended to be distributed, and if distributed inadvertently, will be returned to the Company as soon as possible; (ii) the recipient will not copy, fax, reproduce, divulge, or distribute this confidential information, in whole or in part, without the express written consent of the Company; (iii) all of the information herein will be treated as confidential material with no less care than that afforded to its own confidential material. This presentation is for informational.

