

Education Material:

Circular Success Story 6:

From Fish To Food: Solos Aquaponix

D.1.2.4, part of O.1.2 [Deliverable Lead: Fachhochschule Salzburg GmbH]
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The video highlights Solos Aquaponix, a company using a sustainable, closed-loop system where fish waste feeds plants and plants purify water for fish. They promote a circular economy and see aquaponics as key to the future of farming.

Video Description

The video introduces Solos Aquaponix, a company dedicated to promoting sustainable agriculture through the use of aquaponics, an innovative system that combines aquaculture and hydroponics. In this integrated approach, fish are raised in tanks, and their waste provides essential nutrients for plant growth. The plants, in return, filter and purify the water, which is then recirculated back to the fish tanks, creating a self-sustaining, closed-loop system. This method significantly reduces water usage and eliminates the need for chemical fertilizers, making it an environmentally responsible alternative to traditional farming.

Solos Aquaponix advocates for a broader transition from a linear to a circular economy, wherein resources are reused and regenerated rather than discarded. The company emphasizes the importance of this shift in addressing environmental challenges and promoting long-term sustainability. By integrating natural biological cycles into food production, aquaponics contributes to a more resilient agricultural system. Solos Aquaponix positions itself as a leader in this movement, offering a practical model for eco-conscious innovation in the agricultural sector. Solos Aquaponix aspires to create a plug-and-play aquaponics system. By simplifying the complexities of aquaponics, they hope to encourage widespread adoption. Their long-term vision includes becoming a competence center for aquaponics research and education.

Questions for Reflection

Please answer the following questions based on your company. If you are a student, feel free to choose any company you would like to focus on.

1. How could your business adopt principles of circularity to reduce waste and create closed-loop systems like Solos Aquaponix?
2. What partnerships or innovations could you explore to turn byproducts or waste into valuable resources, as seen in the fish-plant synergy of aquaponics?
3. In what ways could embracing circular economy models improve your brand reputation and customer loyalty in an increasingly sustainability-conscious market?
4. How could your company rethink supply chains to be more self-sustaining, efficient, and environmentally friendly?
5. What barriers—technological, cultural, or financial—might you face in transitioning to a circular model, and how can you overcome them creatively?
6. Could you pilot a small-scale circular initiative within your company to test its viability and scalability, inspired by Solos Aquaponix' approach?

Video link



01:00 min

Further education material:
www.foodcycle.ai/education