PIG-CHANGE: Agrofood circular system for low ecological impact swine farming / CIIAP Agropecuaria FC · Food & Agriculture

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Country: México · Maquixco, Teotihuacán, Edo México **Category:** Food & Agriculture **Impact Areas:** Circular Economy **Stage:** Ideation **Founder:** Elias Chávez Delgadillo

Elevator Pitch

An easy-to-use, modular and scalable system for circular agri-food production applied to swine farming.*x000D* A system based on four main technologies: bio-digesting, bio-conversion, hydroponics and wastewater treatment; that produces most of the organic feed that requires the pigs. *x000D* Reduce the land typically required for food production, the soil pollution, and the wastewater in a pig farm; by recovering the nutrients and water from feces.

Climate Problem

Swine producers typically use corn, soybean, wheat, and other crop products to feed their animals. The land requirements to produce the food are over 100: 1 the space required for the farm itself. Most of the time, crop production is far away from the farm, therefore, the ecological footprint also includes transportation, warehousing, and feed transformation process.*x000D* Feces management in swine farming is also an important pollution problem. The feces are rich in copper, nitrogen, phosphorus, and zinc, even if we use them as nutrients for crop production, the excess of those minerals will contaminate water and soil.*x000D* The prices of crop products depend on future market expectations, offer and demand push the price up or down. The crop products used to feed pigs are the same used as food for other animals, including human, therefore, the market pressure will force the price up as the human population increases. *x000D* We propose, the development of an easy-to-use system, that

Founder

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