

# The Knowledge Farm



# Challenge

## Circular Food Systems:

- Implement an innovative aquaponics systems in the context of Aruba

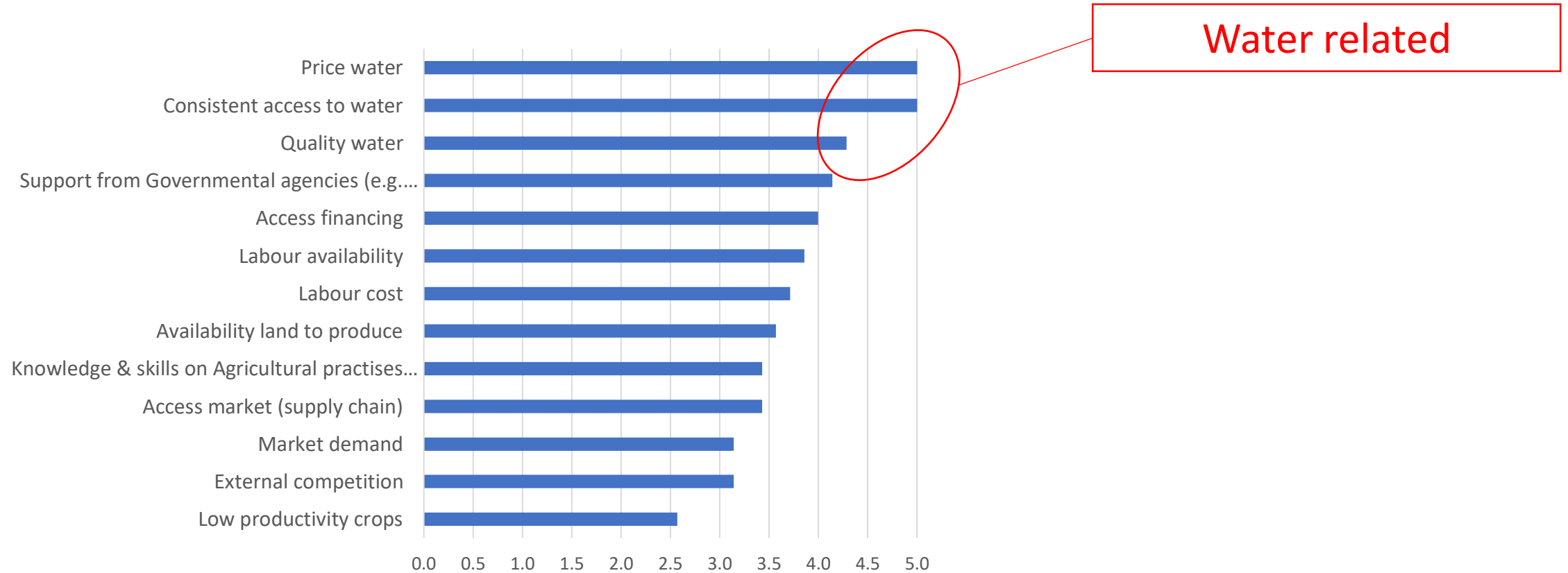
## Main challenges of Aruba:

- Food security
- Water accessibility

# Food security (Geo-political)



# The most significant challenges to sustainable agriculture in Aruba as experienced by farmers:



Survey conducted by our group under the United Farmers Aruba Association members in 2018. (N=7).

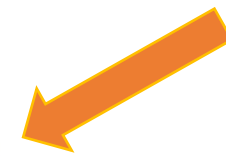
# Aruba GDP per sector



Tourism accounts for **87.7%** of GDP

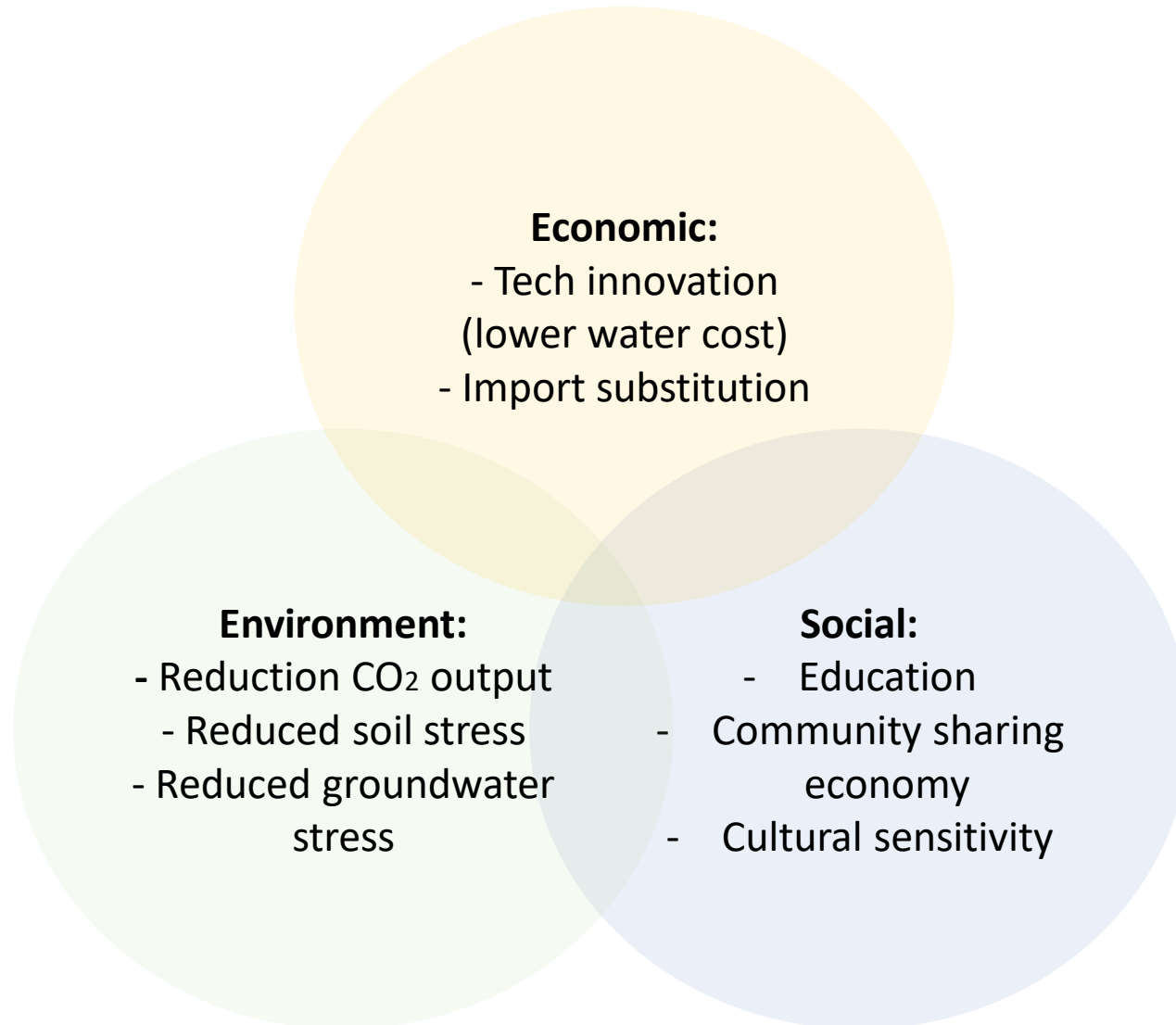
Less than **0.5%** comes from the agricultural sector.

That's Agriculture



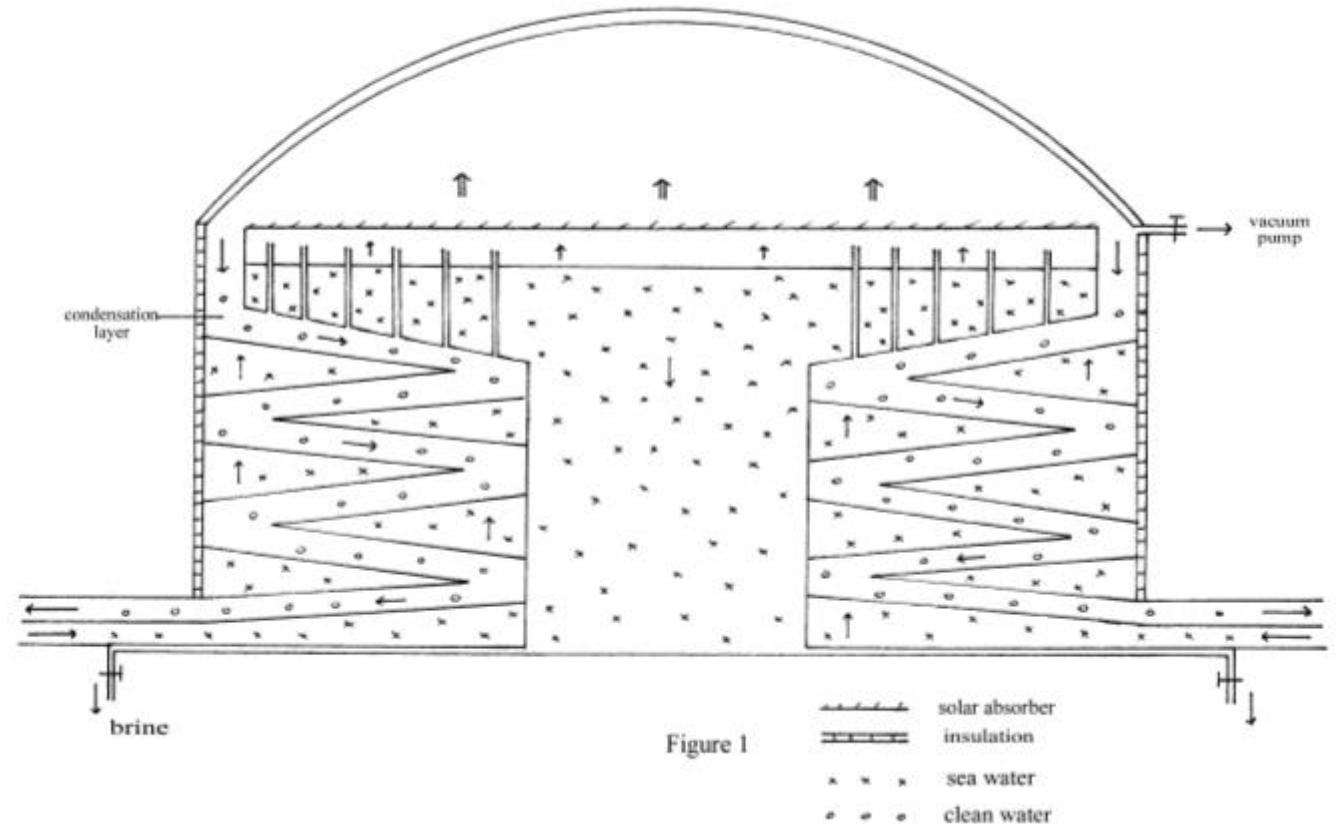
Source: Central Bureau of Statistics Aruba (2011).

# Solution: Resilient Circular Food System



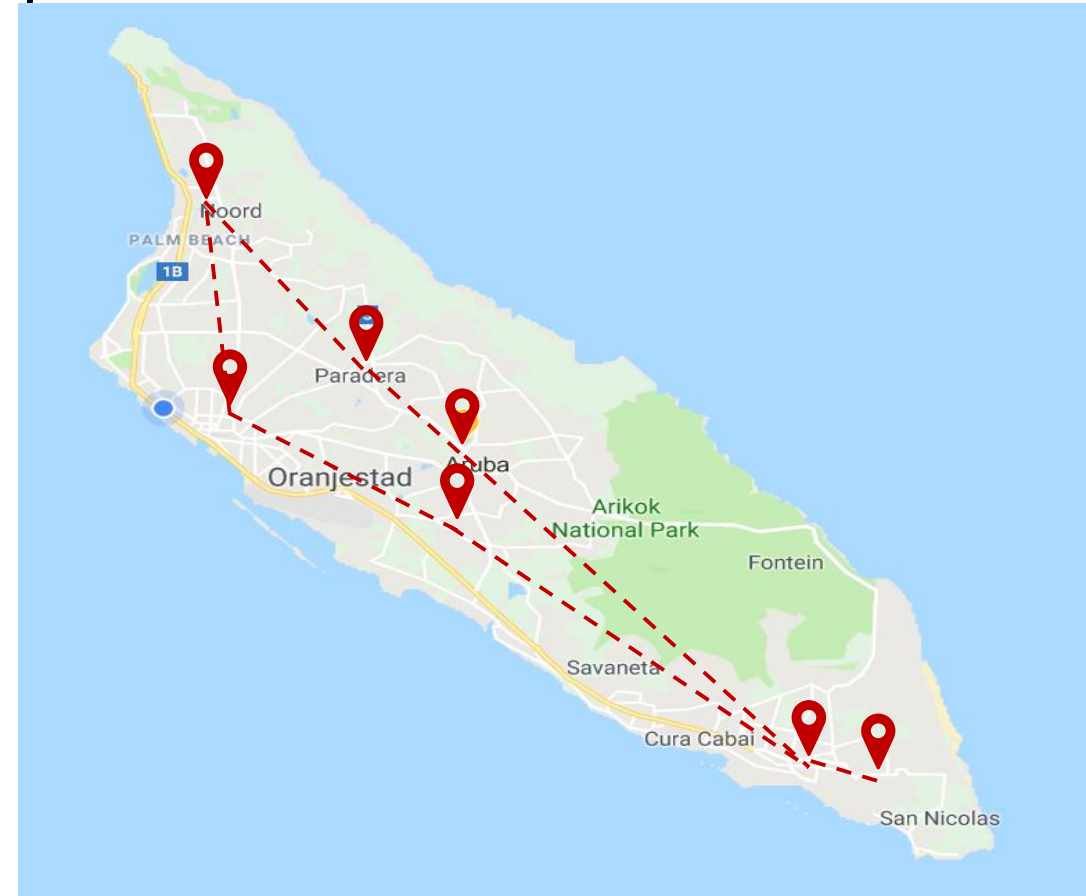
# Tech innovation

- Sea water desalination through solar thermal energy.
- Demo pilot R&D:
  - Local crops
  - Data collecting (e.g. sensory)
  - Community sharing App



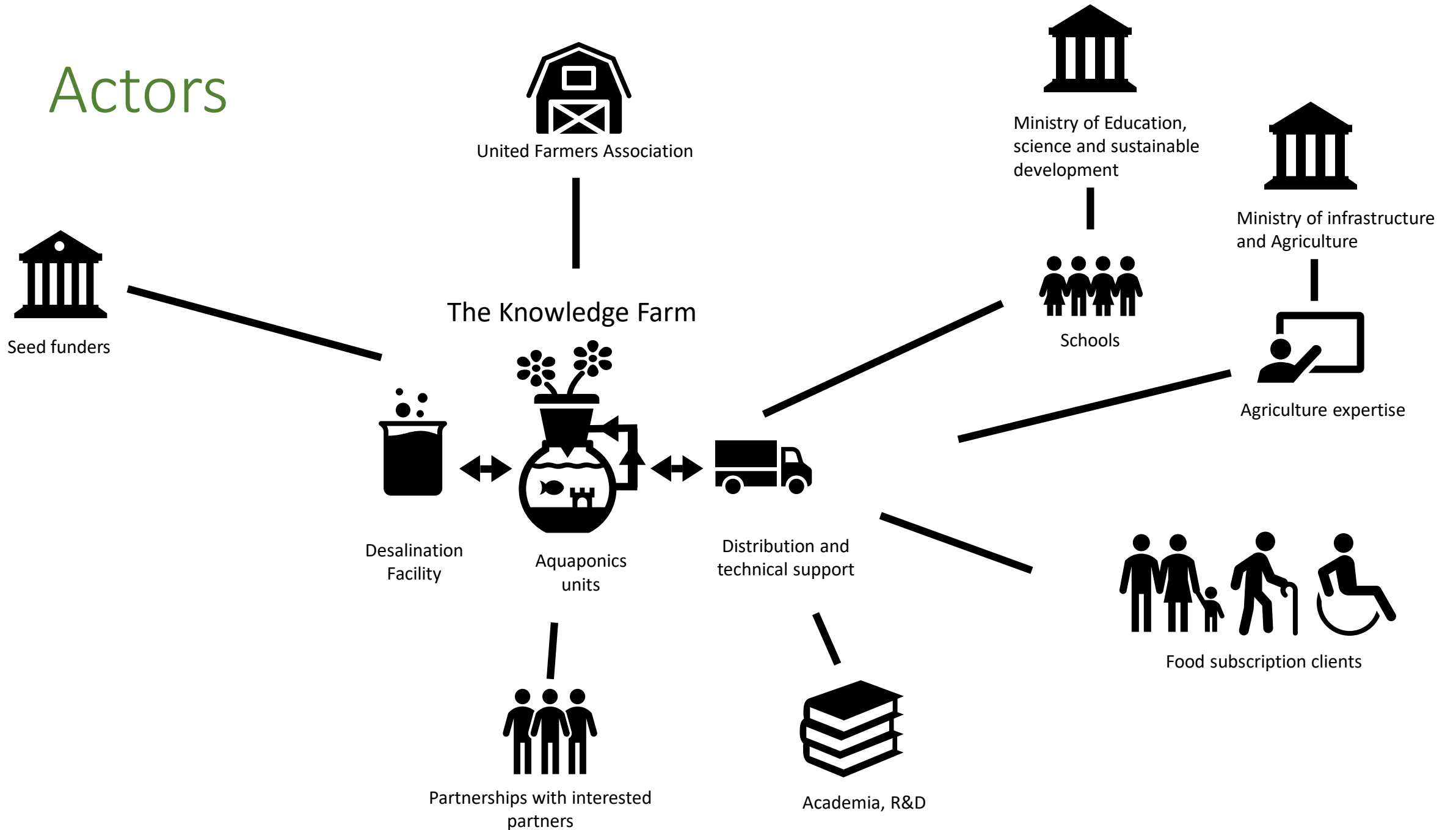
# Social innovation

- Aquaponics units and food subscription point at schools





# Actors



# Looking towards 2030

One Happy Island,  
One Happy Community



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