

THE MICROCOSMIC ECONOMY

A Hypothetical Comparison

2020 CASE STUDY

Tuvalu

Vs.

ABCDE City Project



**SPIRE
USA
INC.**

HYPOTHETICAL CASE STUDY OF A MICROCOSMIC ECONOMY

TUVALU VS. ABCDE CITY*

*Aqua-Agri Based Community Development Export City Project (ABCDE)



TUVALU

Population: 11,342

Area total: 26 sq km

Land use:

- Agricultural land: 60%

GDP: US\$42 Million

Total Unemployment: 20.6%

GDP Contribution sectors:

- **Agriculture:** 24.5% (copra, taro, banana, sugarcane)
- **Industry:** 5.6% (fishing, tourism, copra)
- **Services:** 70% (internet domain, regional air services)

Occupation: exploitation of the sea, reefs, atolls (only 8 out of 9 atolls are inhabitable due to poor soil conditions), and through overseas remittances (mostly from Tuvaluan sailors in New Zealand, and workers in the phosphate industry of the Nauru Island Nations).

The bulk of the nation's economy is based on subsistence farming, fishing/ fishing licenses, and the export of copra.

Land Issues: limited arable land and no natural sources of fresh water.

Source: CIA. (2019). Tuvalu. World Fact Book. CIA. Retrieved from: <https://www.cia.gov/library/publications/the-world-factbook/geos/tv.html>

ABCDE PROJECT CITY

Population: 10,000

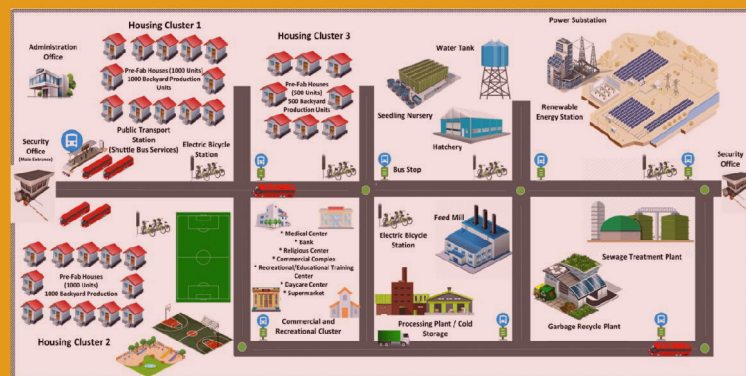
Area total: 0.6 sq km

Land use: Backyard Farming Units attached to 2,500 houses to produce (per annum):

- +/- 3,000 metric tonnes of organic freshwater fish
- +/- 24,000 metric tonnes of organic vegetables

GDP Contribution sectors:

- **Aqua-agriculture:** Organic fish, shrimp, and vegetables at the farming families backyard
- **Industry:** Fish, Shrimp, and Seedling Nursery/ Hatchery/ Feed Mill, Food Processing Factory, Renewable Energy Station, Sewage Treatment Plant, Municipal Waste Management
- **Services:** Bank/ Financial, Security and Management Offices, Medical / Health Facilities, Commercial Center, Educational Facility, Public Transportation, Access to a Committed Export Market



LABOR FORCE: 6,000
AVERAGE ANNUAL INCOME PER CAPITA: US\$8,500

Total Unemployment: 0%

Nominal GDP: US\$85.5 Million

FOOD PRODUCTION



NOT DEPENDENT ON WEATHER
NOT DEPENDENT ON SOIL & SPACE

TO GROW ECONOMIES & HUMANITY