

PARTNERS FOR DEVELOPMENT TANZANIA

2011

FACT SHEET

Population:	43.7 million
Population Growth:	2.9%
GDP Per Capita:	\$509
Life Expectancy:	56
Infant Mortality:	69/1,000 births
Malnutrition Prevalence:	25.3%
HIV Prevalence:	6.2%
Adult Literacy:	73%

SOURCE WORLD BANK 2009



TANZANIA OVERVIEW

Tanzania, located in east Africa, is one of Africa's most politically stable countries. Yet it remains a least-developed and low-income food-deficit country, with almost 80% of its population dependent on subsistence agriculture. Poverty remains widespread and recent statistics show Tanzania ranking 151st in the Human Development Index.

More than 40% of the population lives in chronic food-deficit regions where irregular rainfall causes recurring food shortages. An estimated 1.4 million people are living with HIV/AIDS, including over 140,000 children under the age of 15. This epidemic is exacerbating poverty, reducing agricultural productivity and the availability of farm labor.

Through support from the United States Department of Agriculture (USDA), Partners for Development (PFD) and local Tanzanian partners embarked on a significant income-diversification and food-security project in 2008.

PFD's Jatropha Agriculture & Nutrition Initiative (JANI) program has benefited 42,000 small-holder farmers across eight regions.

The main objectives of the JANI Project are to:

1. Diversify and increase the household incomes of targeted small-holder farmer families through training in the cultivation, processing and utilization of Jatropha curcas, and creating market linkages with buyers of Jatropha seed and oil;
2. Strengthen capacities of local partners to continue to promote the cultivation, processing, and marketing of Jatropha products by small-holder farmers beyond the life of the project; and
3. Improve food security and nutrition for Jatropha-farming households through community nutrition education campaigns and technical assistance in household food production.

MISSION:

Partners for Development's (PFD) mission is to work with underserved populations in developing countries to improve quality of life.

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WHAT IS JATROPHA CURCAS?



Jatropha is a tropical shrub whose oil-bearing seed can be used to produce many products, including:

- medicinal soap,
- liquid biofuel, and
- renewable biomass for cooking

The by-product seedcake can also be used as an organic fertilizer. Planted as a hedgerow it forms a living fence, which provides the farmer with additional income without taking field space needed for food crops.

Jatropha's tap root helps stabilize the soil and enables it to survive in harsh conditions. It can therefore be used to reclaim degraded land, where seed yield is not a concern.



JIKO MBONO

PFD has sub-contracted Kiwia & Laustsen, a Karatu-based company, to develop a top-lit up-draft gasification (TLUD) stove, Jiko Mbono.

Originally designed to be fueled by gasification of Jatropha seed, Jiko Mbono has been adapted to utilize fuel pellets made from Jatropha seed cake and rice husks. This utilizes the solid biomass previously discarded seed pulp left over after extraction of high-value Jatropha oil from the seed.

The pellet stove burns virtually smoke-free, and is more than twice as energy efficient as the traditionally used three-stone fire. It can be expected to reduce CO₂ and particulate matter emissions by up to 44% and 28% respectively.

Pilot household demonstrations have confirmed a high level of interest in reducing dependency on firewood as a source of cooking fuel in PFD's areas of implementation.

A prototype of Jiko Mbono has been tested and certified for efficiency, emissions and safety by Aprovecho Research Center.

To achieve these objectives, PFD activities include:

- Technical assistance and training in production and preparation of foods with high nutritional value,
- Training and support in the establishment and management of plant nurseries and seed collection and marketing centers, and
- Working with communities to help set up community care committees and 'kitchen' gardens to grow vegetables for home consumption.

Working with 12 local partners, PFD has introduced 42,000 farmers in 756 farmer groups in 249 villages to the economic value of Jatropha and trained them on production and utilization.



JANI trained 3,800 people in eight communities in bio-intensive gardening, composting, deep-dug beds, sack gardens and integrated pest management



JANI trained 75 community vaccinators, leading to the vaccination of over 560,000 poultry to combat Newcastle Disease, which kills 70% of local poultry



JANI helped ten communities build 61 water storage hafirs to provide irrigation for kitchen gardens in the dry season

PARTNERS

Pamoja Inc: An American NGO specializing in institutional capacity building.

Faida MaLi: An Arusha-based NGO linking producer groups with markets.

Global Service Corps Tanzania (GSC-TZ): An international volunteer-based organization promoting sustainable agriculture, nutrition and health.

Local Outreach Partners (LOPs): A group of grass-roots NGOs and community based organizations who are implementing activities in communities where PFD does not have a physical presence.

Local businesses: JANI collaborates with local businesses engaged in Jatropha processing and marketing, including Tanzania, Ltd, the largest Jatropha processor in the country.

FOCUS ON SUSTAINABILITY: GOING GREEN WITH JATROPHA

Many Jatropha initiatives in Africa are premised upon the production of bio-diesel for an external market, often involving the large-scale replanting of forest land with Jatropha.

JANI places major emphasis on the integration of Jatropha into small-holder farming systems, and local utilization to meet household energy needs.

Tanzania has one of the highest rates of deforestation in Africa, and lost 37% of its forest and woodland cover between 1990 and 2005. Over 95% of rural Tanzanian households rely upon non-renewable solid fuels (firewood and charcoal) for their cooking needs and an estimated 70% of deforestation is due to fuelwood harvests.