

# **Tanga Cashew Project**

**A Sustainable  
Development project  
for Tanzania**



Tanga Cement/BETL

UNDP GSB Forum

# Tanga Cashew Project

**Background**

**Project description**

**Project benefits**

**Next steps**

# Project Partners

## **Tanga Cement Company**

- **1 cement plant in Tanga region**
- **Production capacity 500,000 tonnes**
- **Workforce of 325**
- **Part of the Holcim Group**

## **Biomass Energy Tanzania Ltd (BETL)**

- **Promoting alternative renewable energy**  
**e.g. Biomass briquetting, industrial fuels, bio-diesel**
- **Integrated waste / energy schemes**
- **Clean Development Mechanism (CDM) projects**

# **Biomass = fuel source for cement kilns**

**Tanga Cement seeking Alternative Fuels & Raw materials (AFR)**

**BETL identified agricultural waste as biomass fuel**

**Cashew nut waste an excellent source of biomass**

## **CASHEWS:**

- High proportion of waste product**
- Suitable crop for Tanga region**
- Potential premium product for Tanzania**



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# Tanga Cashew Project

## **Project to set up:**

- **Smallholder cashew farm + cashew processing operation in Tanga**
- **Biomass waste management**

## **Project deliverables:**

- **Cashew nuts for sale and export**
- **Biomass waste (AFR) for Tanga Cement**
- **A model of sustainable development in action**

# **How the project works**

- Farm concept**
- Cashew processing & sale**
- Waste to energy**

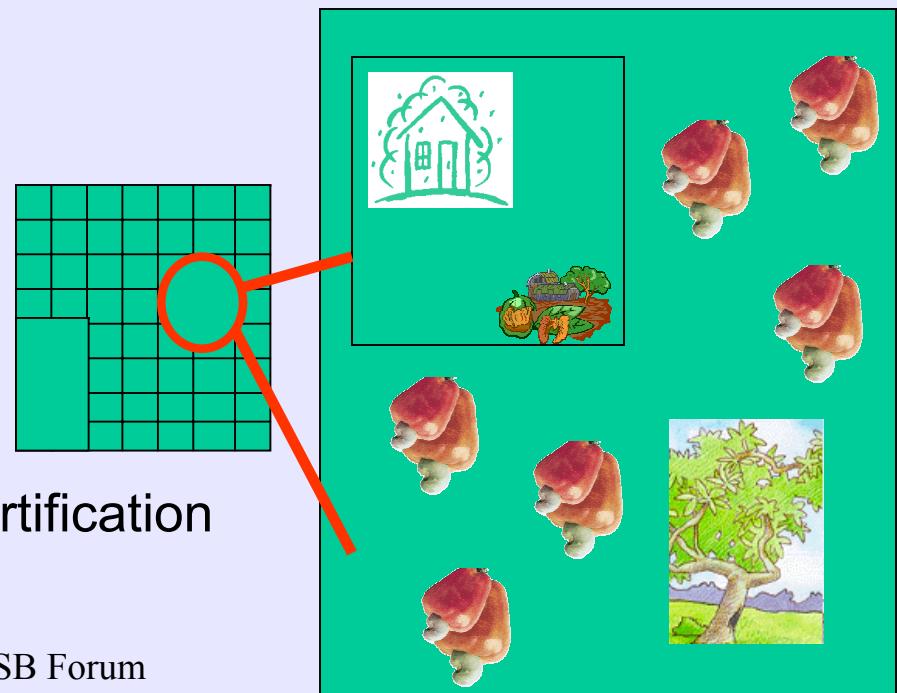
# The Farm Concept

**Smallholder farming cooperative**

**'Project' will provide farmers with:**

- Share in farm & processing business**
- 5 acre blocks**
- Agriculture training**
- Stable pricing**

\* Organic farming & fair trade certification possibilities



# Cashew Processing & Sale

## **Cashew processing:**

- **Sorting, roasting, packaging, marketing**
- **Local and export sales**



## **Processing operation will provide:**

- **Job creation**
- **Attract increase in related commercial activity**
- **Shift away from low margin exports of unprocessed nuts**
- **Increase foreign exchange income and government income from taxes**



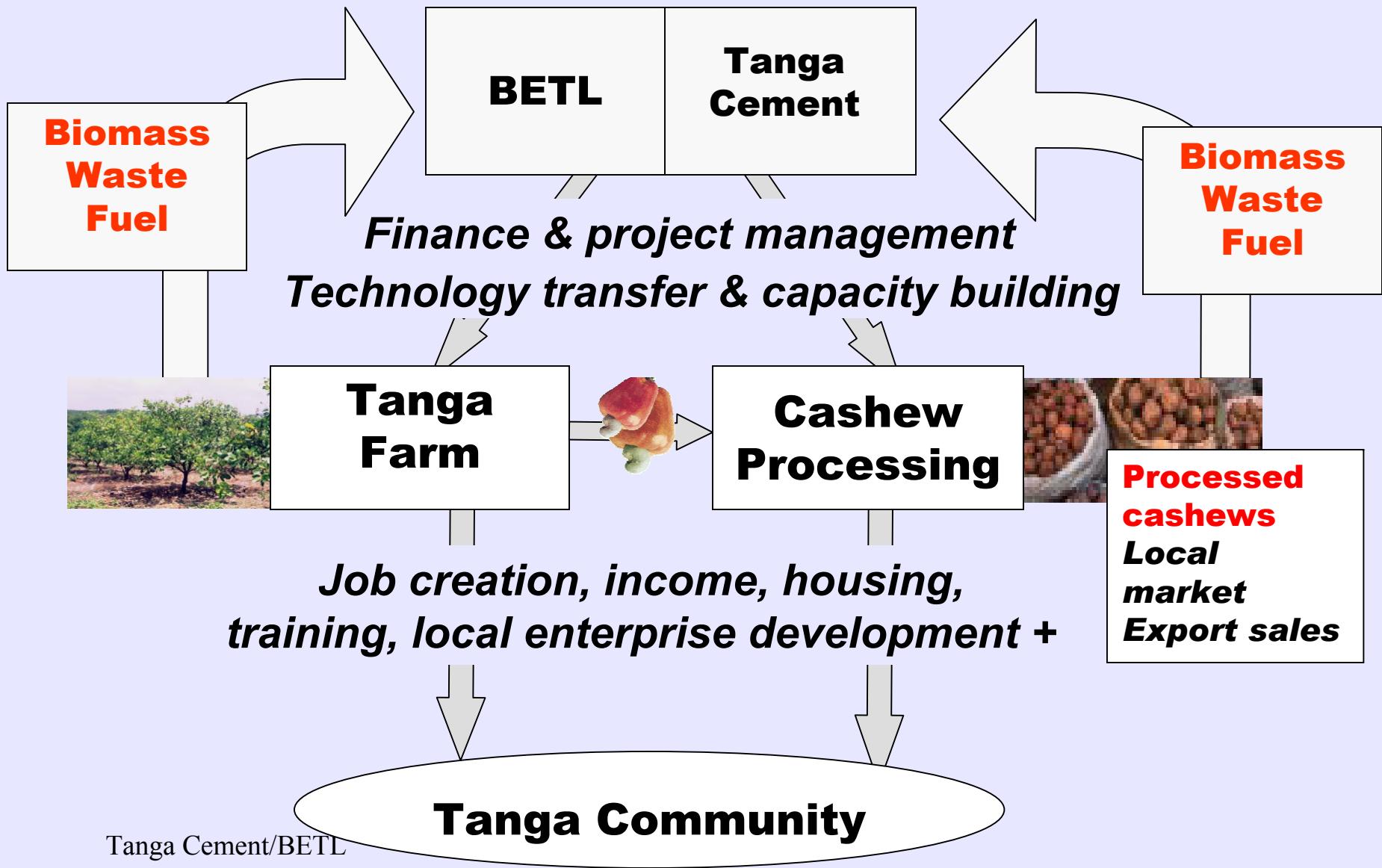
# **Waste to Energy**

**Tanga Cement to use biomass in cement kiln**

- Opportunities for biomass waste to also replace charcoal for domestic energy needs**
- Cashew nut shell liquid has other productive industrial uses**
- Organic fertilizer**



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# **Who benefits and how?**

## **Local farmers**

- Access to land and credit**
- Capacity building**
- Price stability**

## **Tanga community**

- Employment**
- Local commercial activity**
- Infrastructure and services**

# **Who benefits and how?**

## **Cashew industry**

- **Streamlining supply chain**
- **Contribution to stabilizing market**
- **Shift to local cashew processing**
- **New ‘premium’ export product**

## **Tanga Cement Company**

- **Removes fuel risk**
- **Reduced fuel costs**
- **Social and environmental contribution**

# **Additional future benefits ...**

**Project model for other areas/products**

**Corporate social responsibility**

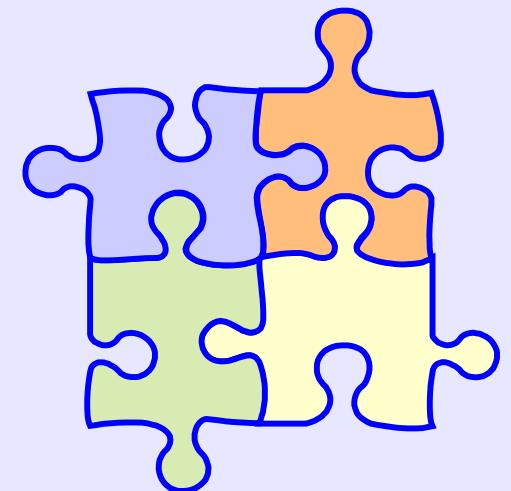
**Cement for low cost housing**

**Extended capacity building efforts**

**Clean Development Mechanism**

**Emission Reduction Credits**

**Other ‘industrial ecology’ linkages...**



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# **Next steps**

**Project Implementation will require:**

- Company formation**
- Financing**
- Social & environmental impact assessments**
- Stakeholder engagement**
- Land acquisition**
- Outgrower integration**

# Challenges

- Local government & tax administration
- Land acquisition
- Value adding to cashews
- Clean Development Mechanism
- Outgrower integration



# **Sustainable development in action**

## **What can the project achieve?**

- **Social** – poverty alleviation through job creation, enterprise development, and capacity building.
- **Economic** – economic contribution to region, strengthening cashew industry, energy savings for company.
- **Environmental** – renewable biomass energy source = neutralization of greenhouse gas emissions.