ABOUT US:

Green Afro-Palms (GAP) is a young agro-company in Ghana-Africa operating on the oil palm value chain. The GAP idea is primary based on oil palm farming, with a drive of innovation to achieve environmental and socio-economic impact for African communities and to affect the African environment positively.

The CHALLENGE:

The challenge, of small scale farmers in oil palm cultivation and processing is similar to all the oil palm producing countries in Africa including Ghana, the location of Green Afro-Palms (GAP) and GAPROTECH solution.

The West African belt from Angola to Senegal survives the oil palm crop; with Nigeria, Cote d’Ivoire, Cameroon as major producers and Sierra Leone, Liberia, Benin least producers. In these countries, over 70% average of oil palm cultivation is by small scale farmers who lack resources and technologies to capture the full potential of the crop both economically and environmentally. In Nigeria (Africa’s major producer), more than 80% of oil palm are controlled by smallholder farmers (65% women) who to-date use unimproved processing technologies resulting in lower production making Nigeria's once-thriving oil palm industry now one of the most failed economic opportunities in Africa. (IPPA, 2010). Majority of oil palm farmers in Ghana and Africa now, out of insufficient economic gains from their activities, resort to given their farms and lands for Illegal mining and logging activities, which is destroying farm lands, stripping forestation and leaving waters polluted- a threat to climate change and food security.

www.gapworld.org
Improving **OIL PALM** processing with **TECHNOLOGY**

**In AFRICA**

**The SOLUTION:**

GAP has designed a solution dubbed **GAPROTECH** in response to post-harvest processing challenges of the African smallholder farmer. **GAPROTECH** coined from GAP Processing Technology is an agric-machinery technology (40,000 usd. per a 1.5 ton/hour set; locally manufactured in Ghana-Africa, with locally sourced materials) that is tailored designed for the needs of small farmers’ post-harvest processing to provide FEE (Fast, Easy and Efficient) processing services. This technology allows farmers to utilise solar as source of energy, to process 2.5 times more oils from their oil palm yields to earn 3 times more than their initial incomes whilst producing biogas from the processing wastes as a by-product (a proprietary function) which farmers can use as fuel for cooking in their homes. **GAPROTECH** designed by GAP, seeks to solve the challenge of post-harvest losses faced by smallholder farmers by aiding them with efficient yet affordable processing technology to increase the production of small scale farmers and thus augment the total production of oil palm and its processed products from Africa.

GAP is presently using the **GAPROTECH** in making existing oil palm trees productive preventing their felling for activities such as illegal mining and logging and now generating sustainable livelihoods for the actors (farmers, processors and marketers) who are 70% women and we hope to extend this solution other cultivation nations across Africa for the benefits of smallholder farmers in the oil palm value chain.

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Improving OIL PALM processing with TECHNOLOGY

GAPROTECH

Simple Improved Machinery
- Locally Manufactured
- Locally sourced Materials
- Proprietary (ZERO – WASTE)

www.gapworld.org
Fruit Cookers (Threshed Sterilizers)

www.gapworld.org
Screw Press (1.5 ton/hr)
GAP- OIL PALM PROCESSING OPERATIONS
Ghana-West Africa

GAP to Own LANDS &
10 ton/hour mill

GAP to Farmers
(Fruits Supplies)

GAPROTECH
1.5 ton/hour mill

www.gapworld.org
Processing of Oil Palm Fruits using GAPROTECH’s 1.5 ton/hr. Screw Press.