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DESIGNING, DRAFTING, MANUFACTURING, RESEARCH & DEVELOPMENT

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ECOR SELF SUSTAINABLE SEWAGE & CONVERSION PLANT (E S S C P)

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Putting Food first to avert a crisis for the poor

By Tom Arnold-Concern Worldwide Chief Executive Officer

Food crisis- crippling market volatility whose net effect has been a sustained increase in food prices, wreaking havoc on the worlds' poor.

World Bank president Robert Zoellick starkly puts it- "We're one event away from a crisis"

●We are at that point already: - Per the World Bank, since June 2010, another 44 million people have fallen into poverty, because of the spike in food costs, every minute another 170 people join the ranks of the extremely poor, those who spend on average 85 cents of their daily budget of $ 1.25 on food…. the worlds' poor are terribly vulnerable. Its high time for decisive action in rolling out short-term and longer-term measures.

Right away, we must launch targeted nutrition interventions for the most vulnerable. Research shows that proper nutrition in the first 1000 days of a child, life – from conception to two years old- is crucial in insuring proper physiological development.

● Schemes must be put in place with the financial means and technological capacity to do so.

● There must be significant investment in agriculture and the entire food process, from harvesting and processing farm products to sale in the market place.

We also need to invest in agricultural research to find ways to boost crop yield- more food must be grown on the same amount of land. This will require scientific breakthroughs.

There won't be a simple solution. What's called for is a combination of carefully chosen and calibrated measures. What has become crystal clean, however, is the importance of the participation of civil society -NGO, s included- in developing solutions and putting them into practice. These are not issues governments can or should handle on their own.

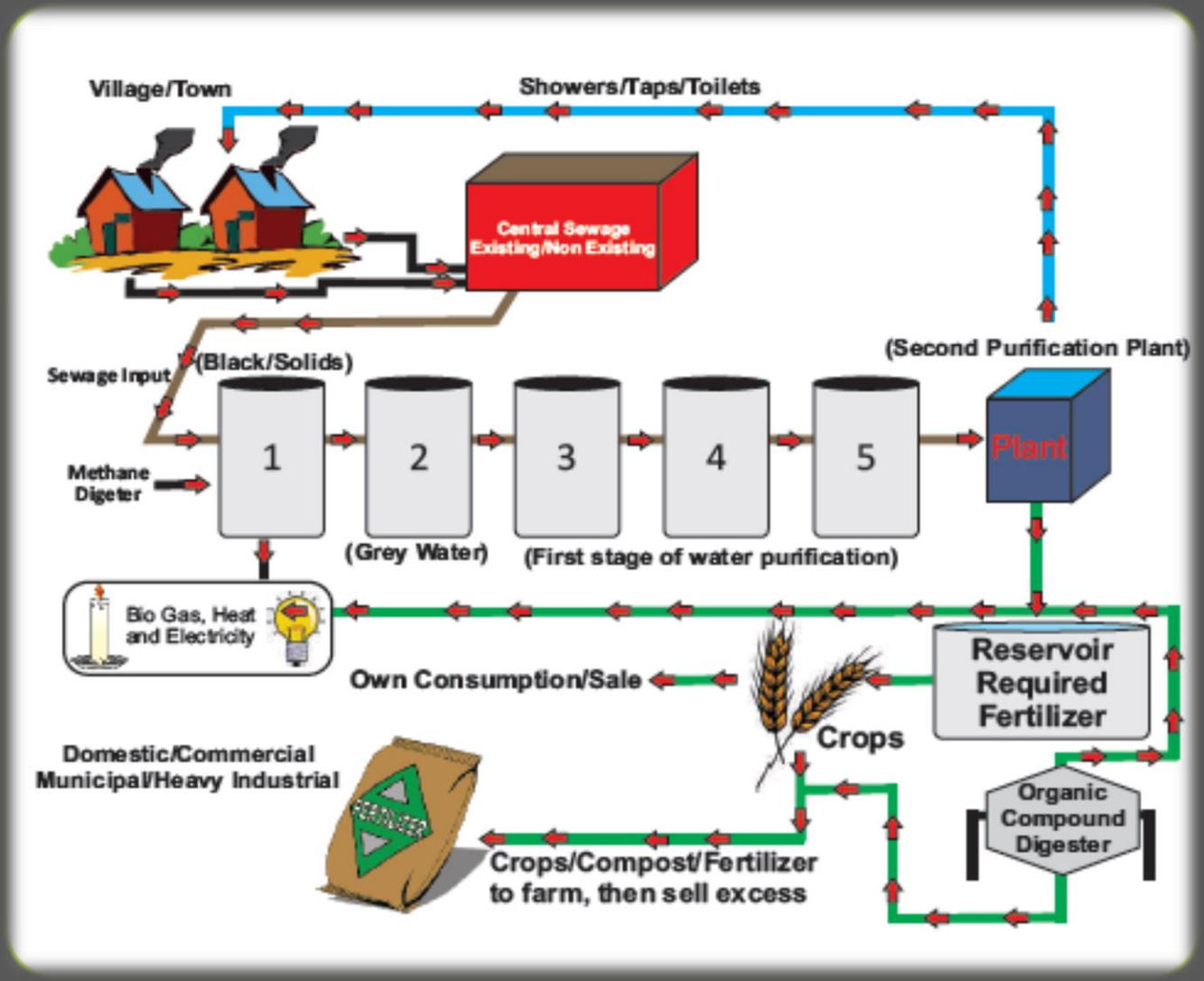
Mr. ZOELLICK said; - "Our message to our clients, whatever their political system, is that you cannot have successful development without good governance and without the participation of your citizens"

……civil society has a critical role in designing development programs alongside responsibilities in matters of governance.

ECOR can assist with layout of sustainable vegetable gardens.

*****ECOR strives to help our communities, while drastically reducing global warming. *****

- Our project will protect our globe, prevent health risks (Over 80% of diseases in Africa are Water Bourne) and the injuries and drowning of children because of the open sewage manholes.



- This solution is aimed at low costing housing developments, where there are little or no sewage systems intact.

- This is a self -sustainable plant- minimum maintenance required.

- It encourages food security

- It creates jobs.

- Communities/households can grow their own Organic vegetables therefore living much healthier lives, reducing living costs etc.

- Those with entrepreneurial skills can use this opportunity to sell the vegetables to the community.

- Smaller plants work on Gravity feed system and requires NO ELECTRICITY

- There are a lot of people in great need of better and healthier lives- We can and must make a difference-

NOTES:

1) Plants can be built to your needs, requirements and to suit any capacity, from domestic households to large communities.
2) Systems can be coupled to existing Sewage networks. Existing sewage plants are overloaded and wasting valuable fertilizer, nutrients and Biogas.
3) Lids and manholes are made of Re- enforced high quality concrete as cat iron lids are frequently stole and drowning of children, falling into open man holes is common.
4) All Sewage digesters tanks will be lined with fibre/polymer. Impossible to leak.
5) Preventative maintenance by ECOR. Quarterly monitoring and In-House training to the customer/community to operate plants are ECORS standard operating procedures (Day to day checks)
6) Built – in warning devices to prevent failure
7) Carbon foot print almost 0%.
8) Dimensional footprint - far less than conventional aerobic plants.
9) By- products such as Biogas; liquid fertilizer- can be utilized for heating, plant food, irrigation. (Underground irrigation) On large plants where suitable Biogas can be harvested, it will be possible to generate electricity
10) Bigger plants will be fully automated.
11) Plants are designed on an anaerobic self- sustainable basis. Little or no chemicals
12) Quality of effluent will exceed minimum standards.
13) Lightning arresters can also be installed on effluent side, with almost a 100% result.

***Our home base plant was plagued with catastrophic lightning damage. Since the installation of the lightning arrester in 2004 it never occurred again. ***

Structural life expectancy of plant 50 years and more

We Have a prototype of the project to view at our premises.

This process was researched, developed and refined over a period of 16 years.