20th May 2021, 12:00-14:00 (GMT)



Sustainable food systems: the key role of SMEs and businesses













Solar-powered cold storage for developing countries

designed to greatly reduce post-harvest loss for 470 million small farmers in Africa, Latin America, and Southeast Asia

INTRODUCTION



Nnaemeka C. Ikegwuonu

Farmer, innovator, leading social entrepreneur; Founder/CEO of the Smallholders Foundation Ltd./Gte (2003) – ColdHubs (2015)

Created Smallholder Farmer Rural Radio, The Agriprenuership Academy, The Smallholders Seed Store, Smallholders Microcredit, and GrainStore polypropylene bags (grain preservation bags).

Highly honored within the agricultural development space with more than 30 local and international awards - Ashoka Fellow 2008, Rolex Awards 2010, Fast Company's 100 Most Creative in Business 2012, Nigeria's Young Person of the Year 2011, Niigata International Food Prize Laureate, 2012 and 2013 Laureate of the Yara Prize for Green Revolution (Japan).











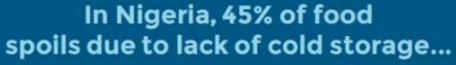






PROBLEM







...this causes 93 million small farmers to lose 25% of their annual income.

Source: Rockefeller Foundation; Food Waste and Spoilage Initiative 2014

Refrigeration can be used to extend shelf life but is non-existent in Nigerian farms clusters, aggregation centers and marketplaces.

Most solutions are not rugged enough to withstand harsh conditions

Power grids are not capable of delivering reliable energy

Most equipment is too costly for the average farmer to purchase





In 2015, we launched ColdHubs; 100% solar-powered walk-in cold stations for 24/7 storage and preservation.



DANGER

POSTHARVEST EDUCATIONAL MANAGEMENT (PHM)

COMIC





Educational Comic for PostHarvest Management Programme

BY SMALLHOLDERS FOUNDATION & COLDHUBS



Extends the shelf life of perishable food from 2 days to 21.







Solar powered ice blocks for cooling drinks; vaccines etc



We charge up to 0.26 USD/night to rent 1 plastic 20kg crate of produce 1.32USD/night for meat & fish storage Each station holds 150 crates - up to 75 – 198 USD/day in revenue



4 YEAR IMPACT OF 54 HUBS



42,024 tons of fruits and vegetables saved from spoilage



5,250 farmers, retailers and wholesalers have increased their income to US \$120



66 jobs created for women as Hub Operators and Market Attendants



1,040,688kg tons of CO2 saved

EXPANDING

Owns and operates 54 ColdHubs, across Nigeria

Projecting at least 100 new ColdHubs and 20 IcePoints by the end of 2020



THE TEAM



Bright Benjamin Igbokwe COO

Experienced business
development manager with
extensive expertise in agribusiness
startups, rural logistics,
distribution, commercial strategy,
contract negotiations, business
processes, and team building.

Masters in Business Administration Imo State University, Nigeria



Chidubem Maxwell CTO

Electrical and electronics engineer, with extensive knowledge and expertise in clean energy, solar cells, batteries, air conditioning, cold room design, and refrigeration.

HND, Electrical & Electronics Engineering, Federal Polythenic Nekede, Owerri, Nigeria



Terence Usibe Finance and Admin

Experienced office and finance administrator managing our accounts within local and international standards.

HND in Accounting Imo State Polytechnic Umuagwo

BOARD



CJ Uzoho Commercial Manager Gas Aggregation Company of Nigeria

energy economist, business development expert with extensively knowledgeable and experience in energy related transactions.

> Masters in Energy Economics University of Dundee



Osayuki Eguasa Financial Manager, All ON Energy Impact Investors

economist with expertise in financial Planning / Forecasting, budgeting Budgetary Controls, Stakeholder Engagement and Corporate Finance.

BSc Accountancy, University of Benin, Nigeria



David Ruben Advisory Board

Consultant to The Rockefeller Foundation Food Initiative,

BSc in International Business (Copenhagen Business School), an LLM in Public International Law (Stockholm University), and an MSc in Foreign Service (Georgetown University).



















ILK Dresden



Institut für Luft- und Kältetechnik gemeinnützige Gesellschaft mbH







KING BAUDOUIN FOUNDATION

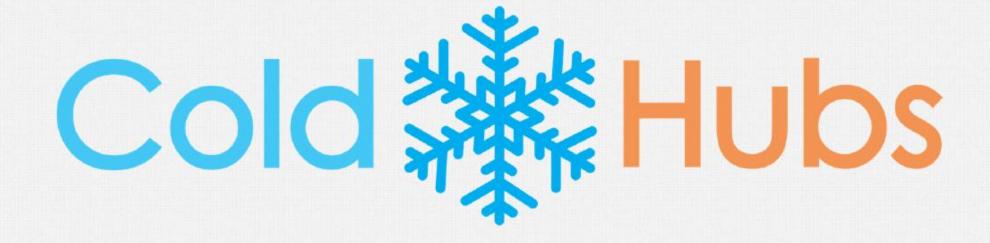


Department for International Development



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This series of events is organised by PAFO and COLEACP. COLEACP operates within the framework of development cooperation between the Organisation of African, Caribbean and Pacific States (OACPS) and the European Union (European Development Fund – EDF), with the support of the French Development Agency (AFD).

