

ADDRESSING POST HARVEST LOSSES (PHL) IN SUB-SAHARAN AFRICA (SSA)

The food lost to Post Harvest Loss (PHL) each year is enough to feed the total number of undernourished people

 **<1bn** people are undernourished

 Crops produced & not consumed can feed **>1.6bn**



SOLUTIONS EXIST THAT CAN BE IMPLEMENTED TO REDUCE POST HARVEST LOSS PHL



MOBILE PROCESSING UNITS **Metal Silos** **MOBILE/SOLAR DRYING** **Direct Sourcing** **GRATERS & PRESSERS** **Liquid Air Refrigeration: IQF Freezing** **GUM ARABIC COATING** **Super Grain Bags** **Supply Chain Technology Platforms** **Liquid Air Refrigeration: Cold Storage** **HERMETIC STORAGE BAGS** **SOTIS** **PLASTIC FARMING** **Heavy Moulded Plastic Containers** **Growtainers** **Collection Centres** **Low Energy Cooling** **Warehouse Receipts System**

THESE SOLUTIONS NOT ONLY REDUCE PHL; THEY ALSO DRIVE POSITIVE IMPACT IN 3 WAYS

01  **HEALTH IMPACT**

02  **ECONOMIC IMPACT**

03  **ENVIRONMENTAL IMPACT**



SUSTAINABLE PHL REDUCTION CAN BE ACHIEVED THROUGH COLLABORATION BY STAKEHOLDERS ACROSS THE AGRICULTURAL VALUE CHAIN IMPLEMENTING MARKET DRIVEN SOLUTIONS

THESE TECHNOLOGY SOLUTIONS SHOULD BE IMPLEMENTED IN COMBINATION WITH



1 Improved linkages between smallholder farmers and market demand



2 Access to finance for smallholder farmers and other value chain actors



3 Smallholder farmer training and aggregation to facilitate technology adoption and market linkages

 **95%**

of food losses occur as Post Harvest Loss (PHL) before products reach the consumer³

Sources: ¹World Hunger Education Service, 2013, 'World Hunger and Poverty Facts and Statistics'. Available at: <http://www.worldhunger.org/articles/Learn/world%20hunger%20facts%202002.htm>

²United Nations Department of Economic and Social Affairs: Population and Development Database. Available at: <http://www.un.org/en/development/desa/population/publications/development/population-development-database-2014.shtml> ³Reducing Food Loss and Waste', World Resources Institute. This is based on an assumed daily caloric intake of 2,500 per person and total food wasted of 1.5 quadrillion kilocalories. Global Food Losses and Food Waste', FAO; FAOSTAT Salami A., Kamara A. and Brixiova, Z., 2010, 'Smallholder Agriculture in East Africa: Trends, Constraints and Opportunities'. African Development Bank. Available at: <http://www.afdb.org/fileadmin/uploads/afdb/Documents/Publications/WORKING%20105%20PDF%20d.pdf> Food and Agriculture Organisation, 2013, 'Food Wastage Footprint: Impacts on Natural Resources'. Available at: <http://www.fao.org/docrep/018/i3347e/i3347e.pdf> Partnership for Aflatoxin Control in Africa, 2013, 'PACA Strategy 2013-2022, Available at: <http://www.aflatoxinpartnership.org/uploads/PACA%20Strategy%202013-2022-%20FINAL%20formatted%20for%20A4.pdf>

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