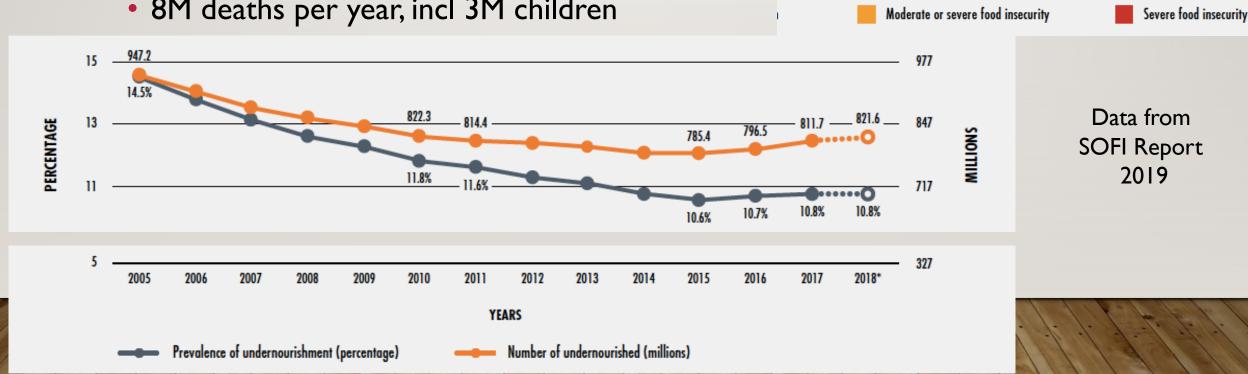


LOCAL JOBS FOR WOMEN TO TACKLE MALNUTRITION

- APPROPRIATE SOYFOOD TECHNOLOGY SOLUTIONS -

Problem Statement

- Number of undernourished and food insecure rising in recent years
- Massive numbers: over 1B food insecure in Asia and 700M in Africa
- 8M deaths per year, incl 3M children



Total population 4 545 million

ASIA

1 039

Total population 1 288 million

AFRICA

Solution: Deep Impact at the Base of the Pyramid

- Solve chronic malnutrition with affordable, accessible nutrient-dense food
- Provide a platform for local, sustainable micro-enterprises
- In Malawi, 200 SoyaKits, 1,200 in 2020 and now being scaled up to 4,000+
- Empower rural women and youth
- Provide a revenue stream for local agencies / NGO's







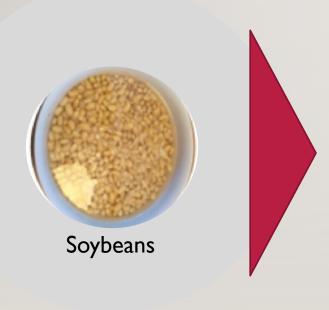
Daughter and friend of Masha Chiposyo, SoyaKit entrepreneur in Malawi, drinking soymilk

The SoyaKit

\$200 kit that transforms locally grown soybeans into tasty, high-protein products and enables women entrepreneurs to earn \$3 - 12 / day in profits



Soy milk







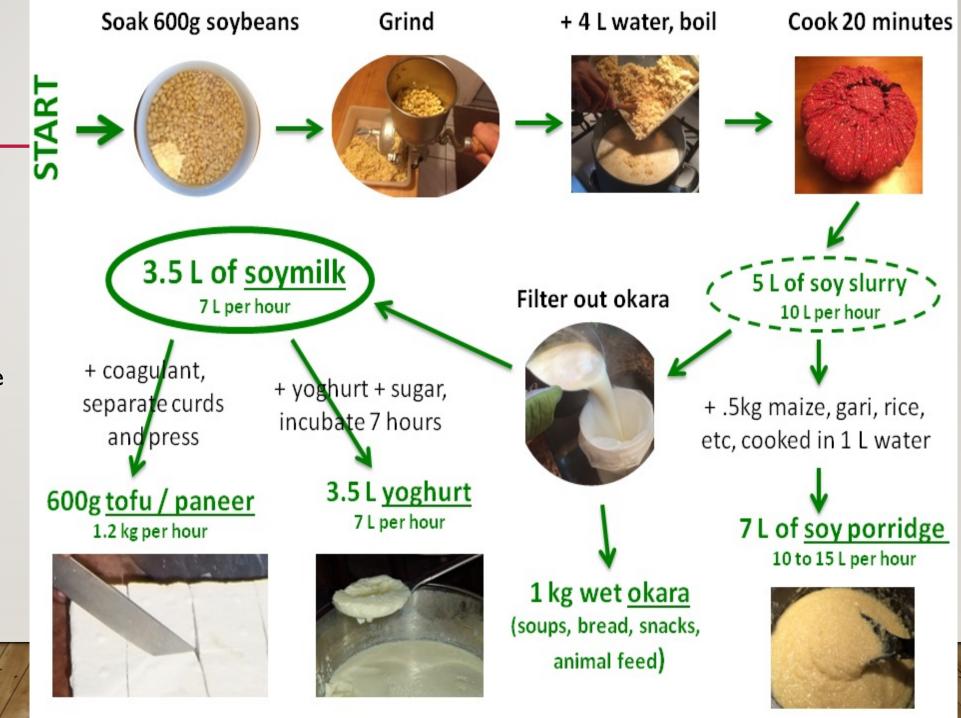
Soy yogurt



Tofu

SOYFOODS PROCESS - SOYAKIT

Complete Trainer's Guide and User's Guide available



Tasty, highly nutritious products







Soy yogurt



Tofu

others

- Delicious and meet local tastes w various flavors
- Local source of safe, protein-rich food
- Less than ½ the cost of eggs, chicken or dairy milk
 (as low as I cent retail / gram protein)

Life-changing Impact with the SoyaKit

- Zione Charles, a single mother supporting 5 children in rural Malawi, sells food made with the SoyaKit
- "I am now able to support the school-going children, in the past I could not even afford a notebook for a child to use in class. I could say that I was poor because sometimes my family could go without meals, but now things have changed a lot."
- Profit of between \$25 and \$50/week from 12 to 16 liters of daily soymilk production and sales



Zione Charles, seen on the right, selling a cup of freshly-made soymilk to a customer

Women Entrepreneurs' Daily Profit

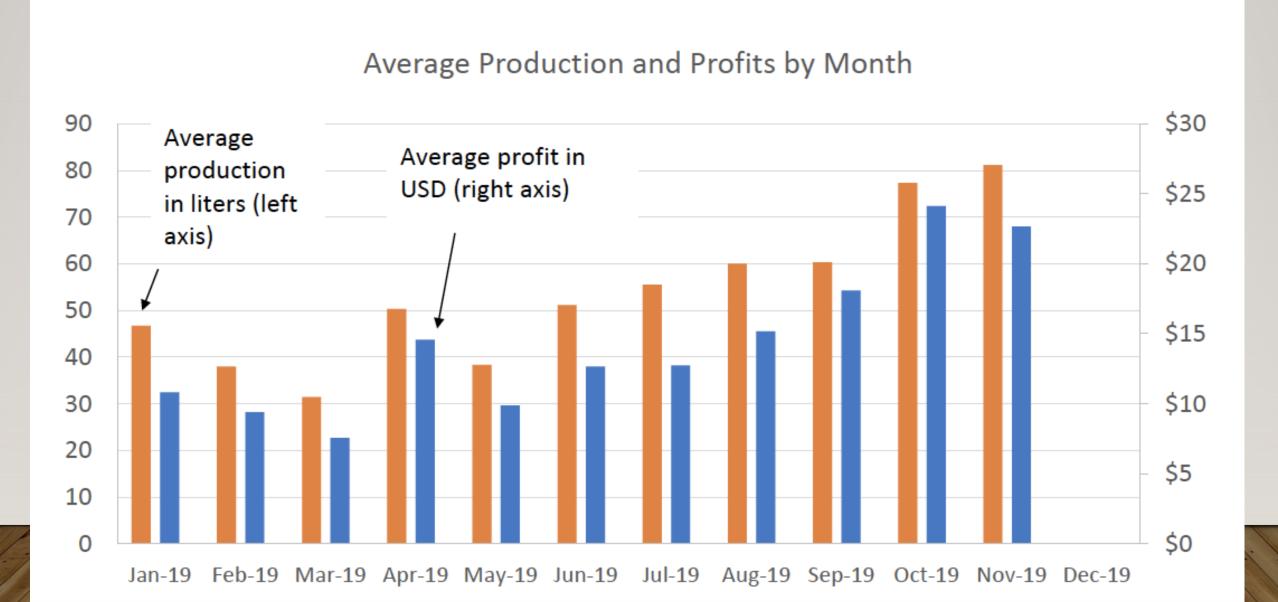
Product	Costs	Price	Profit
Soymilk (21 L)	\$4.50	\$10.50	\$6.00
Soy Yoghurt (21 L)	\$5.00	\$21.00	\$16.00
Tofu Kebabs (3.6 kg)	\$4.25	\$12.40	\$8.15

Profits based on 3 hours of SoyaKit production for EACH food type

Figures based on field experience: local costs in rural Africa & competitive retail pricing

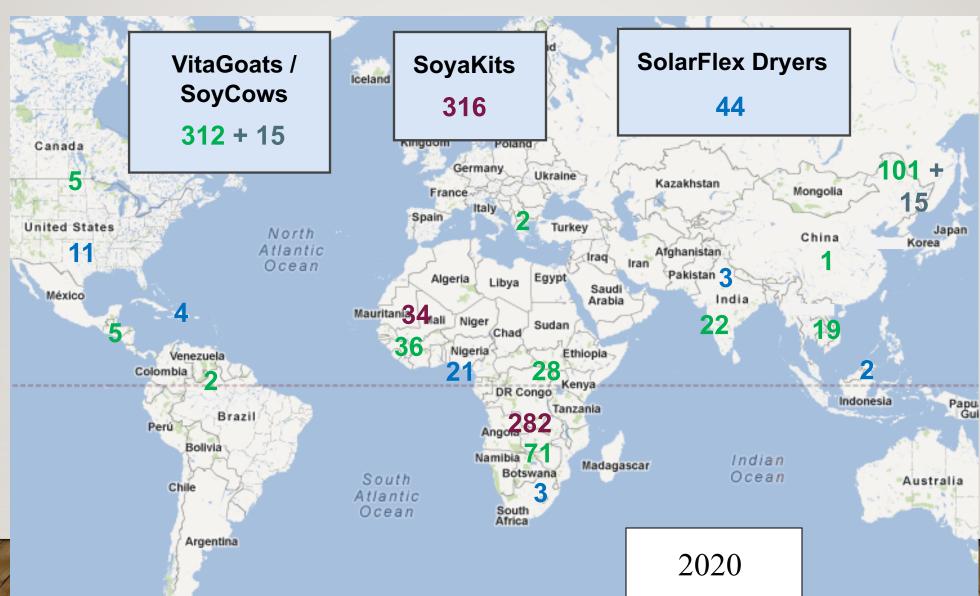


Women Entrepreneurs: Profit in Malawi



VitaGoat, SoyCow, SoyaKit and SolarFlex Installations by Region





Current Impact

- 170,000 daily beneficiaries of protein-rich foods now
- \$2.5M cumulative profit for micro-entrepreneurs, mainly women
- 500 entrepreneurs now making annual profit of \$600 each
- I,000 people trained in small-business basics

MEDA employee in northern Ghana, training other rural entrepreneurs to operate the SoyaKit







IMPACT PATHWAY







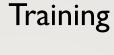




Mission	Activities	Outputs	Outcomes	Impacts
Equip Africans & Asians to profitably eliminate malnutrition	 Design food processing technology Manage fabrication of food processing equipment Develop and deliver operations training Develop and deliver business training 	 Units delivered Entrepre neurs trained 	 Micro – enterprises established Sales / profits Women and youth employed Customers served Protein and micro-nutrients delivered Customers' food savings Increased farmer income 	 Reduced deaths Children: reduced stunting improved physical and neurological development Children: Improved educational outcomes Adults: better health Improved gender equity Increased human capital Improved local economy Improved environmental sustainability

Whole Product

Core Product: SoyaKit or SoyCow











Micro-Financing or Pay-as-you-Go, via partners

Micro-Enterprise Incubation Support

Success Stories: Rural Malawi



- 2018 30 SoyaKits
- 2019 200 SoyaKits
- Average profit of \$24/month
- Payback 4 to 8 months
- Adult & student customers



Daughter and friend of Masha Chiposyo, SoyaKit entrepreneur drinking soymilk

Success Stories: Rural Ghana



- 2017/8 30 SoyaKits
- \$12 average profit/day
- Payback < 2 months
- Student customers



Student customers enjoying their fresh soymilk

Value Proposition for the Entrepreneur

Who wants/needs a job, increased income and improved nutrition for their family

The **SoyaKit** is a food processing solution

That provides a micro-enterprise platform to enable time-and fuel-efficient production and sale of affordable, tasty, high-protein foods

Unlike risky laying hens or other animal husbandry, yielding eggs/milk/meat, the SoyaKit delivers locally made soyfood protein at less than $\frac{1}{2}$ the retail prices

Our solution enables flexible, local production of affordable protein equivalent to animal protein, with \$1 - \$3 profit per hour of production

Value Proposition for the Aid Agency, NGO, Foundation or Prime Implementer

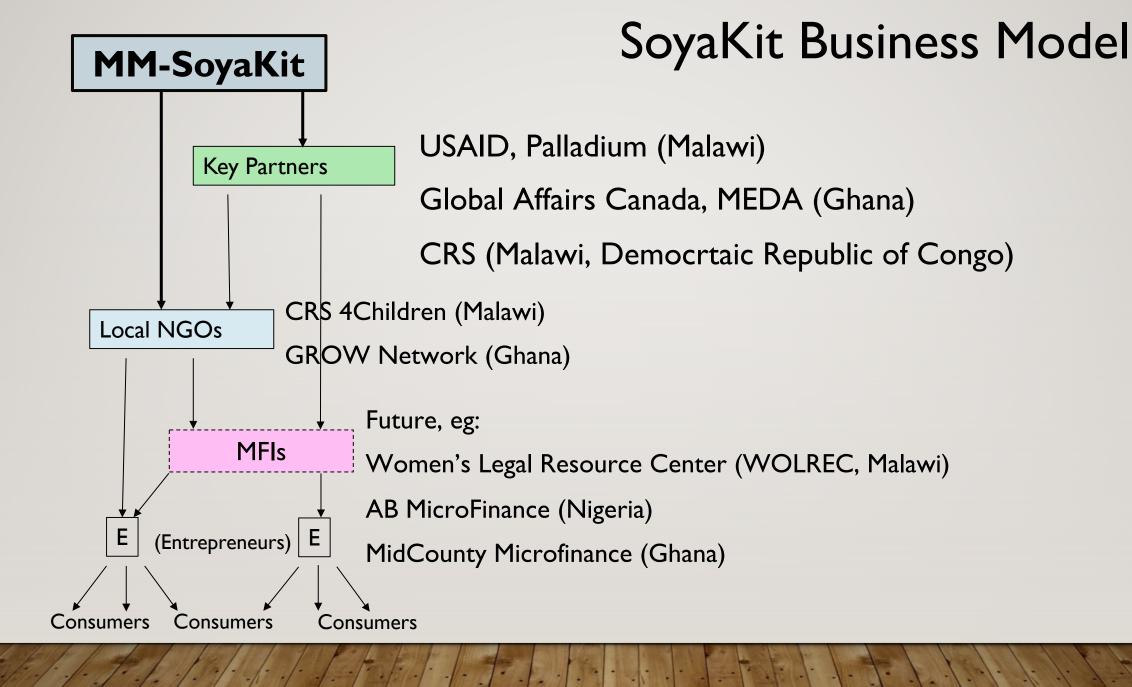
Who wants/needs a proven vehicle to empower women or youth and/or improve nutrition in under-nourished areas

The SoyaKit is a proven micro-enterprise platform (Ghana, Malawi)

That provides time-and fuel-efficient, flexible, local production of affordable, tasty, high-protein food

Unlike laying hens or other risky animal husbandry, provides a low-cost, predictable, easily learned method, that can provide full- or part-time employment

Our solutions are high-quality and reliable, and have been used successfully for more than a decade



Empower Women and Youth Entrepreneurs

SoyaKit – a great micro-enterprise

- Highly profitable
- Fast time to revenue, profitability
- Quick payback of micro-loan (as required)
- Much lower risk than agriculture or animal husbandry, environmentally friendly
- Grinder and cooking bag minimize production time and fuel use



Entrepreneur in Wa, Ghana showing fresh soymilk ready for sale

CRITICAL SUCCESS FACTORS FOR SOYAKIT PROGRAMS

- Proper and thorough training on both food processing and products AND small business basics
- Ability of the entrepreneurs to minimize input costs, achieve product quality, and to understand, measure and maximize profits
- Ability of the entrepreneurs to experiment, produce diverse products and find markets for them
- Access to support for new entrepreneurs, including experience swapping and help from 'Achievers'
- Access to VS&L clubs or equivalent

Malnutrition Matters Successes

- 300 SoyCow and 260 SoyaKit installations worldwide
- 20 SoyCows in rural Malawi with Farmers' Clubs (DAPP)
- 18 SoyCows in Ghana, most funded by AfDB/IFAD
- 30 SoyaKits in Ghana funded by Global Affairs Canada (MEDA)
- Other sites in Africa funded by IITA, CGIAR, Gates Foundation, USAID, UNIDO
- 100 SoyCows and SoyaKit test site in North Korea (First Steps)
- 230 SoyaKits and 5 SoyCows in Malawi funded by USAID (Palladium)
- Innovative technology recognized by GAIN, Tech Awards, Nestle/Ashoka CSV
 Prize, Miller Center(SCU) and the World Bank

THANK YOU

HART JANSSON, PRESIDENT

HART@MALNUTRITION.ORG



SoyaKit video: https://www.youtube.com/watch?v=NnOtl]-U6KQ

Website: www.malnutrition.org

MEDA GROW report: (https://www.meda.org/growlearning/724-nutrition-and-food-

security/file pp 18,19

Sustainable Nutrition with the SoyaKit (detailed report)

Testimonials from Entrepreneurs

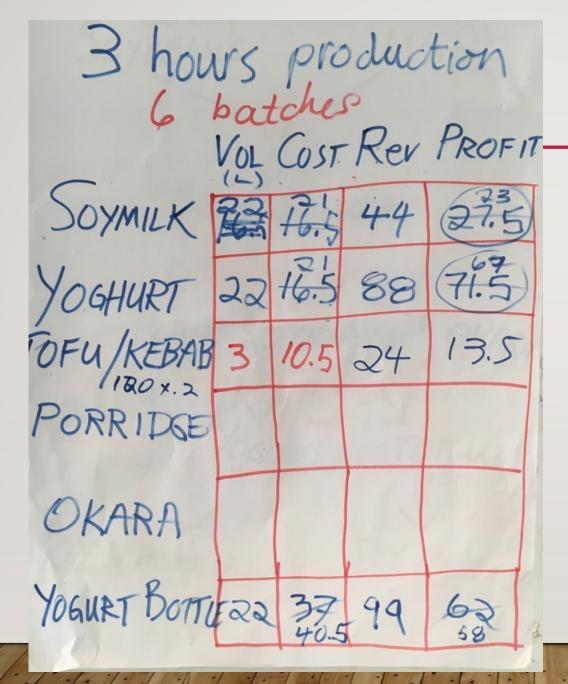
BACKGROUND SLIDES FOLLOW

Malnutrition Matters Products

- SoyaKit 7 L / hr (\$200 wholesale, landed)
- VitaGoat 35 L / hr (\$5900 FOB Thailand), non-electric
- SoyCow 40 L / hr (\$5900 FOB Thailand), electric
- SC-30 80 L / hr (\$11,900 FOB Thailand), electric

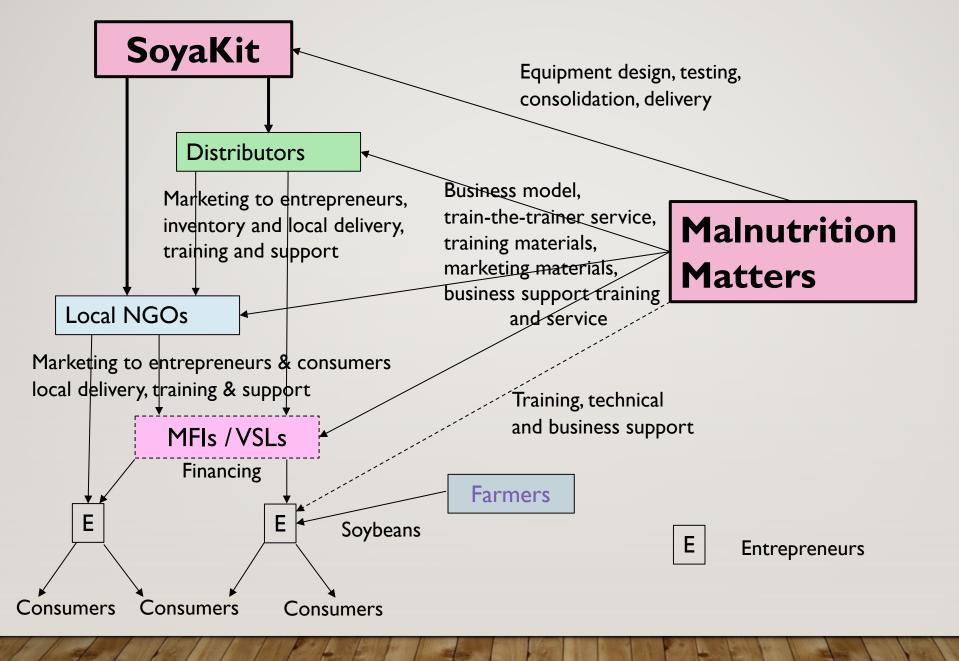
- SolarFlex Food Dryer − 20 kg per day (\$1,300)
- Solar Quad Food Dryer 80 kg per day (\$5,900)
- 3HP (elec) Food Dryer 150kg per day (\$5,900)

FOB Guangzhou



COST / PROFIT TABLE IS ENLIGHTENING WHEN CONSTRUCTED BY THE ENTREPRENEURS





SOYAKIT VALUE CHAIN