

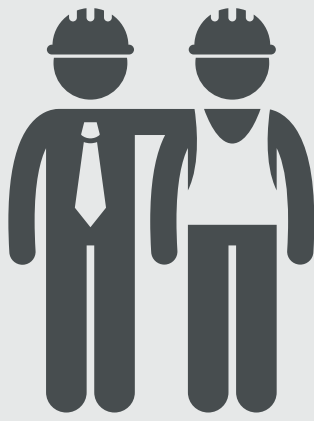
THE FUTURE OF FARMING

COMBINING THE ENERGY EFFICIENCY OF SOLAR POWER WITH THE EFFECTIVENESS OF MICRO IRRIGATION

BACKGROUND

EST. 2013:

Founded by **Samir Ibrahim** and **Charles Nichols**.



THE MISSION :

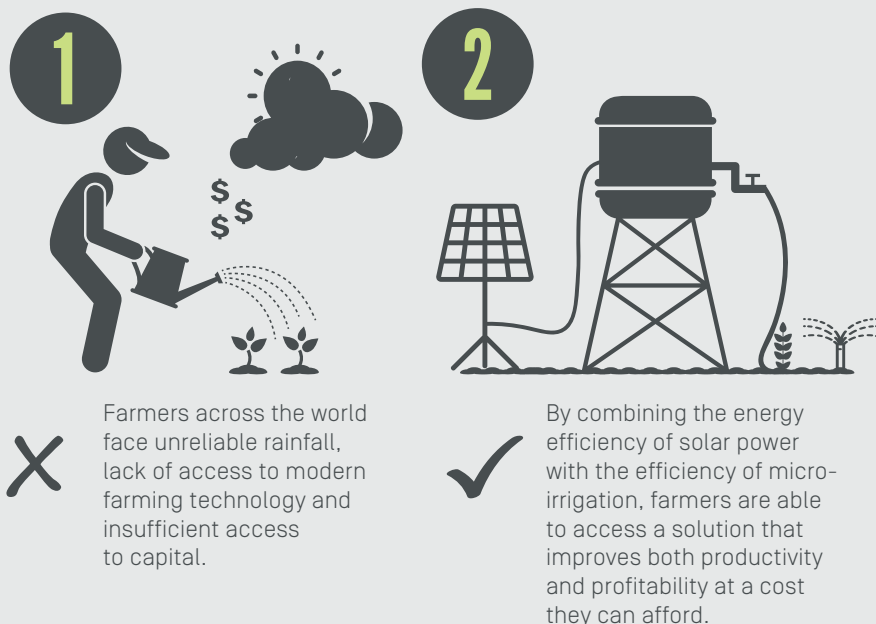
Make smallholder farming households more productive in an affordable and environmentally friendly way.

PROBLEM VS SOLUTION :

There are an estimated 450 - 500 million smallholder farmers in the world; as many as 2 billion people live in smallholder farm households.

[SOURCE Inflection Point: Unlocking growth in the era of farmer finance]

SunCulture makes smallholder farming households more productive by selling affordable solar-powered water pumps and customised irrigation systems, bundled with ongoing support and financing. SunCulture's solution enables farmers to grow high value crops, support livestock and their household needs, thus making them more productive and increasing their income.



CURRENT STATUS

LOCATION :



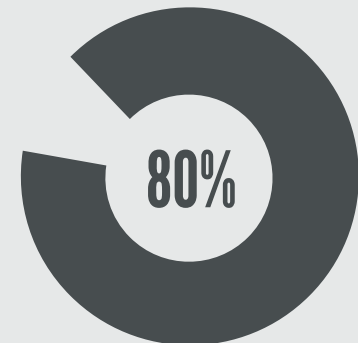
Kenya, Tanzania, Uganda, Zambia, Ethiopia, Malawi, Mozambique, Sudan, Somalia, Somaliland, Nigeria, Ghana, Rwanda

NEW INNOVATIONS:

SunCulture is launching their **Pay-As-You-Grow program** to address the **\$150b** global agriculture finance shortfall.

SunCulture is building an **IoT platform** on their **ClimateSmart pump controller** which optimises pump performance, allows for remote monitoring & is compatible with weather sensors that enable farmers to irrigate automatically.

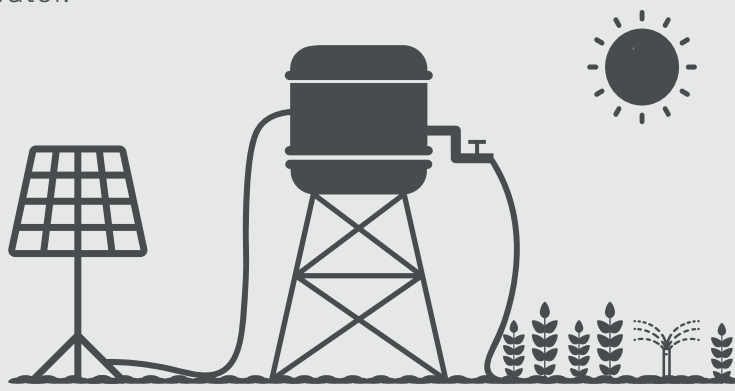
PROJECT IMPACT ON THE ENVIRONMENT IN 2018:



- SunCulture's system decreases water usage by **80%** and has saved **5 billion liters** of water.
- Generated **530 MWh** of clean electricity.
- Saved **743,000** liters of diesel.

AN INNOVATIVE BUSINESS MODEL :

SunCulture's Rainmaker includes a pump, which is powered by portable solar panels and supported by a portable battery bank; making irrigation reliable and flexible. The system is compatible with drip and mist irrigation enabling farmers to grow high value crops, while increasing their yield by up to 300% and saving up to 80% of water.



THE ADVANTAGES OF SUNCULTURE:



TARGETS ACHEIVED:

- SunCulture's system increases a farmer's yields by up to **300%**
- SunCulture farmers have grown their annual income from \$1,000/year to an average of **\$10,000/year**.
- SunCulture currently has over **75** employees.
- SunCulture trained engineers, agents and agronomists are able to provide customised quotations, on-farm training, soil analysis and agronomy support via mobile phone app and call centre.
- **32 million kgs** of fresh fruits and vegetables grown in 2017.

FUTURE PROSPECTS

GLOBAL SCALE UP:



In the next three years SunCulture aims to become the largest provider of clean energy productive use products tailored to the needs of smallholder farmers. They aim to take their product + service + finance model across the world.

INVEST IN AGRICULTURE:

SunCulture's products and services are designed for the **500 million** smallholder farming households which represent **2 billion** people globally. These farmers are predominantly located in the developing world and produce **80%** of its food.

