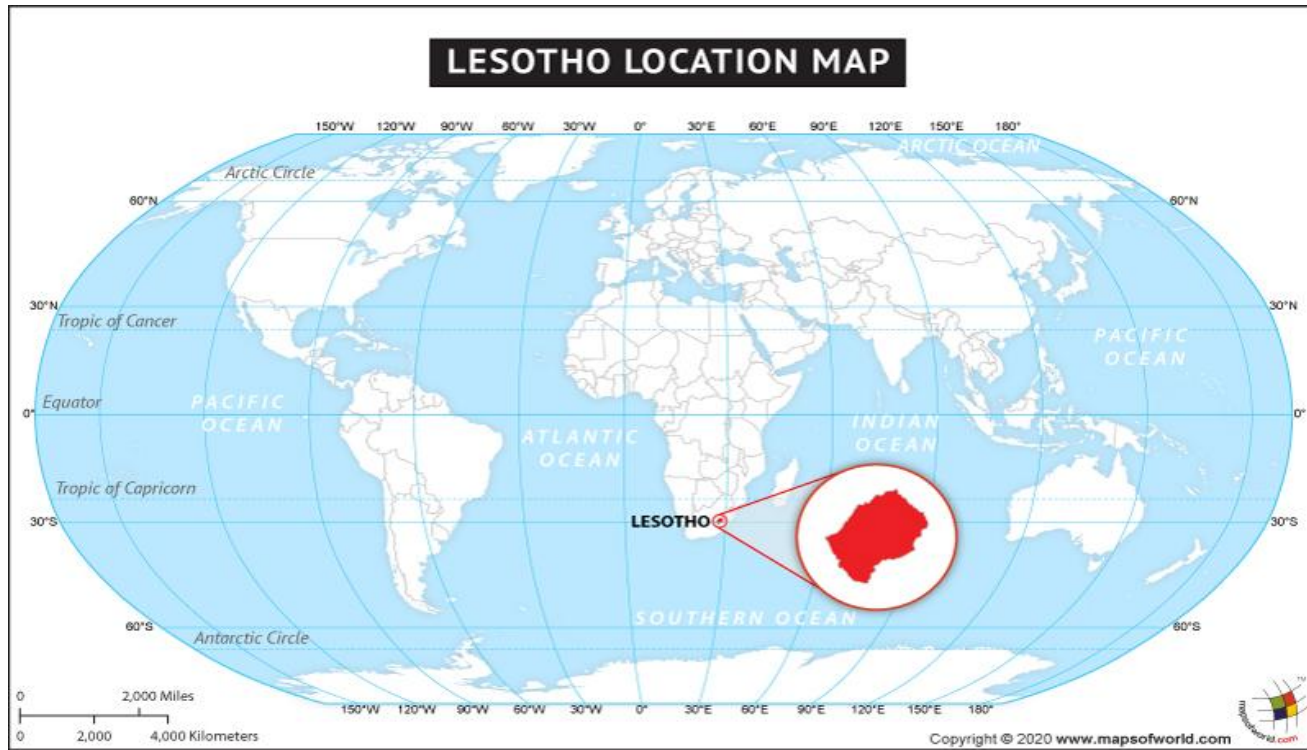




TSA RONA SOCIAL DEVELOPMENT A LESOTHO BASED COMPANY
PRESENT - Contacts: tsaronasocialdevelopment@gmail.com

**AGRICULTURE AND HEALTH PROJECT FOR THE
COMMUNITY OF MAPHUTSANENG**
HA BERENG MATSOHO –
MOHALESHOEK



TYPICAL RURAL BASOTHO HOUSING AND FIELDS



PRESENTED TOGETHER

INDENER

NOT FOR PROFIT ASSOCIATION

www.indener.org

and

SOLGREEN srl

www.solgreeninternational.com www.solgreen.co

**the general contractor of an Italian association companies,
skilled to realize this ethical integrated project called
DSAC Dryland Survival Agricultural Center
In short “The DESERT GREENHOUSE”**



The aim of the ethical project proposed “The Desert Greenhouse”

- **The innovative project aim to improve the health of less privileged communities and create jobs to improve their standard of living and curb illegal migration amongst the your of Maphutsaneng.**
- **The Project through remote assistance of an Italian Institute and the University of Agronomy will empower through training the youth of Maphutsaneng on the best solutions for special plants and algae with the latest technologies and to be able to run the project.**
- **The project is earmarked to be in Mekaling Constituency; it will be based in Maphutsaneng Ha Bereng Matsoho in Mohaleshoek district as 80% of the community is unemployed and malnourished including children under the age of five.**
- **Tsa Rona has partnered with Indener Non-Profit Making Organisation from Italy to source funds and implement an integrated social project to develop agricultural centre and health facility, to benefit the community.**

TYPICAL METHOD OF COOKING AND SOURCE OF DRINKING WATER IN RURAL LESOTHO



About the Desert Greenhouse project

- **The Innovative project we are presenting involves the construction of small farms composed of fruit and vegetable greenhouses and animal farms, with a Health Centre and disinfection tunnel and a small school.**
- **The farms are self-energetic able to guarantee the survival of several families; even without water; wells and power lines so they can be build anywhere.**
- **A new cultivation methods in a protected space by adverse weather conditions, to get natural 'super-food' and with advanced technologies targeting the community of Maphutsaneng Ha-Bereng Matsoho in Mhaleshoek who are hit hard by El-Niño.**
- **The project have production for irrigation and drinkable water, green electric power, and cultivation methods in a protected space by adverse weather conditions including power by renewable energies.**
- **All technologies are produced in Italy and Swiss and certified in Europe.**
- **The cost of the project is estimated at One Million Euro**

BENEFITS OF DESERT GREENHOUSE PROJECT FOR MAPHUTSANENG COMMUNITY

- **The innovative project will be constructed by Solgreen a company based in Italy, it involves four [4] Greenhouses covering the field area of 1350sqm which is readily available to construct in Maphutsaneng Ha Bereng Matsoho as below:-**
- **Special Greenhouse1** super-food and food supplements with Botanical Laboratory.
- **Special Greenhouse2** for breeding and dairy.
- **Special Greenhouse3** for vegetable and fruit cultivation.
- **Special Greenhouse4** for medical ambulatories and a small school.
- **Restrooms will be innovative with ecological treatment without sewage systems, recovering water for irrigation.**

DESERT GREENHOUSE COMPLEX

- ▶ **Desert greenhouse complex covers the surface of 1200 square meter [12.916 square feet] the indoor environments have the technologies suitable to maintain the temperature of 25°C year-round, where the community will carry out agricultural activities in a protected spot from weather condition as a social meeting point to develop micro-economies.**
- ▶ **A photovoltaic system installed on the roofs with materials suitable for high temperatures with ecological batteries allows us to obtain the necessary energy for all the activities while the drinkable water has ensured by a special machine that produces water from the humidity of the air, in this case we have designed two machines in containers with tank, to produce 500 litres of drinking water per day.**

Continues

- ▶ **In the absence of water and electricity availability, the project is able to guarantee complete energy and water independence at equatorial latitudes.**
- ▶ **It is possible to choose different types of crops more suitable to save water and soil.**
- ▶ **Every Desert Greenhouse could develop small centres with market and microeconomics to be able reduce the migrations caused by climate-change even in the same continent.**
- ▶ **The Solar energy systems producing hot air are included too, suitable for drying vegetables, fruits; flowers, mushrooms.**
- ▶ **Create Job opportunities for youth of Maphutsaneng interested in training courses to manage the systems and any other training courses to teach the cultivation technique suitable for the area. [courses are offered on line]**

continues



- ▶ In the presence of water wells or dirty water, the project supply interesting pump kits with photovoltaic systems for a depth of 100-200 meters and a water purifier certified in Italy.
- ▶ The Desert Greenhouse is an ethical project integrated with many innovative technologies, in continuous evolution studied for the populations of the lands most affected by the current climate changes



VIDEO

PROPOSED AGRICULTURE AND HEALTH DESERT GREENHOUSE PROJECT FOR MAPHUTSANENG -HA BERENG MATSOHO IN MOHALE'SHOEK

NB;DRAG MOUSE TO PLAY THE BELOW VIDEO



ABOUT US

BRIEF BACKGROUND OF TSA RONA SOCIAL DEVELOPMENT COMPANY

- ▶ **ESTABLISHED IN 2018; ITS MANDATE IS TO FUNDRAISE/SOURCE FUNDING TO HELP UNPRIVILEGED COMMUNITIES AND NON-PROFIT INSTITUTIONS TARGETING ORPHANS AND THE ELDERLY AROUND LESOTHO TO BRING ABOUT SOCIAL CHANGE AND IMPROVE THEIR QUALITY OF LIFE BY ENGAGING IN PROJECTS PERCEIVED TO BE FOR ECONOMICALLY AND GEOGRAPHICALLY DISADVANTAGED COMMUNITIES BY EMPOWERING THEM TO START SUSTAINABLE PROJECTS THROUGH TECHNICAL SUPPORT.**

OUR VISION

- ▶ **AN EQUITABLE SOCIETY WHERE WOMEN ,MEN AND YOUTH CAN FREELY REALISE THEIR FULL POTENTIAL; FULFIL THEIR RIGHTS AND LEAD THEIR LIFE WITH DIGNITY AND SELF-RESPECT.**

▶ **OUR MISSION**

- ▶ **TO ENABLE MARGINALISED WOMEN; MEN; AND YOUTH TO IMPROVE THEIR QUALITY OF LIFE THROUGH SUSTAINABLE INCOME GENERATING PROJECTS.**

OUR CORE VALUE

- ❖ **ACCOUNTABILITY AND TRANSPARENCY**
- ❖ **INTEGRITY**
- ❖ **GENDER EQUALITY**
- ❖ **SOCIAL JUSTICE**
- ❖ **PARTICIPATORY ACTION**
- ❖ **PEACE AND HARMONY**

SERVICES OFFERED

- ❑ **HELP COMMUNITIES TO SET UP SUSTAINABLE PROJECTS AND MARKET THEM PROFITABLE.**
- ❑ **HELP THE COMMUNITIES TO PLAN WHAT THEY WANT TO ACHIEVE AND TAKE APPROPRIATE ACTION. [PROJECT MANAGEMENT]**
- ❑ **LINK THE COMMUNITIES WITH LOCAL AUTHORITIES ACCORDING TO THEIR NEEDS.**
- ❑ **SOURCING FUNDING AND THROUGH OUR PARTNERS OFFER PROJECT TRAININGS TO THE COMMUNITIES**
- ❑ **LIASE WITH DIFFERENT GOVERNMENT MINISTRIES AND OTHER RELEVANT BODIES TO OFFER TECHNICAL SKILLS/SUPPORT AND FUND COMMUNITY PROJECTS AS PER NEEDS AS PART OF SERVICE DELIVERY.**

SITUATION OF LESOTHO – SOCIO ECONOMIC

- ▶ **Lesotho, a population of 2.2 million; of which 57% of the population live below poverty line; and about 508,125 people are food insecure [World Food Programme 2019]. Currently Lesotho is experiencing a major food security as a result of the El-Nino induced drought and Covid 19 restrictions. The situation has further been made worse by successive years of crop failures, low income and high food prices that 41% in rural families are spending half their income on food which in most cases they get from selling their animals and mohair annually. It is worth mentioning that 59% of the rural people do not have stable income jobs.**
- ▶ **More than 70% of the population in rural Lesotho engages in subsistence farming and productivity has been deteriorating since the 1990s because of unpredictable weather.**

continue

- ▶ **Tsa Rona will target women, men, youth in Maphutsaneng Ha Bereng Matsoho and near by villages; targeting to rescue about 20,000 families through implementing an innovative agriculture and health Greenhouse Dessert Project to improve their livelihoods.**
- ▶ **Solgreen will support Tsa Rona Social Development and Indener.org on the design, construction and the technicality of how to use the Green Houses effectively.**
- ▶ **Tsa Rona Social Development will be hands on daily basis to implement; planning; manage, monitor, report the project progress on the agreed dates by the donor and stakeholders.**

“THE DESERT GREENHOUSE”

FOR SUPER FOODS AND SUPPLEMENTS.

DIFFERENT TYPE OF CROPS MORE SUITABLE TO SAVE WATER AND SOIL.



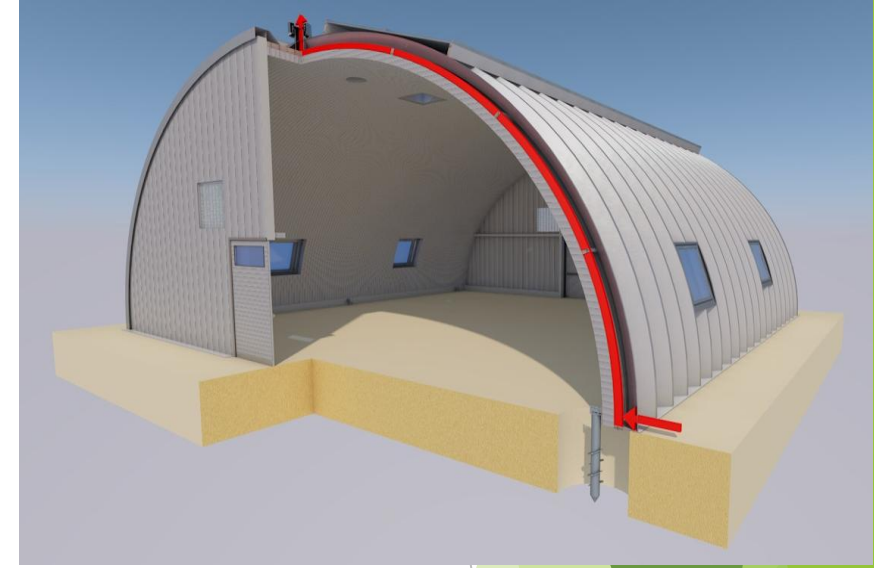
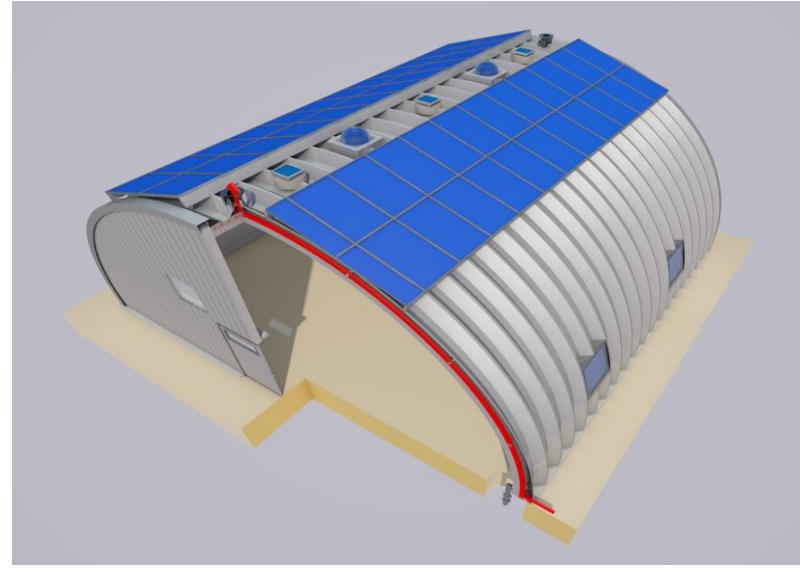
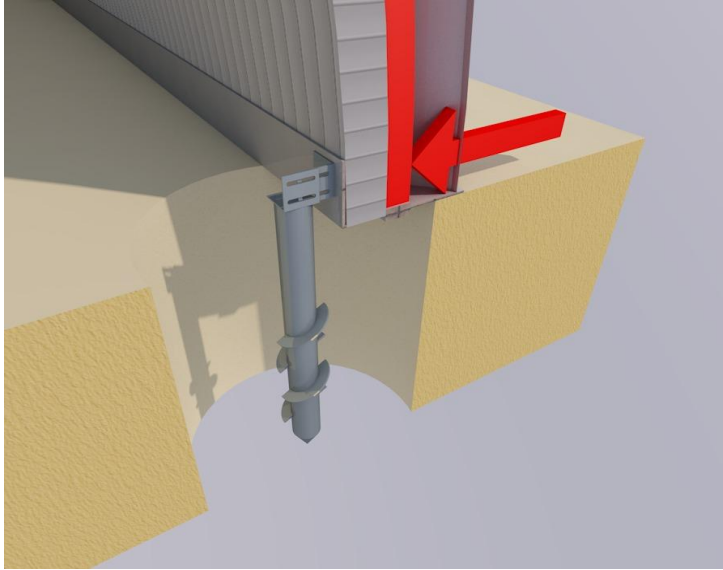
“THE DESERT GREENHOUSE” BOTANY LABORATORY



DESERT GREENHOUSE SPECIAL ROOM FOR BREEDING GOATS AND DAIRY



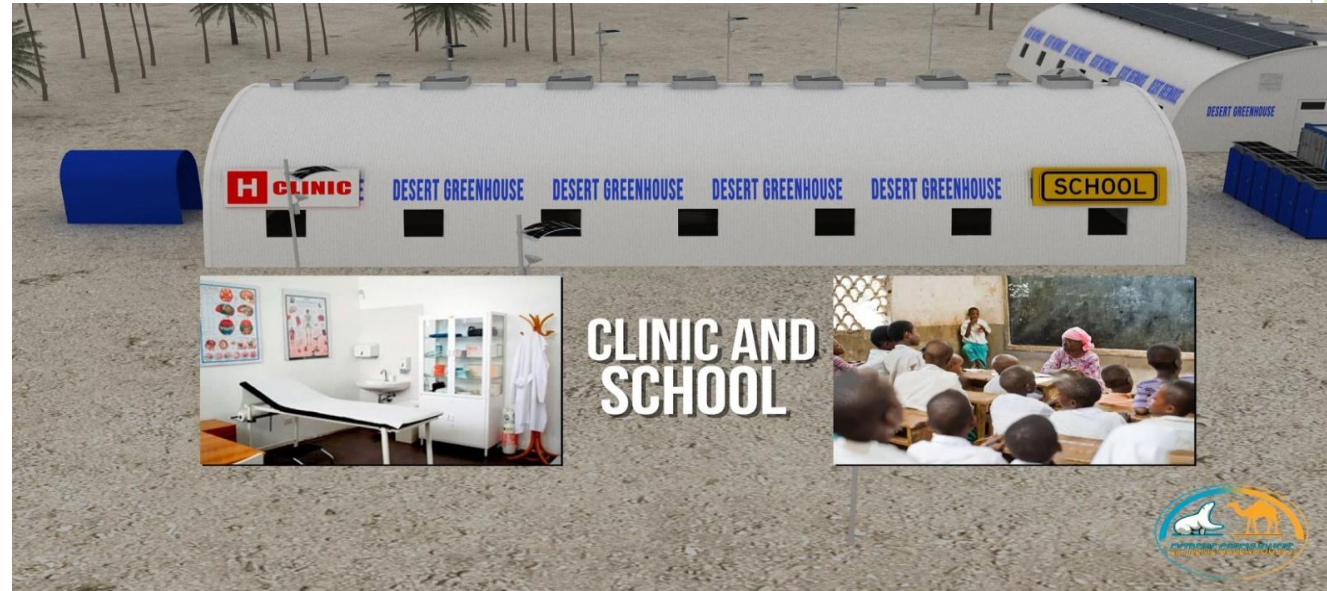
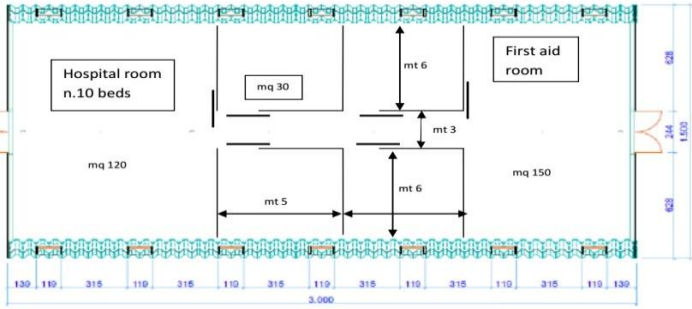
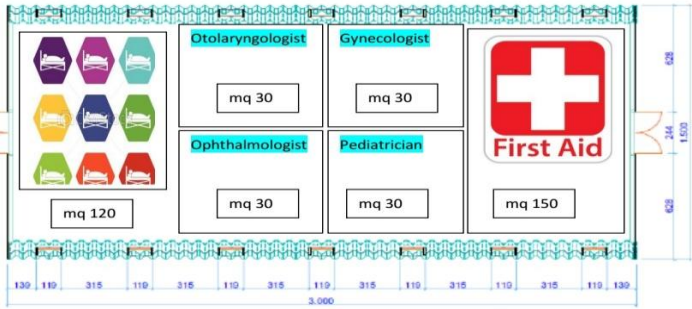
THE DESERT GREENHOUSE IN DOOR ENVIRONMENT AND COVERING



DESERT GREENHOUSE HEALTH FACILITY

- ▶ **The project is integrated with a Hospital Room and a clinic. The facility will benefit the workers and the community at large. The Health Facility has the following sections:-**
- ▶ **Otolaryngologist**
- ▶ **Gynaecologist**
- ▶ **Ophthalmologist**
- ▶ **Paediatrician**
- ▶ **Hospital Room of 10 Beds**

DESERT GREENHOUSE HEALTH FACILITY ILLUSTRATIONS



CLINIC AND SCHOOL



JOB OPPORTUNITIES FOR MAPHUTSANENG DESERT GREENHOUSE PROJECT

- ▶ SKILLED WORKERS
- ▶ UNSKILLED WORKERS - FULL TIME WORKERS
- ▶ PART TIME WORKERS

DESERT GREENHOUSE PROJECT CONTRIBUTION TO THE COMMUNITY

- ▶ **EACH HOUSE WITHOUT ELECTRICITY AROUND MAPHUTSANENG HA BERENG MATSOHO AND ITS NEARBY VILLAGES WILL BE INSTALLED WITH PV SYSTEMS OF 300 watt :**
- ▶ **Lighting**
- ▶ **Small Fridge**
- ▶ **Small TV/Radio**
- ▶ **Small Cooking Stove**
- ▶ **And charging of phones.**
- ▶ **Monthly Food parcels for the elderly and the unemployed.**
- ▶ **Train local youth on the installation and maintenance of PV Systems as still part of creating jobs amongst the community.**

To Indener and Solgreen Italy

We the Community of Braakfontein; in Mophale's hoek District under Chief *M. Masekole*

We are very happy to let you know that the implementation of Maphutsaneng Mixed Farming Project in our Village is going to change my people's lives in a positive way.

Project is going to help us a lot especially with jobs and having access to healthy food.

It is also going to improve our village so much and give our children to know and see good things, which will make their education better.

We also thank TSA Rona Social Development Company to introduce us to the project and agree to manage it for us.

We sincerely thank Indener and Solgreen to be part of the project for seeing to it that we get good life by bring innovative equipment to our village. We are hopeful that they get all assistance to come make our lives better.

Thank you

Name of Chief *MASEMPE MOSHOLI*



THANK YOU

- ▶ **WE ARE HOPING YOU WILL BE OUR PARTNERS AND HANDLE THE PROJECT AS A MATTER OF URGENCY IN ORDER TO FULFILL THIS AMAZING PROJECT FOR THE BENEFIT OF THE LESS PREVILAGED COMMUNITY OF MAPHUTSANENG.**
- ▶ **THE IMPLEMENTATION OF THE PROJECT WILL CURB MIGRATION AND HUMAN TRAFFICKING AS IT IS GOING TO CHANGE MANY PEOPLES LIVES IN REGARD TO GETTING JOBS AND EXPERIENCING AGRICULTURE IN A DIFFERENT EYE.**

▶ **PREPARED AND PRESENTED BY:**

**BONANG RATHOBEI [MS] -
DIRECTOR TSA-RONA SOCIAL DEVELOPMENT COMPANY.**