GHE

One Billion People Living in Darkness

BOLERO

Current Problem of Remote Communities

Lack of Basic Facilities

Lack of Education & Livelihood

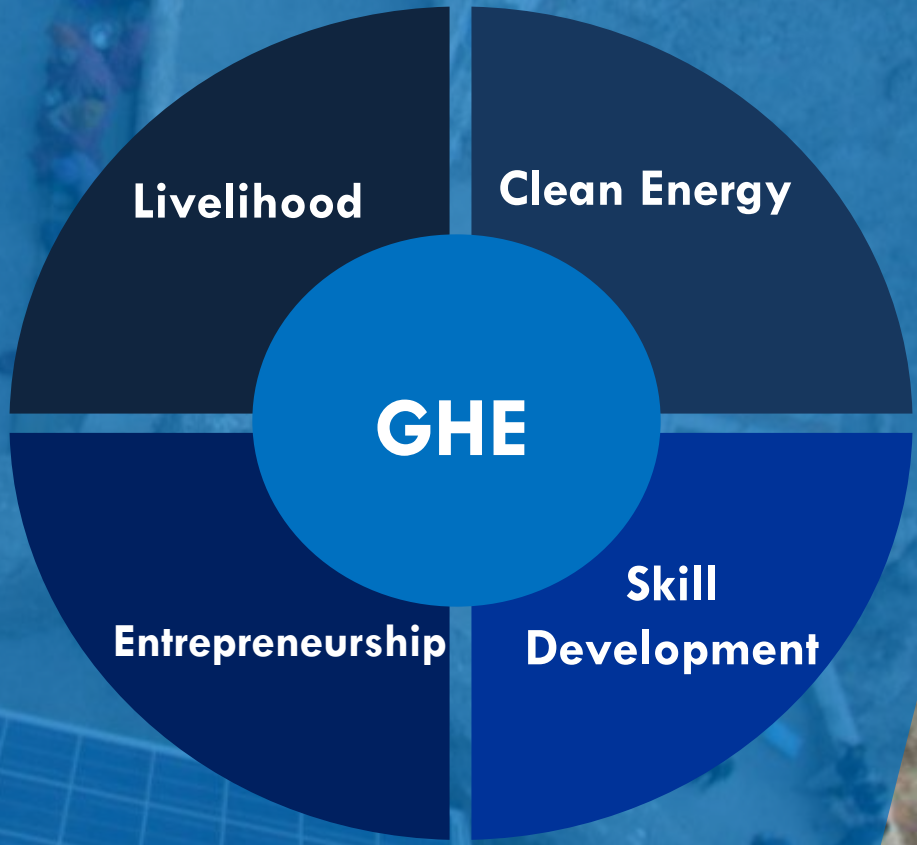
Results in

Limited New Rural Destinations
"Migration of Tribes
& Lost Culture"

Technology and Tourism to bring Development

Self – Sustainable, Smart and Carbon Neutral Villages

UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS 2030



SOCIAL IMPACT VERTICALS

Solar Electrification

- Clean Energy Access to Villages

Digital Education

- Experiential Learning for Students

Solar Health Access

- Solar powered equipments for basic health

Carbon Neutrality

- Diesel with Solar
- Clean Cookstove

Homestay Development

- Meaningful Livelihood opportunities

SKILL DEVELOPMENT AND TRAINING AS THE BEDROCK

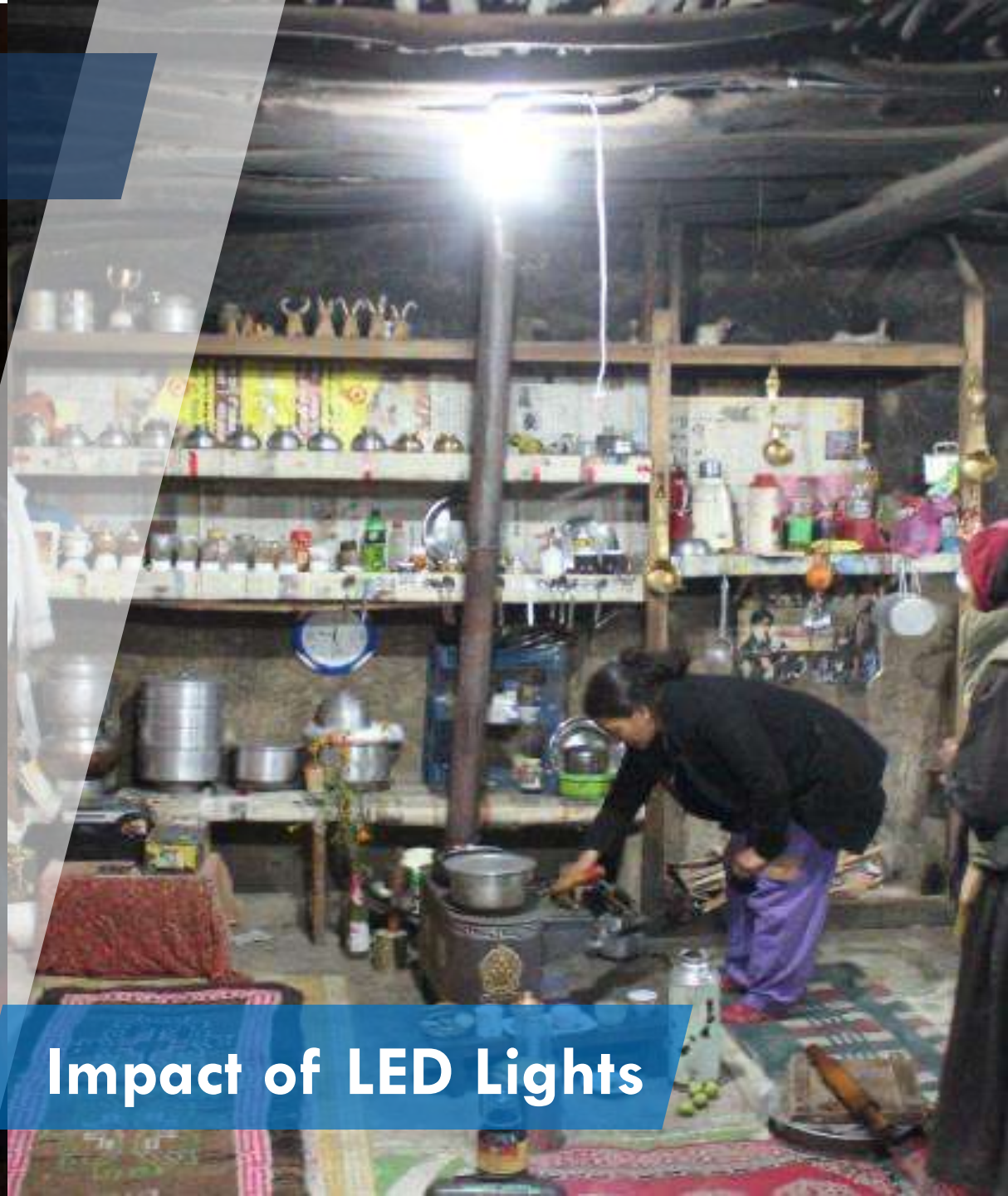
TRANSFORMING COMMUNITIES

TRANSITIONING COMMUNITIES FROM PRE INDUSTRIAL TO FOURTH INDUSTRIAL TECHNOLOGY

1500 Year Old Village Electrified

VISIBLE IMPACT

Harmful Kerosene Oil Lamps



Impact of LED Lights

VILLAGERS EXPERIENCING LED LIGHT FOR THE FIRST TIME

Solar Electrification of Remote Garo Villages (Meghalaya)

600
Villages Transformed

300,000
Lives Impacted

5
Regions of India

1300
Travellers
60
Countries
Lighting up Village Shade
Global Himalayan Expedition
2017

COMMUNITY EMPOWERMENT

Village Women Trained as Solar Engineers

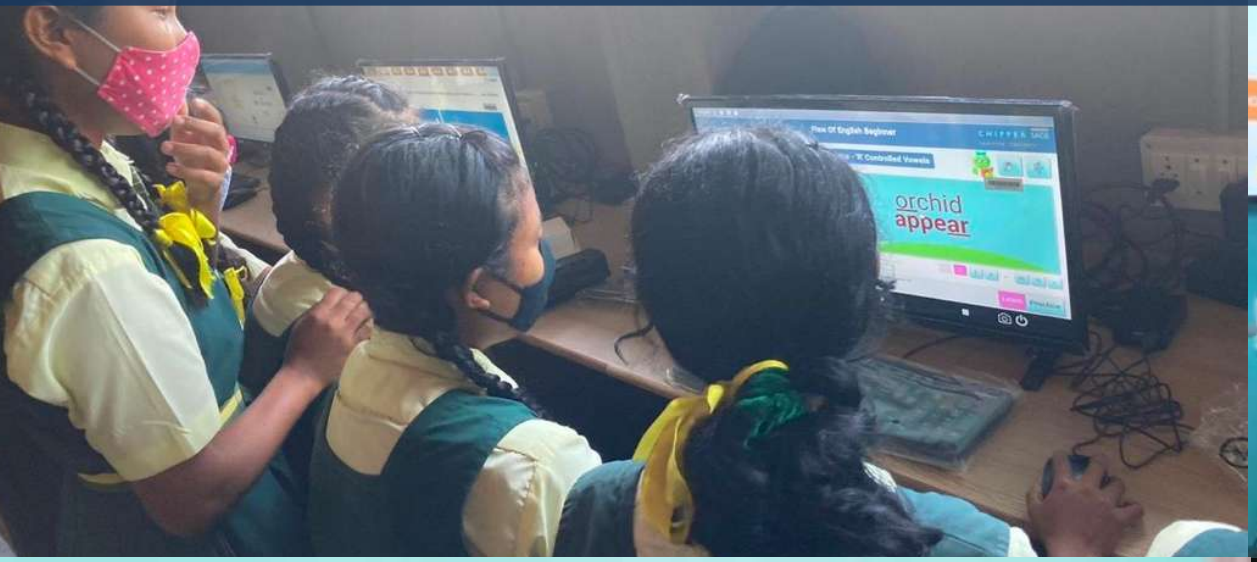
Solar Training of Local Youth

Women Engineers Electrifying Villages

Digital Innovation Center

Providing Education Access to the Garo Communities

Students at the Digital Innovation Centres



SOLAR POWERED HEALTH CENTRES

- Creating Solar Powered Health Centers with better medical equipments’
- Training of the local medical staff on the installed appliances
- Developing a sustainability model for smooth operations of Govt. Medical centres

Solar Powered Primary Health Centre

Providing the Basic Health Care Infrastructure along with Solar Power Plant Providing Reliable Electricity

Medical Equipment being Setup

Solar Powered Health Centre Setup in Ladakh - Durbuk (14300ft)

COVID Vaccination Drive at Sato Health Centre Medical Refrigeration

ACCESS TO CLEAN COOKSTOVES

Providing a Transformative Solution for the Rural Communities

Use of Traditional Cook- Stoves on Firewood

PROPOSED SOLUTION: CLEAN COOKSTOVES

- 80% reduction in smoke & toxic emissions
- 50% reduced cooking time
- 60% reduced fuel requirement
- 50% reduction in fuel costs
- 40% improvement in cooking efficiency

60% reduction in CO_2 and 40% reduction of Black Carbon

Project Scenario for Carbon Offset Project

500,000 Households in India for Carbon offset Project

Households with Traditional Chulha

Clean Cookstoves

Carbon Offset and Impact

No. of Households
500,000

Lives Impacted
2,500,000
Women Empowered
1,000,000

Annual Carbon Offset
1.5 Million Tons
Carbon Offset Lifetime
7.5 Million Tons

Developing Climate Action Warriors in Tribal Communities

Community Empowerment

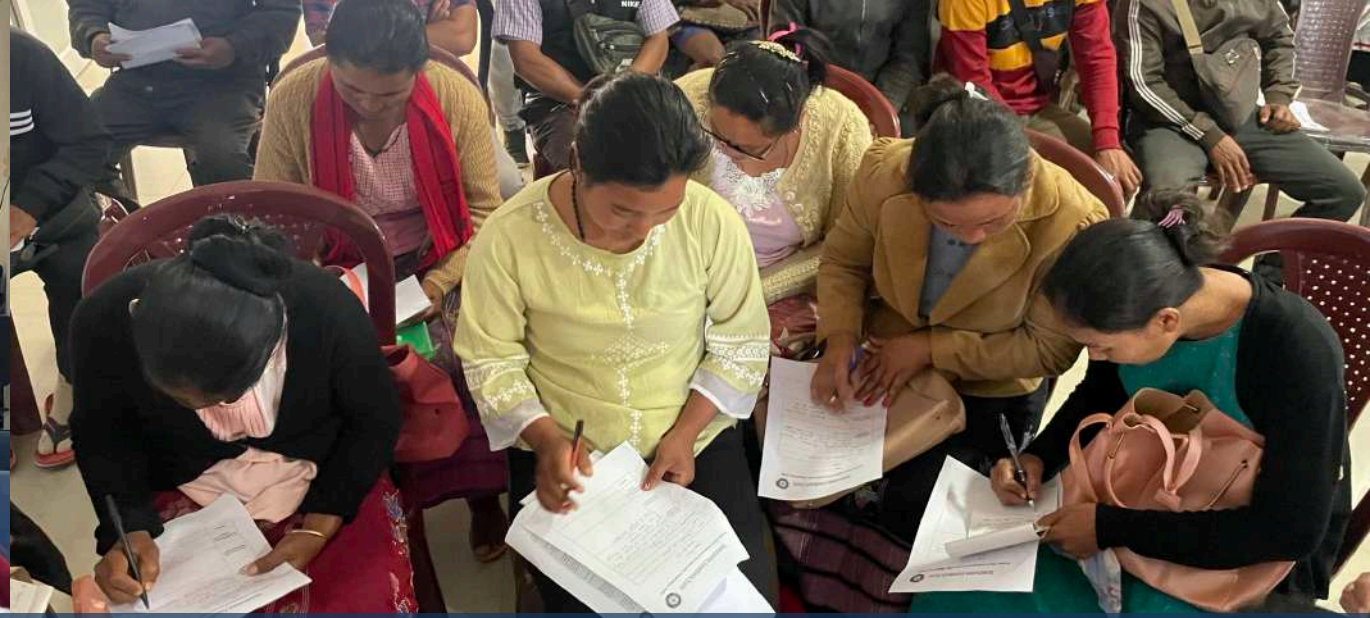
Job Creation

Holistic Development

No of People Educated on Climate Action
1.5 Million

Total Youth Empowered Climate Entrepreneurs
50,000

Villages accelerating on SDG Goals
15,000



ENGAGING THE STAKEHOLDERS

Cookstove Distribution and Mobilisation

Creating Strong on ground Impact

SMART MONITORING AND ADOPTION

1. Mobile App to register each stove and collect baseline data for each household at the start of the program

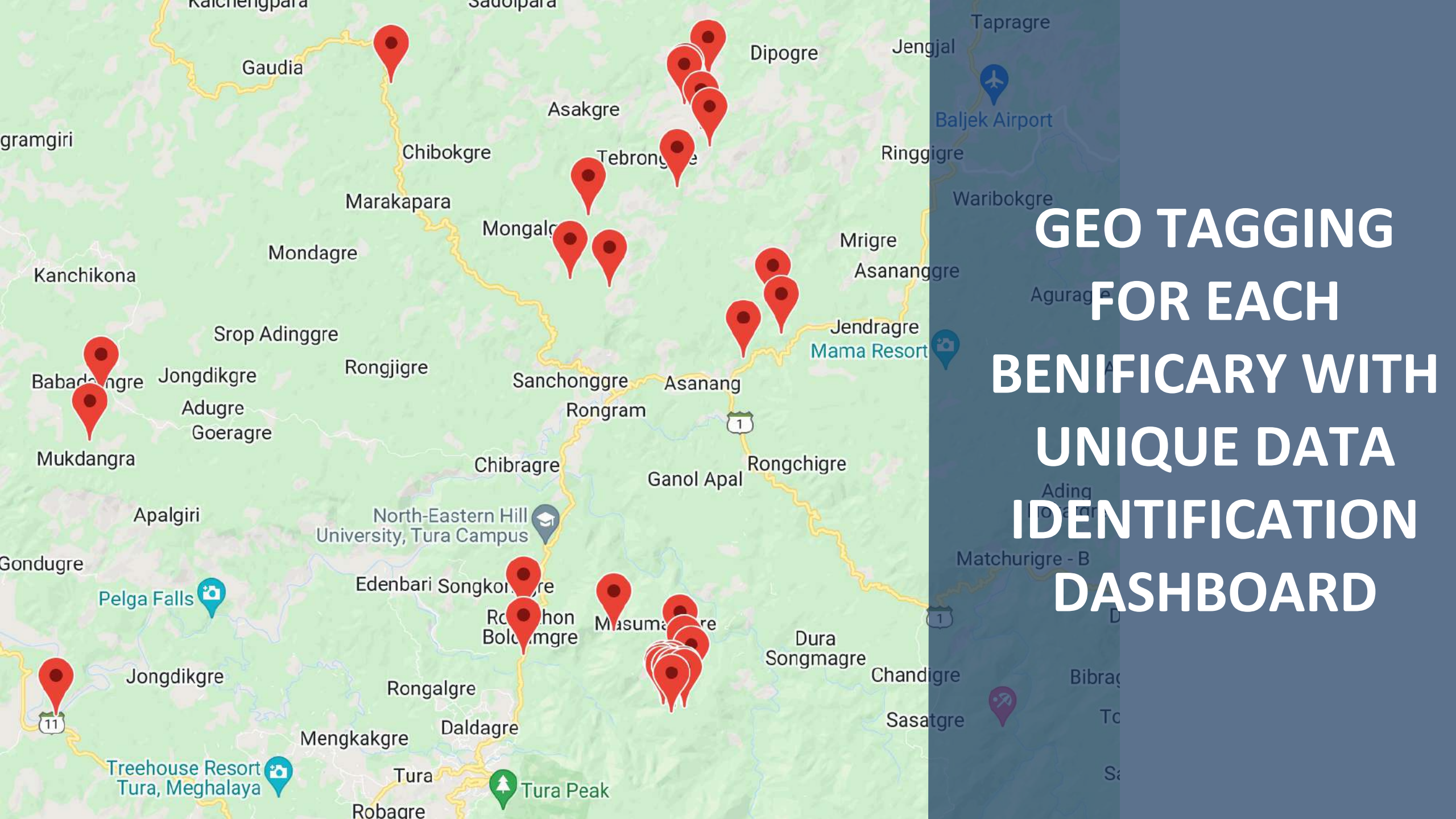
2. Train Volunteers on cookstove usage and implement educational campaigns through digital mediums

3. Work with Partners to monitor impacts and deliver carbon credits

PROPOSED CARBON STANDARDS

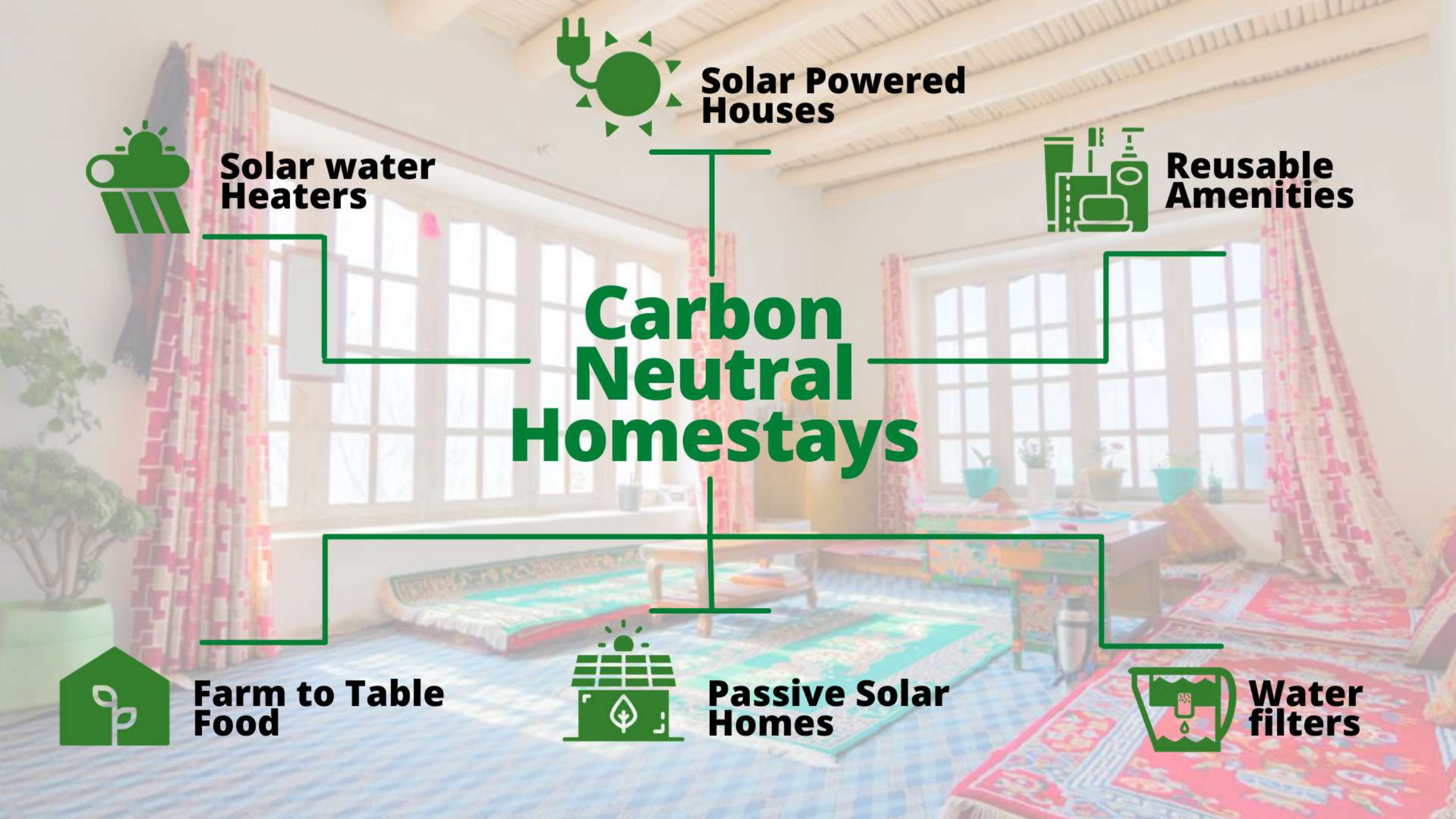
Established by WWF, The Gold Standard is endorsed by more than 80 NGOs. Gold Standard is now certifying SDG contributions and impacts under the "Gold Standard for Global Goals" standard.

The VCS ("Verified Carbon Standard") developed by Verra is the world's most widely- used voluntary greenhouse gas reduction programme, with almost 1,500 certified projects.



GEO TAGGING FOR EACH BENIFICARY WITH UNIQUE DATA IDENTIFICATION DASHBOARD

CARBON NEUTRAL
HOMESTAYS


Solar Powered Houses
Solar water Heaters
Reusable Amenities
Carbon Neutral Homestays
Farm to Table Food
Passive Solar Homes
Water filters

Carbon Neutral Homestays

Features of our Carbon Neutral Homestays in Ladakh

- Setup in pre-existing traditional local houses
- Solar Microgrid for uninterrupted power supply
- Solar Water Heaters for 24x7 hot water
- Organic, farm-to-table food experiences
- Western style eco-friendly dry toilet
- Water filters to avoid Single Use Plastic
- Reusable Travel Amenities

CARBON NEUTRAL STAYS

Boutique Accommodations

From Diesel Power to Renewable Energy

From Firewood to Solar Energy

From Frequent Car Trips to Market to Growing Vegetables in the Backyard

From Wastewater Discharge to Compost-making Dry Toilets

From Plastic Amenities to Local Reusable Options
kinley
BEST GRAVITY WATER PURIFIER
KENT
NSF
Manjushiri
Genuine Tibetan Incense

BEFORE
5,000 Kgs
carbon
emission
per household
CARBON NEUTRAL
APPROACH
AFTER
140 Kgs
carbon
emission
per household

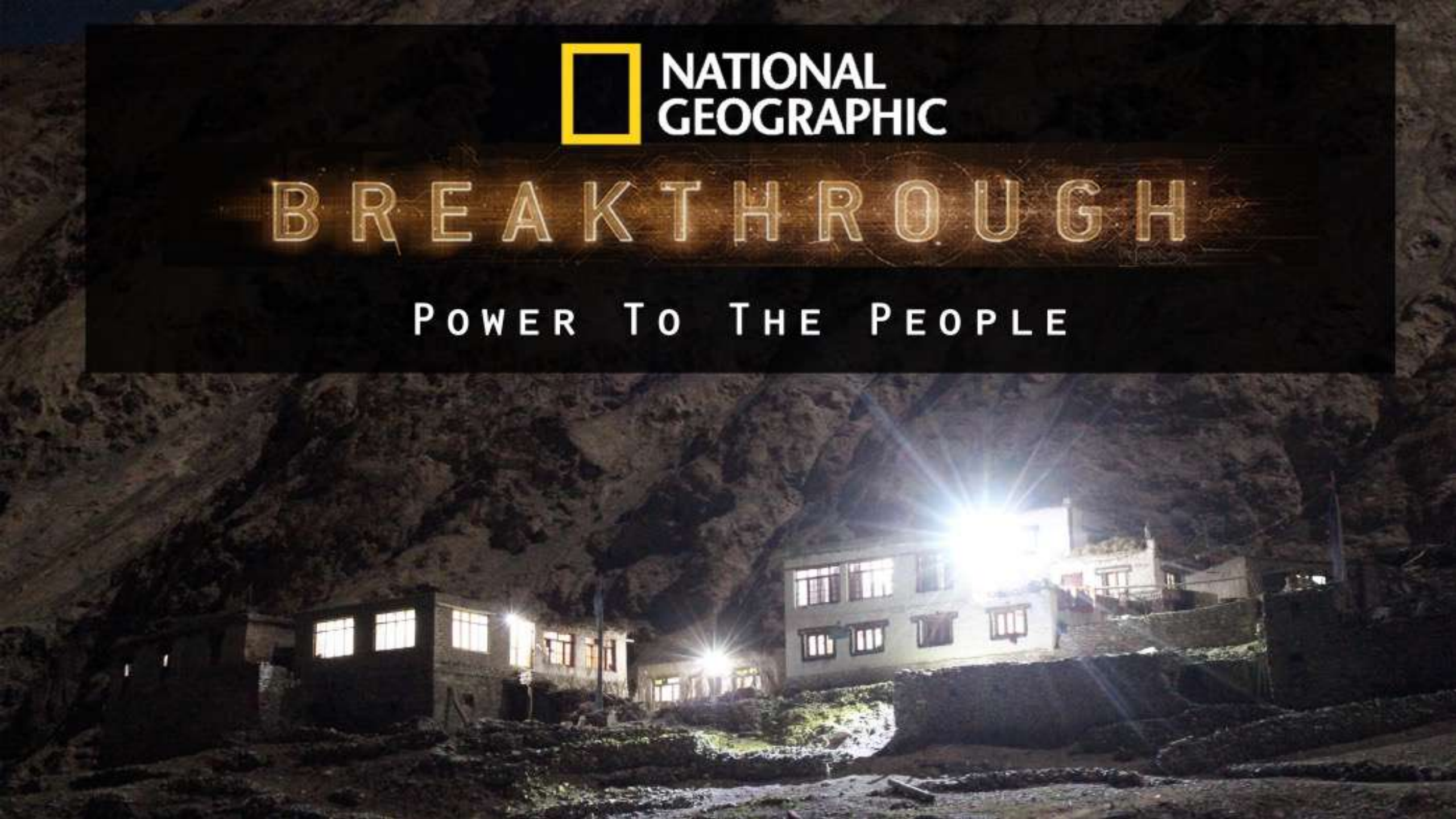
CONTRIBUTE POSITIVELY
As a Traveler
Mountain Homestays

Leave Behind a Truly
POSITIVE FOOTPRINT

STAY WITH THE LOCALS
CARBON NEUTRAL ACCOMODATION
LOCALLY SOURCED FOOD
CO_2
SUSTAINABLE DESTINATIONS
SOLAR POWERED HOMESTAYS
REUSABLE AMENITIES
SOLAR WATER HEATERS
WATER FILTERS
TRADITIONAL HOMES

COMMUNITY LED ASTRO-TOURISM

Indigenous Communities
Remote Unmapped Areas
Lack of Development


NATIONAL GEOGRAPHIC
BREAKTHROUGH
POWER TO THE PEOPLE

BBC
FROZEN RIVER TREK TO
POWER UP HIMALAYAS

AWARDS

Winner
Best Start-up in Tourism 2019

Winner
World Tourism Awards 2018

Winner
Community Tourism Award 2018

RECOGNITIONS

Featured in Breakthrough Series “Power to the People”

Documentary on GHE for energy and education access

Documentary on Global Himalayan Expedition in winters

United Nations
Framework Convention on
Climate Change

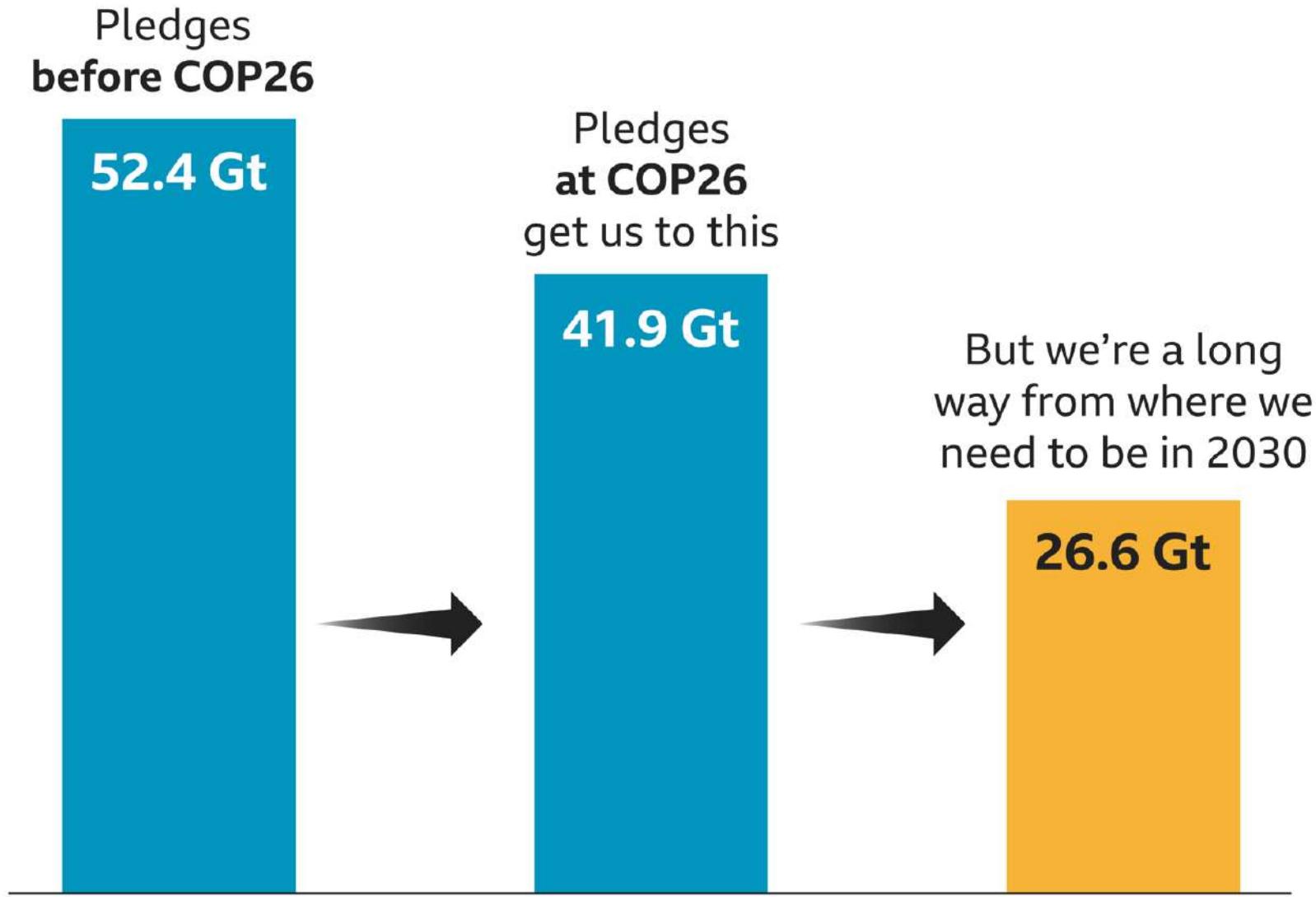
MOMENTUM
FOR CHANGE

UNITED NATIONS GLOBAL CLIMATE ACTION AWARDS 2020

GLOBAL HIMALAYAN EXPEDITION

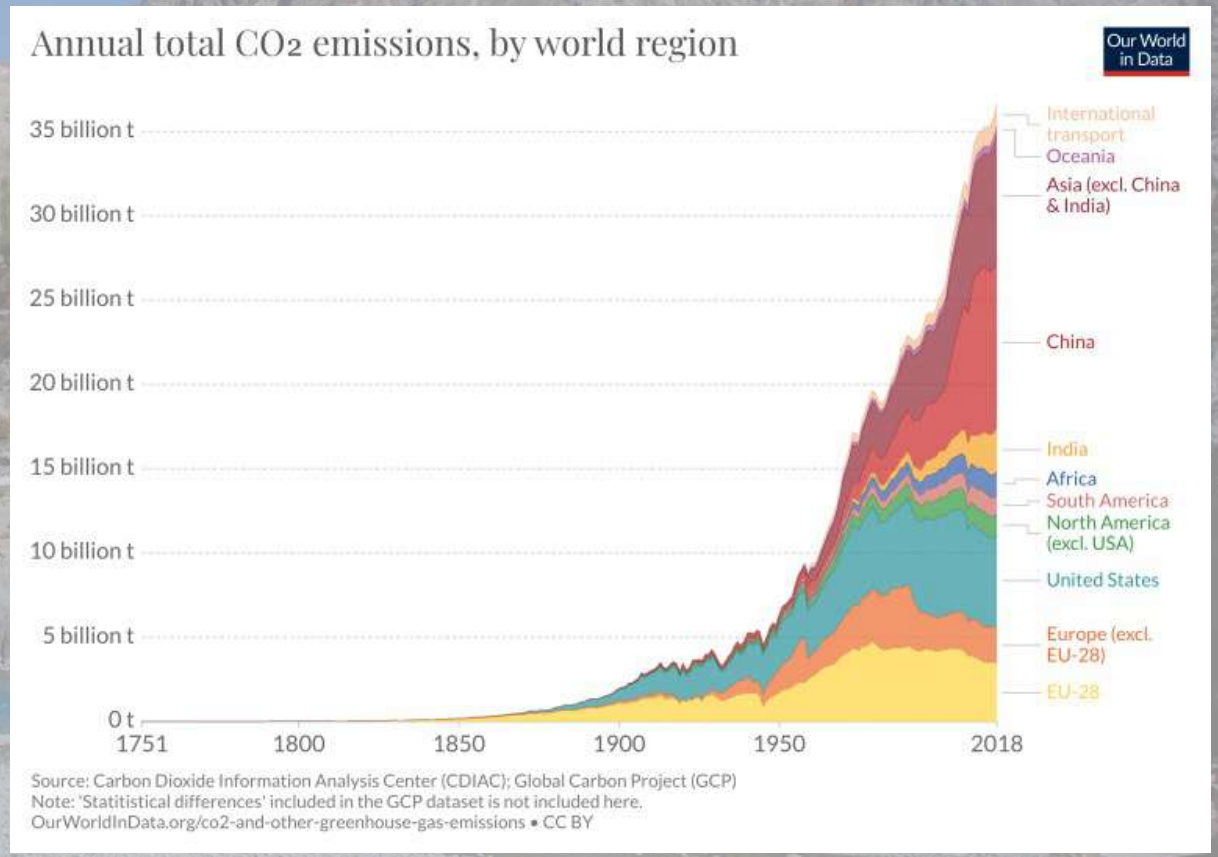
Big emissions cuts still needed to limit warming to 1.5C

Projected greenhouse gas emissions in 2030, gigatonnes



What is Carbon Emissions?

- CO2 is one of the greenhouse gases that absorbs radiation and prevents heat from escaping our atmosphere.
- By increasing the amount of CO2 in the atmosphere, we are increasing the heat that is prevented from escaping.
- This excess heat creates disrupted weather patterns, higher global temperature averages, and other changes in the climate.



FLOODS AND IRREGULAR RAINFALL PATTERNS

CYCLONES AND HURRICANES

FOREST FIRES

DROUGHTS

Himalayan village split in two by climate change

Muir Glacier, Alaska: August 13, 1941 and August 31, 2004

CLIMATE 365

climate365.tumblr.com | go.nasa.gov/climate365

- ✓ CLIMATE ACTION IS THE BIGGEST LEVELER
- ✓ IT DOES NOT SEE INDIA OR SWITZERLAND
- ✓ IT DOES NOT SEE BIG OR SMALL
- ✓ IT’S A GLOBAL CHALLENGE

Be the change
you wish to see
in the world

EVERYONE HERE IS A LEADER & WE NEED COLLECTIVE ACTION

International
National
Region
Community
Family
Self

VUCA BECOMES VUCA

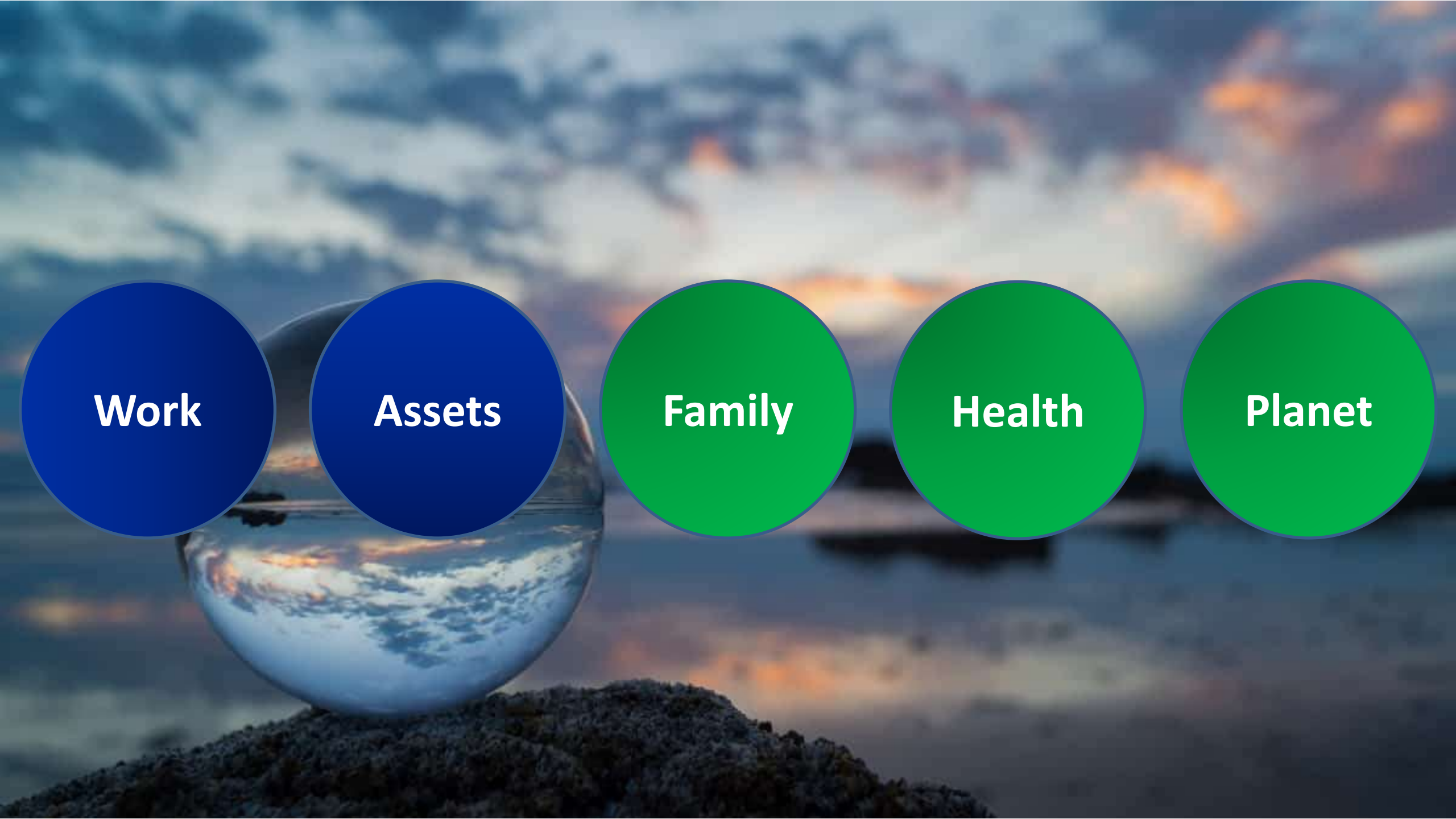
Volatile	Vision
Uncertain	Understanding
Complex	Clarity
Ambiguity	Adaptability

How can we Leverage Technology Further?

Leveraging AI and Blockchain to enable funding access

5G Platform Connectivity for Digital Health Access

Empowering Communities with the right data and protection


Work
Assets
Family
Health
Planet

PLEASE
LEAVE
NOTHING
BUT
YOUR

GHE IMPACT VENTURES

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