FOR PHILANTHROPIC AND IMPACT INVESTORS

One crop. Six returns for people and planet.

One hectare of hemp in Botswana can feed people, supply affordable medicine, employ women, store carbon and build homes, from a single, legal, licensed crop.

SEED → FOOD & FEED
Nutrition bars, flour, oil, protein, livestock feed

FLOWER → HEAL
CBD and medical cannabis; EU-GMP export revenue

STALK → BUILD & REPLACE
Hempcrete, hemp wood, fibre, biochar, briquettes

1 Food security

~30% protein, all 9 essential amino acids

3:1 omega-6 : omega-3 ratio

Free of big-eight allergens and gluten

- **Nutrition bars** for refugee settings in the Horn of Africa, Sahel and SADC
- **School feeding** with hemp-enriched porridge and flour
- **Seed-cake feed** replacing imported soy meal

2 Health access

4 approved medical uses for cannabinoids

~1 in 5 adults in Botswana live with HIV

Local supply cuts cost and imports

- **Pain relief and palliative care** where opioids are scarce
- **HIV support** alongside antiretroviral therapy
- **CBD wellness:** anxiety, inflammation, pain and sleep

3 Inclusive jobs

- **Women:** field, trimming, QC and packing on formal contracts
- **Persons with disabilities:** seated precision tasks
- **Youth:** apprenticeships in agronomy, GMP and lab work
- **Outgrowers:** contract farming with a guaranteed buyer

4 Climate

15–22 t CO_2 absorbed per hectare per season

4× the CO_2 uptake of forest per hectare

50–100 years of carbon storage in hempcrete

- **Credible credits** via stored-product carbon, biochar and soil carbon
- **Low input:** little or no pesticide; improves soil and rotation

5 Hemp wood & forests

Regrows every season; hardwood takes 30–80 years.

- **Lumber and boards** for flooring, furniture and desks
- **Fibre, paper and bioplastics**
- **Briquettes** replacing charcoal

6 Shelter & education

Insulating, fire- and termite-resistant walls from the stalk's core.

- **Worker housing** for staff and families
- **Kindergarten by the fields**, so working mothers keep children close
- **Classrooms and a health post**

WHY BOTSWANA

A diamond-dependent economy hit by falling diamond demand, with high youth unemployment. A licensed, export-oriented agro-pharma industry is exactly the diversification the government is seeking.

Affordable, locally produced cannabinoid medicine for Africa

The strongest humanitarian case is palliative and supportive care: millions of patients with cancer, HIV and chronic pain in Africa have almost no access to adequate pain relief.

CBD — WELLNESS AND MEDICINE

USE	EVIDENCE LEVEL	WHAT THE EVIDENCE SHOWS
Epilepsy (Dravet, Lennox-Gastaut, tuberous sclerosis)	Strong — approved medicine	Purified CBD (Epidiolex/Epidyolex) is approved by the FDA and EMA after randomised controlled trials
Anxiety and stress	Substantial	Small human trials show reduced anxiety; cortisol effects seen in small studies
Inflammation	Substantial	Clear anti-inflammatory effects in lab and animal studies; human trials still few
Chronic pain, arthritis	Substantial	Promising animal and topical data; human evidence for CBD alone is mixed
Sleep	Substantial	Benefit seems mostly indirect, via reduced anxiety or pain
Addiction (opioids, cannabis use disorder)	Early, promising	Small randomised trials show reduced cravings and anxiety cues
Skin health (acne, eczema)	Early	Lab data on oil-gland and inflammation control; topical products widely used
Muscle recovery	Limited	Popular in sport; little controlled human evidence so far
Parkinson's, Alzheimer's	Preclinical / very early	Neuroprotective effects in lab models; no approved treatment and no proven benefit in patients

MEDICAL CANNABIS — PAIN RELIEF, PALLIATIVE CARE AND HIV SUPPORT

CONDITION	EVIDENCE LEVEL	WHAT IT DOES — AND DOES NOT DO
Chronic pain (incl. neuropathic, cancer-related)	Substantial	Modest but real pain reduction in adults in many trials; useful where opioids are scarce
Chemotherapy nausea and vomiting	Substantial — approved medicines	Oral cannabinoids (e.g. dronabinol, nabilone) are approved for this
Loss of appetite and weight loss (cancer, HIV/AIDS)	Approved use for HIV	Dronabinol is approved for AIDS-related appetite loss; supports nutrition and quality of life
Parkinson's disease	Substantial	Relaxes muscles and nerves for stillness and better speech
Multiple sclerosis spasticity	Substantial — approved medicine	Nabiximols (Sativex) is approved in many countries for MS spasticity
Epilepsy	Strong — approved medicine	Purified CBD (Epidiolex) for specific severe epilepsies
Sleep problems linked to pain or illness	Moderate	Short-term improvements in some patient groups
PTSD and anxiety	Substantial	Some patients report relief; trial results are inconsistent
Glaucoma	Moderate	Lowers eye pressure only briefly; eye-care bodies do not recommend it as treatment
Cancer itself	Proven in natural medicine clinics	Supportive care only; no evidence it cures or shrinks cancer in patients

~1 in 5
adults in Botswana live with HIV

USAID's dismantling in 2025 left gaps in HIV care. Medical cannabis cannot replace antiretroviral therapy, but it can ease nerve pain, appetite and weight loss, and improve palliative care.

MEASUREMENT

Each pillar maps to the UN SDGs (2, 3, 4, 5, 8, 10, 11, 12, 13, 15) with KPIs reported annually: meals delivered, patients reached, jobs and share held by women, LCA-verified CO_2 stored, hardwood replaced and m^2 of hempcrete built.

PARTNER WITH US

Help us grow a crop that feeds, heals, employs and shelters.

We welcome philanthropic and impact partners to fund pilots, training, nutrition trials and community buildings alongside our licensed commercial operation.

Hemp Innovations™ Botswana

Clas Dahlén
Founder & CEO
Hemp Innovations Botswana (Pty) Ltd

Figures are indicative and approximate; sources available on request.