CANNABIS SCIENCE, INC. CBIS GLOBAL ECONOMIC DEVELOPMENT PLAN



BRINGING IT ALL TOGETHER

Raymond C. Dabney

President & CEO, Co-Founder of Cannabis Science, Inc.
Board Member, Constituency for Africa (CFA)
Vice-Chair, CFA
Chairman of African Economic Development Committee, CFA

Chancellor, American States University (ASU)

Chairman, Raymond C. Dabney University (RCDU)

Dr. Julius Garvey

M.D., F.A.C.S, F.R.C.S.(C), F.I.C.S., F.A.C.Ph., F.A.C.C.W.S.

Chief Medical Officer, Cannabis Science, Inc.

President Scientific Advisory Board, Cannabis Science, Inc.

Founder & Medical Director, Garvey Vascular Specialists

Fellow, Royal College of Surgeons (Canada), American College of Surgeons, The American College of Phlebology, the International College of Surgeons, and the American College of Chest Physicians





BRINGING IT ALL TOGETHER

THE CBIS ECONOMIC DEVELOPMENT
INITIATIVE IS DESIGNED TO CREATE
ECONOMIES OF SCALE IN ANY DEMORAPHIC
IN ANY CITY, SUBURB, AND COUNTRY.

THIS PLAN IS PROPELLED BY THE RESEARCH AND DEVELOPMENT OF CANNABINOID-BASED CLINICAL DRUGS FOR CRITICAL AILMENTS AND PALLIATIVE CARE.







1. DRUG DEVELOPMENT

- FDA, State-By-State, Over the Counter markets for: Cancer, PTSD, Chronic Pain, Arthritis, Parkinson's Disease, Epilepsy, Autism, and HIV/AIDs.

3. JOB CREATION

- Entrepreneurial programs and vertical integration including site creation, healthcare infrastructure, water & waste management infrastructure, technology & communications infrastructure, housing (apartments, dorms, etc.), and retail services.



2. EDUCATION

- Access to our consortium of affordable University programs, inclusive of scholarships and additionally subsidized education packages.













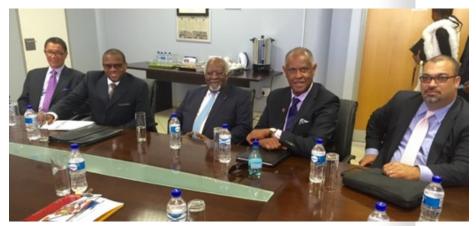
BRINGING IT ALL TOGETHER





CBIS TEAM

















"To build a base of support for Africa in the United States and throughout the African Diaspora"

- HEALTHCARE INFRASTRUCTURE
- FOOD SECURITY AND AGRICULTURE
- EDUCATION AND TRAINING
- TECHNOLOGY/TELECOMMUNICATIONS
- POLITICAL AND POLICY ENVIRONMENTS







1. CBIS DRUG DEVELOPMENT



CBIS' DRUG DEVELOPMENT PROGRAM:

- 1. Defining the effectiveness and specificity of cannabinoids.
- 2. Identifying and testing drug delivery mechanisms.
- 3. Testing and evaluating the impact of co-interventions, and the application of additional diagnostic and/or therapeutic procedures to participants in randomized controlled trials.



FDA	OVER THE COUNTER	STATE BY STATE
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Doctor written prescriptions

Targeted Critical Ailments

Nutraceuticals

Cosmeceuticals

Regulation

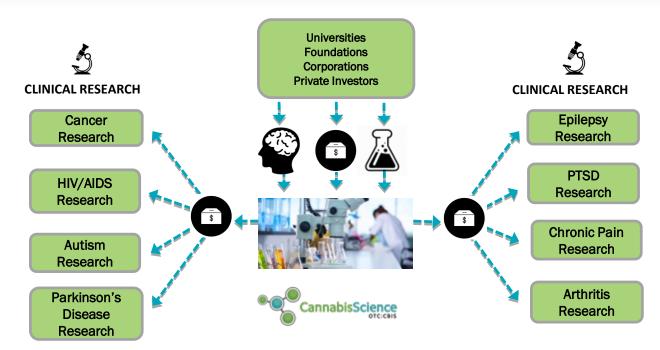
Cultivation

Laboratory





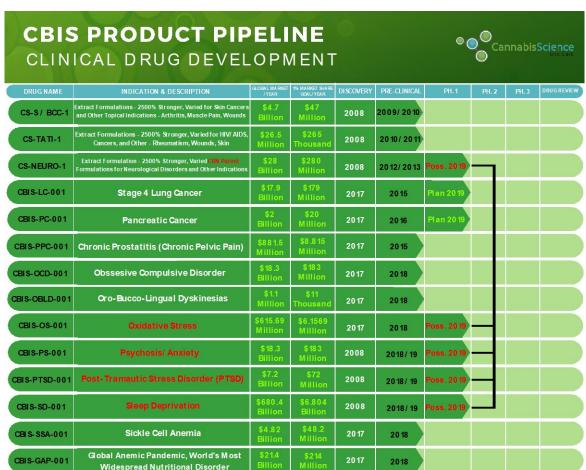
CBIS MEDICAL CONSORTIUM



BRINGING IT ALL TOGETHER











CBIS PRODUCT PIPELINE



STATE-BY-STATE / INVENTORY LIST

PRODUCT	DESCRIPTION	DEVELOPMENT	MANUFACTURING	DISTRIBUTION	OBSERVATION
DELIVERY MOI	DELIVERY MODULE: CAPSULE				
CBIS HIGH THC	Non-GMO, Preservative Free 94.5% Total THC				
CBIS HIGH CBD	Non-GM0, Preservative Free 94.5% Total CBD				
CBIS THC CBD SOFT GEL	CBD:THC 1:1, 2:1, 14:1, 20:1				
CBIS CBD SOFT GEL	Medicinal Benefits of CBD				
CBIS THC+ SOFT GEL	Medicinal Benefits of THC				
CBIS CS-TATI-1	Pure extract formulation - 2500% stronger Varied formulations for Cancers, HIV/AIDS and Other				
CBIS CS-NEURO-1	Pure extract formulation - 2500% stronger Varied formulations for Neurological disorders and other				
FSO NAC POWERED BY CBIS PURE HEMP CBD	Non-GMO Industrial Hemp Oil, 25mg of Active Cannabinoids				
DELIVERY MODULE: TOPICAL, CREAM, LOTION, SOAP, SUPPOSITORY					
CBIS NECK AND WRIST CREAM	THC & Coconut Oil Pain Management				





CBIS PRODUCT PIPELINE



OVER THE COUNTER / INVENTORY LIST

PRODUCT	DESCRIPTION	DEVELOPMENT	MANUFACTURING	DISTRIBUTION	OBSERVATION
DELIVERY MOD	DELIVERY MODULE: CAPSULE				
CBIS HEMP CBD	Industrial Hemp CBD				
FSO NAC POWERED BY CBIS PURE HEMP CBD	Non-GMO Industrial Hemp Oil, 25mg of Active Cannabinoids				
DELIVERY MOD	DELIVERY MODULE: TOPICAL, CREAM, LOTION, SOAP, SUPPOSITORY				
CBIS LIP BLAM	Cannabis Sativa (Hemp Seeds Oil), Bees Wax, Cannabis Extract				
CBIS DERMIS	Hemp Lotion				
CBIS HEALING BALM	Coco Oil, Teatree oil, Beeswax, Cannabinoids				
HEMPERY TINTED LIP BALM	.25 oz Wine , Blush, Apricot				
HEMPERY HEMP COSMETICS	Mascara, Blush				
HEMPERY LIP BLAM	Cocoa butter, Beeswax, Hemp Seed Oil, Coconut Oil, Essential Oil of Peppermint				



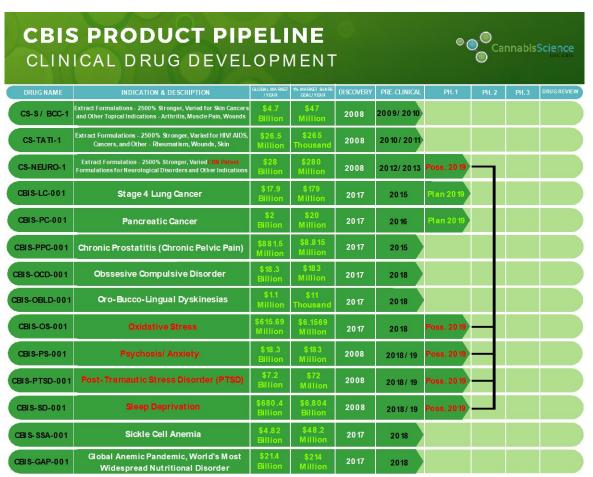
POSITIVE MOMENTUM TRANSITIONING INTO CLINICAL DRUG DEVELOPMENT

Dr. Julius Garvey M.D., F.A.C.S, F.R.C.S.(C), F.I.C.S., F.A.C.Ph., F.A.C.C.W.S Chief Medical Officer (CMO), Cannabis Science, Inc.

BRINGING IT ALL TOGETHER!











COLLABORATION RESEARCH AGREEMENT w/ DANA-FARBER CANCER INSTITUTE





MAIN GOAL: "To develop and investigate the use of Cannabinoids for treatment of a variety of cancers, and investigate the synergistic impact of Cannabinoids when used together with standard and novel anti-cancer regimens."



TWO PUBLISHED ARTICLES IN FRONTIERS IN ONCOLOGY:

NANOPARTICLE DRONES TO TARGET LUNG CANCER WITH RADIOSENSITIZERS AND CANNABINOIDS (SEPTEMBER 2017)

17,705

Article views

98%

More views than all other Frontiers' articles

ENHANCING THE THERAPEUTIC EFFICACY OF CANCER TREATMENT WITH CANNABINOIDS (APRIL 2018)

19,480 Article views

98%

More views than all other Frontiers' articles





COLLABORATION RESEARCH AGREEMENT w/ DANA-FARBER CANCER INSTITUTE







Other Achievements:

- DEA approval allowing investigations of other CBD/THC strains
- New Phytomedicine Research Collaboration with DFCI on "Blood from Plants" (See exhibit at the summit)









CANNABINOIDS IN LUNG AND PANCREATIC CANCER TREATMENT

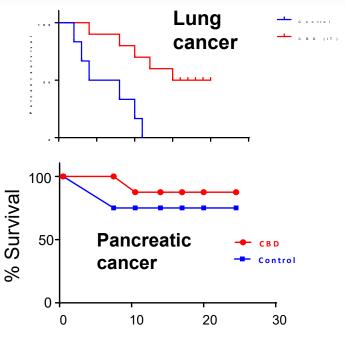
Some results





Cannabinoid (CBD): Inhibits Cancer Growth

Increase survival duration and number in lung and pancreatic cancer mouse model



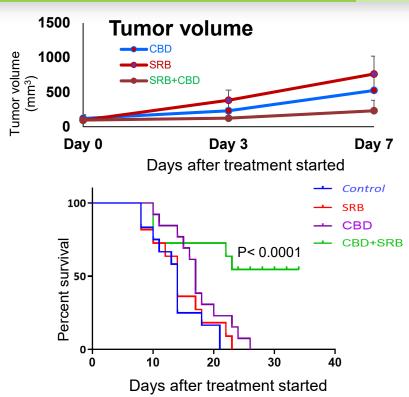
Days after treatment started





Cannabinoid (CBD): Inhibits Cancer Growth

Further increase survival duration and survival percent in lung cancer mouse model by sustain insitu delivery of CBD using Smart Radiotherapy Biomaterial (SRB)

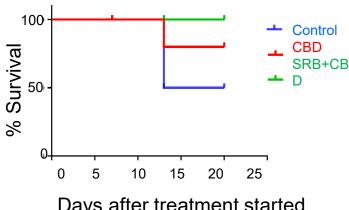






Cannabinoid (CBD): Inhibits Cancer Growth

Further increase survival duration and survival percent in a pilot study of pancreatic cancer mouse model by sustain in-situ delivery of CBD using Smart Radiotherapy Biomaterial (SRB)



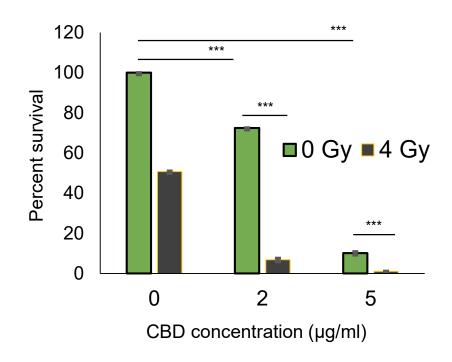
Days after treatment started





Radiotherapy (RT) enhances Tumor cell killing by CBD

In-vitro study:
Radiation enhances
anticancer effect of
CBD in human lung
cancer cells

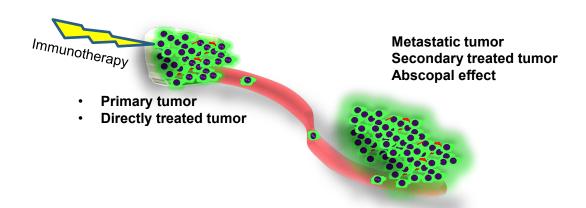






What is Abscopal Effect?

It has been observed by Mole and others that treatment at one site may lead to regression of metastatic cancer at other sites, which were not treated; this phenomenon is called 'abscopal' effect.

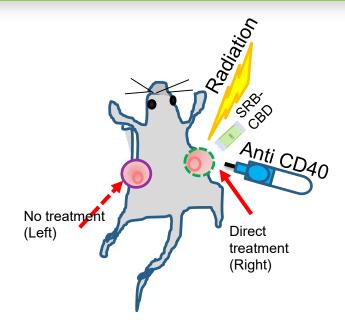


Immunotherapy: can enhance the abscopal effect of radiation





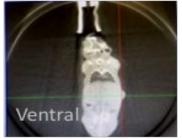
Cannabinoid (CBD): Enhance Abscopal effect?

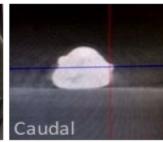


Dorsal view of a mouse with two tumors





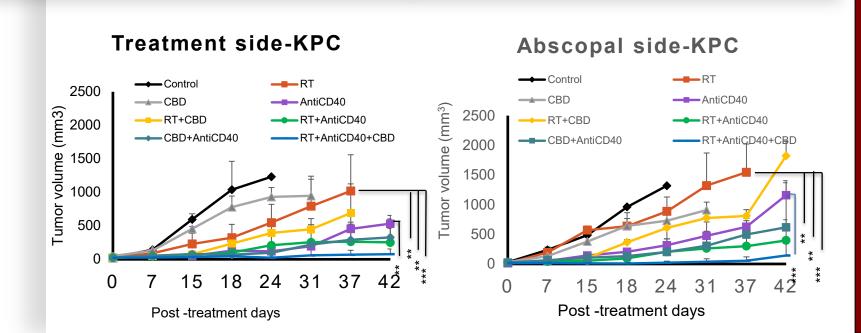








CBD – Abscopal Effect (KPC) Medical Cannabis extracts can boost the abscopal effect leading to untreated or metastatic tumor regression

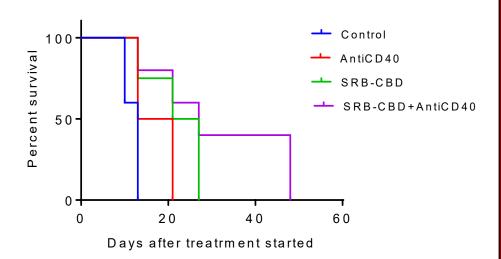






Cannabinoid (CBD): Enhance Abscopal effect?

In-vivo study: AntiCD40 along with SRB-CBD for Abscopal effect



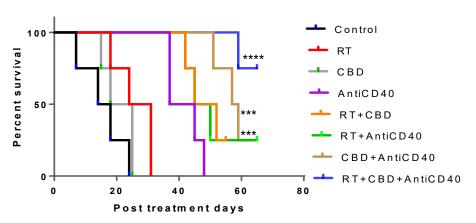




CBD – Abscopal Effect (KPC)

Major increase in survival when using Medical Cannabis Extracts in Combination with immunoadjuvant

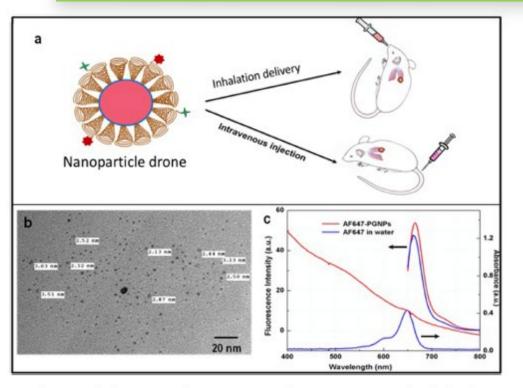
Survival graph
Pancreatic (KPC) tumor abscopal effect study 1

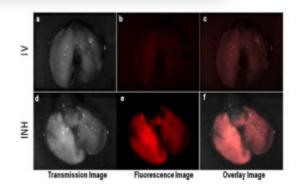






USING SMART DELIVERY TECHNOLOGIES





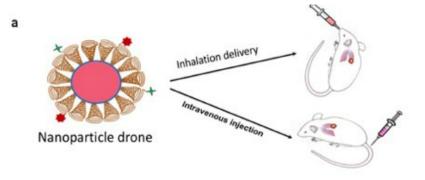
Inhalation delivers more directly to tumor

FIGURE 1 | (A) Carbon showing both intravenous and inhalation (INH) delivery of nanoparticle drones; (B) TEM image of lung tumor targeted with drones; (C) absorption spectra of drone technology uniquely customized for INH delivery to lung tumors.





USING SMART DELIVERY TECHNOLOGIES IMPLEMENTATION



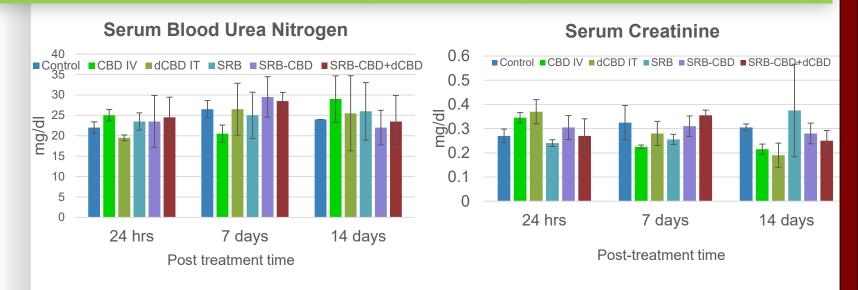


From Bench to Bedside





CBD-toxicity study – Pancreatic cancer model (Panc-02) Relativity No Toxicity



CBD (Cannabinoid): stock solution- 1gm/ml dissolve in methanol (Sigma).

Control: No treatment given

dCBD: direct injection of CBD (100 µg)

SRB-CBD: CBD (2ug) loaded in smart radiotherapy biomaterial (SRB)

CBD IV: tail vein injection of CBD (100 µg)

SRB: Methanol (2ug) loaded in smart radiotherapy biomaterial (SRB)









Next Steps

- Phase 1 clinical trial
- Investigate other indications
- Combine with Justicia compounds for sickle cell disease (see Justicia study results and exhibit)





EXAMPLES OF ADDITIONAL CBIS RESEARCH COLLABORATIONS

Stellenbosch (South Africa)

 CBIS and Stellenbosch University are jointly investigating the use of cannabinoids to treat chronic pelvic pain disorder/chronic prostatitis, and other indications.

North-West University (South Africa)

CBIS and North-West University will jointly investigate the use of cannabinoids to treat OCD and PTSD.

Stellenbosch (Nigeria)

- CBIS and Stellenbosch University are investigating the potential beneficial effects of cannabidiol on oro-buccolingual dyskinesias, oxidative stress, and psychosis using animal studies and a clinical trial.
- Additionally, a protocol is currently being developed for a PTSD clinical trial.

CBIS' CBN Patent

- U.S. Patent No. 9,763,991 for the "Compositions of Cannabinol (CBN) for Treatment of Various Neurobehavioral Disorders, including Sleep Disorders"
- Composition for use of CBN in the treatment of neurobehavioral disorders.
- Plant extracts derived show particularly beneficial effects against sleep disorders, in particular insomnia; anxiety disorders, including ADHD; and PTSD.
- CBIS is negotiating licensing and marketing agreements.





DANA-FARBER/CANNABIS SCIENCE COLLABORATION 2 BLOOD FROM PLANTS





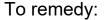


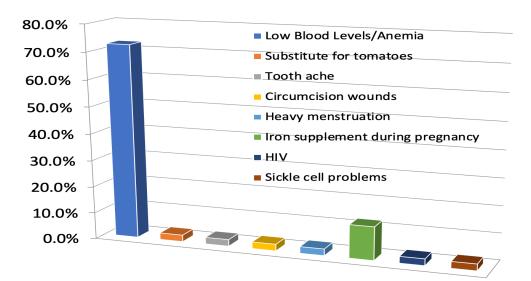






Used by populations but with no scientific evidence-base

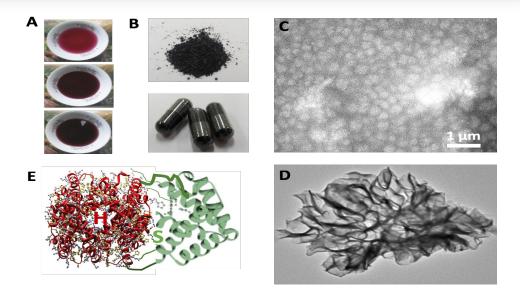




Results from Harvard collaboration with Sts Stephen and Paul's Foundation Cameroon



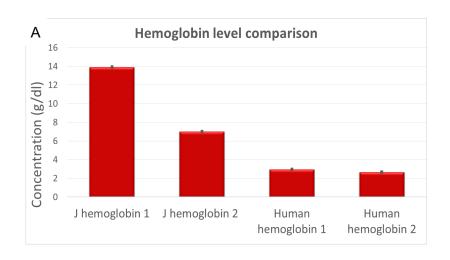




Structure results from research at Harvard Medical School with DFCI IP Collaboration agreement with CBIS







Many times more Hemoglobin than in humans

Function results from research at Harvard Medical School with DFCI IP Collaboration agreement with CBIS





pO₂

Hg

mm

Measured blood gas values at 37°C

pCO₂

27.8 mm

Hg

PH

7.75

Analyte	Concentration	Ī
	(œg/ml)	Γ
Al	1.14	T
		L
Ca	41.48	
Сг	1.12	
Fe	2.64	1
K	167.5	
Mg	20.44	
Mn	0.14	
Na	63.44	
P	3.04	
Pb	0.32]
Si	1.94	
Sc	0.08	
Ti	0.06	
V	0.04	

Remarkably similar composition of elements found in blood

Function results from research at Harvard Medical School with DFCI IP Collaboration agreement with CBIS





Next Steps:

- Products launching this summer (see exhibit for a sample)
- Development of blood substitute
- Nutraceuticals (Nature based)
- Long live cows! Highly nutritious organic foods which taste the same as if they had meat because of the rich hemoglobin/blood from plants
- Sickle cell disease, etc.







2. CBIS EDUCATIONAL DEVELOPMENT

CBIS, Harvard Medical School's Global Health Catalyst, Elpasso Farms, and ASU form a collaboration to establish a platform through which faculty at Harvard and partner institutions will provide the best in online and on-site hybrid education and training.



ASU

Focus on Agriculture - R&D of Hemp Cultivation; 5 departments offering 37 programs



RCDU

Offers affordable entrepreneurial programs with incubator options



CFA

African Initiative focused on drug development, food safety, policy, education, and communications.



ELPASSO FARMS

Will offer agriculture, medicine, law, and business programs. R&D using cannabinoids. Seed incubation, growth, and cultivation.



INTERNATIONAL UNIVERSITY OF MANAGEMENT OF NAMIBIA (IUM)

Memorandum of Agreement and Cooperation for joint educational and research programs.



UNIVERSITY OF STELLENBOSCH

Collaboration Research Agreement to develop cannabinoid-based medications to treat chronic pain and other indications.





CBIS NATIVE AMERICAN ECONOMIC DEVELOPMENT PLAN

- Partnership with Free Spirt Organics Native
 American Corporation, HRM Farms, RCDU, and ASU
 Department of Agriculture in San Joaquin County
- ASU and RCDU offer 5 Departments and 37 certification programs
- ASU's Department of Agriculture will be conducting cannabinoid drug research & development from the industrial Hemp plant, targeting critical ailments
- Research, development, cultivation, and testing will be integrated into the school's programs
- CBIS has provided many jobs to the community from the University site creation and Hemp Farm cultivation







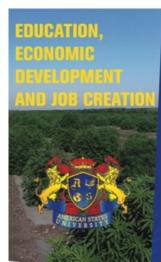












FUNDAMENTAL AREAS OF ECONOMIC GROWTH:

Universities and site services including, laboratory facilities for research & development.

OTHER KEY FUNDAMENTALS DEPENDING ON THE DEMOGRAPHICS:

Housing, apartments, dormitories, and retail services; restaurants, gas stations, grocery stores, clinics, pharmacies, and retail strip malls.



PROGRAMS CURRICULA

- Department Management

 Regulatory Compliance - Company Creation

Company Structure

- Team Management

· Planting and Harvest

· Formulation Creation

 Wholesale Distribution - Observational Studies

Manufacturing

 Clinical Studies - Retail, Sales and Marketing

LANS BLUMBSS, HERETHCARE ENTREPRENEURAL DE DESENDOS PROCESAS.

DENCE IN CASC TAKING

Epilepsy

Autism

San Joaquin Sovereig Tribal Free Land MBS

Vertical-integration allows us to provide many jobs throughout the community in agriculture.

- education, healthcare training, construction, and Academic and vocational training, covering each applied industry;
- Agricultural research;

general retail services:

- Development of healthcare infrastructure, including hospitals and
- Pharmaceutical and Alternative Medicines development:
- Creation of a sustainable, food security system that is based on sound agricultural practices that produce sufficient food for consumption and that are designed to reduce poverty and allow for real farm-to-table
- Development of water management systems:
- Development of waste management systems that reduce the prevalence of critical risk factors for infectious diseases.
- Investment in communications infrastructure, to include satellite internet, mechanical device development, and celiphone
- Support for policy, regulatory, and jurisdictional environments, as they pertain to public healthcare, agriculture, education, job creation, and most important; on the job training oriented for success.

To-date: approximately 30 part-time workers hired. Upcoming Harvest Prospect: 50 -75 workers to be hired. Year Round Harvest Prospect: Hundreds of full- time workers to be















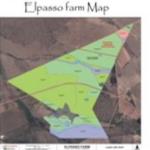




CBIS AFRICAN ECONOMIC DEVELOPMENT PLAN

FIRST AFRICAN DEAL - ELPASSO FARMS COLLABORATION





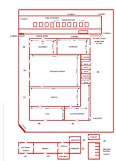


- Partnership with Dr. Brylyne Chitsunge and Elpasso Farms in South Africa
- Elpasso will donate land to develop a new University in South Africa to specialize in agriculture, medical, law, and business programs
- The University will research, develop, cultivate, test, manufacture, and produce cannabinoid therapies
- The site will be responsible for seed incubation, growing, and cultivation of a variety indigenous plants including cannabis and hemp.















FUTURE UNIVERSITY PLANS



BRINGING IT ALL TOGETHER

FUTURE PLANS TO INTEGRATE ALL UNIVERSITY PROGRAMS

Agriculture

Medical

Law

Business

Technology

Real EstateDevelopment

Retail

Entrepreneurial (Job Creation)

Professional Certifications

 Motion Picture & Media

Political Environments

Mining

Banking





3. CBIS JOB CREATION

BRINGING IT ALL TOGETHER!

Entrepreneurial programs and vertical integration.

- JOB CREATION due to the effectiveness of the EDP.
- University programs agriculture, medical, law, business, medical, technology, media
- Students graduating with entrepreneurial skills to create their own jobs
- Solar power stations
- Highways, roads and site services
- Healthcare Infrastructure
- Water & Waste Management Systems
- Technology & Communications Infrastructure
- Housing, Apartments, Dormitories
- Retail Services Book Stores, Grocery Etc.













CBIS AFRICA DEVELOPMENT PLAN

BRINGING IT ALL TOGETHER!

JOB CREATION

- Entrepreneurial programs and vertical integration including site creation, healthcare infrastructure, water & waste management infrastructure, technology & communications infrastructure, housing (apartments, dorms, etc.), and retail services.

DRUG DEVELOPMENT

- FDA, State-By-State, Over the Counter markets for: Cancer, PTSD, Chronic Pain, Arthritis, Parkinson's Disease, Epilepsy, Autism, and HIV/AIDs.

EDUCATION

 Access to our consortium of affordable University programs, inclusive of scholarships and additionally subsidized education packages.



Image credit: https://fticommunications.com/2018/02/myth-wakanda-reality-africa-technology-innovation-beyond-screen/





CBIS AFRICA DEVELOPMENT PLAN SECOND AFRICAN DEAL - MANDELA QUNU FOOD SECURITY





A sustainable farming venture in his impoverished home town of Qunu in the Eastern Cape, where Nelson Mandela is buried



- Deal is introduced and championed by Elpasso Farms
- Operated by Dr. Brylyne Chitsunge the Pan African Ambassador for Food Security In Africa - and a tireless advocate for food security
- Aims to develop a platform for Agricultural Stakeholders to work within the Qunu Community on Mandela's farm ensuring the development of agriculture within South Africa







5. Warehouse

6. Housing

7. Greenhouses

8. Strip Mall

9. Gas Stations

10. General Services









CBIS ECONOMIC DEVELOPMENT PLAN

JOBS CREATED FOR REAL ESTATE MANAGEMENT

- APARTMENT COMPLEX
- STUDENT DORMITORIES
- MEDICAL FACILITIES

- + Open for students and professors
- + State of the Art Equipment
- + Product Research & Development
- + Treatment center for patients





CBIS ECONOMIC DEVELOPMENT PLAN JOBS CREATED FOR AGRICULTURE

CANNABIS ASSOCIATED JOBS

We will run a complete vertically integrated model.

Cannabinoid Operations Model will include:

- 1. Economic and Job Creation
- 2. Cultivation Center
- 3. Extraction Laboratory
- 4. Commercial Kitchen
- 5. Product Development
- 6. Company Branding & Recognition
- 7. Marketing & Advertising
- 8. Distribution







CBIS ECONOMIC DEVELOPMENT PLAN

JOBS CREATED - PRODUCT MANUFACTURING





















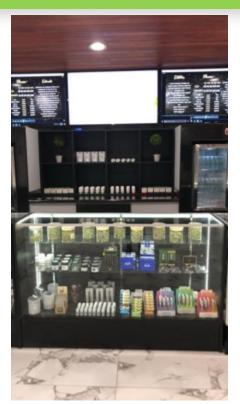


CBIS ECNOMIC DEVELOPMENT PLAN

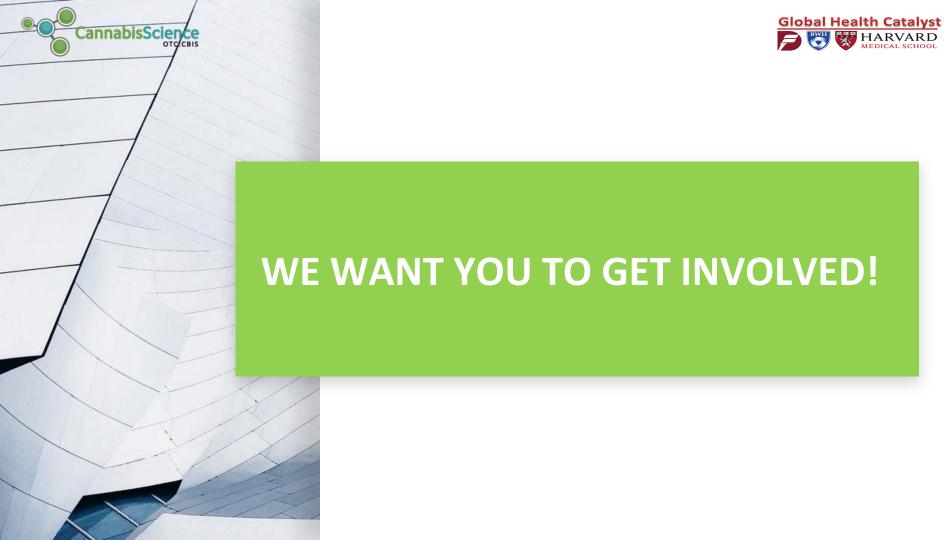
JOBS CREATED IN CBIS MEDICAL CENTERS & CBIS PHARMACIES







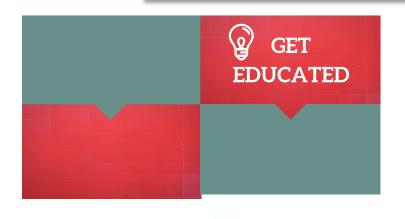








CBIS FIGHTS TO END OPIOD DEATHS



CANNABIS IS USED AS A GATEWAY OUT OF OPIOID ADDICTION!

In conjunction with "iCannabinoid, We The People" campaign, CBIS aims to educate and help eradicate opioid deaths by replacing opioids with Cannabinoids - pills, extracts, tinctures, sprays, inhalers, and others that have great potential to end opioid deaths.



JOIN OR CREATE AN ACTION GROUP AT iCannabinoid.com TODAY!









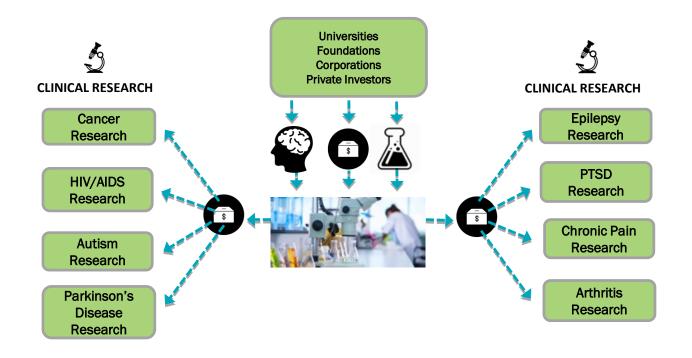
CONNECT, LEARN, SHARE!

- Creating Action Groups on specific topics to share information
- "My Health" Module for tracking your life
- Join the Ambassador Program this is where we connect learn and share

www.iCannabinoid.com







Thank You for Helping us Bring it all Together !!!