



CANNABIS 101

AN INTRODUCTORY OVERVIEW OF CANNABIS





LEZLI ENGELKING FOUNDER FOCUS









Federal 501(c)(3) Notfor-Profit Health & Safety Organization Voluntary Consensus
Standards
Development

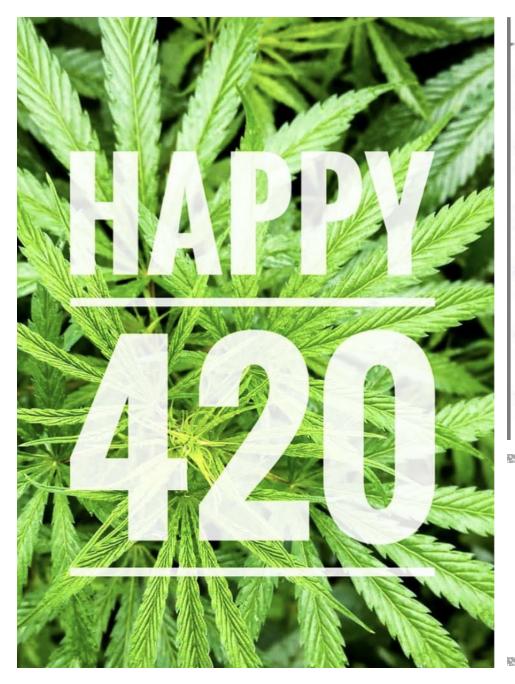
Internationally
Accredited Cannabis
Specific Certification

Cultivation,
 Manufacturing,
 Laboratory, Retail

No financial stake in, nor funding from the cannabis industry Not an advocacy organization nor an industry trade association

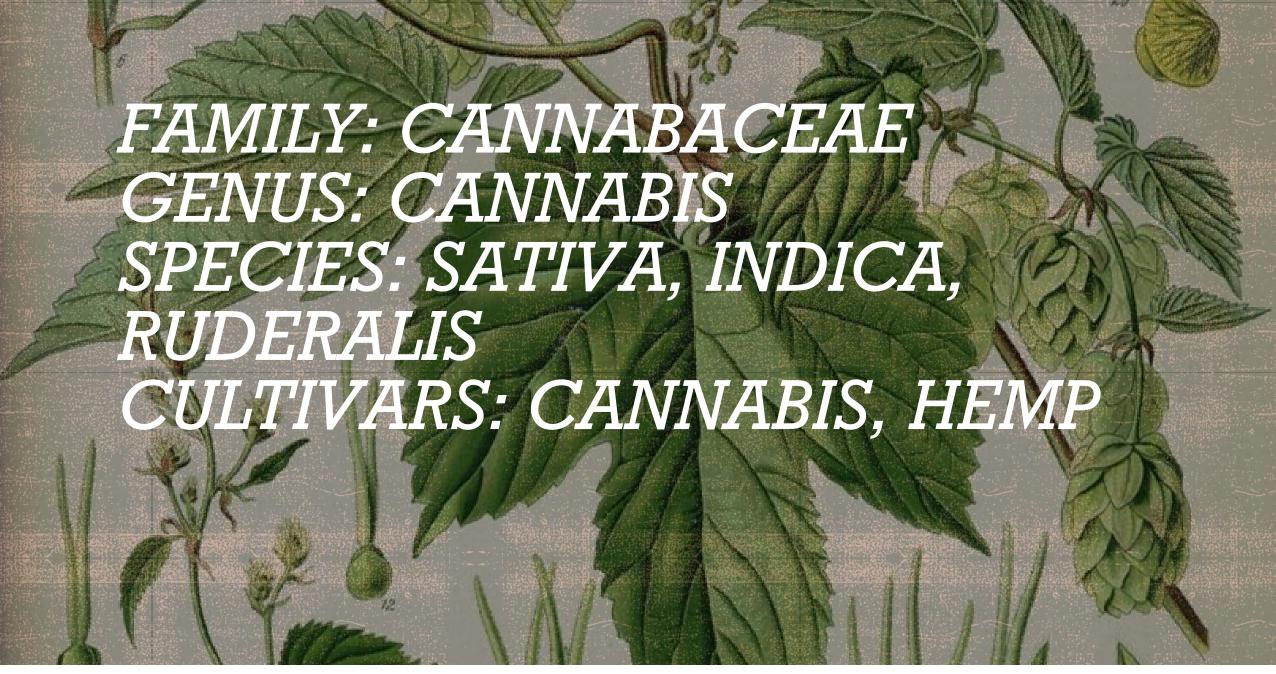
FOCUS: THE CANNABIS HEALTH AND SAFETY ORGANIZATION





If someone told us ten years ago that the government would pay us to stay at home the entire month of 4/20 and that you could only leave your house to pick up food and weed, we never would have believed them

THE HISTORY OF 420



Pollio A. The Name of Cannabis: A Short Guide for Non-botanists. Cannabis Cannabinoid Res. 2016;1(1):234–238. Published 2016 Oct 1. doi:10.1089/can.2016.0027

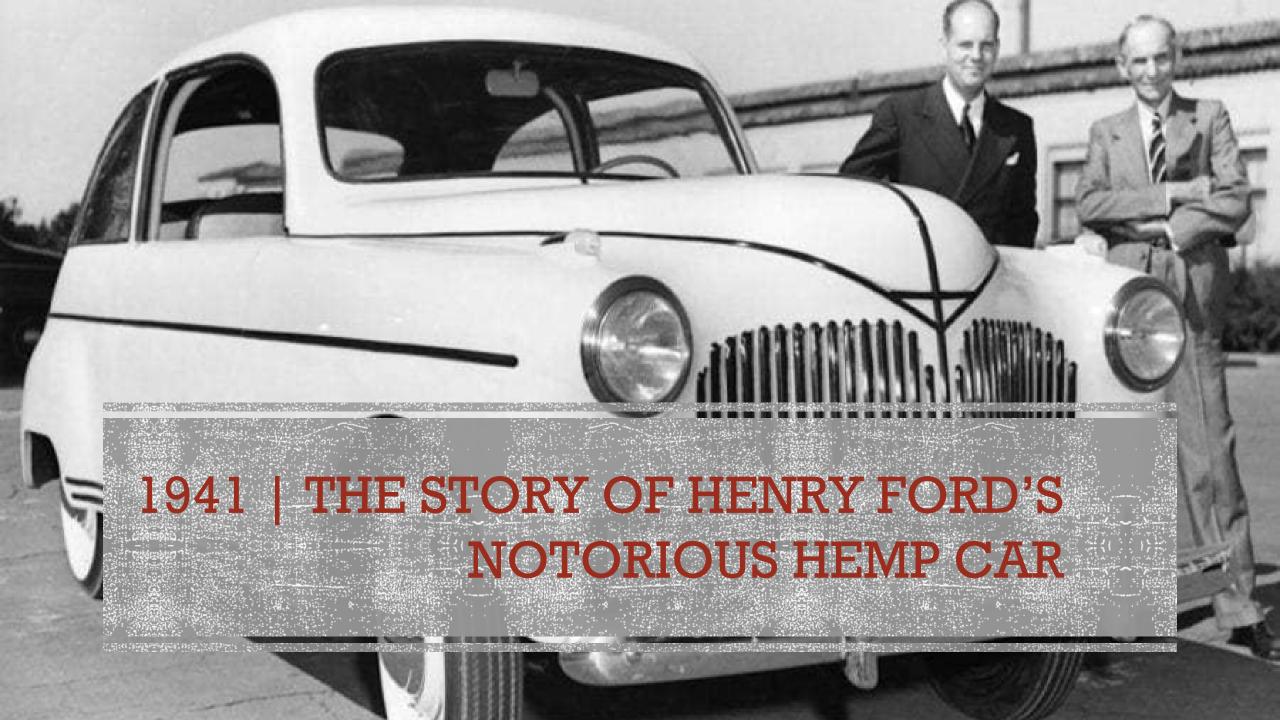


IS IT CANNABIS, HEMP OR MARIJUANA?

- Regulatory
- THC & CBD
- Psycho-activity
- Growing Requirements
- Appearance
- Uses

Lafaye G, Karila L, Blecha L, Benyamina A. Cannabis, cannabinoids, and health. Dialogues Clin Neuroscience 2017;19(3):309-316







From 1850 to 1936, cannabis was used as the primary medicine for 100 illnesses / diseases in the US.



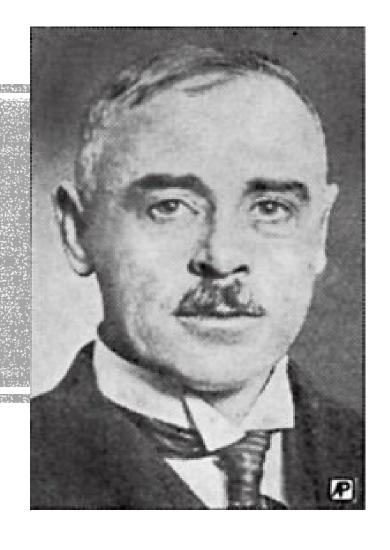
1950: CANNABIS LISTED IN US PHARMACOPOEIA



- Neuralgia
- Tetanus
- Typhus
- Cholera
- Rabies
- Dysentery
- Alcoholism
- Opiate addiction
- Anthrax
- Leprosy
- Incontinence
- Gout
- Convulsive disorders
- Tonsillitis
- Insanity Excessive menstrual bleeding
- Uterine bleeding
- And others



1914 | HARRISON NARCOTICSHAX NOT



Harrison Narcotics Tax Act, 1914



I930 | FEDERAL NARCOTICS BUREAU



OFTEN CITED AS THE FIRST STEP BY THE US GOVERNMENT THAT BEGAN THE BAN ON CANNABIS.





1970 THE CONTROL LED SUBSTAN





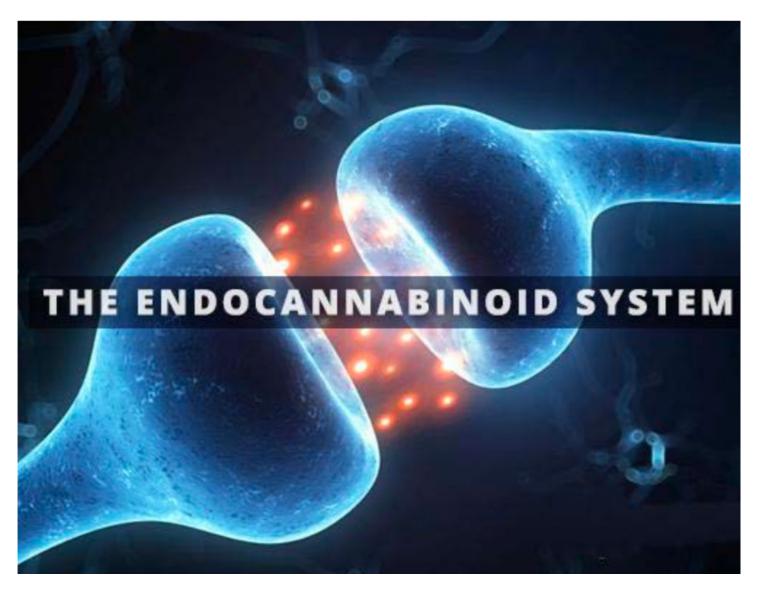
FOOD, DRUG & COSMETICS ACT

PUBLIC: HEALTH SERVICE ACT



US CANNABIS LAWS TODAY ARE ABOUT AS CLEAR AS MUD.





Alger BE. Getting high on the endocannabinoid system. Cerebrum. 2013;2013:14. Published 2013 Nov 1.

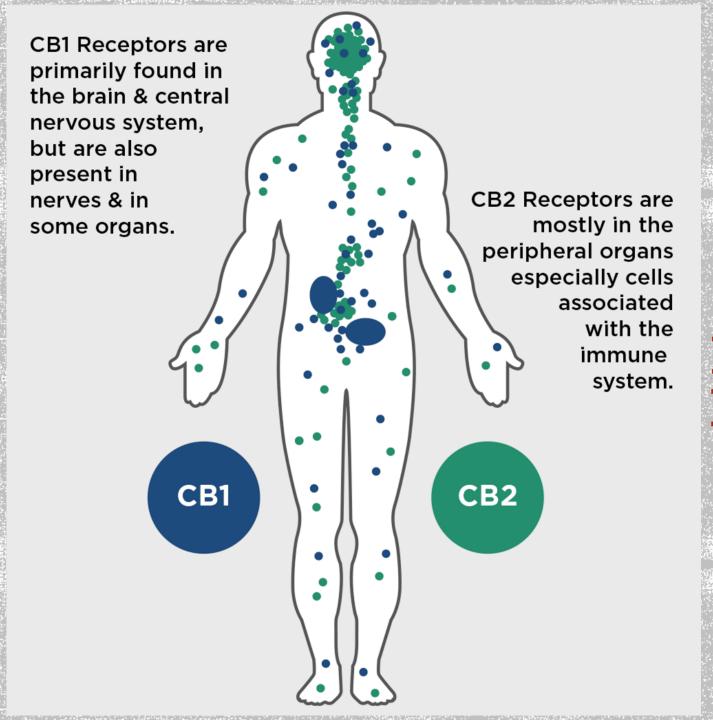
COMPLEX CELL
SIGNALING SYSTEM
TO CREATE
HOMEOSTASIS

ENDOCANNABINOIDS

ANANDAMIDE (AEA)

2-ARACHIDONOYLGYLER OL (2-AG)





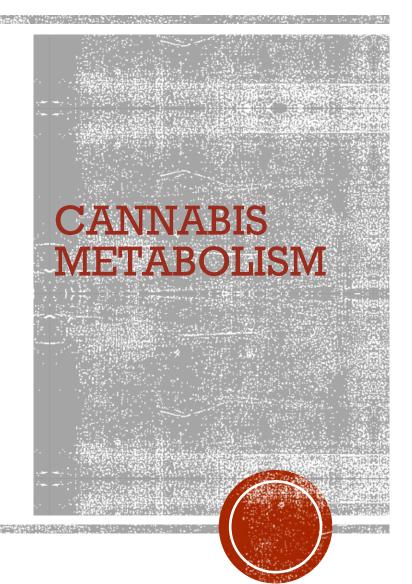
ENDOCANNABINOID RECEPTORS



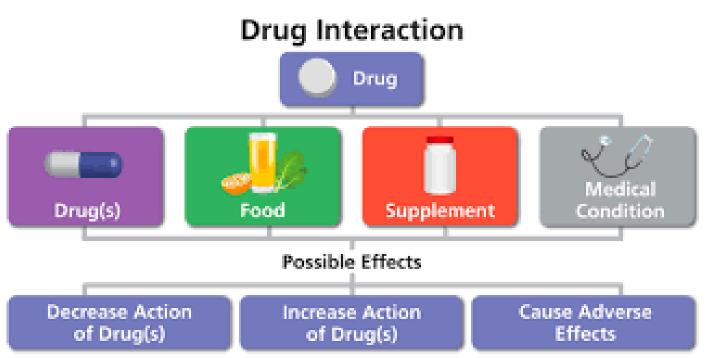
psychoactive

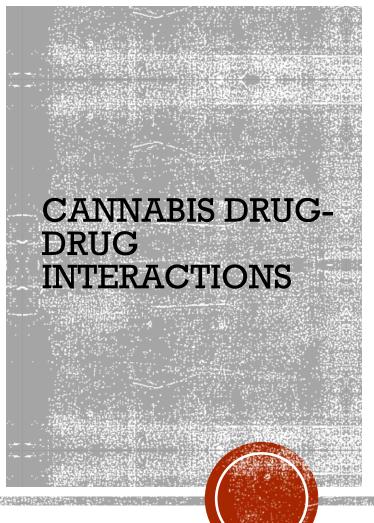


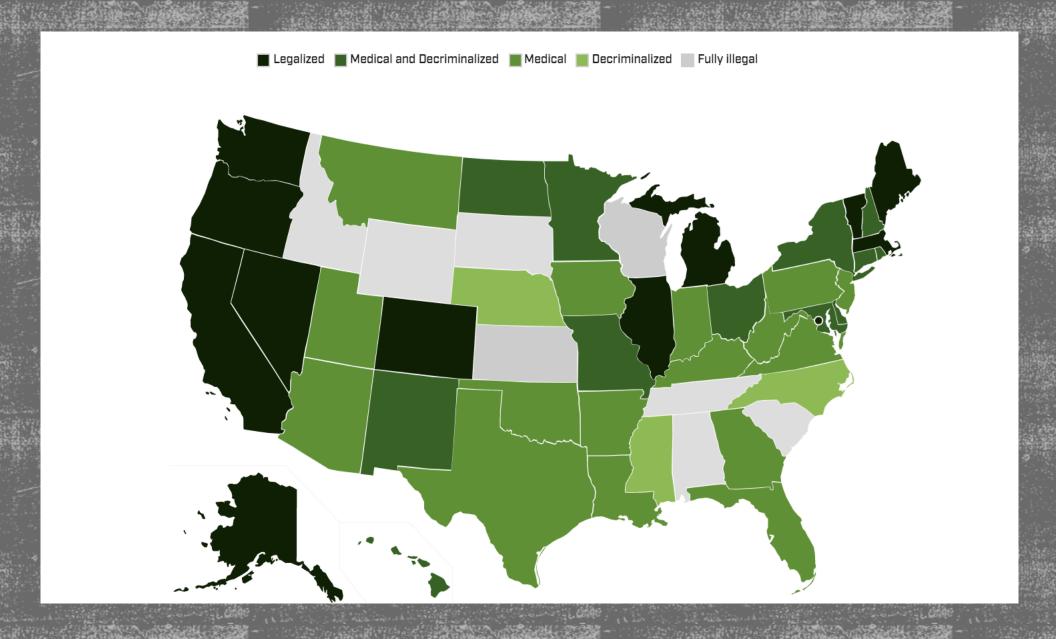
sapiensoup.com











2020 CANNABIS LEGALIZATION STATUS



CANNABIS REGULATORY CHALLENGES

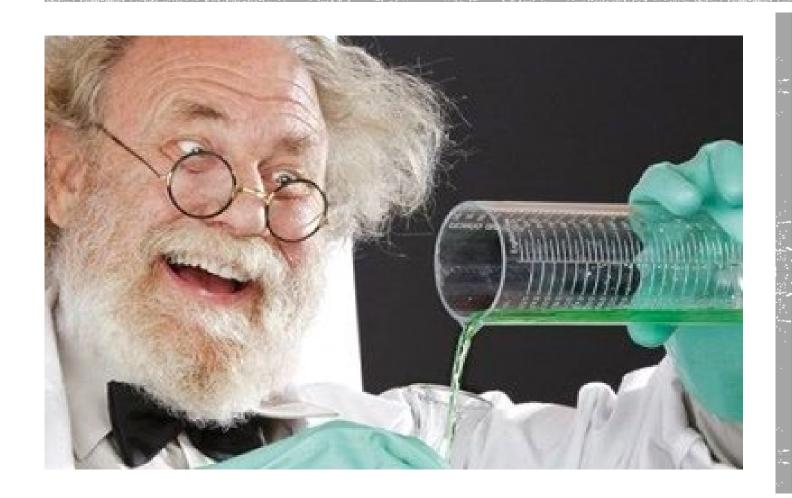






REGULATORY CHALLENGE #1





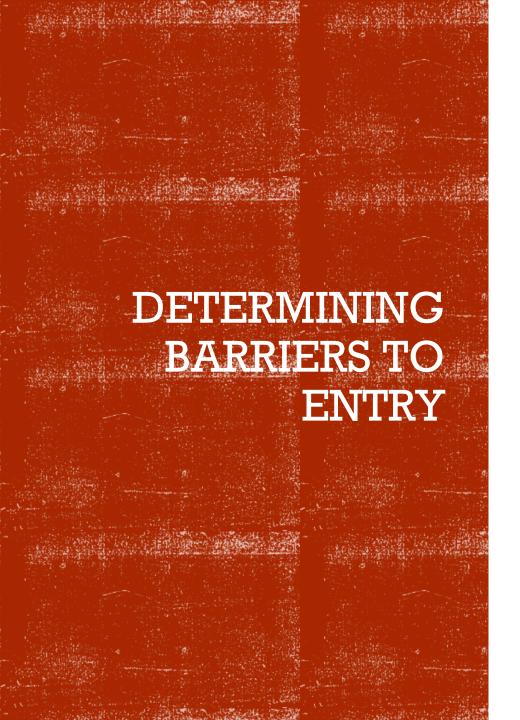
THE MAD CANNABIS SCIENTIST











Balance potentials for supply issues with providing adequate access

OREGON:

PRODUCTION: 970 - 2,008 lbs.

CONSUMPTION: 185 – 373 lbs.

ANNUAL SURPLUS: 785 – 1625 lbs.

Law enforcement estimates \$48 million was diverted from Oregon's legal cannabis industry to the black market between 2015 – 2018.

Source: Oregon Secretary of State Audit Report 2019



DEVELOPING PROGRAM RULES

Balancing adequate protections for health & safety without over complicating the regulatory requirements

California Consumers pay 77% more for the same product from a legal vendor

Illicit operators: \$8.7 billion | State-licensed operators: \$3.1 billion

Complicated regulatory hurdles and lack of educational guidance for industry are primary barriers



LICENSING

Expensive licensing fees and complex regulations are primary barriers

California annual licensing fees \$2,000 - \$75,000 per license

9 individual licenses are required to get products on the shelves

MO Applications: \$3million



HIGH TAX RATES DRIVE CONSUMERS TO THE BLACK MARKET

California 2018

- Consumers are paying as much as 45% in aggregate tax
- After legalization, \$500 million less spent on legal cannabis
- \$84 million in cannabis tax revenues collected \$101 million below projections



TAXES



OTHER CONTRIBUTING FACTORS

Lack of Enforcement

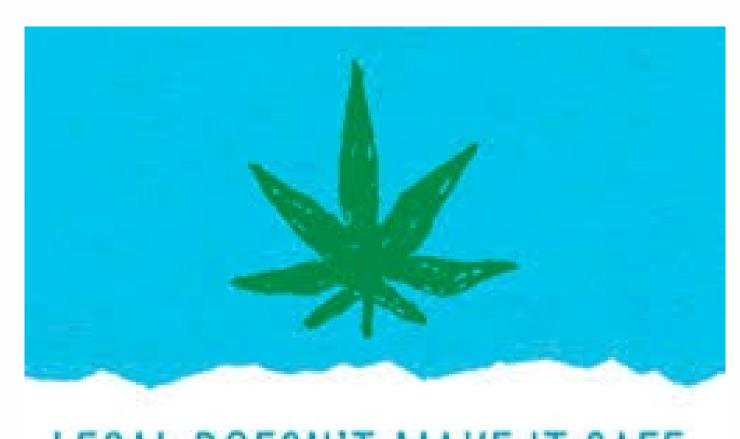
Inadequate Training – Labs/Operators/Inspectors

Not Understanding the Cannabis Plant's Lifecycle – Inspectors/Regulators

Insufficient Resources - Programs, Physicians, Educators, Industry

Communication Strategies – Regulatory, Industry, Interagency, Legislature





LEGAL DOESN'T MAKE IT SAFE.

RIGHTS OF CONSUMER

- · Right to Safety
- Right to Information
- · Right to Choice
- · Right to be Heard
- · Right to Seek Redressal
- · Right to Consumer Education
- Right to Basic Needs
- · Right to Healthy Environment





CANNABIS
PATIENTS &
CONSUMERS
ARE BEING
DENIED
BASIC RIGHTS





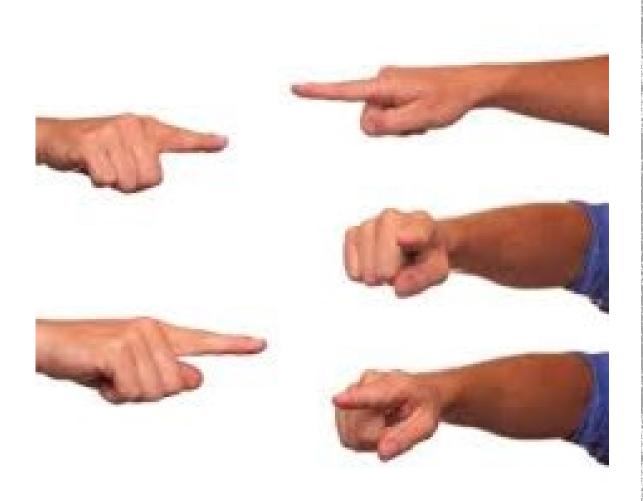
THE PATH FORWARD





CANNABIS DEEMED ESSENTIAL





CONGRESS & THE FDA



INDUSTRY SHARES THE RESPONSIBILITY



COMMUNICATION. EDUCATION. RESEARCH. COLLABORATION.



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