

The Legal Cannabis Market

Overview and Growth Opportunities





Ron Shapira, CFA (917) 517-7999 rshapira@yaoo.com *Cultivating Relationships and Opportunities*

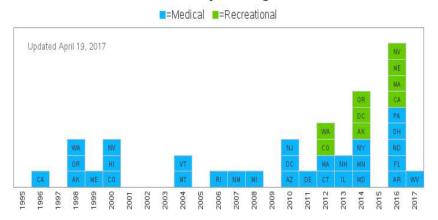
Sizable & Growing Market (States and Taxes)

- Legal in 33 States and D.C. (medical or recreational)
 - ☐ Pace of new state programs <u>accelerating</u>
 - ☐ Access for ~2/3 of US population across medical and recreational
 - ☐ Including Adult Use/Recreational in 11 states and DC
 - □AK, CA, CO, D.C., IL, MA, ME, MI, NV, OR, VT, WA (28% of Residents in US)
 - ☐ AZ, NJ, NY: potential for 2020 recreational markets
 - ☐ Addition of AZ, NJ, NY: Over 128 Million in Adult Use States
- > ~2 Million medical cannabis patients across the U.S.
- New source of critically needed state tax revenues





Timeline of State Marijuana Legalization Laws



Sources: US Census, Governing.com, Civilized Life

2

US Market Size in Perspective (Population)

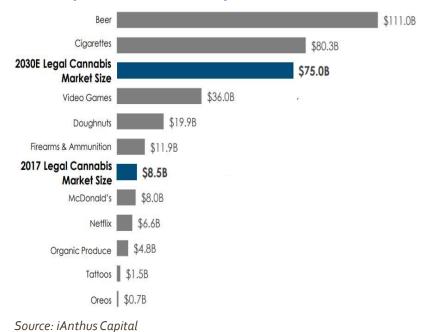


Sources: US Census (7/17 population figures), StatsCanada (YE17), Governing.com

Sizable & Growing Market (Revenues)

- >Among fastest growing markets in modern history
- >~\$12 Billion in 2018E Sales -> \$32B+ in 2022E
 - Nielsen projects a \$41 Billion US market by 2025
 - Cowen Research projects a \$75B US market by 2030

US: Unparalleled Industry Growth



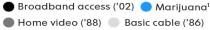
FAST-GROWTH POTENTIAL

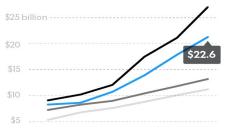
1 Annual projections starting in 2016

SOURCE Arcview

Jim Sergent, USA TODAY

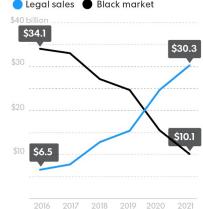
Annual spending after each industry reached \$5 billion in sales:





LEGAL SALES EXPECTED TO ECLIPSE BLACK MARKET FOR MARIJUANA





SOURCE GreenWave Advisors

Jim Sergent, USA TODAY

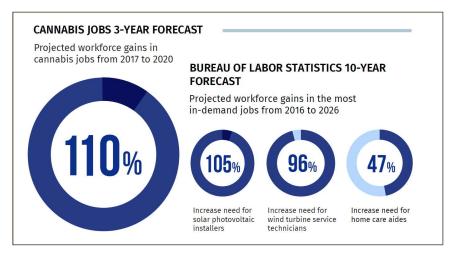


USA TODAY



Sizable & Growing Market (Economic Development)

- ➤ Significant creation of businesses and jobs in short period of time
- > Over 25,000 businesses in the U.S.
- **>~150,000 jobs** created → ~300,000 by 2021E (2018 Marijuana Fact book)
- Newest figures: 211,000+ jobs up 64,000 in 2018! (Leafly Special Report: Cannabis Job Count, 3/2019)



Estimated Cannabis Businesses (2018E)			
	Low Est	High Est	
Dispensaries	3,500	4,500	
Wholesale Cultivators	4,500	5,500	
Infused Product Manufacturers	2,000	3,000	
Testing Labs	100	200	
Ancillary (eg, technology)	15,000	20,000	
Total 2018E - # of Businesses	25,100	33,200	
Source: Marijuana Factbook 2018			

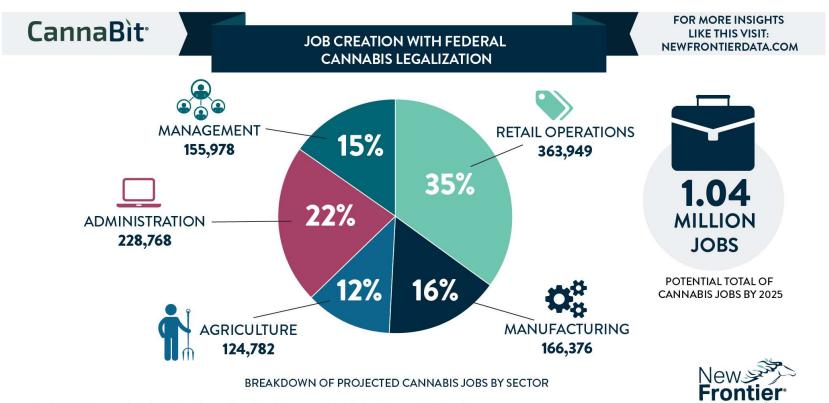
Cannabis Industry Direct and Total Employment

450,000
400,000
350,000
300,000
250,000
250,000
171,874
155,736
198,854
2019
2020
2021

Source: Cannabis Intelligence Briefing

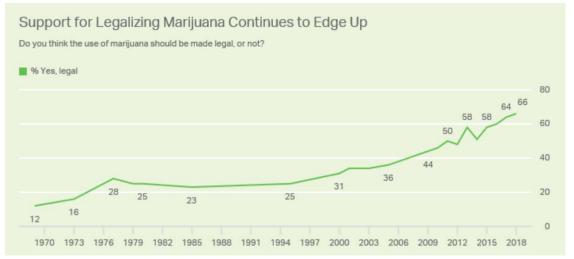
Sizable & Growing Market (L/T Job Creation Opportunity)

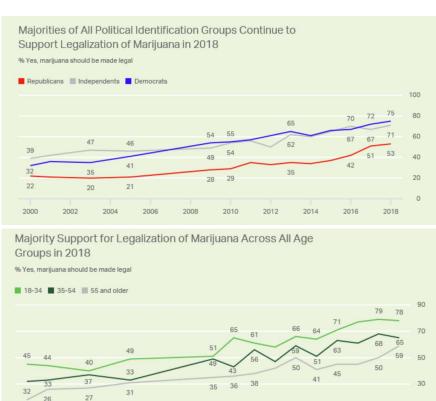
- > The longer term opportunity
 - ☐ Federalization could lead to over 1 Million jobs by 2025E



Drivers of Growth: Public Support (Gallup)

- ➤ Growing support for legalization
 - □New high of 66% (Oct 2018 Gallup poll)
 - □Bi-partisan: majority of Republicans since last year
 - □Across age groups: including 59% of those 55 and older
 - □Across the US: regardless of region, support at 65% or more





"Two-thirds of Americans now support legalizing marijuana, the highest percentage ever in Gallup's ongoing decadeslong [49 years] series of national polls on the topic...When Gallup first polled Americans on legal marijuana in 1969, just 12% said they were in favor. As recently as 2005, barely a third of Americans were on board." (Forbes, 10/22/18)

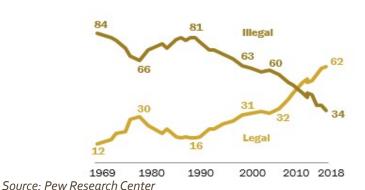
Source: Gallup

Drivers of Growth: Public Support (Pew Research Center)

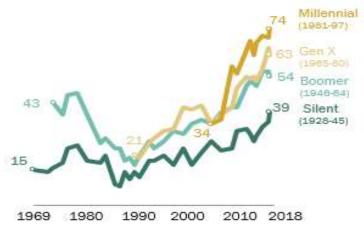
- ➤ Additional validation through Pew Research
 - □New high of 62% (Oct 2018) -- up from 41% in 2010 and 31% in 2000
 - ■Political party: 45% support among Republicans (up from 39% in 2015)
 - Independents leaning Republican strongly support legalization (59%)
 - Democrats nearly 7 in 10 support legalization (69%)
 - □Age groups: more defined categories indicates lessor support among 'silent generation' (39% but trending upwards)
 - Gen-X and Millennials very strong support (63% and 74% respectively)

U.S. public opinion on legalizing marijuana, 1969-2018

Do you think the use of marijuana should be made legal, or not? (%)

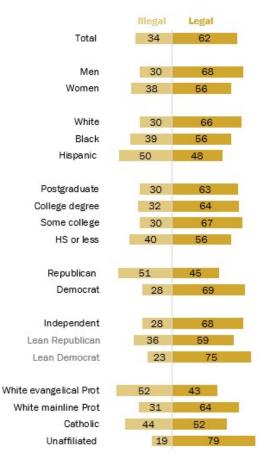


% who say marijuana should be made legal



Broad Support Across Multiple Demographic Profiles

% who say the use of marijuana should be ...

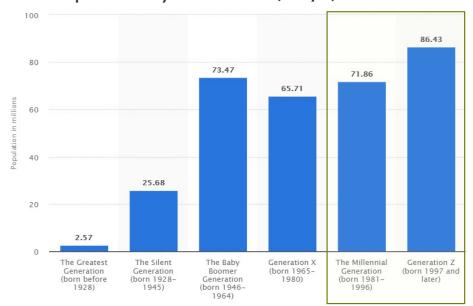


3

Drivers of Growth: Demographic Impact

- ➤ Significant repercussions to strong support among Millennials and Gen Z
 - ☐ Millennials set to surpass Baby Boomers in 2019
 - ☐ Gen Z also compromise over 86 Million people
 - Next wave of consumers
 - ☐ Combined population of nearly 160 Million

US Population by Generation (2017E)



"When it finally comes time for the federal government to dig the cannabis plant out of the pit of prohibition and allow it to be sold nationwide in a manner similar to alcohol, a new survey finds that it could be the voice of the millennial generation that pulls the movement over the hump."

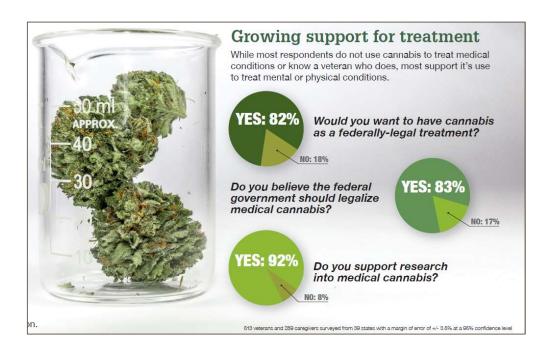
"The latest data from The Tylt, which is 'the largest and fastest growing social polling and opinion platform among millennials,' shows it is going to be next to impossible for Uncle Sam to ignore millennials on the issue of pot reform for much longer."

(Forbes.com, The Millennial Voice Could End Federal Marijuana Prohibition, 4/19/18)

Sources: Statia, Pew research Center

Drivers of Growth: Veterans and Physicians

- The American Legion (largest US veterans organization with ~2M members) is a key advocate for legalization and conducted a national survey (November 2017)
- ➤ Medscape Medical News (5/18 poll) points to increased comfort in medical community



	Should Cannabis Be		
	Legalized Nationally?		
	(% responding YES)		
	Medical	Recreational	
Physician	67%	53%	
Health Business			
/Administration	88%	72%	
Nurse	82%	57%	
Pharmacist	71%	54%	
Psychologist	82%	61%	

Should Cannabic Bo

Drivers of Growth: Interest from Traditional CPG Firms

- ➤ Scott Miracle Grow establishes unit to acquire cannabis related companies (e.g., fertilizer, hydroponics) over \$1 Billion in acquisitions since 2014
- Constellation Brands (owns Mondavi, Ruffino, Corona, Svedka) **invests \$4 Billion** in Canadian cannabis firm, Canopy Growth
- Coca-Cola exploring functional CBD (cannabidiol; non-psychoactive component of cannabis plant) beverages
- ➤ Molson Coors launches JV with cannabis firm Hexo for cannabis beverages
- ➤ Heineken-owned Lagunitas partners w/AbsolutExtracts to launch Hi-fi Hops
- ➤ Altria (owns Marlboro) invests ~\$2B in Cronos Group
- >Blue Moon founder to launch new cannabis infused beverage company, Ceria

















Drivers of Growth: Medical Benefits & Increased Academic/Industry Focus

- ➤ Numerous medical applications
 - ☐ Multiple Sclerosis / Epilepsy / Chronic Pain / Opioid substitution / Depression / Stress / PSTD
- >Pharmaceutical industry beginning to formally investigate opportunities
 - □FDA approved Epidiolex, a new cannabis-derived medication for 2 rare forms of epilepsy in 2018
 - ■Novartis subsidiary will partner with Canadian cannabis firm, Tilray on R&D and sales
- ➤ Increase in studies/trials and academic focus...examples:
 - □Columbia University: Substance Treatment and Research Service
 - □Philadelphia University: Lambert Center for the Study of Medicinal Cannabis & Hemp
 - ☐ UC San Diego: Center for Medical Cannabis Research
 - □Colorado State University: Institute of Cannabis Research

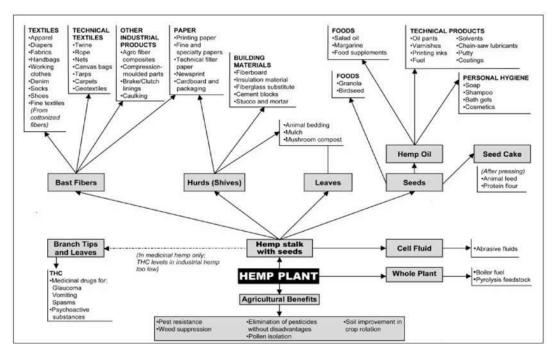


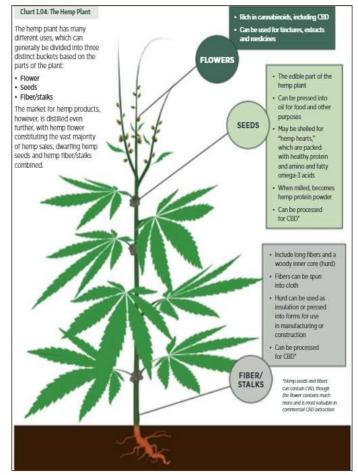


Drivers of Growth: Additional Opportunities through Hemp

➤ Significant growth projected for hemp

- ➤ CBD products (cannabidiol; non-psychoactive component of cannabis plant); thought to be useful as anti-inflammatory, anti-axiety, workout recovery (projected to generate over \$2B in sales by 2022 with some estimating multiples of that figure)
- >Industrial applications: multi-billion market opportunities as US industry comes back





Key Challenges

➤ Continues to be federally illegal

- ☐ Impediments to banking (deposits, loans, payroll, credit card processing, etc.) due to Federal illegality
- □ Limits institutional investments
- □Interstate commerce is illegal (must run individual state operations)
- ☐ Societal impact (criminalization has significant long term costs and repercussions)

≻Taxes

□ 280E tax challenge – significantly limits deductions for businesses engaging in the trafficking of Schedule I or II controlled substances

➤ Significant regulatory requirements

- □Costly process to apply/obtain licenses
- ☐ Seed to Sale tracking requirements

▶ Variation in state regulations

- ☐ Significant differences in regulations around licensing, distribution, sales
- ☐ Redundant personnel required

➤ Other: Real Estate / Security / Talent

(Note: States Rights Act which has bipartisan support would address most of these issues)



Thank You





Ron Shapira, CFA (917) 517-7999 rshapira@yaoo.com *Cultivating Relationships and Opportunities*