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## AN INVESTORS PERSPECTIVE ON LEGAL CANNABIS: TOO BIG TO IGNORE

Roy Bingham | BDSA

Jefferies Cannabis Summit June 2022

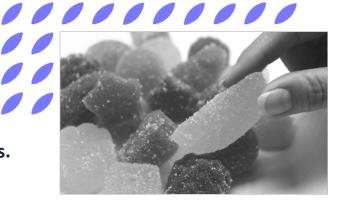


#### **LEGAL CANNABIS IS...**



Everyone

So.Many.Product.Forms.



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Mainstream

**Rapid Innovation** 





## HOWEVER, IT IS ALSO...





Different than "CPG"







# BDSA PROVIDES A COMPLETE VIEW OF THE GLOBAL CANNABIS MARKET OF TODAY AND TOMORROW

#### RETAIL SALES TRACKING

Know exactly what is selling where, when, and at what price point



#### **MARKET FORECASTS**

Gain a comprehensive understanding of market size and future opportunity



#### **CONSUMER INSIGHTS**

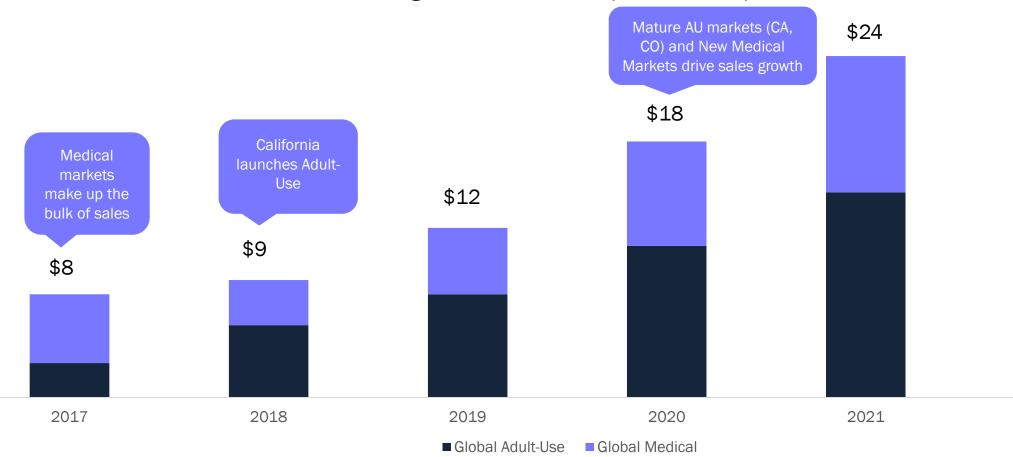
Understand consumer (and non-consumer) segments, sizing, behavior, consumption patterns, purchase habits, and more

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### HISTORICAL GROWTH OF LEGAL CANNABIS

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#### PAST GROWTH WAS DRIVEN INITIALLY BY US MEDICAL, THEN ADULT-USE MARKETS



BDSA Global Legal Cannabis Sales (USD, Billions)

Source: BDSA Forecast, Historical Global sales, updated February 2022

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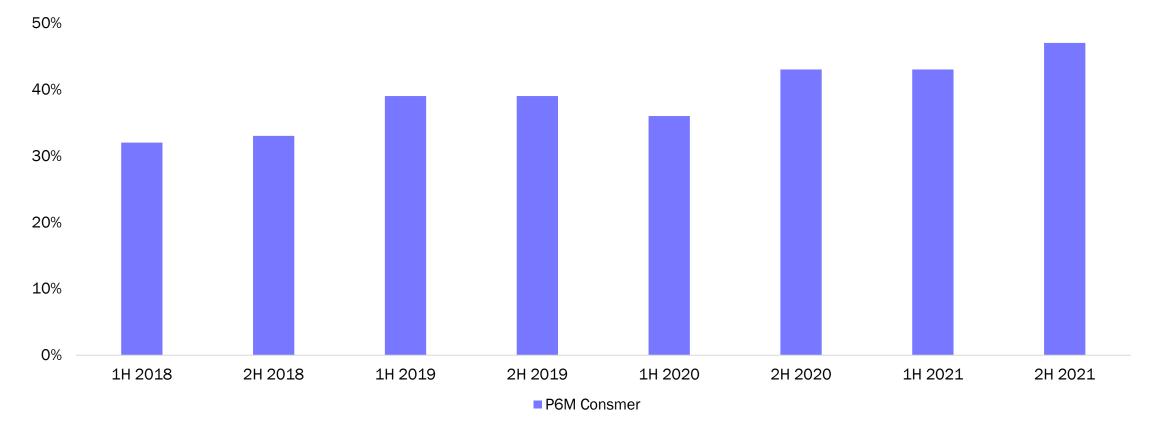
#### DESPITE SHARP DECLINES IN CANNABIS STOCKS, LEGAL MARKETS STILL HOLD HUGE Potential



Source: New Cannabis Ventures, Historical Global Cannabis Stock Index as of May 2022

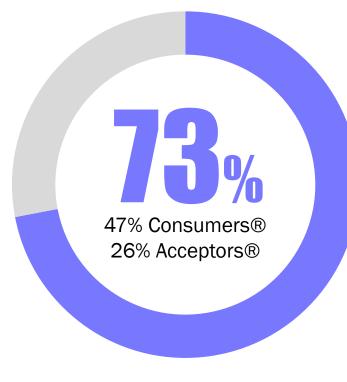
#### **CONSUMER PENETRATION HAS RISEN ~15% SINCE 2018**

**BDSA Consumer Insights Consumer Growth Trends** 



Source: BDSA Consumer Research: 1H 2018- 2H 2021 U.S. Adults 21+ in Legal Level 1 States

#### IN FULLY LEGAL STATES, ~75% OF ADULTS ARE "BOUGHT IN" TO CONSUMING



66% in CANADA

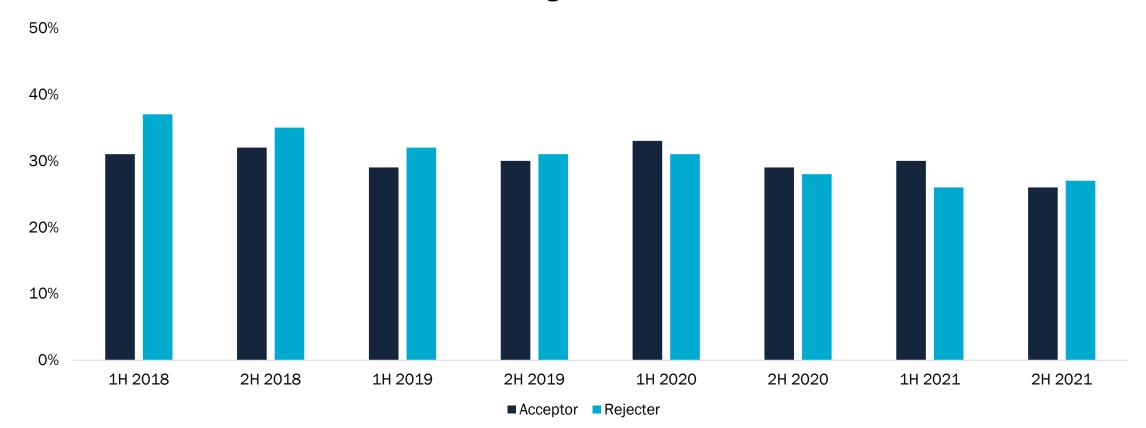
...of adults 21+ in fully legal U.S. states consumed cannabis in the past 6 months or are open to consuming cannabis

**27%** 

are **Rejecters**® (would not consider in the future)

Source: BDSA Consumer Research: Fall 2021 U.S. Adults 21+ in Legal Level 1 States

#### SHARE OF REJECTERS HAS STEADILY FALLEN, DOWN ~10% SINCE 2018



**BDSA Consumer Insights Consumer Trends** 

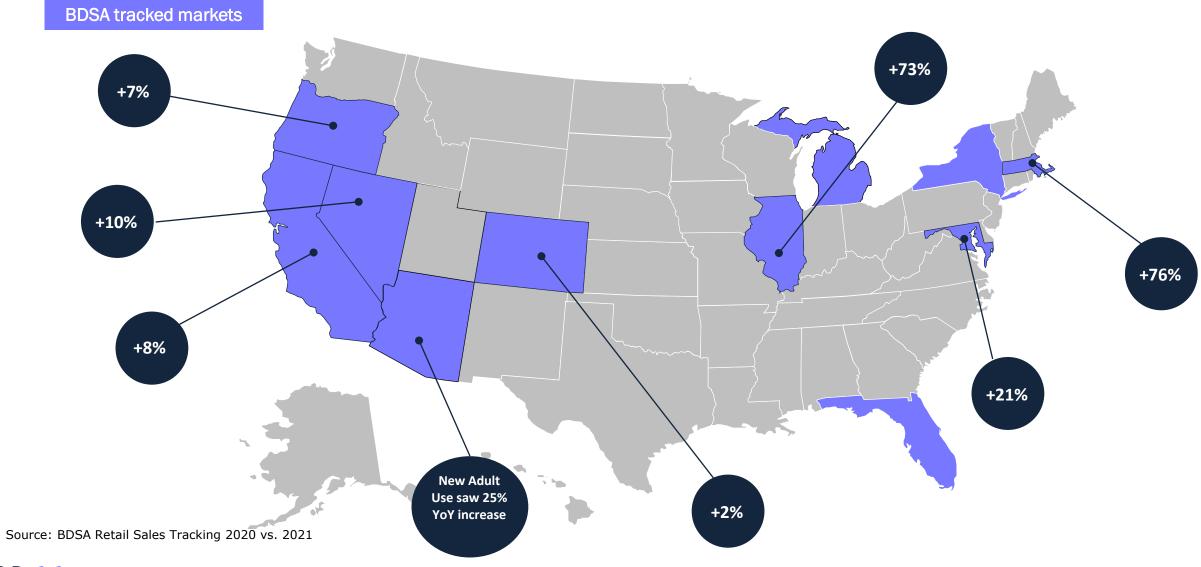
Source: BDSA Consumer Research: 1H 2018- 2H 2021 U.S. Adults 21+ in Legal Level 1 States

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## **CURRENT STATE OF THE INDUSTRY**

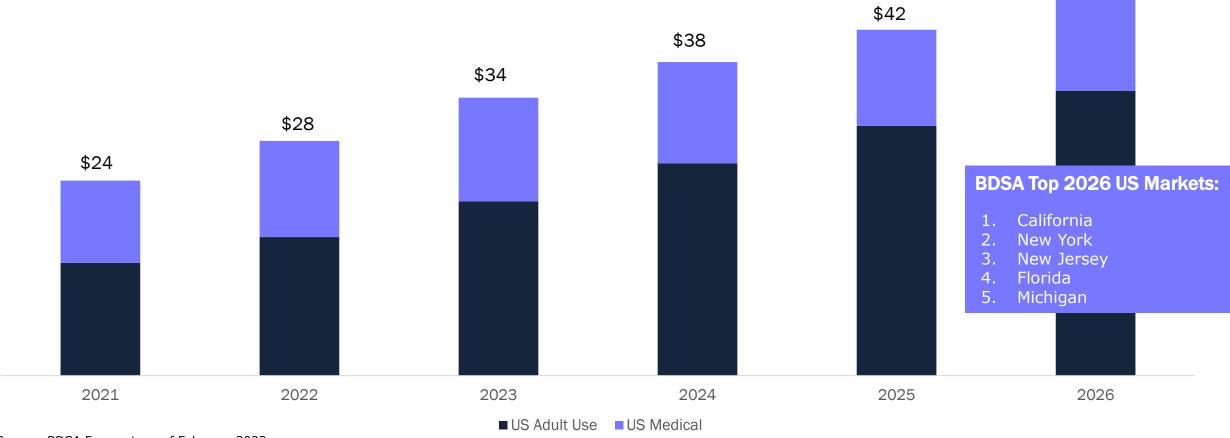
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#### **2021 SAW SUBSTANTIAL GROWTH**



#### GLOBAL MARKET (\$61B) DRIVEN BY US; US DRIVEN BY ADULT-USE

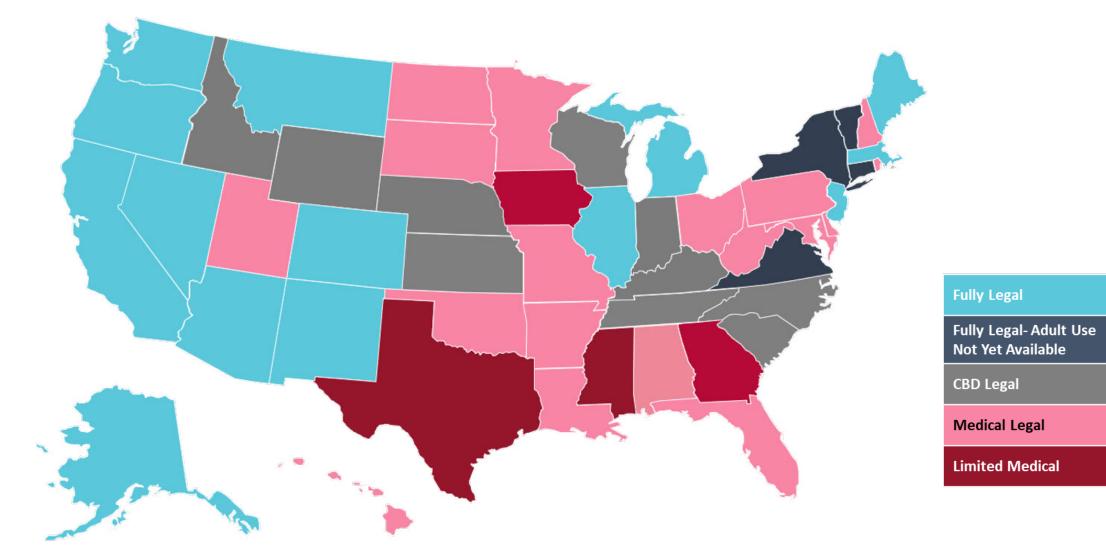
BDSA US Legal Cannabis Forecast (USD, Billions)



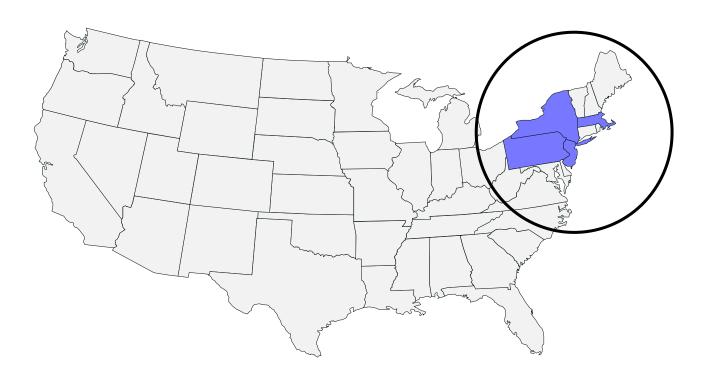
Source: BDSA Forecast, as of February 2022

\$46

#### **REGULATIONS LOOSENING ACROSS THE US** (SEGMENTS AS OF MAR 2022)



#### THE NORTHEAST IS SLATED TO PROVIDE HUGE REVENUE OPPORTUNITY



Four densely populated states in NE expected to be combined ~\$9B opportunity by 2026

Source: BDSA Forecast, as of February 2022, US Census Bureau 21+ Adult Population 2020

#### **TOP BDSA MARKETS BY 2026**

Market	Size	Spend / 21+ adult
California	\$6.55B	\$196
Florida	\$3.36B	\$189
New York	\$2.91B	\$192
Michigan	\$2.8B	\$380
Illinois	\$2.55B	\$270
Colorado	\$2.4B	\$485
Massachusetts	\$2.34B	\$430
New Jersey	\$2.25B	\$327
Pennsylvania	\$2.2B	\$222
Arizona	\$1.84B	\$311
Washington	\$1.8B	\$294
Ohio	\$1.37B	\$156
Oregon	\$1.36B	\$399

#### **TRI-STATE REGULATION & IMPLICATIONS**

- License prioritization will likely lead to more fragmentation early on
- Delays in all market launches
  expected
- Markets will struggle with supply during ~6-12 months of roll-out
- Expect higher prices like IL and MA
- Most brands will perform well early on and delays on who are the dominant market leaders
- Markets will require indoor cultivation so higher prices than outdoor-viable markets
- Tighter regulations on cultivators due to indoor cultivation



Consumer Sales Tax	9% state, 4% local	7%	~20% (6.35% state, 3% municipal, ~10 - 15% of sale / THC content)
License Prioritization	Minority / women-owned businesses, applicants from communities disproportionately impacted by cannabis enforcement, distressed farmers, service-disable Vets	Minority / women-owned businesses, businesses located in "economically distressed areas"	Reserve 50% of applications for eligible license types for "social equity applicants"
Cultivator License Caps	None - but individuals can't hold retail license or distribution license	37 (expires 02/23)	None - but applicants can only get approval for one license type

#### PENNSYLVANIA - MED TODAY, ADULT USE TOMORROW?

@2021 BDSA. Confidential.

If as predicted the state goes adult-use it would bring legal cannabis access to another 10M US adults

	+21 <b>9</b>	Q1 2022 Sales	\$290M	# bran w∕ Sal	ds <b>11</b>	5 # r	etailers elling	161	
	2022	% CHG vs. 2021	Purchase	Influencer	S	Тс	op reasons	for consum	ing
<b>Registered Patients</b>	406,454	26.8%	High THC Content	3	3%	Relie	eve Pain	20	0%
	Per Month	Per Trip	Taste/Flavor	3	3%	Manag	ge Anxiety	16	\$%
Patient Spend	\$117	\$100	Low Price	2	3%	Slee	p Better	8	%
April '21 - March '22		Format Trends Oct-Dec 2		2021			\$, % Change		
		All Accessori		\$M \$2.39	\$ Share 0.7%	\$M \$2.28	\$ Share 0.8%	Change -5%	
		Pills	105	\$5.5	1.7%	\$5.66	2%	3%	
		Tincture	S	\$6.77	2%	\$6	2%	11%	
		Dabbable Conc	entrates	\$43	14%	\$38.9	13%	-10%	
		Vape		\$109.2	35%	\$99.7	34%	<b>-9</b> %	
		Flower		\$142	46%	\$135.4	47%	-5%	
APT? NOT? In?? In??	22 ANEST GERL' OCTI	Mary Decy, Paury Learly Mary	Topicals		\$2.05	0.7%	\$1.78	0.6%	-13%
		· · · · · ·							

\*Source: BDSA Retail Sales Tracking - Pennsylvania (Medical), Jan-Mar 2022; BDSA Consumer Insights – Pennsylvania Fall 2021

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## HOW BIG OF AN OPPORTUNITY IS LEGAL CANNABIS?

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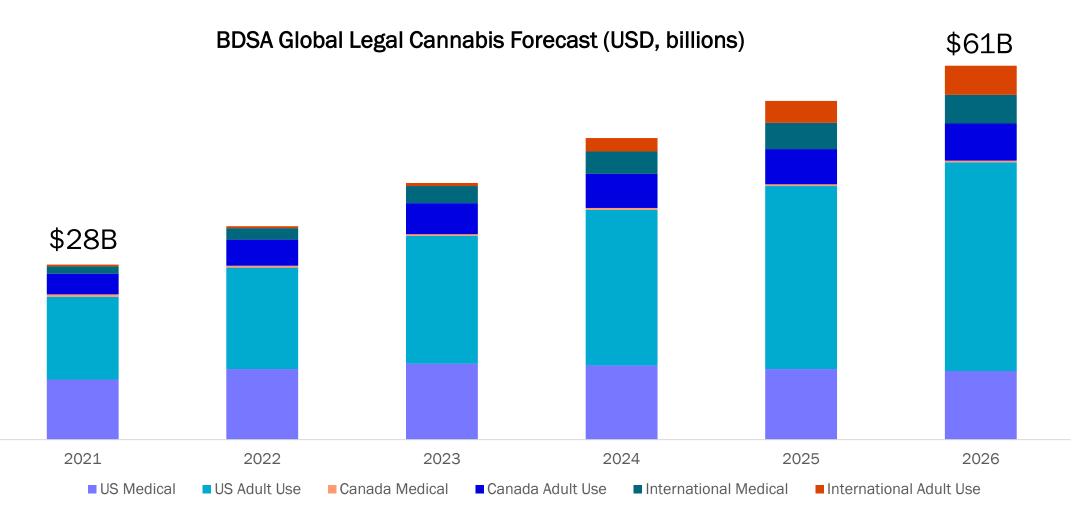
# IN THE US, 2021 GROWTH AND BDSA'S 2022 EXPECTATIONS COMING FROM MATURE, NEW, <u>AND</u> EMERGING MARKETS

MATURE cannabis markets were early movers in legal cannabis, had long established medical programs, and are still seeing strong growth

NEW Adult-Use and Medical markets that are more recent entries and have established industries and are developing at an ever-increasing rate EMERGING cannabis markets have recently legalized, and are expected to yield huge contributions to BDSA's forecasted market growth out to 2026

Colorado	Illinois	New York
California	Massachusetts	New Jersey
Oregon	Michigan	Connecticut
Washington	Pennsylvania	Ohio

#### NOT SURPRISINGLY, THE US REMAINS THE LARGEST GLOBAL LEGAL MARKET



Source: BDSA Forecast, as of February 2022

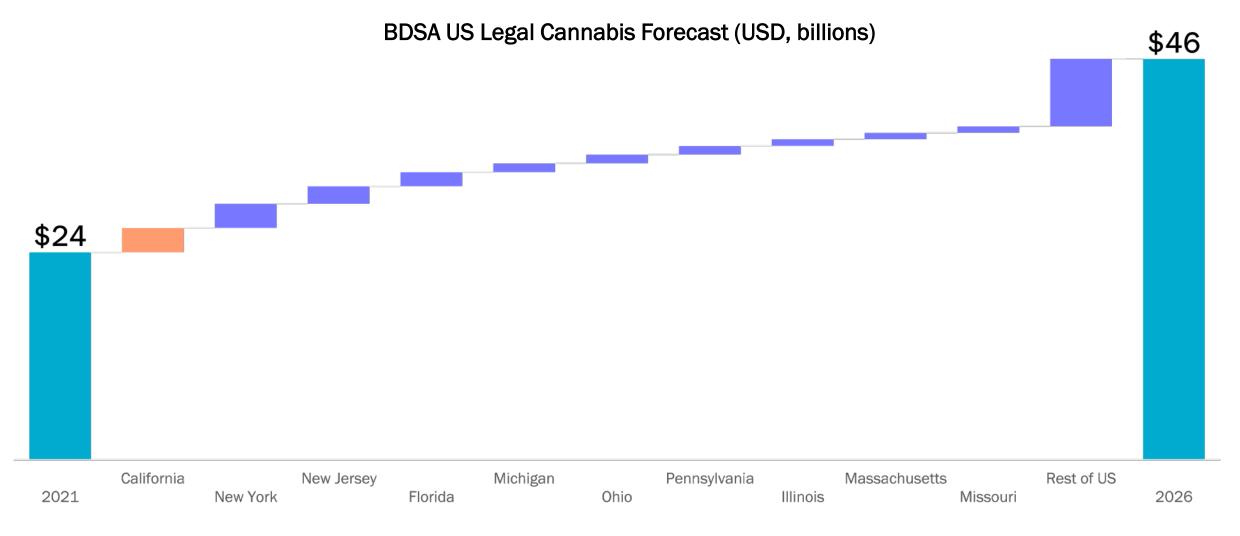
#### **TOP TEN CONTRIBUTORS TO GLOBAL GROWTH**

BDSA Legal Cannabis Forecast (USD, Billions)



Source: BDSA

#### CALIFORNIA CONTINUES TO DRIVE THE US MARKET BUT.....



Source: BDSA Forecast, as of February 2022

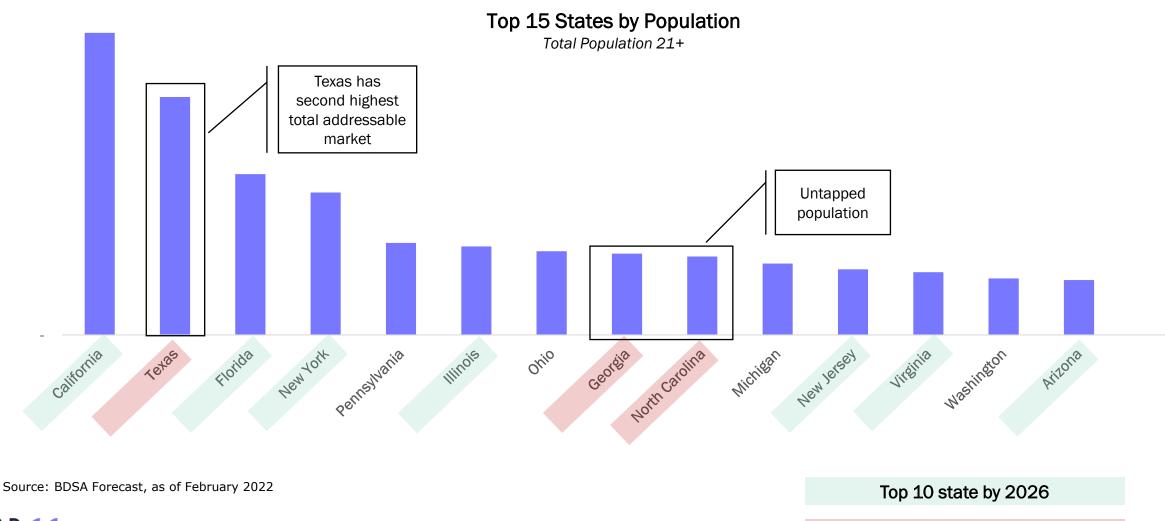
#### CONSUMER ADOPTION GREW IN 2021, AND CONSUMPTION IS ACROSS MORE Forms and more frequently

Inhalables Edibles Topicals 28% 34% 33% 32% 34% 36% 57% 57% 57% 2H 2020 2H 2021 2H 2020 2H 2021 2H 2020 2H 2021 Level 1 Level 2 CAN

**Preferred Consumption Form** 

Source: BDSA Trending Consumer Insights, 2H 2020 vs. 2H 2021

#### WHAT IF REGULATION WASN'T A FACTOR?



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## **KEYS TO CANNABIS INVESTMENT: CONSUMERS**

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#### **CONSUMERS RELY ON CANNABIS FOR PHYSICAL AND EMOTIONAL BENEFITS**

		Global Pain Relief Market: US\$ 72.4B in 2021	Relieve Pain Sleep Better	14% 10%
			Relax/Be Mellow	9%
		Global Sleep	Manage Anxiety	9%
111		Aid Market: US\$ 59.8M in	Manage Stress	6%
	zZ	2020	Get 'High' Or 'Stoned'	5%
	z		Improve Quality of Life	4%
			Have Fun	4%
			Feel Peaceful	4%

Source: BDSA Consumer Research: 2H 2021 U.S. Adults 21+ in Legal Level 1 States; Precedence Research 2022 Pain Management Therapeutics Market Size Report; Allied Market Research 2022 Sleep Aids Report

#### **CONSUMERS SEEK DIFFERENT BENEFITS BY FORM FACTOR**



#### **RELAX / BE MELLOW**

#1 reported benefit of consumption for Inhalable consumers



#### **RELIEVE PAIN**

#1 reported benefit of consumption for Topical consumers



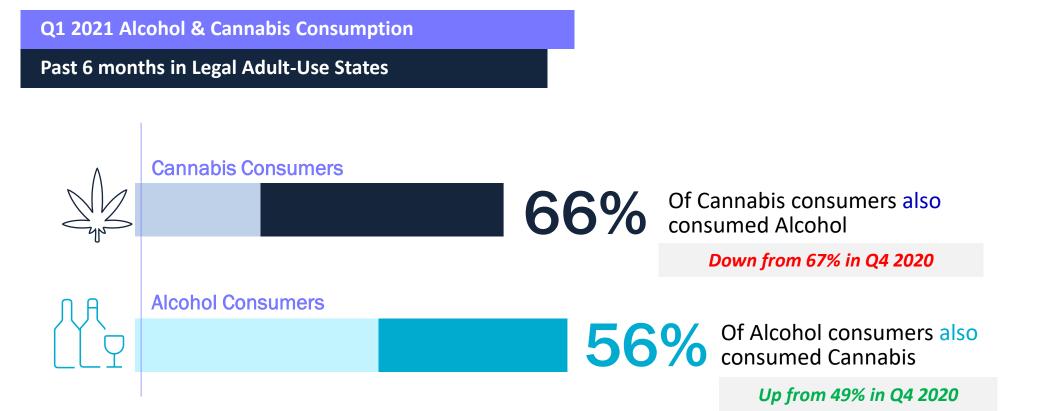
#### **SLEEP BETTER**

#1 reported benefit of consumption for Edible consumers

Source: BDSA Consumer Research: 2H 2021 U.S. Adults 21+ in Legal Level 1 States

#### THE LONG-TERM IMPACT IS INEVITABLE

Cannabis consumers are consuming less alcohol, while alcohol consumers are consuming more cannabis, both at the same time and separately



\*Source: BDSA Consumer Research: Q4 2021 U.S. Adults 21+ in Legal Level 1 States



# THERE IS NO ONE CANNABIS CONSUMER

#### **Cannabis Consumers Span:**

- Generations
- Gender
- Socio & Economic Backgrounds
- Motivations
- Need States
- Benefits
- Premium / Luxury / Economy



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## **CANNABIS ROUTE TO MARKET**

#### **OVERSIMPLIFICATION OF COMPLEX LICENSING; DIFFERENT BY STATE**



#### **FORCED VERTICAL INTEGRATION: TRULIEVE IN FLORIDA**





#### **MANUFACTURER + DISTRIBUTION: KIVA/KSS IN CALIFORNIA**



#### **DISTRIBUTOR ONLY: HERBL IN CALIFORNIA**



# BD/ SA/

## TOP CANNABIS TRENDS FOR INVESTORS: CONSOLIDATION AND MULTI-STATE BRANDS

#### HOW BIG IS THE INFLUENCE OF MULTI-STATE OPERATORS IN CANNABIS?

#### WHAT THEY ARE

• MSOs are cannabis companies that span across multiple legal cannabis states. The ones you hear about are powerhouses in brands and retail

#### HOW THEY ARE CHANGING THE CANNABIS LANDSCAPE

- They are large organizations established to expand geographical footprint of brands, products, and retail
- 6 of the top 10 leading cannabis brands tracked by BDSA are owned by MSOs. They are dominating top brands in new markets such as Illinois and Massachusetts and are gaining share in mature markets such as California.
- More and more they are becoming the first entrants into up-and-coming states, either through expansion or M&A



#### **VERTICAL/RETAILER DOMINANCE**

Store brands (unbranded) OR brands associated with a vertically-integrated retailer or MSO have dominance – especially in less-mature markets

Flower Brand Distribution by Market: Full Year 2021

Market	Size of Market (Indexed to CA)	Total # of Brands	% Sales Branded	% Sales Unbranded (Store Brand, Not Wholesaled)	OF BRANDED: # of Top 5 that are MSO/Vertical Brands
AZ	41	61	51%	49%	3
CA	100	536	75%	25%	1
IL	46	36	94%	6%	5
MD	18	34	90%	10%	4
MA	46	56	59%	41%	5
NV	31	108	61%	39%	2
OR	36	408	52%	48%	1

#### Total Flower Sales across AZ, CA, IL, MD, MA, NV, OR: \$4.5B

Source: BDSA US Retail Sales Tracking

BD// SA// Younger markets show denser brand concentration given MSO and Vertical presence, while Western (and more mature) markets are more fragmented

Massachusetts*	Pennsylvania*	Missouri	
Rythm	Cresco	Proper Cannabis	
Cultivate	Rythm	Illicit Gardens	
INSA	Grassroots Cannabis	Flora Farms	
Sira Naturals	Moxie Seeds and Extracts	Sinse	
Ozone Premium Cannabis	Double Bear	C4 Pharms	

	GTI	Cresco Labs	Terrapin
	Cresco Labs	GTI	Wana Edibles
MSOs	Ayr	Curaleaf	StateHouse Holdings
	Insa	Terrapin	Curaleaf
	MariMed	Moxie Seeds and Extracts	Timeless Vapes

\*Source: BDSA Retail Sales Tracking - Massachusetts (Adult-Use + Medical); Pennsylvania (Medical), Q1 2022

#### THE LARGEST FIRMS CONTINUE TO TIGHTEN THEIR GRIP

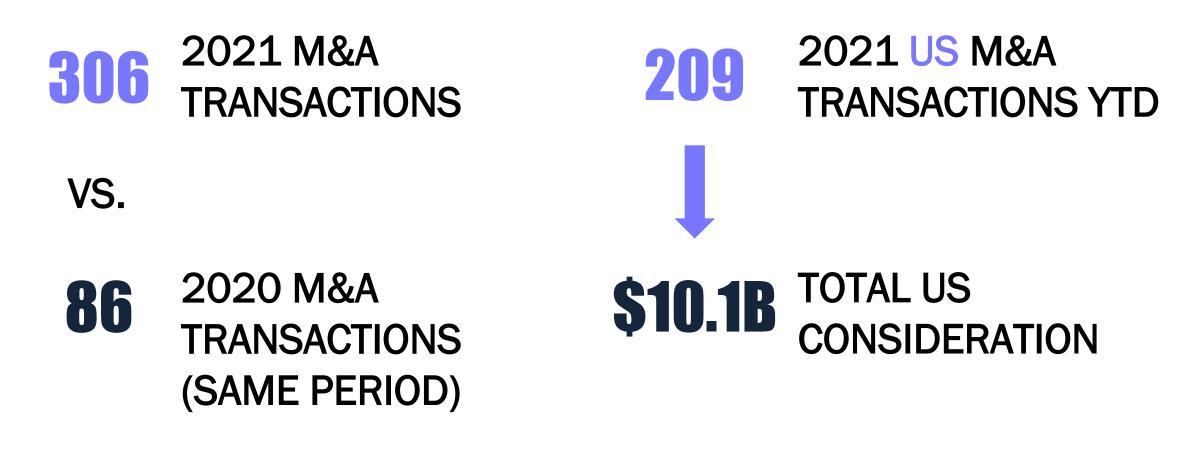
And with inter-industry M&A consolidation continuing at rapid pace, fewer in the future will control majority share of US

#### TOP 25 PARENT COMPANIES BY BDSA TRACKED RETAIL SALES (YTD 2022)



#### **MARKET TRAJECTORY SIGNALS THAT THE BIG WILL CONTINUE TO GET BIGGER**

Number & size of transactions continued to increase in 2021 - exceeding values in 2020 & 2019



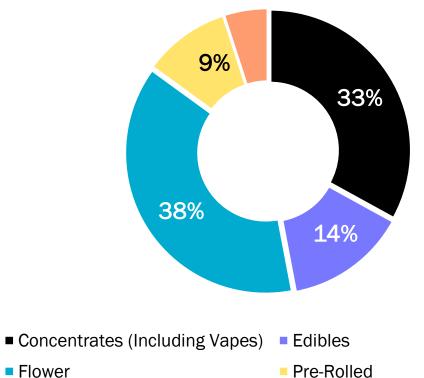
Source: Viridian Capital Advisers Deal Tracker – Jan-Dec, 2021

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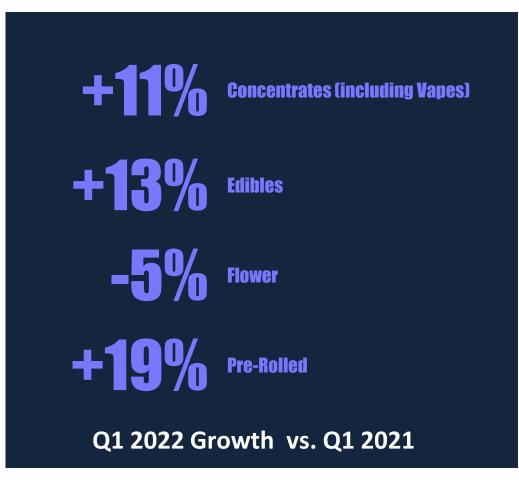
### INVESTING IN CANNABIS THE "RIGHT WAY": WINNING PRODUCTS AND BRANDS

#### **CATEGORIES: WHAT FORMATS ARE WINN GP**

#### **Dollar Share by Category Q1 2022**



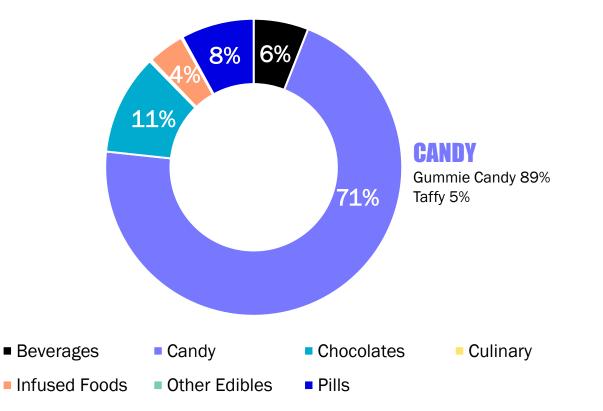
- Flower
- Other

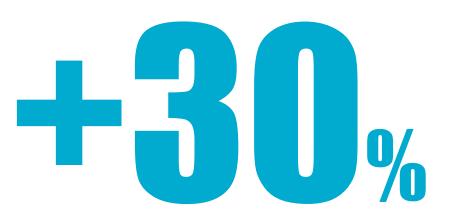


\*Source: BDSA Retail Sales Tracking; Growth reflected across AZ, CA, CO, FL, IL, MA, MD, MI, MO, NV, OR

### **US EDIBLES DOMINATED BY CANDY, DRIVEN BY GUMMIES**

**Dollar Sales Spend Edibles Category** 





2021 Total Edibles \$ Growth vs. 2020

Source: BDSA Sales Tracking, Full year 2021 Dollar Sales: AZ, CA, CO, OR, NV, MD, MA, Mi, MO, IL, FL, PA

#### **PRICE COMPARISONS BY MARKET**

BDSA expects new adult-use markets in NE to have higher prices relative to those observed in IL & MA

	Concentrates	Edibles	Flower	Pre-Rolled	Shake	Sublinguals	Topicals
California	\$31.71	\$17.08	\$6.95	\$16.90	\$2.71	\$40.94	\$28.60
Colorado	\$24.94	\$17.42	\$4.11	\$7.79	\$2.06	\$25.65	\$28.89
Illinois	\$49.07	\$23.59	\$12.24	\$22.91	\$8.50	\$33.08	\$39.47
Massachusetts	\$48.54	\$19.48	\$11.42	\$14.62	\$6.03	\$49.29	\$34.93
Michigan	\$26.97	\$10.61	\$6.10	\$10.58	\$5.30	\$32.56	\$20.80
Nevada	\$26.14	\$17.51	\$7.17	\$12.09	\$3.95	\$34.99	\$37.01
Oregon	\$22.01	\$8.70	\$4.68	\$8.11	\$1.95	\$35.50	\$34.19

shading denotes Highest / 2<sup>nd</sup> Highest Price per category

Source: BDSA Retail Sales Tracking – Average Retail Price – Q1 2022

## BDV SAV

#### WINNING BRAND TRENDS

#### Q1 2022 TOP SELLING (\$) BRANDS (AZ, CA, CO, IL, MA, MD, MI, MO, NV, OR, PA)

**1**RYTHM (Green Thumb) 2CRESCO CANNABIS (Cresco Labs) **3**STIIZY (Shryne Group) 4SELECT (Curaleaf) **5**WYLD

Source: BDSA RETAIL SALES TRACKING 2021-AZ, CA, CO, IL, MA, MD, MI, MO, NV, OR, PA

#### FOCUSING ON MOST POPULAR FORM FACTORS: A WINNING BRAND Strategy



Vape \$ 2020 vs. 2021





Source: BDSA 2020- 2021 Retail Sales Tracking

#### **#1 VAPE BRAND ACROSS BDSA TRACKED MARKETS 26% OF VAPE \$ Sales in CA for Q1 2022**

Next closest at 12%

#### **ANOTHER WINNING BRAND WITHIN A SMALLER SUBCATEGORY: 1906**

## **PILLS: 1906** +**39%**

Pills \$ 2020 vs. 2021





### *#1 PILL BRAND* 31% OF PILL \$ Sales in Q1 2022

Next closest at 10%

Source: BDSA 2020- 2021 Retail Sales Tracking

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# WHAT SHOULD WE EXPECT IN 2022?

### **BDSA FULL YEAR 2022 PREDICTIONS**

- Classification (indica, sativa, hybrid) will fade away as a designation of the consumer experience – cannabinoid content and terpene driven benefits are the way of the future
- 2. Brand recognition will grow, and dare we say, brand loyalty will emerge
- 3. More blatant quality cues will drive greater pricing differentiation
- 4. The race for **global cannabis dominance** is well on its way but traditional CPG will not lead the way
- 5. The FDA will continue to limit the potential of the mainstream CBD market (indefinitely?)
- 6. Vape will continue to survive (and thrive) despite reputational hits



#### WHAT ABOUT FEDERAL LEGALIZATION?



BDSA DOES NOT PREDICT FEDERAL LEGALIZATION BEFORE 2026, BUT AS ACCEPTANCE AND CONSUMPTION OF CANNABIS GROW, SMALLER REFORMS ARE MORE LIKELY

such

as...

- The SAFE Banking Act, or similar legislation
- Passage of decriminalization at the Federal level
  - Reforms regarding IRS Code 280E

Source: BDSA

#### CPG WILL BE SIDELINED IN US UNTIL FEDERAL REFORM, BUT ALC/BEV AND TOBACCO ARE FINDING A PLACE IN THE CBD SPACE

Strategic investments, joint ventures, and partnerships with beverage alcohol and tobacco subsidiaries by way of Canada are notable exceptions offering these firms a way into the US market through M&A post-federal reform



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### IT'S A NEW GAME.

### DATA. DEEPER.

<u> https://bdsa.com/contact/</u>

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