

# IT ISN'T MAGIC, IT'S DATA – SUCCESSFULLY EXPAND YOUR CANNABIS BUSINESS

Roy Bingham | Co-Founder BDSA

MJ Unpacked May 2022



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





Rapid Innovation

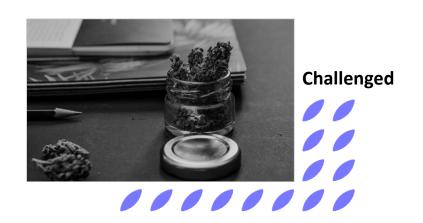




# **HOWEVER, IT IS ALSO...**











# 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

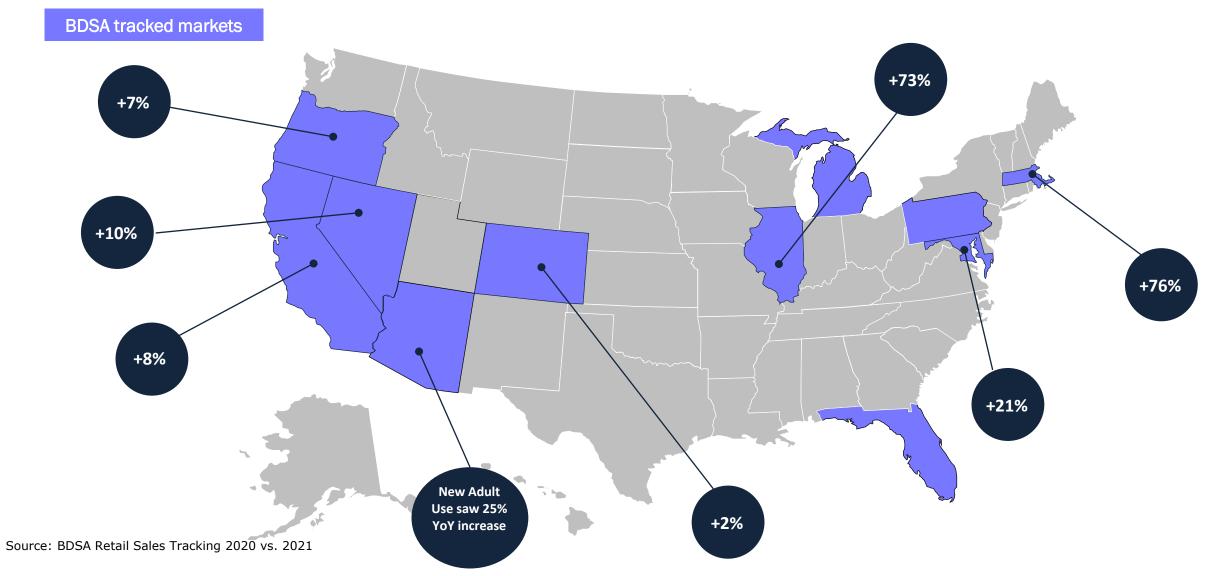




# STATE OF THE INDUSTRY

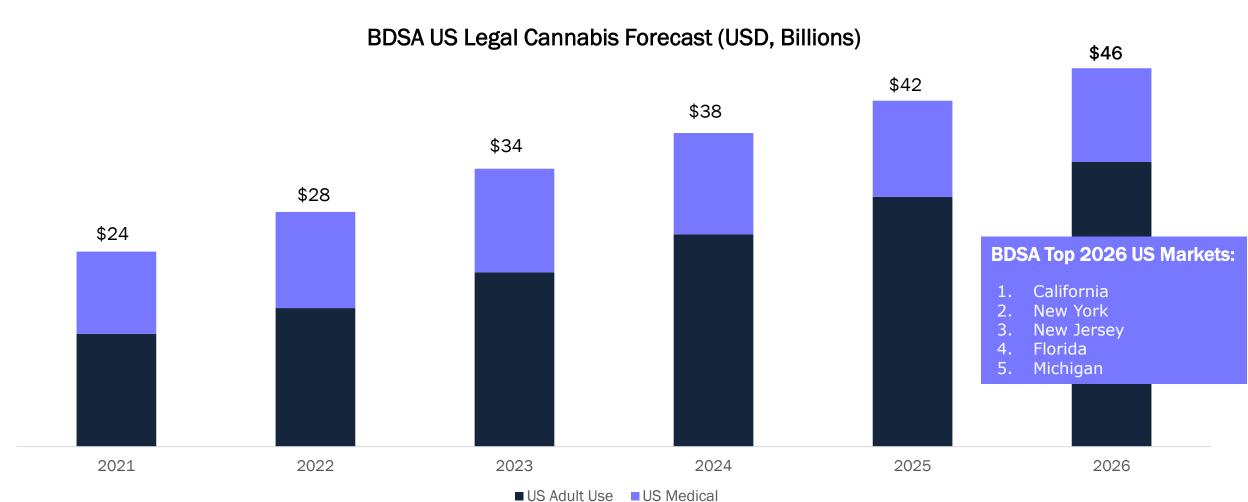


### **2021 SAW SUBSTANTIAL GROWTH**





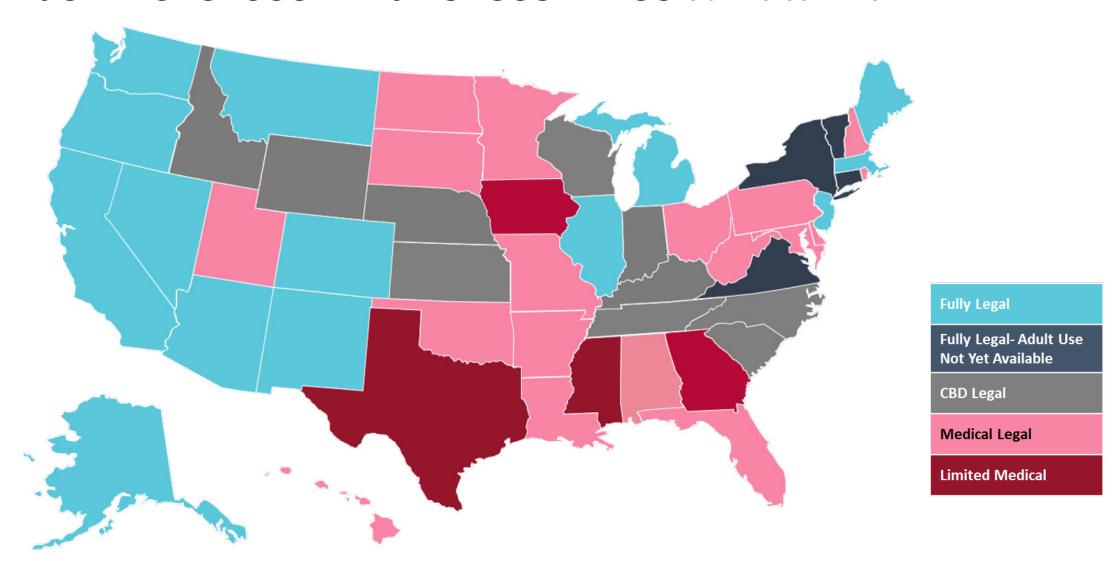
## GLOBAL MARKET (\$61B) DRIVEN BY US; US DRIVEN BY ADULT-USE



Source: BDSA Forecast, as of February 2022



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





## **NEW STATES LEGALIZE; US MARKET GROWS**

### **MEDICAL**

**ADULT-USE** 

2021

West Virginia

Arizona, Marianas

2022

Georgia, Mississippi, South Dakota, US Virgin Islands Connecticut, Guam, Montana, New Jersey, New Mexico, Rhode Island, Vermont

2023

Alabama, Kentucky, North Carolina, South Carolina, Wisconsin, Wyoming

Delaware, D.C., New York, North Dakota, Ohio

2024

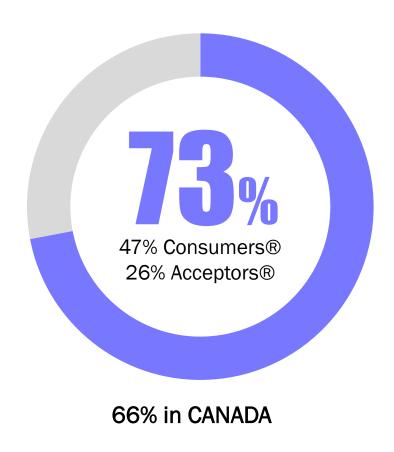
Idaho, Indiana, Kansas, Nebraska, Tennessee Florida, Maryland, Missouri, Pennsylvania, South Dakota, Virginia

Source: BDSA Forecast, as of February 2022

Note: Timeline refers to start of retail sales; as of BDSA market forecast released February 2022



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



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

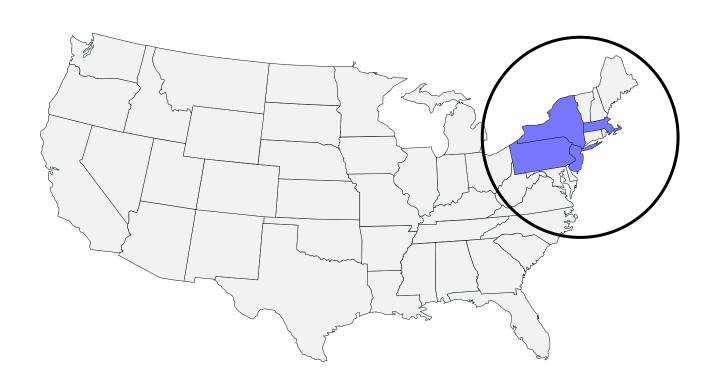
**27%** 

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

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



### 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

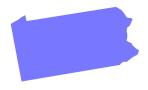
### **TOP BDSA MARKETS BY 2026**

Market	Size	Spend / 21+ adult
California	\$6.55B	\$196
Florida	\$3.36B	\$189
New York	\$2.91B	<b>\$192</b>
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



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

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



+21 **9.74M** 

Q1 2022 **\$290M** Sales

# brands w/ Sales

115

# retailers selling

161

	2022	% CHG vs. 2021
Registered Patients	406,454	26.8%
	Per Month	Per Trip
Patient Spend	\$117	\$100

Purchase Influencers			
High THC Content	33%		
Taste/Flavor	33%		
Low Price	23%		

Top reasons for consuming				
Relieve Pain	20%			
Manage Anxiety	16%			
Sleep Better	8%			

### Pennsylvania Medical Cannabis Monthly (\$) Sales, April '21 - March '22



	Past Three Months vs. Prior				
Format Trends	Oct-Dec 2021		Jan-Mar 2022		\$, %
	\$M	\$ Share	\$M	\$ Share	Change
All Accessories	\$2.39	0.7%	\$2.28	0.8%	-5%
Pills	\$5.5	1.7%	\$5.66	2%	3%
Tinctures	\$6.77	2%	\$6	2%	11%
Dabbable Concentrates	\$43	14%	\$38.9	13%	-10%
Vape	\$109.2	35%	\$99.7	34%	-9%
Flower	\$142	46%	\$135.4	47%	-5%
Topicals	\$2.05	0.7%	\$1.78	0.6%	-13%



# SIZING THE TOTAL ADDRESSABLE MARKET



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

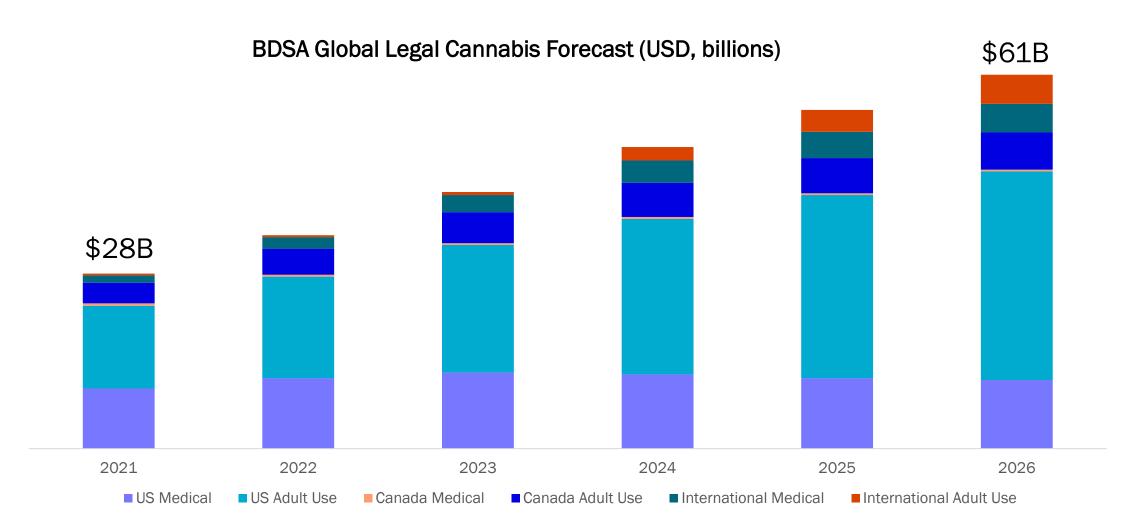
MATURE cannabis states such as California, Oregon, and Colorado continue to grow

NEW legal cannabis states such as Illinois, Massachusetts, Michigan and new medical markets are developing at an ever-increasing rate

EMERGING legal cannabis states, like New York, are expected to yield huge contributions to BDSA's forecasted market growth out to 2026



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

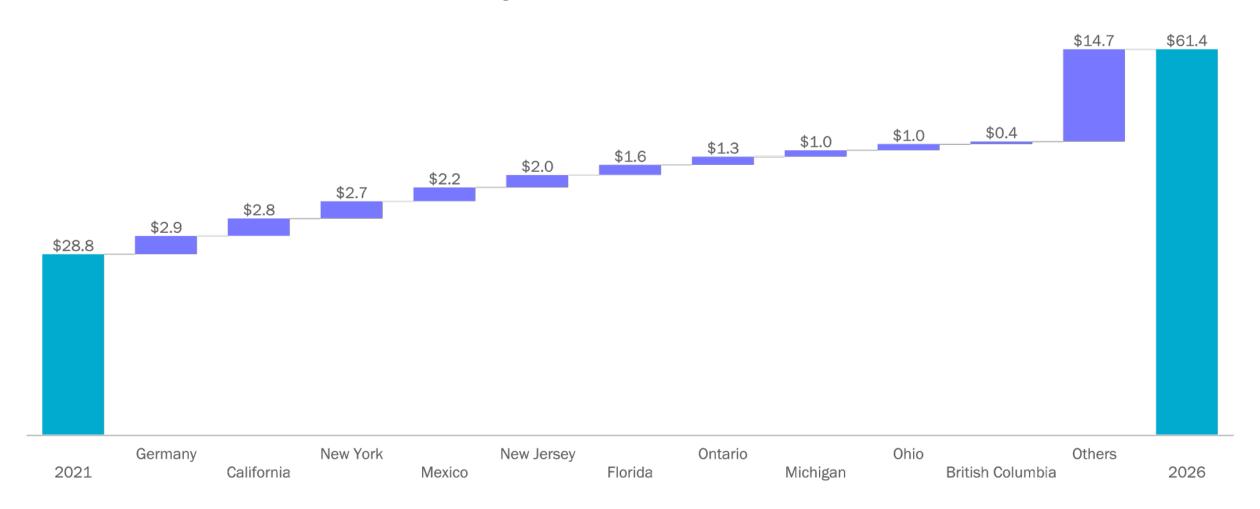


Source: BDSA Forecast, as of February 2022



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

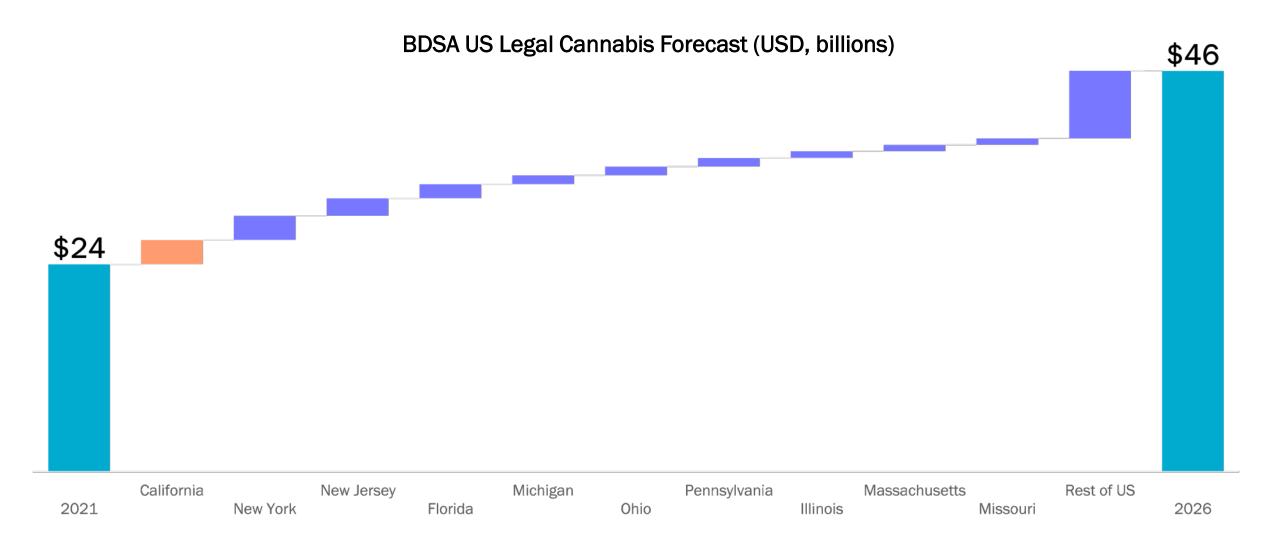
BDSA Legal Cannabis Forecast (USD, Billions)



Source: BDSA



### CALIFORNIA CONTINUES TO DRIVE THE US MARKET

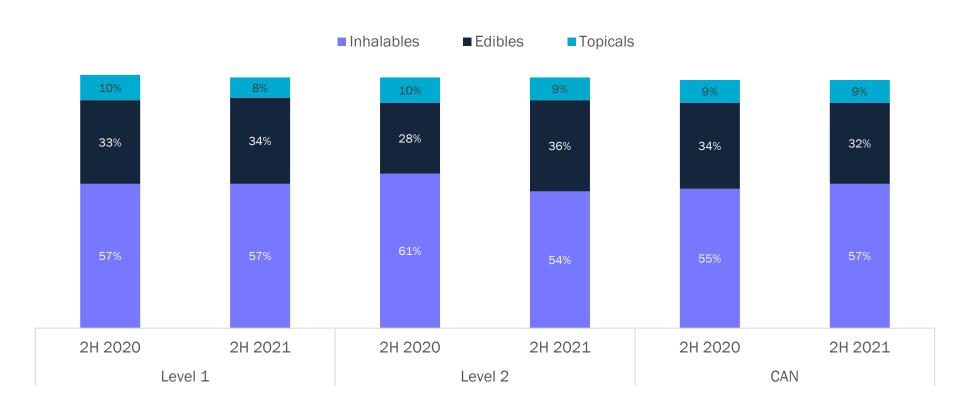


Source: BDSA Forecast, as of February 2022



# CONSUMER ADOPTION GREW IN 2021, AND CONSUMERS ARE CONSUMING ACROSS MORE FORMS AND MORE FREQUENTLY

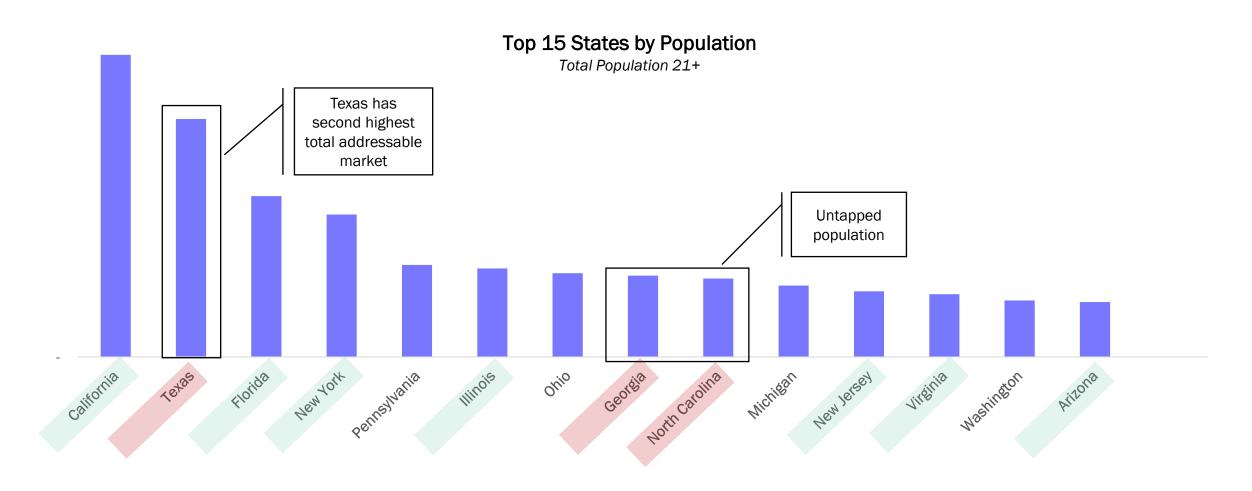
### **Preferred Consumption Form**



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



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

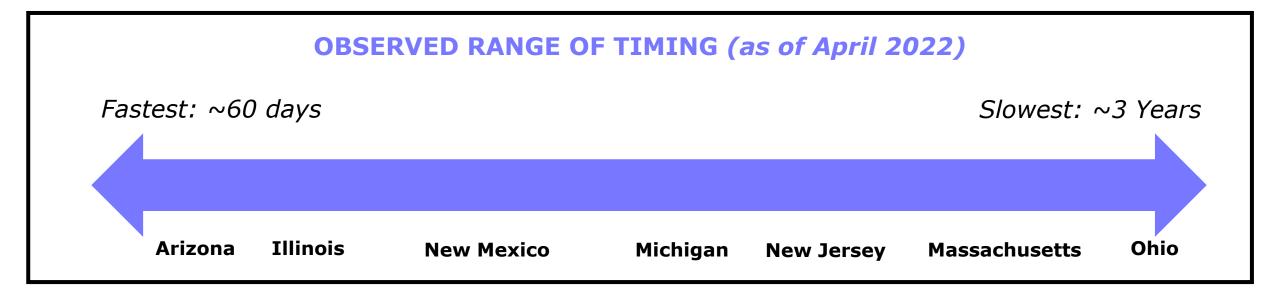




Source: BDSA Forecast, as of February 2022

Top 10 state by 2026

### **SPEED TO MARKET**



### What dictates timing?

- 1. Alignment of state government
- 2. Retail development
- 3. Production capacity vs. demand



Source: BDSA

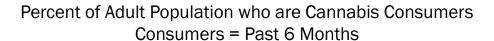


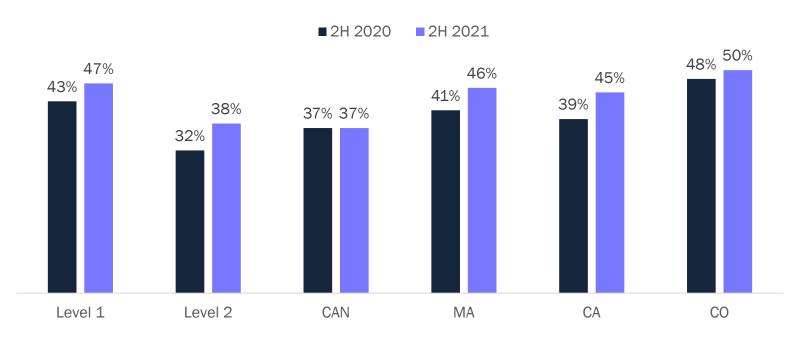
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### THE CONSUMER POPULATION, EVEN IN MATURE MARKETS, GREW IN 2021





#### IMPORTANT BDSA CONSUMER INSIGHTS TERMINOLOGY:

Consumer: Adult who has consumed cannabis in the past 6 months

Level 1: Aggregate of fully legal adult-use states
Level 2: Aggregate of medically legal states

Source: BDSA Trending Consumer Insights, 2H 2020-2H 2021



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



Relieve Pain	14%
Sleep Better	10%
Relax/Be Mellow	9%
Manage Anxiety	9%
Manage Stress	6%
Get 'High' Or 'Stoned'	5%
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



### **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



### WHAT DRIVES INHALABLES PURCHASING DECISIONS?









High THC Content (49%)

Taste or Flavor (39%)

Low Price (30%)

Source: BDSA Trending Consumer Insights, 2H 2021 in Fully Legal states



### WHAT DRIVES EDIBLES PURCHASING DECISIONS?



Among Dispensary Shoppers Preferring Edibles



#3

Taste or Flavor (39%)

Is a Brand I've Used Before (29%)

Low Price (27%)

Source: BDSA Trending Consumer Insights, 2H 2021 in Fully Legal states



# THERE IS NO **ONE CANNABIS CONSUMER**

### **Cannabis Consumers Span:**

- Generations
- Gender
- Socio & Economic Backgrounds

- Benefits









# HOW TO ENTER CANNABIS MARKETS THE "RIGHT" WAY: PRODUCT AND **PRICING**

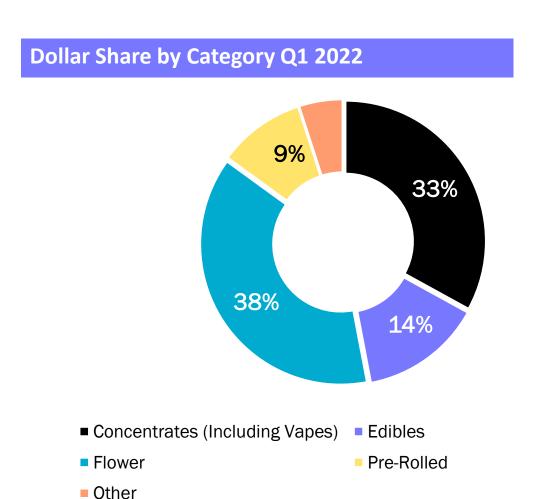
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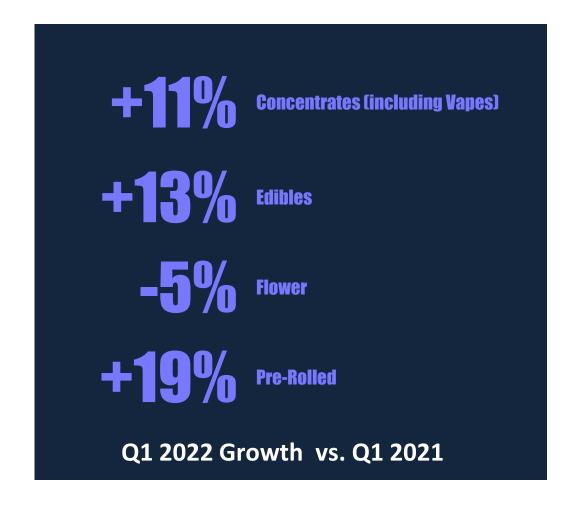
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### **CATEGORIES: WHAT FORMATS ARE WINNING?**



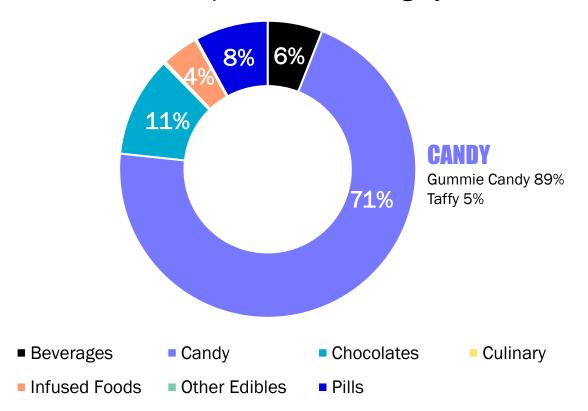


<sup>\*</sup>Source: BDSA Retail Sales Tracking; Growth reflected across AZ, CA, CO, FL, IL, MA, MD, MI, MO, NV, OR



### **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



# BD SA

# HOW TO ENTER CANNABIS MARKETS THE "RIGHT" WAY: COMPETITION

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### **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

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

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

Source: BDSA US Retail Sales Tracking



### 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)





### **BDSA TOP MSOS & BRANDS**

### **Brands**

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

### **MSOs**

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

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





# **CANNABIS ROUTE TO MARKET**



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





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



Cultivation Manufacturer Distribution Retail



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





Cultivation

Manufacturer

Distribution

Retail



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



Cultivation Manufacturer Distribution Retail



# BD / S A / S

# 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)

3stilizy (Shryne Group)

4SELECT (Curaleaf)

5<sub>WYLD</sub>

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

**Stillizy** 

**+96**%

Vape \$ 2020 vs. 2021





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

Next closest at 12%

Source: BDSA 2020- 2021 Retail Sales Tracking



# **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



# **BDSA QUICK HITS: SOLVENTLESS EDIBLES**

Some Examples...

710 Labs Hash Rosin Gummi



#### **LEVEL Hashtab**



Wana Spectrum



dialed in...gummies

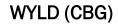




Source: BDSA US Retail Sales Tracking

# **BDSA QUICK HITS: MINOR CANNABINOIDS**

Some Examples...











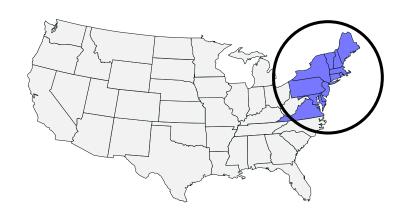


# WHAT IS IN STORE FOR 2022?



# **NEW LEGISLATION**

#### **New Jersey: Gateway to NE**



#### **TOP-15 BDSA MARKETS BY 2026**

New York Massachusetts New Jersey Pennsylvania Maryland

Additional +16% adult-use population with full Northeast seaboard

Source: BDSA Market Forecast, Updated February 2022



#### **New Jersey**



21+ Population: 6.8 million

Medical sales active: December 2012

Adult-Use Sales active: April 2022

2022 Total Legal Sales Forecast: \$800M

2026 Total Legal Sales Forecast: \$2.3B

## WHAT ABOUT FEDERAL LEGALIZATION?



BDSA DOES NOT PREDICT
FEDERAL LEGALIZATION BEFORE
2026, BUT AS ACCEPTANCE AND
CONSMPTION 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



# **BDSA FULL YEAR 2022 PREDICTIONS**

- 1. 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



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# **DO THE RULES OF CPG APPLY TO CANNABIS....YES & NO**

#### **PRICE MATTERS**

"PRICE" is consistently a top-3 claimed driver of product choice with ~30% saying that price influences their purchase decision. It falls just behind taste/flavor and high THC content.

Price alone does not indicate quality or premium. BUT there are drivers and product attributes that cannabis consumers WILL pay more for.

# **BUT NOT NATIONAL**

There are no national standards- the exact same product (same size, variety, THC content, etc.) can have dramatically different pricing by state/province

### **BRANDS MATTER...ISH**

Brand alone doesn't seem to matter at the surface, BUT a good experience, trusted recommendation, and brand familiarity does. These benefits tie back to brand.

Brand dominance does not yet exist and brand rankings shift constantly.





# IT'S A NEW GAME.

DATA. DEEPER.

https://bdsa.com/contact/

