



CRYOMASS

TECHNOLOGIES

Revolutionizing Refinement of Cannabis & High Value Crops

MAY 2024

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Refinement Done More Efficiently

- CryoMass Technologies Inc. develops and licenses cutting-edge equipment and processes to refine harvested cannabis, hemp, and other premium crops.
- The company's patented technology harnesses liquid nitrogen to reduce biomass and then efficiently isolate, collect and preserve delicate resin glands (trichomes) containing prized compounds like cannabinoids and terpenes.



Two-Skids CryoSift Separator™ Production Model

Maximizing Returns for Cultivators and Processors of Premium Botanicals

- Building on this technology, CryoMass has engineered its premier Trichome Separation unit (CryoSift Separator™), optimized via patented cryogenic processes to rapidly capture intact, high-value cannabis and hemp trichomes (CryoSift™).
- Much like sugar and flour refinements, the resulting CryoSift™ concentrate is a superior product compared to unprocessed biomass.
- For cultivators, reducing biomass into CryoSift™ slashes volume up to 80%, dramatically lowering storage, handling, and transportation costs. Properly stored, CryoSift™ prevents potency and terpene degradation, preserving value.
- For processors, the minimized input volume also enables considerable cost savings and logistics advantages. Extracting from CryoSift™ using solvents and manufacturing solventless products unlocks industrial scale yields unattainable otherwise.
- CryoMass anticipates its efficiencies will catalyze industry-wide shifts in cannabis and hemp post-harvest methods. Additionally, the technology shows promise for diverse trichome-rich plants.



Hemp & Marijuana Are The Same Plant: Cannabis sativa

All forms of cannabis, including marijuana and hemp, belong to a single species - cannabis sativa.

HEMP

A term often used in policy to describe any cannabis variety with less than 0.3% THC.

Traditionally bred for CBD, fiber and seed



MARIJUANA

A vernacular term typically used to describe cannabis with higher levels of THC (over 10%).

Traditionally bred for cannabinoids – most notably THC



1. FLOWER

Often called buds, cannabis flowers vary in appearance depending on their sex and genetic traits. The colours range widely with the most common being green, orange, red and purple. The female flower, having the highest concentration of trichomes, is the part of the plant that is consumed to experience the effects attributed to cannabis.

2. TRICHOMES

Cannabis trichomes contain, in varying quantities, several cannabinoid compounds, predominantly tetrahydrocannabinol (THC) and cannabidiol (CBD). Trichomes appear as tiny crystals all over the plant. They are bigger and denser on the flowers than on the leaves.

3. LEAF

The symbol of the cannabis and something of an icon, the leaf is easily recognizable by its fan shape, pronounced venation and serrated leaflets. Leaf colour can range from pale green to dark olive green.

TERPENES

Different strains of cannabis have different sets of terpenes, which are comparable to essential oils. It is mainly the terpenes that give cannabis plants their particular aromas and flavours.



Importance Of Trichomes

Glandular trichomes are small resin glands found mostly on the surface of female flowers. These chemical factories produce hundreds of compounds including cannabinoids and terpenes. Cannabinoids, including THC and CBD, are responsible for the medicinal and sometimes psychoactive effects of cannabis.

Terpenes (and terpenoids) are largely responsible for the characteristic smell of cannabis as well as contributing to the medicinal effects. Cannabinoids and terpenes are found almost exclusively within the glandular trichomes and nowhere else on the plant. Not only are these compounds very sensitive to environmental factors such as oxygen, heat and light, the trichomes housing these compounds are very delicate and will readily fracture or detach when subjected to physical agitation.



Traditional Harvesting & Processing Methods Incur Enormous Loss Of Trichomes

Conventional processing methods haven't changed much since the 1960s, when the industry operated illegally out of someone's backyard. **The methods waste a third or more of the plant's most desired elements – the trichomes.**

The trouble starts with the **fragility of trichomes**. They break off easily and are lost forever in the same way a Christmas tree loses its needles when handled and then are gone forever. With conventional handling and drying, every step shakes off more of them. **All in all, roughly one-third of the trichomes are lost.**

When the plant is handled and trucked to a drying facility, the loss of trichomes accelerates. Then – **midway through drying – the flower becomes extremely brittle and trichome loss becomes exponential**, like the needles of a Christmas tree being forced through the front door at the end of the holiday season.

By that point, the plant still needs to be handled and transported to the extraction facility. The biggest challenge in any plant processing is to capture all the valuable elements that are wrapped up inside the plant at the moment of harvest.

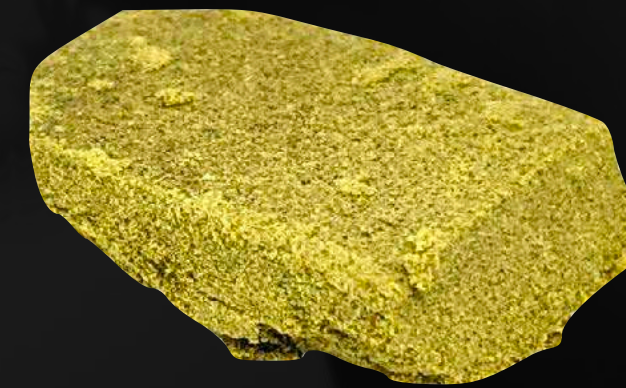
There really was no way to accomplish this...until now.



What Have Trichomes Been Traditionally Used For?

Hashish, also known as hash, is a cannabis concentrate product composed of compressed or purified preparations of stalked resin glands, called trichomes.

Hash has a long history of usage in countries such as Morocco, Afghanistan, India, Iran, Israel, and Lebanon. The sticky resins glands of the fresh flowering female cannabis plant are collected. Traditionally this was, and still is, done in remote locations by pressing or rubbing the flowering plant between two hands and then forming the sticky resins into a small ball of hashish called charas. This method produces the highest amount of cannabinoids (THC content up to 60%) without chemical solvents or distillation.



Mechanical separation methods use physical action to remove the trichomes from the dried plant material, such as sieving through a screen by hand or in motorized tumblers. This technique is known as "drysifting". The resulting powder, referred to as "kief" or "drysift", is compressed with the aid of heat into blocks of hashish.

Ice-water separation is another mechanical method of isolating trichomes.

How Were Trichomes Collected Before CryoMass ?

Traditional trichome separation methods are rudimentary at best.

The cannabis flower is typically placed in a mesh bag, soaked in ice water and then agitated to separate the trichomes.

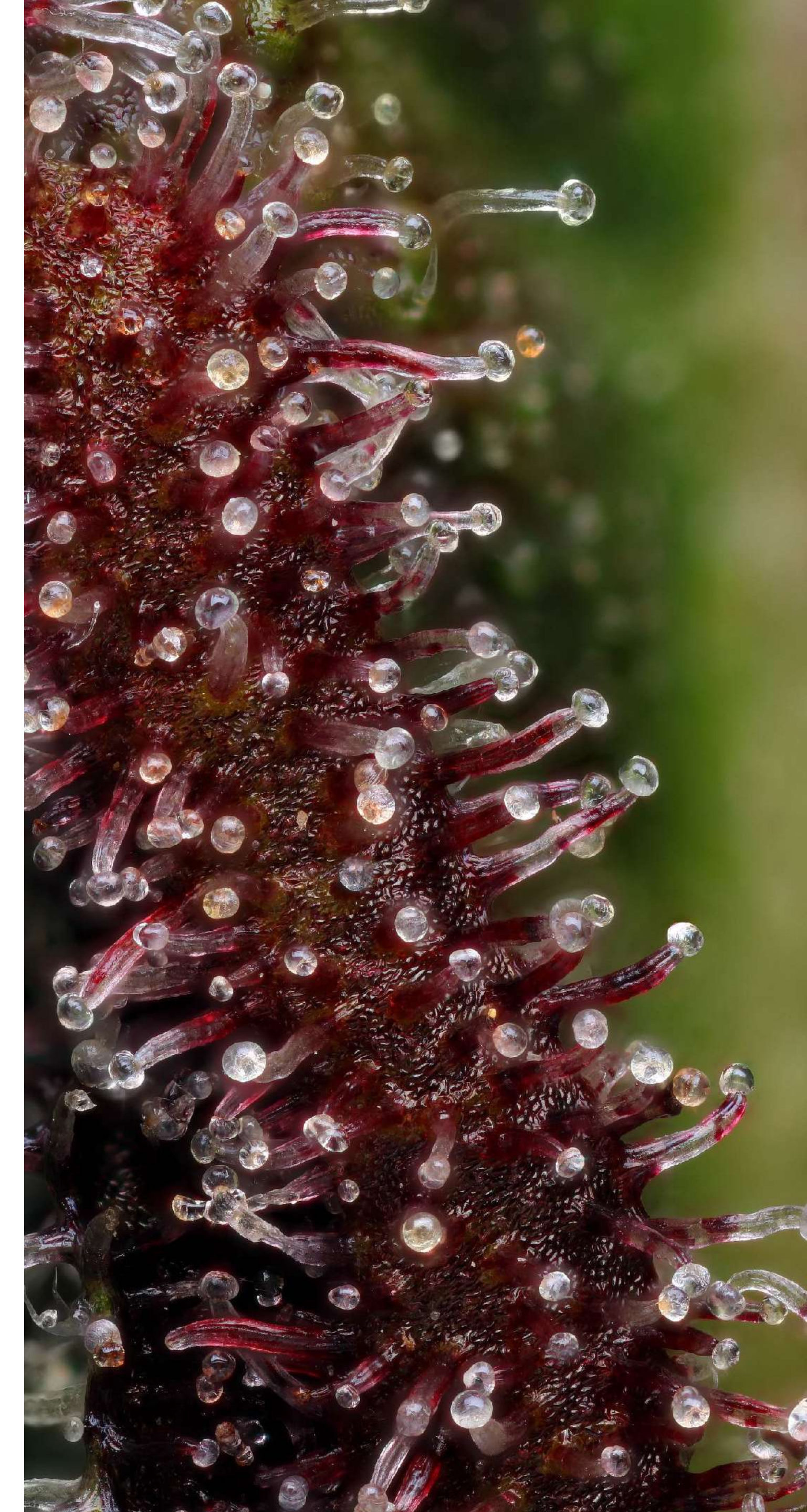
The careful agitation is done by machine or by hand, using paddles. Trichomes may break away from supporting flower and leaves when plant material becomes brittle at low temperatures. After plant material has been agitated in an icy slush, separated trichomes are often dense enough to sink to the bottom of the ice-water mixture following agitation, while lighter pieces of leaves, stems and other plant particles tend to float. The water is then left to settle and the trichomes at bottom of the tank are isolated using filtration bags with various-sized screens.



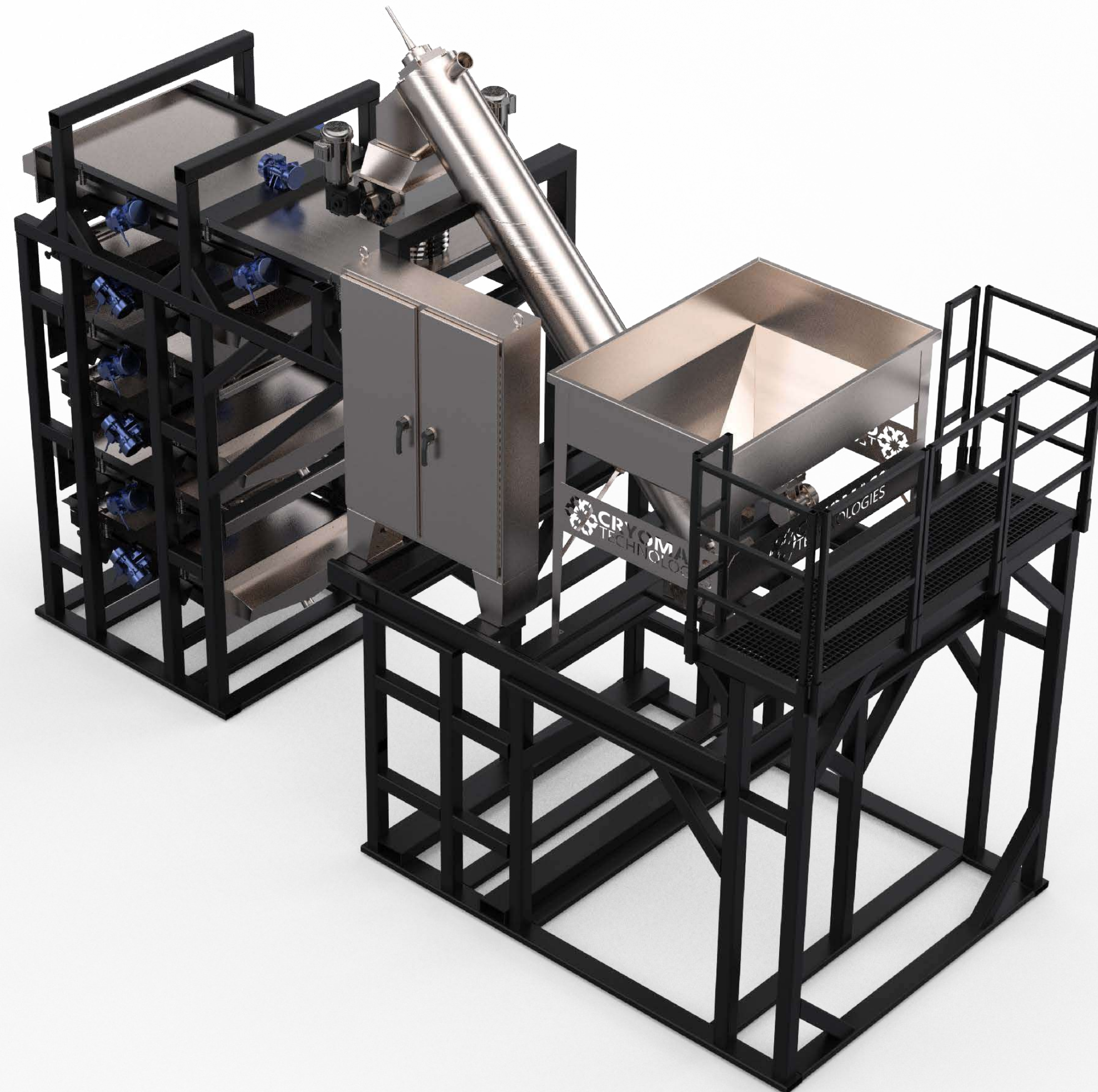
Current Industry Challenges

- Harvesting, drying and freezing biomass is **labor intensive** and costly.
- Biomass handling causes **significant trichome loss (30%+)**.
- Biomass **high storage and transport costs** due to large volumes and space needs.
- **Biomass degradation** occurs during storage and handling resulting from exposure to oxygen, moisture, light or heat
- Extraction from full biomass is a **lengthy and expensive** process.

CryoMass delivers a state-of-the-art technology solution that addresses all these challenges to increase profitability for our customers.



Delivering High-Value Process Improvements to Biomass Operators



ELIMINATE DRYING

Process fresh plants straight from the field and reduce days of work & trichome loss.

SCALABLE INDUSTRIAL CAPACITY

Process up to 700 lbs/317,500 grams of fresh biomass per hour per system.

MOBILE OR FIXED UNITS

Our system can be operated at the cultivation site or be permanently installed in a processing facility.

GREEN PROCESS

Minimal energy usage and no organic solvents. Minimal ecological footprint.

HIGHER OUTPUT

Increase cannabinoid and terpene concentration up to 10x.

BIOMASS VERSATILITY

Process wet or dry, fresh frozen, cured flower, trim and everything in between.

REDUCED VOLUME

Reduce volume of product up to 80% relative to starting material, making storage and transportation less burdensome.

SEPARATION EFFICIENCY

The process efficiently recovers up to 97% of available trichomes from biomass.

CryoMass vs. Traditional Trichome Separation Systems

When comparing the results of the patented CryoMass system to traditional ice water trichome separation systems, **there is no comparison.**

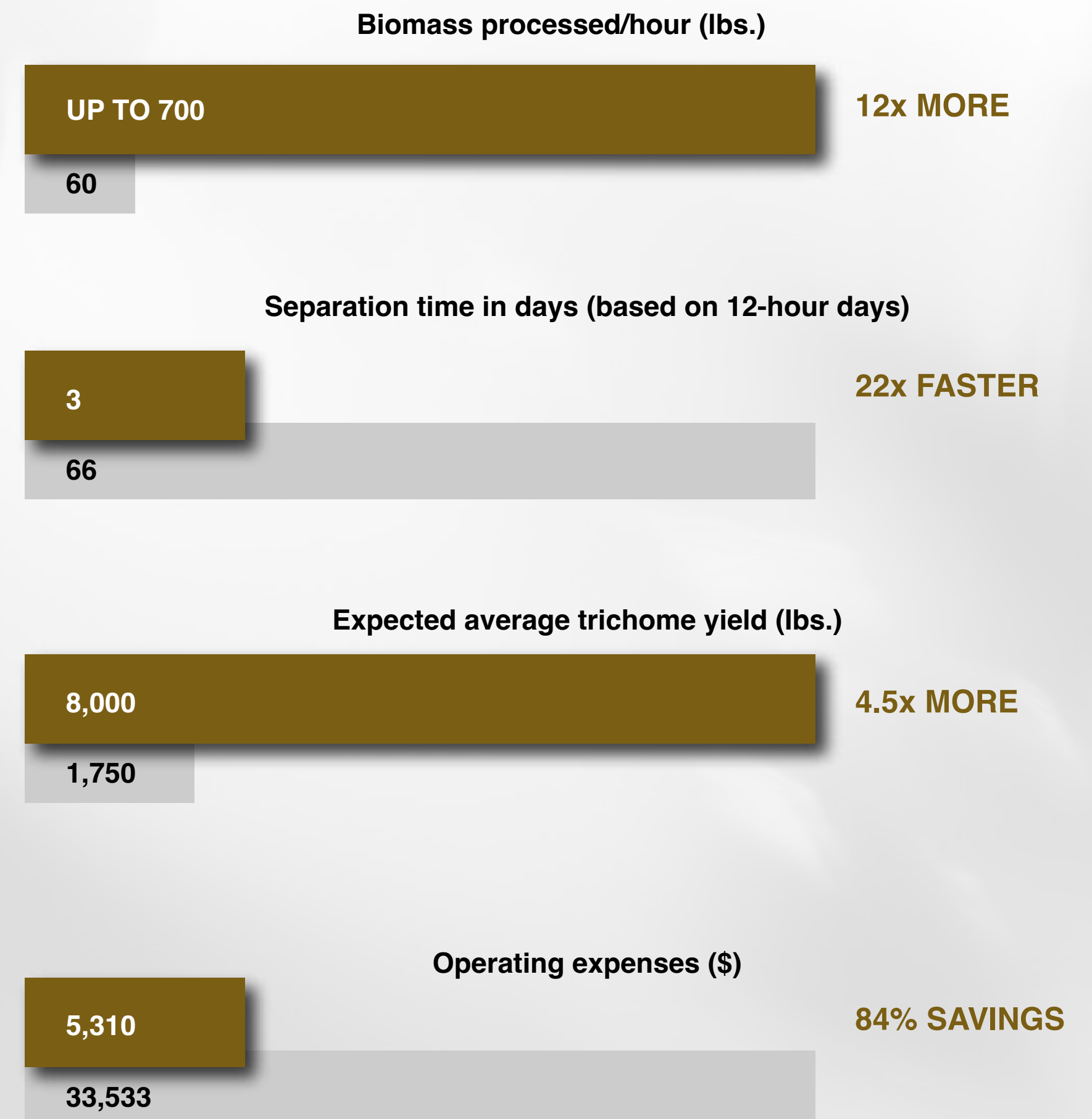
Based on the processing of **25,000 lbs** of biomass, here is a comparison of our trichome separation system versus nine leading traditional systems that do not and cannot utilize our patented cryogenic, solventless separation process. **They use ice water instead.**

It is important to note that one of the key reasons the CryoMass system is so much more efficient from a process and cost-saving perspective is that it is, to the best of our knowledge, the only continuous-feed separation system while all others are batch-feed systems.

Although the Company's initial focus is on the cannabis and hemp sector, **there is tremendous potential to generate important revenue streams from processing other high-value, trichome-rich plants** where similar cost savings and end-product improvements can be realized.

* Traditional systems data was gathered from company websites and from conversations with company representatives. This is an average of the 9 leading traditional systems.

■ CRYOMASS
■ TRADITIONAL



Advantage #1 - Case Study

Enhanced Hydrocarbon Extraction Yields from CryoSift vs. Full Biomass

Strain: Grapes & Cream

Biomass: Fresh Frozen

Solvent: Butane

Extract: Live Resin

Biomass processed (lb): 2,000

Biomass processed (kg): 907.18

Better Yields = More Revenue

Extraction results **without** CryoMass separation

Yield (%)	3.8%
Yield (kg)	34.47
Sale price per kg	\$ 2,500
Total revenue	\$ 86,175

Extraction results when **using** the CryoMass separation

Yield (%)	7.7%
Yield (kg)	69.85
Sale price per kg	\$ 2,500
Total revenue	\$ 174,625
Additional revenue	\$ 88,450
Additional revenue per lb processed	\$ 44.22

Advantage #2 - Case Study

Cold Storage Cost of a Typical Cannabis Farm in California

Amount of biomass to store:	300,000 lbs
Storage container:	40-foot refrigerated container with diesel generator
Amount of biomass per container:	10,000 lbs
Number of containers required:	30
Monthly cost per container :	\$ 4,500

**CryoMass reduces the volume of biomass by up to 80 %
Weight ≠ Volume**

Storage costs **without** CryoMass separation

Number of containers	30
Total monthly storage cost	\$ 135,000

Storage costs when **using** the CryoMass separation

Number of containers required	6
Total monthly storage cost	\$ 27,000
Monthly cost savings	\$ 108,000
Annual cost savings	\$ 1,296,000
Annual cost saving per lb on 300k lbs	\$ 4.32

We Call The Result Of Our Cryogenic Trichome Separation - CryoSift™

CRYOSIFT™ IS TRICHOMES IN THEIR PUREST FORM

- CryoSift™ can be used for making THC and CBD products for medicinal, wellness and recreational purposes. It can also be used for making CBD products for animals.
- The quality of CryoSift™ is superior to sift obtained with traditional dry and water-based trichome separation methods. Cryogenic separation results in increased cannabinoid yields, higher terpene count for a greater retention of the most desirable compounds.
- Though CryoSift™ can be consumed as is, it is the ideal input for manufacturing superior premium concentrates at scale, without the use of solvents (solventless).
- CryoSift™ can also be used as a high-quality feedstock for traditional solvent-based extraction methods (such ethanol, CO2 or hydrocarbon) to create extracts with different flavor, color and aroma profiles like live resin concentrates.



CRYOSIFT™



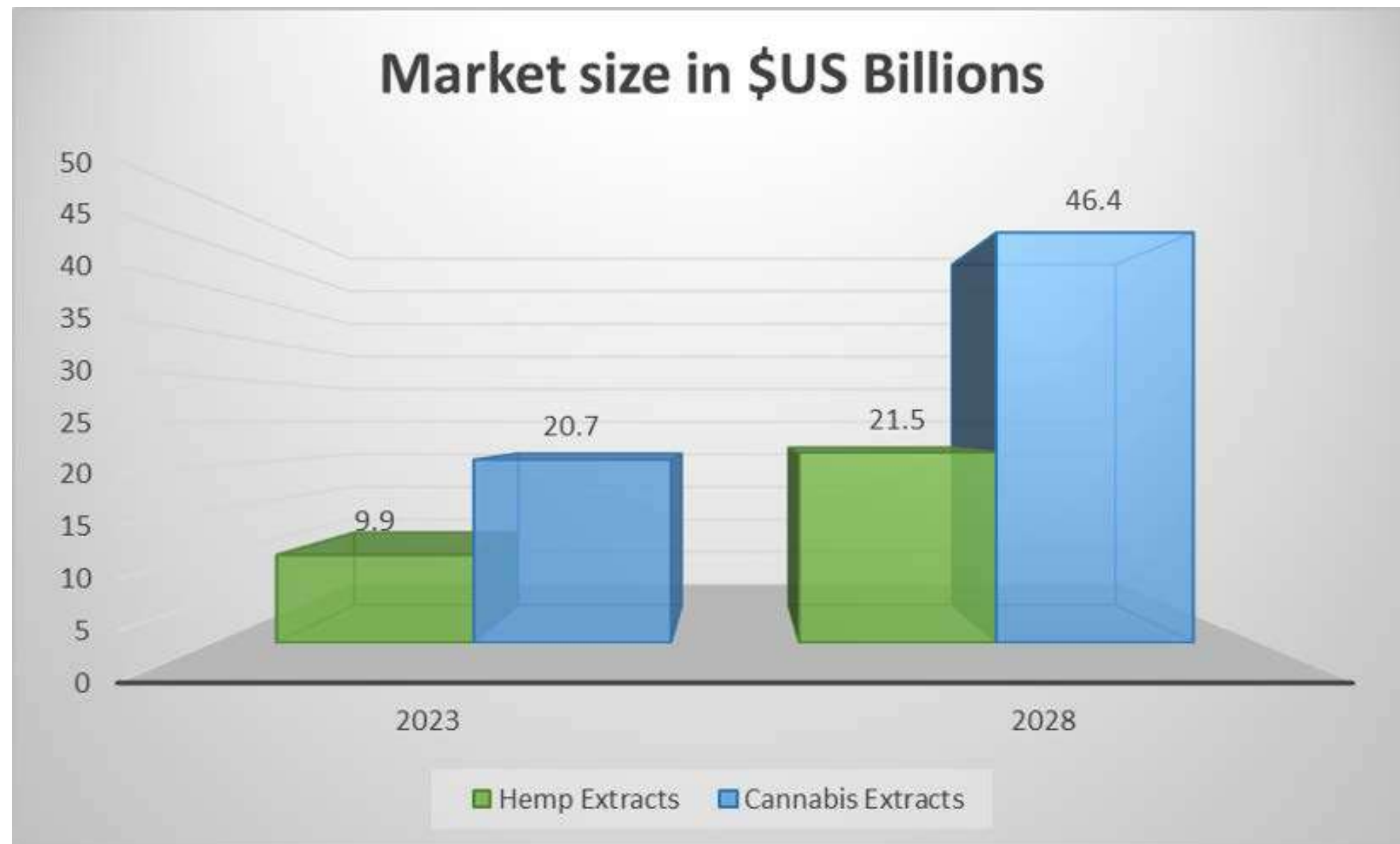
SOLVENTLESS PRODUCTS



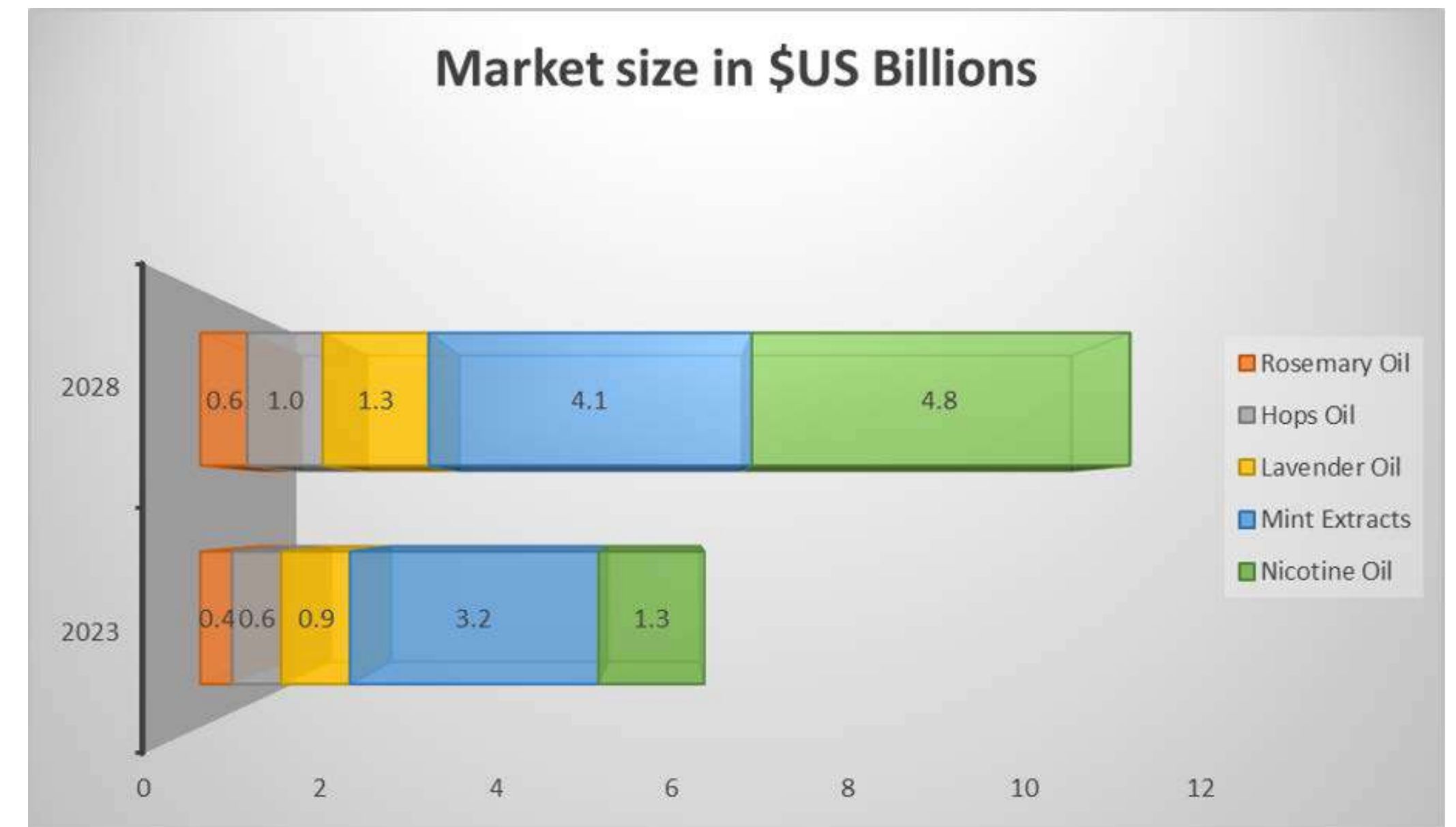
SOLVENT BASED PRODUCTS

Attractive Opportunities in Botanical Extracts Markets

Cannabis and Hemp - Our First Major Markets



Global Botanical Extracts - The Future



* Management estimates based on data compiled from a variety of sources, including, but not limited to: industry research reports, publicly-traded company filings, industry trade associations, trade publications and market research databases. Additional data regarding data sources available upon request.

Building A Sustainable Competitive Advantage

— Strong IP portfolio

- US Patents: expiring in 2037 & 2038
- Canadian Patent: expiring 2038
- Chinese Patent: expiring 2038
- Patents pending in 5 other countries.
- Trademarks: CryoMass®, CryoSift™ and CryoSift Separator™

— Experienced in-house team of industry-leading experts.

— Established industry relationships.

— Extensive R&D and long learning curve.

— Significant capital invested to develop the technology and supporting processes.

— First mover advantage.

Strategic Partners and Customers

- Strategic Operational Partners are established, licensed biomass processors.
- Customers are existing, established cultivators and processors of biomass.



June 14th 2023, CryoMass first showcasing event for cultivators and processors from California and other states.

Recurring Revenue Model

- CryoMass licenses its patented technology by renting CryoSift Separators™ to partners who provide biomass refinement services to cultivators and processors of premium crops.
- Our licensing model generates recurring revenue by charging partners a royalty per pound of biomass processed through the CryoSift Separators™.

Example of Recurring Royalties per Unit

Year	2024	2025	2026	2027	2028
Pounds of biomass per day processed by the CryoSift Separator™	1,000	1,200	1,400	1,600	1,800
Number of days of processing per week	4	4	4	4	4
Amount of biomass processed per week (lb)	4,000	4,800	5,600	6,400	7,200
Amount of biomass processed per month (lb)	16,000	19,200	22,400	25,600	28,800
Amount of biomass processed per year (lb)	192,000	230,400	268,800	307,200	345,600
Royalty per pound paid to CryoMass	\$ 5.00	\$ 5.00	\$ 5.00	\$ 5.00	\$ 5.00
Annual royalty paid to CryoMass by the licensee per unit	\$ 960,000	\$ 1,152,000	\$ 1,344,000	\$ 1,536,000	\$ 1,728,000

CryoSift Separator™ Unit Deployment Targets

Year	2024	2025	2026	2027	2028
CryoSift Separators™ deployed during the year	3	4	4	6	8
Total CryoSift Separators™ deployed at year end *	4	8	12	18	26

* 2024 Includes 1 CryoSift Separator™ deployed during 2023

Disclaimer: The theoretical recurring royalties above are based on management conservative estimates and assumptions of future performance and operations under a per-pound processing fee royalty model that includes a fee of \$5.00 USD per pound charged by CryoMass to its licensee. Each licensing contract will be negotiated on a case-by-case basis. Market dynamics can vary greatly due to a multitude of factors and therefore, the actual results, performance or achievements of the Company can be materially different from any future results, performance or achievements expressed or implied by the assumptions above.

CryoSift Separators™ Cannabis & Hemp Markets

- 🔗 **Leads:** 200+ inquiries received from 10+ countries and 20+ US States.
- 🔗 **Prospects:** 70+ conversations.
- 🔗 **Opportunities:** 25+ active conversations.
- 🔗 **Targets:** 2 short term deployments.
- 🔗 **Operational:** 1 CryoSift Separator™ in California, USA.

Initial Market Focus Is North America

CALIFORNIA

1st CryoSift Separator™ at operating partner facility can cover 60% of California cultivation licenses.

Legal Cannabis product sales in California totalled US\$431.3 million in June 2022.

Suggesting an annual run-rate of US\$5.175 billion⁽⁶⁾

Global cannabis product sales are projected to reach US\$61 billion by 2026 ⁽¹⁾

CANADA CANNABIS

Product sales of US\$4 billion in 2021 projected to be US\$7.6 billion in 2026 ⁽²⁾

2,196 acres of licensed cultivation in 2021 ⁽³⁾

CANADA HEMP

1,269 industrial hemp licenses in 2020 with 54,963 acres of cultivation ⁽⁵⁾

USA CANNABIS

Product sales projected to grow from US\$18.5 billion in 2022 to US\$58.8 billion in 2026 ⁽²⁾

USA HEMP

In 2021, 30,000 acres of hemp were harvested for a total of ~30 million pounds of biomass ⁽⁴⁾

1. <https://bdsa.com/wp-content/uploads/2022/03/Cannabis-Market-Forecast-Spring-2022-Update.pdf>

2. <https://prohibitionpartners.com/2022/08/04/the-north-american-cannabis-report-3rd-edition-key-insights/>

3. <https://www.canada.ca/en/health-canada/services/drugs-medication/cannabis/research-data/market/licensed-area.html>

4. <https://www.hempbenchmarks.com/interactive/total-us-hemp-acres-permitted-planted-harvested/>

5. <https://www.canada.ca/en/health-canada/services/drugs-medication/cannabis/producing-selling-hemp/about-hemp-canada-hemp-industry/statistics-reports-fact-sheets-hemp.html>

6. <https://www.newcannabisventures.com/june-cannabis-sales-decrease-slightly-from-may-to-1-65-billion/>



Christian Noël
CEO

Seasoned wealth advisor, investor and cannabis industry expert leveraging over 20 years of capital markets expertise to drive growth opportunities.



Blair Mullin
CFO

Decades of CFO leadership spanning high-growth startups to public companies across technology, manufacturing, and emerging industries.



Patricia Kovacevic
General Counsel & Head
of External Affairs

Accomplished legal expert and strategist with decades of experience navigating complex regulations for global corporations across multiple industries.



Matt Armstrong
Sr. Director of Innovation

Decorated Marine veteran and technical visionary leading cutting-edge cryogenic innovation in agricultural extraction technology.



Priyesh Sharma
Sr. Director of Engineering
and R&D

Engineering leader with 20+ years' experience driving innovation from concept to commercialization across agriculture, energy, aerospace, and other industries.



Aaron Godin
Director of Applied Science

A Master agronomist with a passion for everything driven by science and data.



Mike Stringile
Director of Int'l Sales

Extraction technology expert leveraging 7+ years of oil, gas and cannabis industry experience to drive innovative solutions and sales growth.



Steve Cimini
Director of US Sales

Cannabis industry pioneer and sales leader instrumental in developing revolutionary extraction technologies and achieving tremendous market growth.

Board Of Directors



Dr. Delon Human
Chairman of the Board

Accomplished physician, author and global health strategist advising international organizations, governments and corporations on healthcare access, harm reduction, and product transformation.



Mario Gobbo
Director

Seasoned investment banker and biotech advisor with 35+ years spanning healthcare, life sciences, and energy sectors across emerging and developed markets.



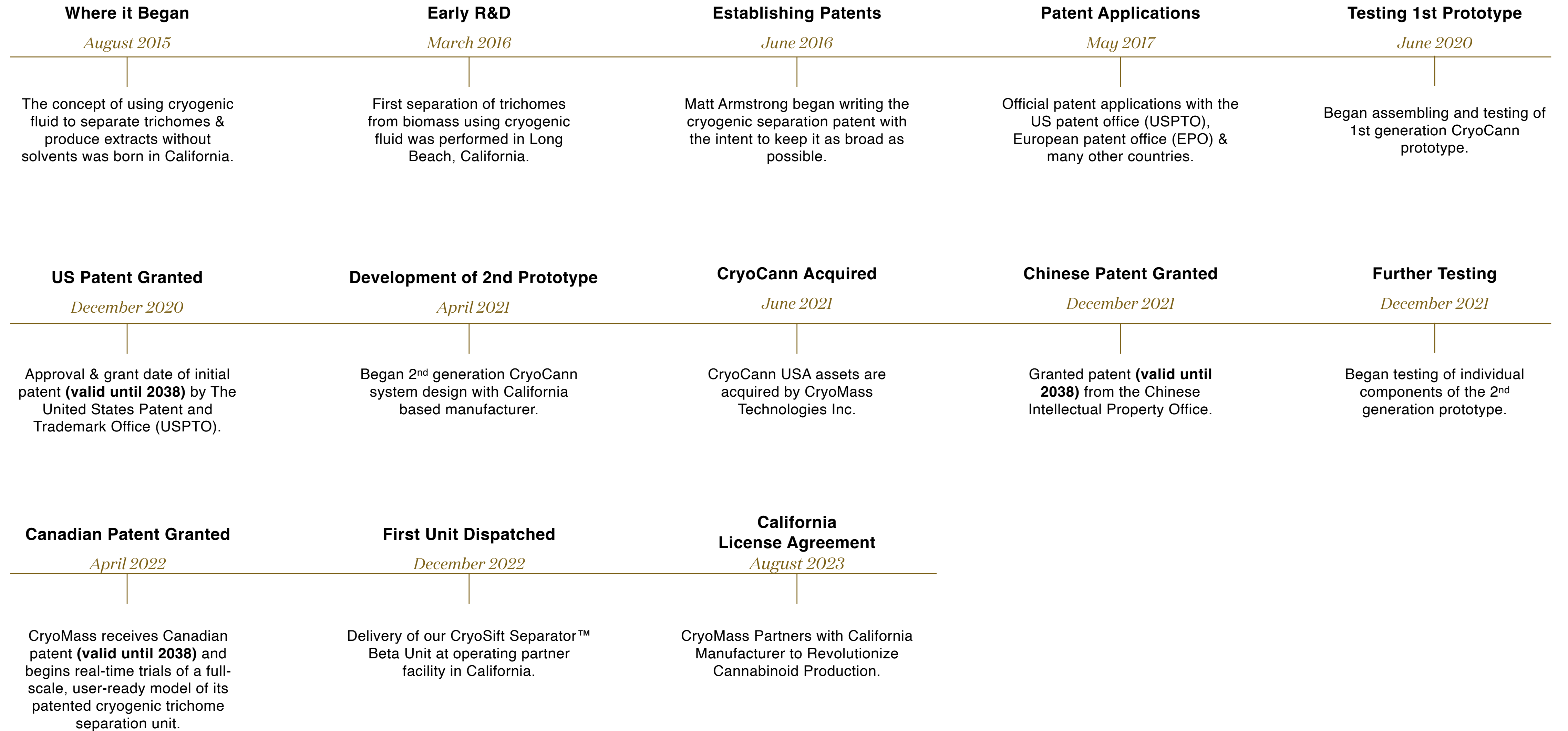
Mark Radke
Director

Preeminent securities lawyer and former SEC Chief of Staff advising financial services institutions on regulatory compliance, governance, and strategic initiatives.



Simon Langelier
Director

Global tobacco executive with 30+ years of leadership spanning new product innovation, international markets, and strategic board governance.



A Game-Changing Opportunity

MARKET

Large & rapidly growing market opportunity for premium botanical extracts of \$25B today to more than \$95B in 2030.

TECHNOLOGY

Superior patented technology for premium botanical refinement delivers efficient, high value solution to customers.

ECONOMICS

Attractive, high margin recurring revenue model.

IP

Solid IP portfolio - patented core technology.

UNPARALLELED

Limited competition from inferior refinement methodologies.

TEAM

Experienced senior management and Board with deep industry expertise and network.



To Learn More

The common stock of CryoMass Technologies Inc. trades on the OTCQB market under the symbol **CRYM**.

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