



Amrit Technologies

TRANSFORMING THE WAY THINGS ARE MADE





The only patented technology for extracting **all** viable resources from plants.



CORE VALUES

EXCELLENCE • COURAGE • VISION
INTEGRITY • TENACITY

Amrit Technologies is comprised of a **passionate group of manufacturing industry experts** with a mission of building a high-volume hydro-extraction and manufacturing technology that is clean, cost-saving, and environmentally friendly.

The Amrit Hydro-Extractor will surpass the competition with a major technological leap forward and become the obvious choice for extraction and manufacture of oils, proteins, dietary supplements, and lignin.

OUR TEAM

AMRIT TECHNOLOGIES



RIEN HAVENS, PHD

Founder, CEO and Patent Holder

- PhD California Institute of Integral Studies
- 10 Years Experience Designing and Building extraction and manufacturing Systems
- 14 Successful lab buildouts and redesigns
- Deep expertise in all forms of extraction and refinement in food manufacturing



HEIDI HUNTINGTON

Finance and Accounting

20 years of C-Suite experience
20 completed M&A and Financing Transactions



MADHU ANAND, PHD, MIT

Chemical Engineering and Design

Head Engineer at Applied Separations
Specializing in Super-Critical fluid
Applications



GABRIEL ETTEENSON, MS, PT

Operations Management

Co-Founder and President of Elixinol Wellness
Ltd in 2014 One of the first Hemp-based
product lines in the US.
Senior Innovation Strategist for Zilis, LLC



THERESA BYRNE

Strategic Initiatives

Certified Positive Intelligence Coach, Virtual
Speaker and Virtual Coach
Featured on TEDx, FOX 31, Huffington Post &
more

OUR TEAM

AMRIT TECHNOLOGIES



BARINE DUMAN JD

General Counsel

Cooley Godward Kronish LLP
Johns Hopkins, University of Virginia School of
Law



DREW SEARCHINGER, BA

Marketing, Sales Administration

5 Years experience in cannabis retail
management, licensing, and brand
development.

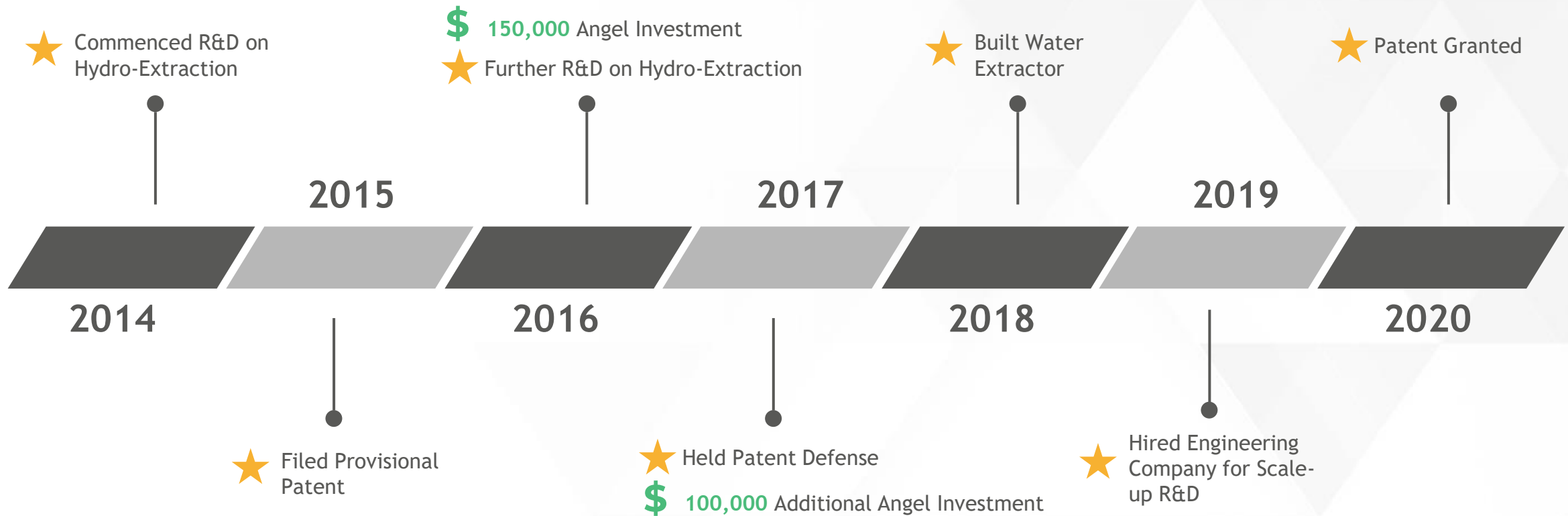


Dan O'Hearns

Mergers & Acquisitions

President at Celtic Financial

MILESTONES ACHIEVED



(12) **United States Patent**
Havens

(10) Patent No.: **US 10,857,482 B1**
(45) Date of Patent: **Dec. 8, 2020**

(54) **BOTANICAL SUPER HEAT
EQUIPMENT**

(71) Applicant: **Rien Havens, Bou**

(72) Inventor: **Rien Havens, Bou**

(73) Assignee: **Rien Havens, Gig**

(*) Notice: Subject to any discl
patent is extended
U.S.C. 154(b) by 5



9/2005 Whittle A61K 9/006
424/435
2/2008 Arai B01J 3/006
165/108
8/2011 Carbosell B01D 11/0288
134/40
10/2002 Tunnicliffe B01D 11/0203
134/26
9/2004 Whittle A61K 9/0031
514/454
9/2016 Donsky A61K 36/185

(21) Appl. No.: 15/830,142

(22) Filed: Aug 11, 2016

(51) Int. CL
B01D 11/02 (2006.01)
A61K 36/185 (2006.01)

(52) U.S. CL
C02F 1/38 (2006.01)

OTHER PUBLICATIONS

"Hydrogen-rich gas from fruit shells via supercritical water extrac-
tion" Domichal, International Journal of Hydrogen Energy 29 (Year:
Water/Supercritical Fluid Extraction (SFE) Systems, <https://web.archive.org/web/20140214060938> (Year: 2014).*

* cited by examiner

AMRIT HYDRO-EXTRACTION SYSTEM

Introducing: **AMRIT** HYDRO-EXTRACTION

The world's first ever patented, water-based, whole plant extraction system.

Industries served by Amrit Hydro-Extraction

1. Nutritional and health products:

Nutrition and food production - Flax has healthy protein and oils used for production of: Milk, alternative meat products, alternative protein sources, vegetable oils

2. Graphene as a raw material:

Supercritical water - is at a temperature and pressure above its critical point (374 °C, 705 °F), where distinct liquid and gas phases do not exist. At this pressure and temperature, water can effuse through solids like a gas, and dissolve materials like a liquid. Supercritical water is suitable as a substitute for organic solvents in a wide range of industrial and laboratory processes.

Graphene industries - batteries, superconductors, graphene nanotubes

Introducing: **AMRIT** HYDRO-EXTRACTION

The world's first ever patented, water-based, whole plant extraction system.

Amrit Tech Combines 3 Forms of Water to Create Hydro-Extraction

1. **Countercurrent Extraction:**

High flow technology allows a continuous stream of plant material to be processed in the extractor. Current technologies rely on “drop and soak” systems. Amrit Hydro-Extraction allows unprecedented volumes to flow through the system using powerful shearing action and a unique separation technology, all with room temperature water, preserving oils and delicate terpene molecules, without leaving behind toxic residual solvents.

2. **Sub-Critical Water extraction:**

Subcritical water extraction (SWE) is an effective green extraction technique for the isolation of different classes of compounds from natural matrices. SWE is low cost, safe, clean, and energy efficient. Subcritical water is maintained in a liquid state under high pressure at a temperature between 100 and 374 °C (212 - 705 °F)

3. **Super-Critical Water Extraction:**

Supercritical water is at a temperature and pressure above its critical point (374 °C, 705 °F), where distinct liquid and gas phases do not exist. At this pressure and temperature, water can effuse through solids like a gas, and dissolve materials like a liquid. Supercritical water is suitable as a substitute for organic solvents in a wide range of industrial and laboratory processes.

Introducing: **AMRIT** HYDRO-EXTRACTION

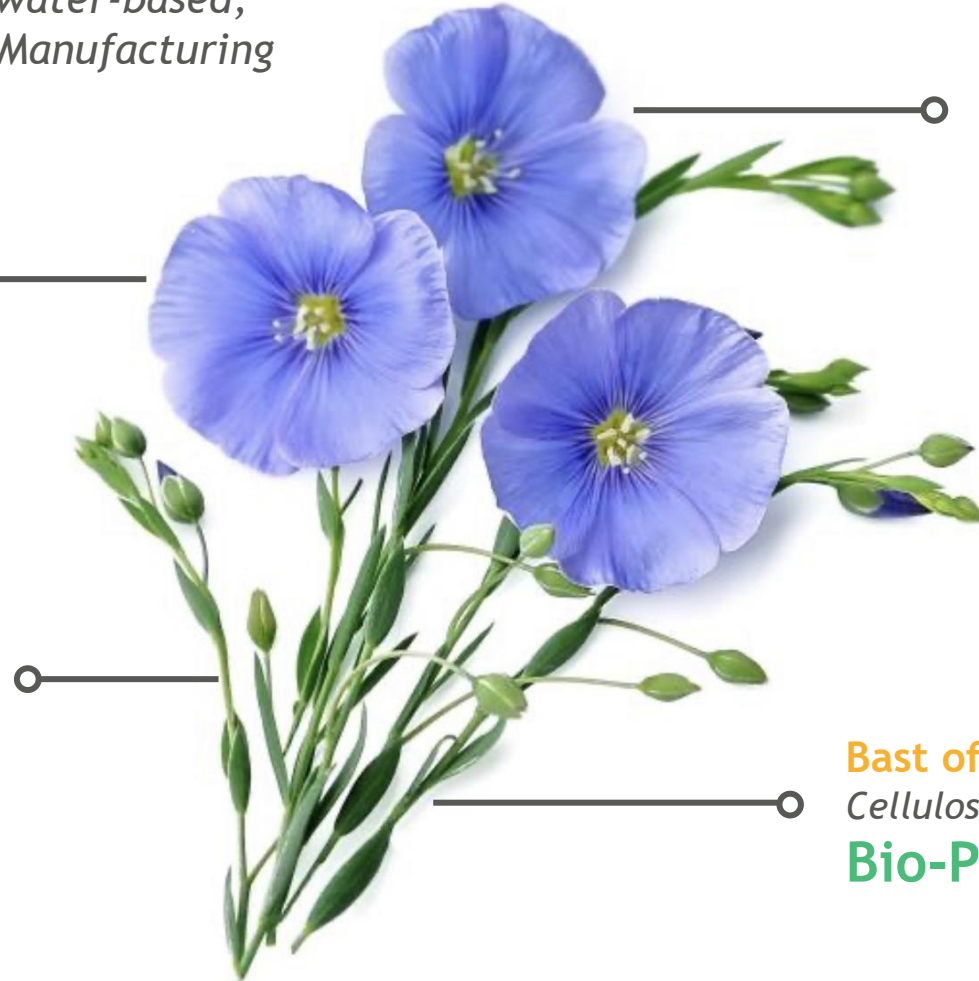
The world's first ever patented, water-based, whole plant extraction system. (Manufacturing Example - Flax)

Stalks & Flowers
Protein source

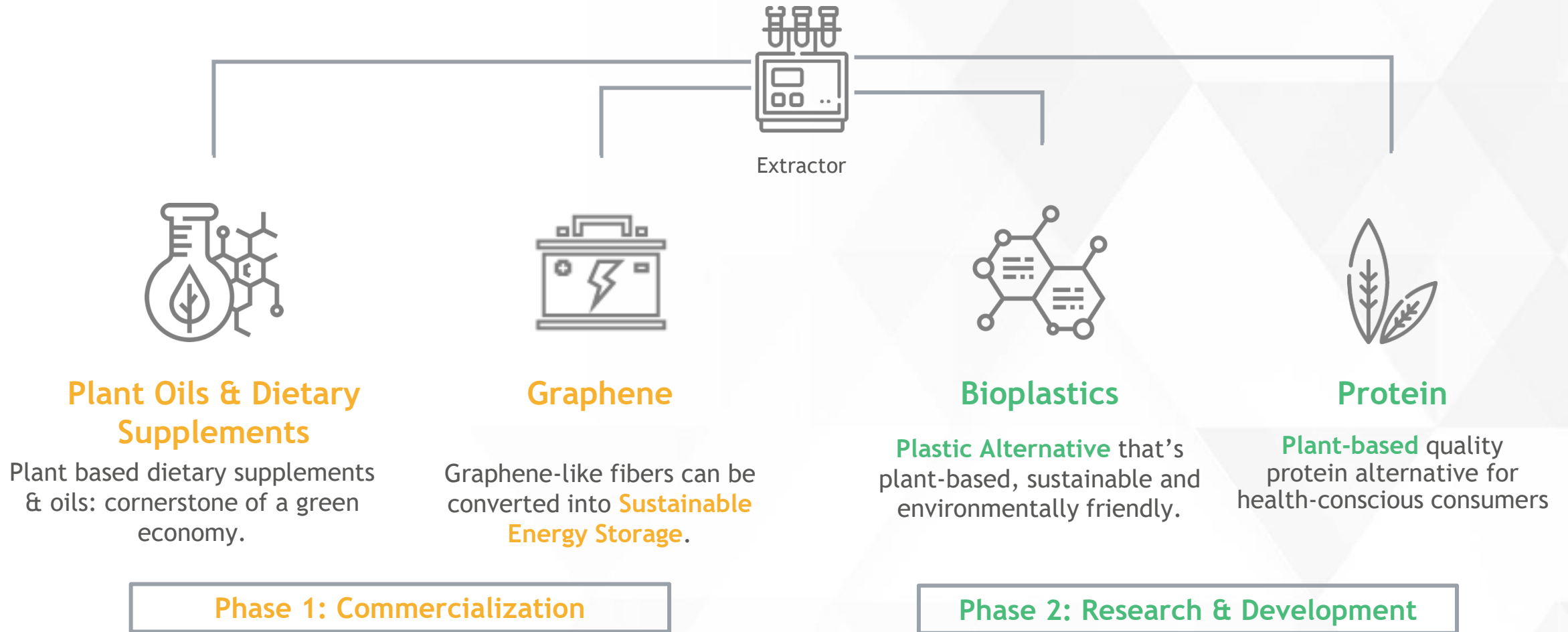
Flower
Fabric dye

Stalk - High Density Lignan Fibers
Graphene-like material
Electric Car Batteries
and Superconductors

Bast of Stalk - Low Density Lignan Fiber
Cellulose
Bio-Plastic Raw Material



4 REVENUE STREAMS IN ONE TECHNOLOGY



THE PROBLEM

INDUSTRY PITFALLS

- High cost
- Labor intensive
- Harmful chemicals
- Excessive waste
- Not sustainable
- Outdated technology



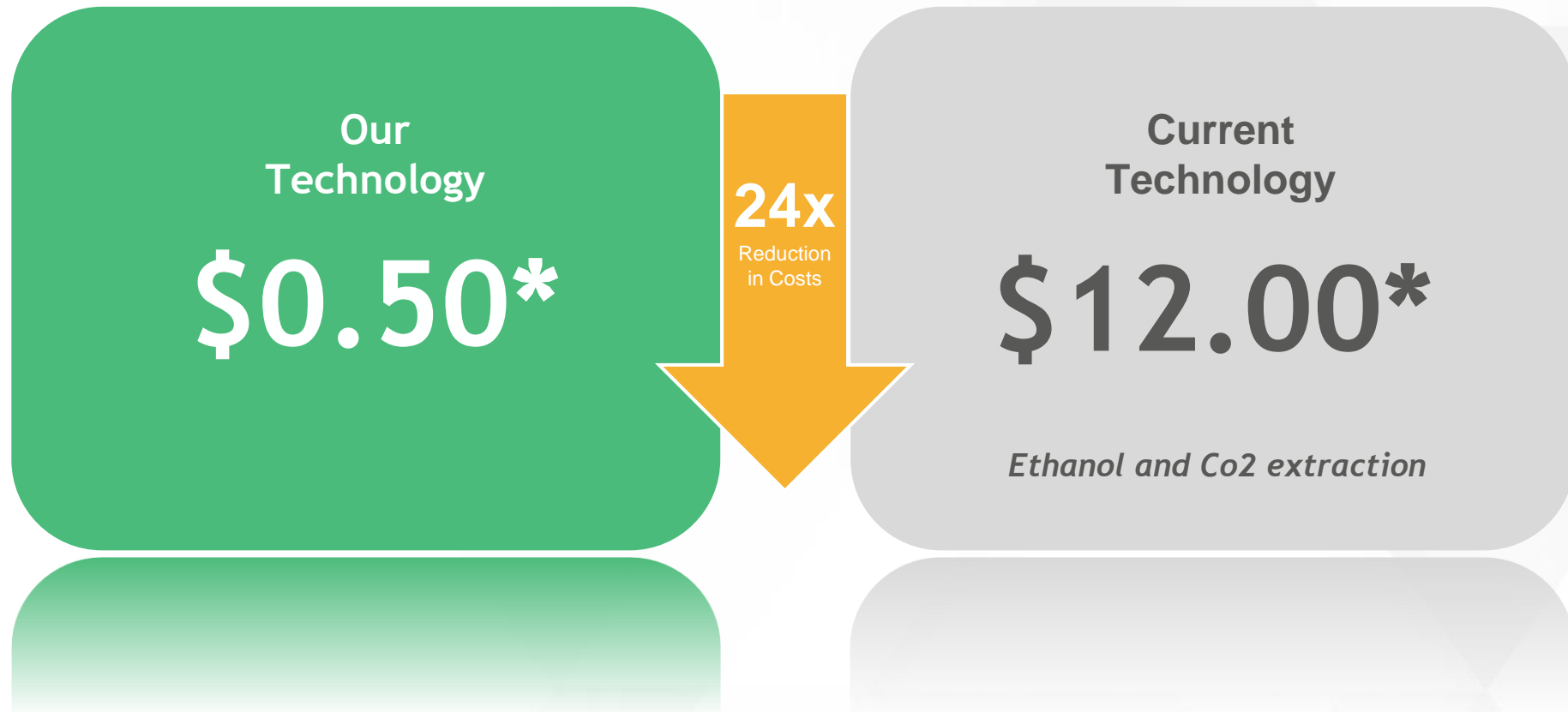


THE AMRIT SOLUTION

A TECHNOLOGICAL LEAP FORWARD

- 24x Lower COGS
- 8x Higher volume
- Dynamic water extraction
- Whole plant utilization
- Sustainable
- Patented Breakthrough Technology

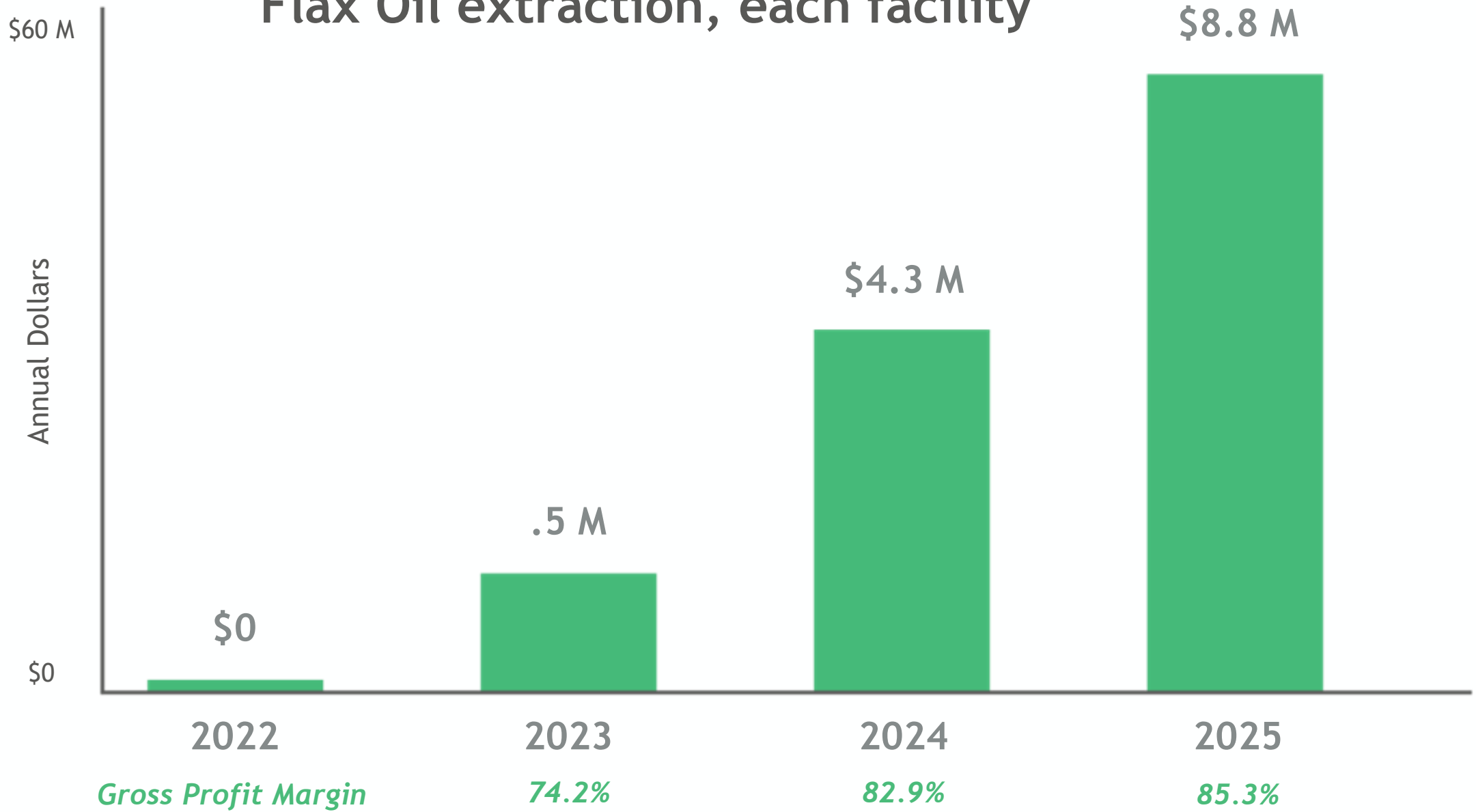
MANUFACTURING COST COMPARISON



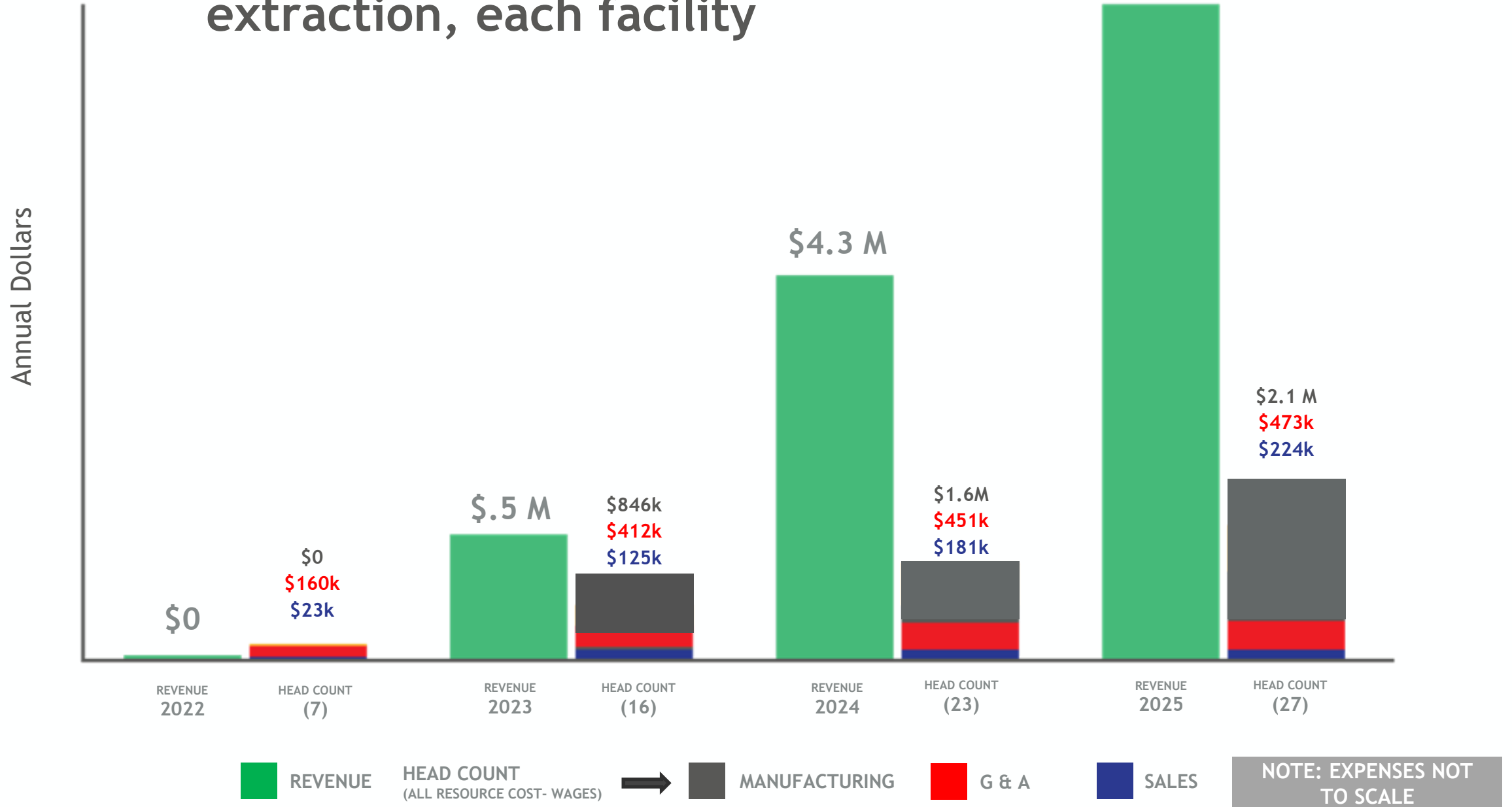
*Per Kilogram output.

PROJECTED REVENUE GROWTH

Flax Oil extraction, each facility

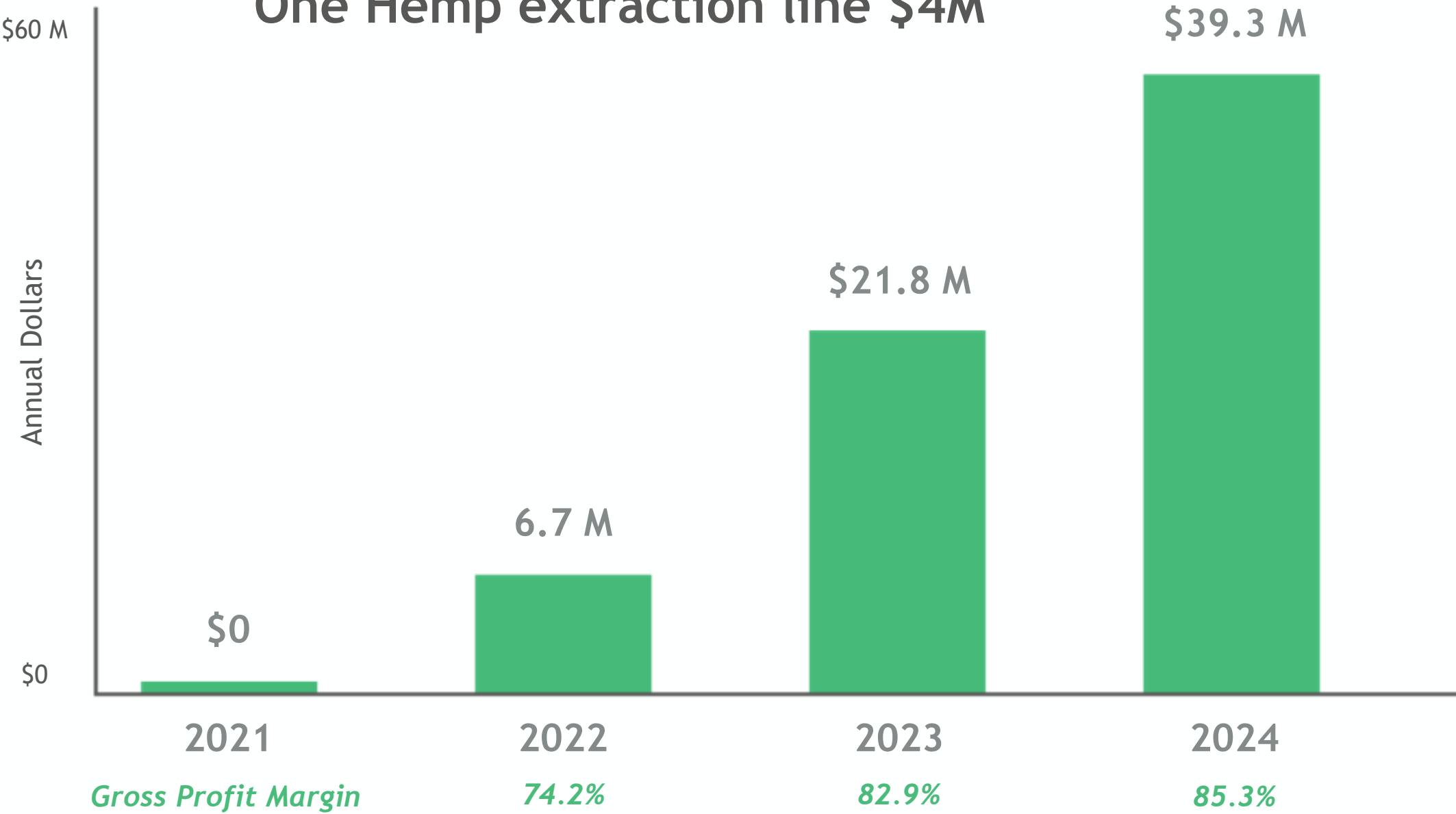


REVENUE VS. RESOURCE COST Flax Oil extraction, each facility



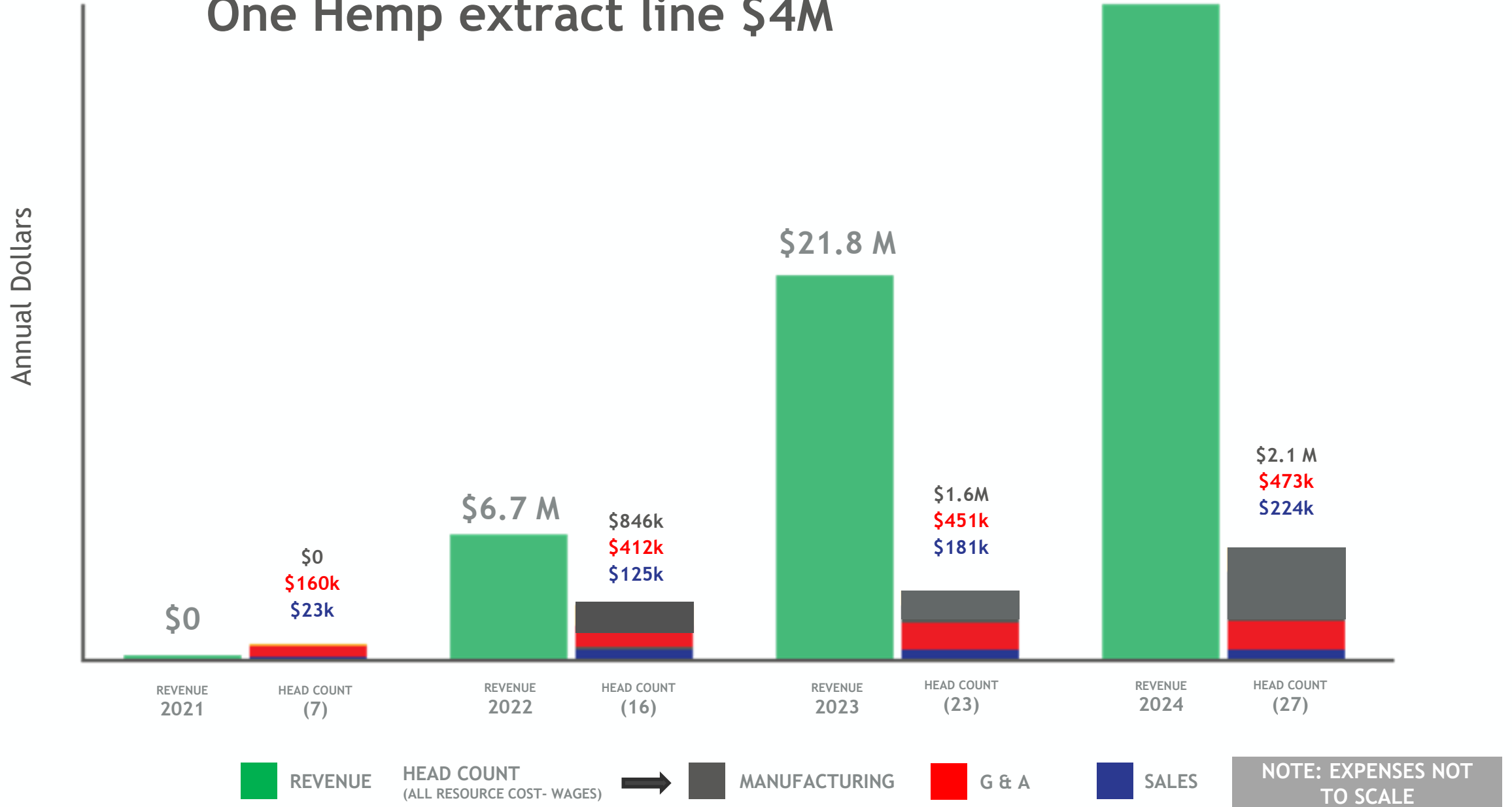
PROJECTED REVENUE GROWTH

One Hemp extraction line \$4M

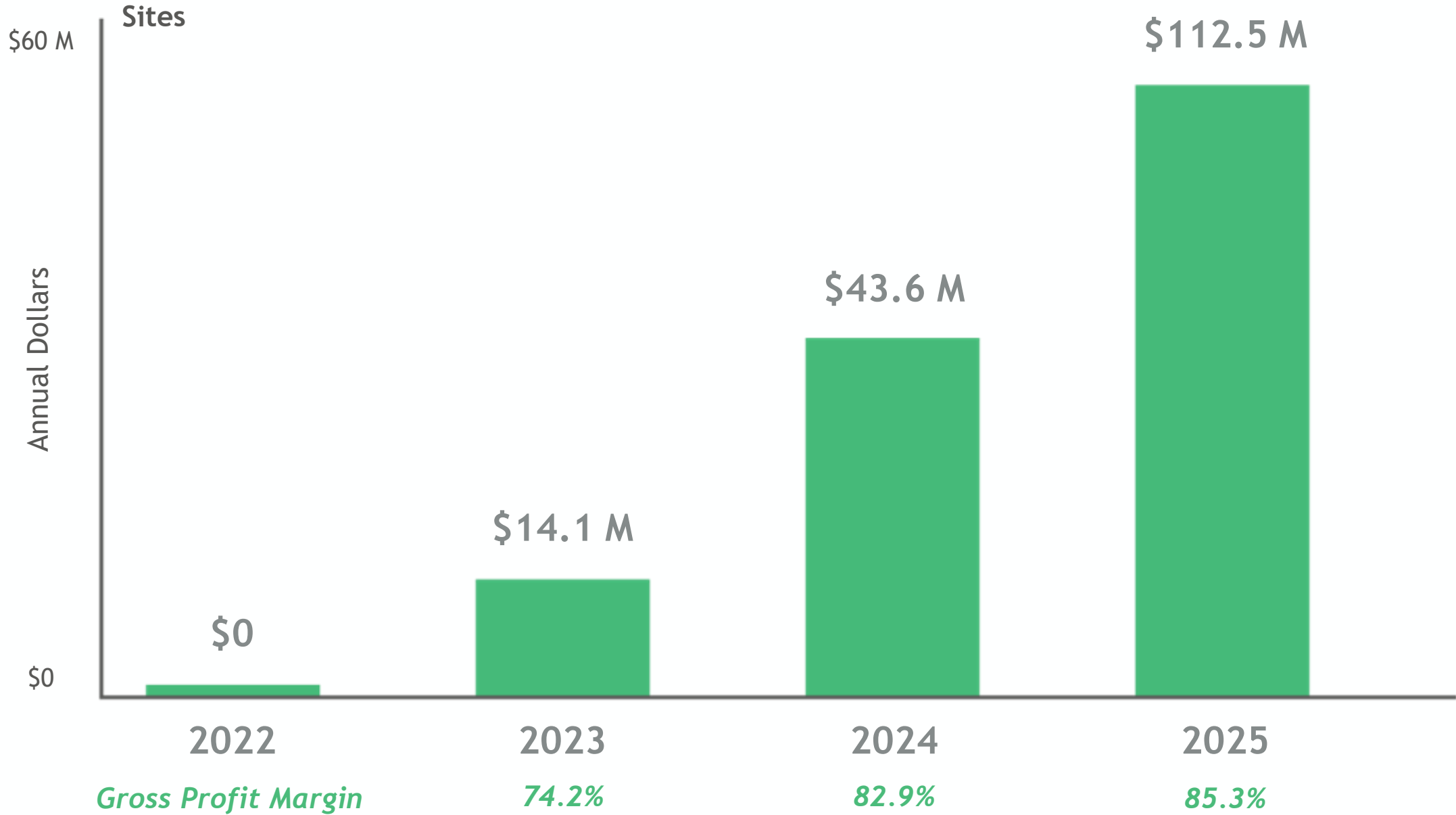


REVENUE VS. RESOURCE COST

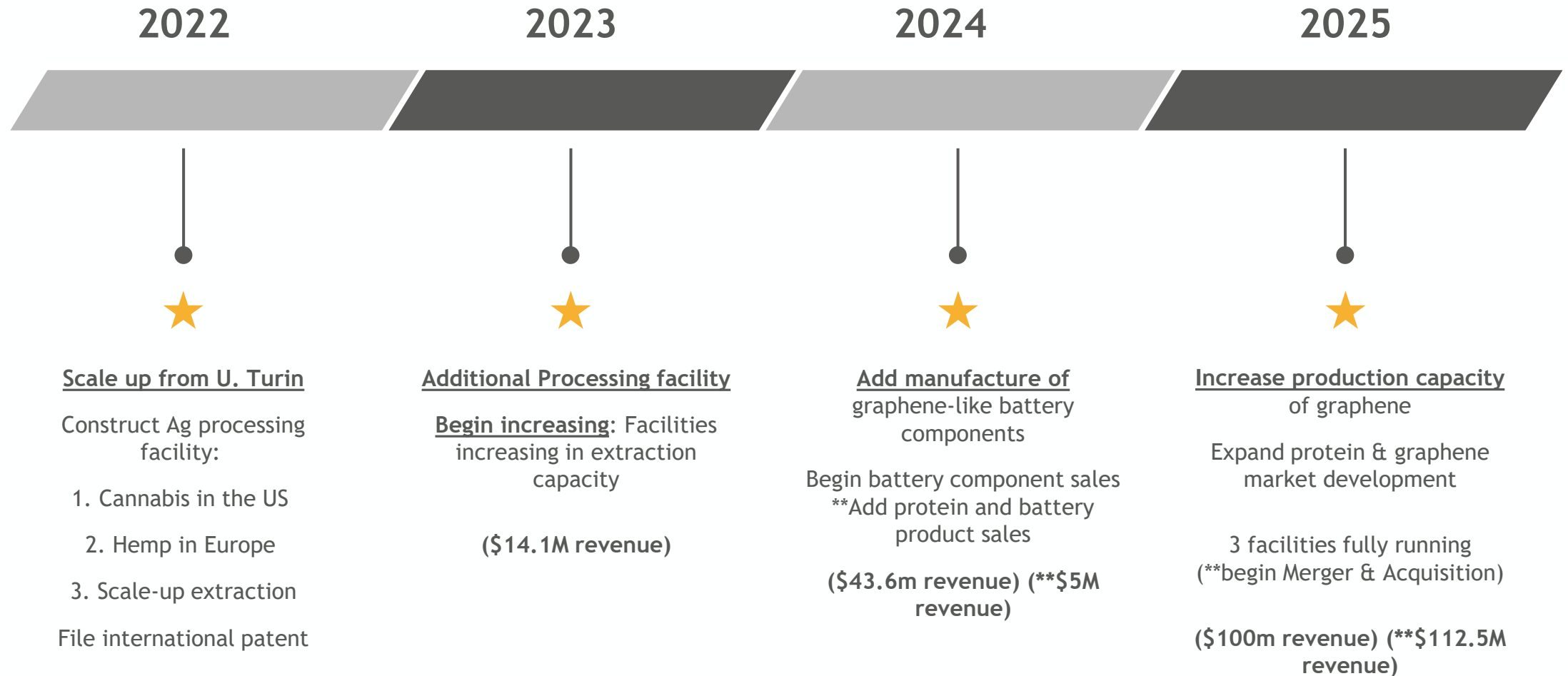
One Hemp extract line \$4M



PROJECTED REVENUE GROWTH ALL 3



FUTURE MILESTONES



Contact:

Dr. Rien Havens

3889 Harborview Dr #106 Gig Harbor, WA 98332
(P) 720.468.8810 | (E) rien@amrittech.com

Thanks for your interest in Amrit Technologies!

