



The Future  
**of skin  
rejuvenation  
laser treatment**

Epicare The breakthrough  
**Ablative Q Switch Thulium Laser**



# Meet Epicare

Our Ablative Q-Switch  
Thulium Laser -  
The only laser of its kind

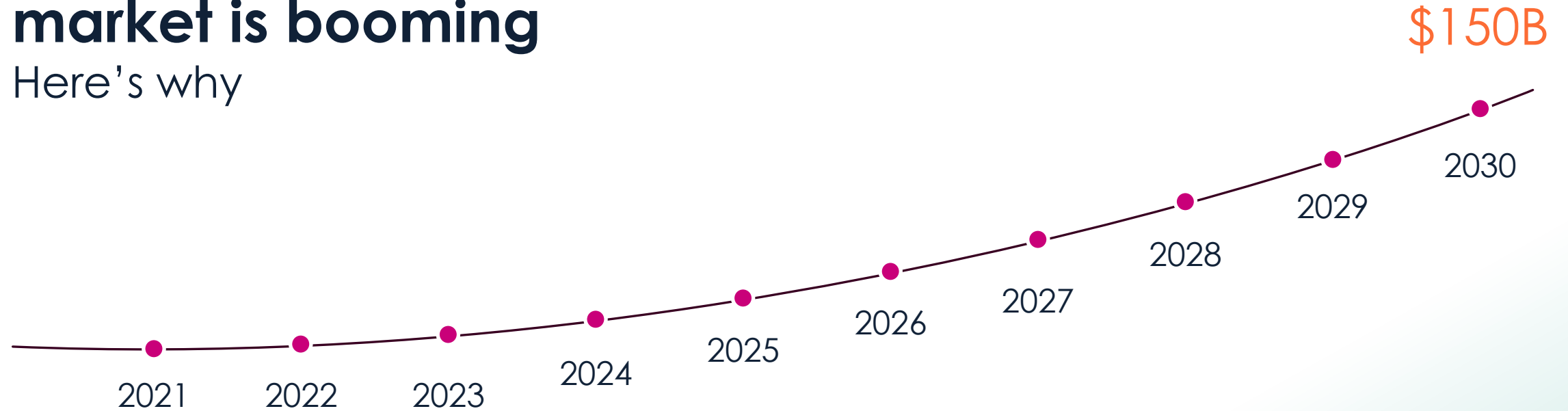
## Smaller Beam, Bigger Benefit for Clinics

With **Ultra Small Spots**, its smallest  
precision beam and depth control,  
it delivers **less pain, less downtime,**  
**and more cost-effective solutions.**



# The non-invasive aesthetic treatment market is booming

Here's why



## Zoom Effect

Consumers are spending more time **looking at their reflections** - video calls have permanently changed how we view ourselves.



## Shift away

Aesthetic lasers are quickly replacing plastic surgery for their quick recovery and minimal discomfort.



## Male Clients

Aesthetic procedures are in high demand among men. Aesthetic medicine offers subtle tweaks instead of dramatic procedures.



For non-invasive treatments,  
**Lasers are  
leading the way**



Aesthetic laser treatments are among the **most lucrative services** in the non-invasive sector



There are **5 major issues** with the current laser treatments



**5** major issues  
with current  
lasers

**2**

## OVERSPECIALIZED

**1**

## OVERSATURATED

Me too options

Specialized lasers  
for each problem

- ✗ Wrinkles
- ✗ Scars
- ✗ Pigmentation-reducing
- ✗ Cost-effectiveness



# 5 major issues with current lasers

3

**MULTIPLE SIDE EFFECTS**



## Side Effects

- ✘ Scarring
- ✘ Burns
- ✘ Pain
- ✘ Infection
- ✘ Hypopigmentation
- ✘ PIH (Post Inflammatory Hyperpigmentation)



**5** major issues  
with current  
lasers

**4**

**BARRIERS FOR  
PEOPLE OF COLOR**

**50%**

of potential patients of color  
can't receive best treatment



# 5 major issues with current lasers

5

LONG DOWNTIME -  
UP TO 2 WEEKS!

Other technologies with milder results

- + Fractional ablation
- + Fractional non-ablation
- + RF
- + Micro-needling
- + Ultrasound

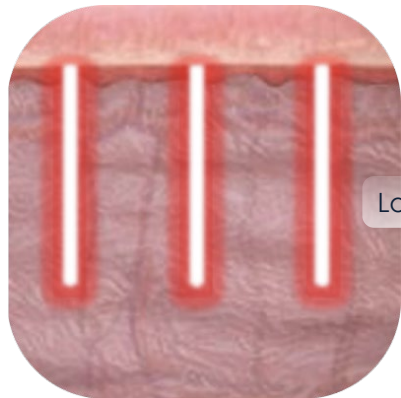




# Introducing Epicare's Breakthrough Technology

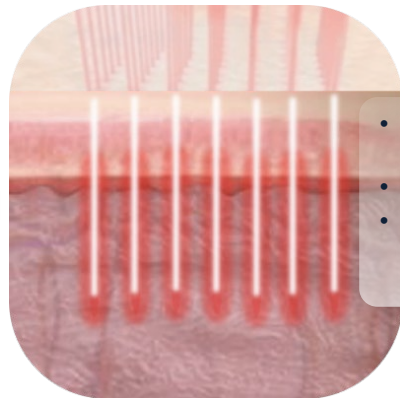
One Laser. Endless Solutions.

## CO2 Technologies



Long Pulse

## LASERTEAM



- Many fast and high power laser pulses
- On the same spot.
- With or without peripheral thermal effect

300% coagulation



### Dermis pigmentation

Current technology:  
Non-ablative Thulium 1940 nm

### Drug delivery

Current technology: CO2

### Wrinkles, Skin rejuvenation and Scars

Current technology:  
CO2, Er:Yag

### Epidermis pigmentation

Current technology: 1927nm,  
1940nm, long pulse duration Tm



# Outshines the competition

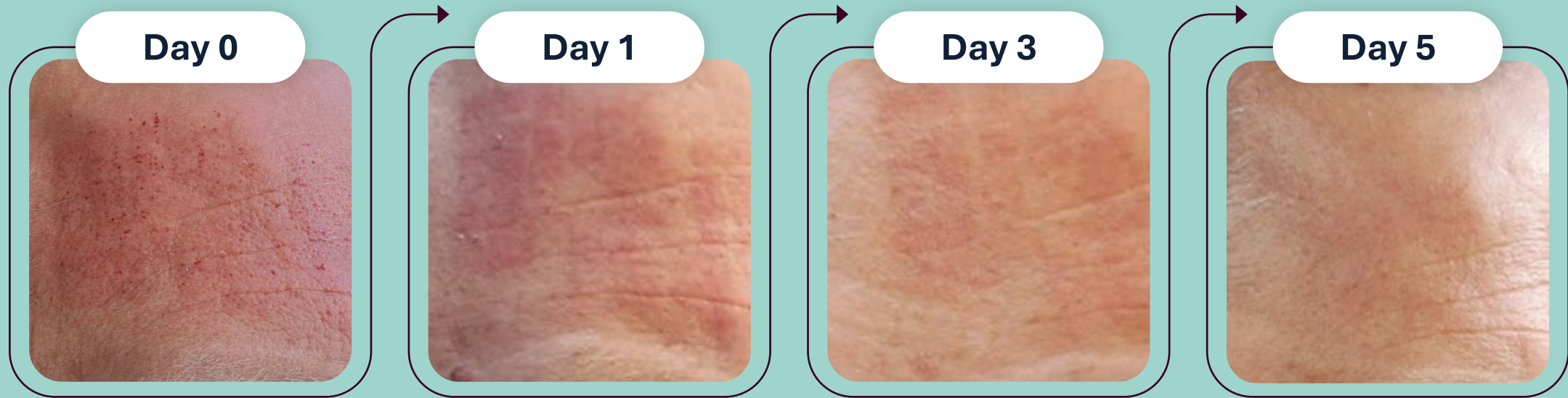
Max results. Min discomfort. Min downtime.

Laser Machine	Epicare	Er-Yag	CO2
Coagulation	<b>BETTER</b> + Hemostasis to 300% Controlled while lase	From 0+ to <<30%	30%
Spot size	<b>SMALLER</b> + 40µm Downtime less than 4 days	170µm	120µm
Max power	2 Watt	10Watt	60Watt



Results that speak for themselves

# Epicare consistent rapid healing



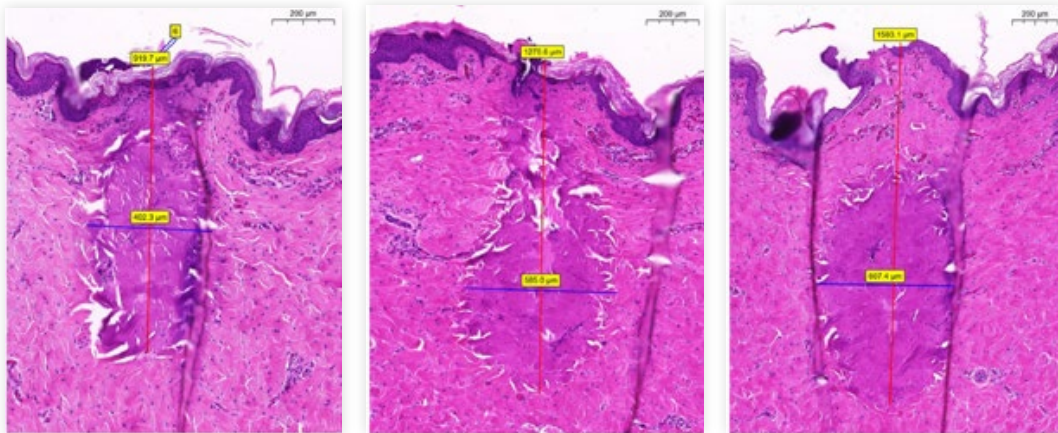
# Histological comparison

## Actual Coagulation width

80 mJ

120 mJ

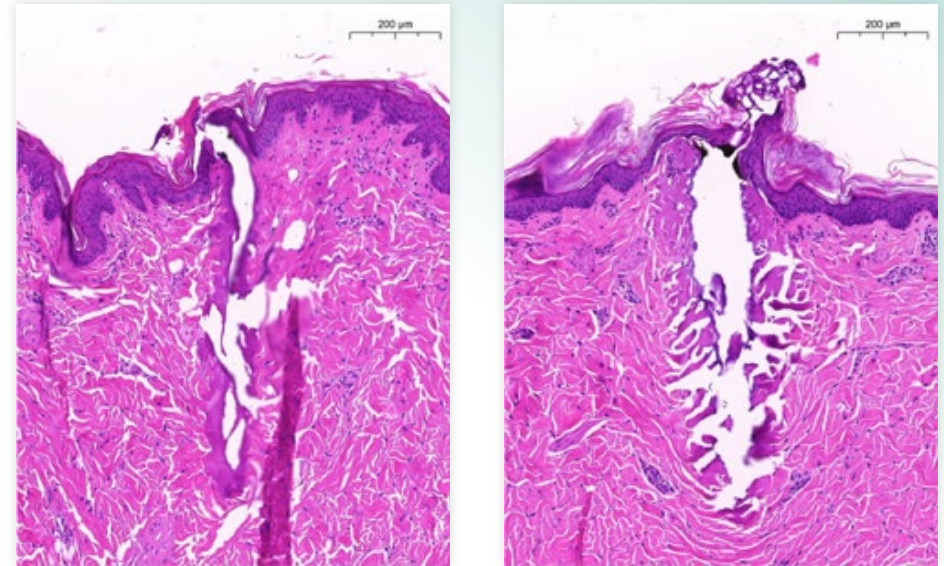
160 mJ



High coagulation microcolumns  
at various energies

**300%** coagulation

## Ultra Small Spots



A side-by-side comparison  
between our low-frequency  
operation and the CO2RE  
ablation with the same scale






# Proven efficacy in published studies

# **Lasers in Surgery and Medicine**

PRECLINICAL STUDY **OPEN ACCESS**

## **Evaluation of a Novel Ablative 1940 nm Pulsed Laser for Skin Rejuvenation**

Yoav Gronovich<sup>1</sup>  | Yaniv Raderman<sup>1</sup> | Ronen Toledano<sup>1</sup> | Rotem Nahear<sup>2</sup> | Neria Suliman<sup>2</sup> | Alon Shacham<sup>2</sup> | David Fridman<sup>2</sup> | Salman Noach<sup>2,3</sup>

<sup>1</sup>Plastic and Reconstructive Surgery Department, Shaare Zedek Medical Center, Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, Israel | <sup>2</sup>Laser Team Medical Ltd, Jerusalem, Israel | <sup>3</sup>Department of Applied Physics, Electro-Optics Engineering Faculty, Jerusalem College of Technology, Jerusalem, Israel

**Correspondence:** Yoav Gronovich ([yoavgg@gmail.com](mailto:yoavgg@gmail.com))

**Received:** 18 February 2024 | **Revised:** 29 May 2024 | **Accepted:** 1 June 2024

**Keywords:** 1940 nm | ablative | laser | resurfacing | skin rejuvenation



# Our team is a collection of engineers and medical doctors who understand the market and its needs



LTM CEO

**Pini Ben Elazar, MBA**

Veteran CEO in healthcare, led Mor Research applications, TTO of Clalit for 20 years.

Founded more than 80 startup companies.



CTO & CO-Founder

**Prof. Salman Noach**

Experienced CTO, inventor and founder of the 2 $\mu$ m solid-state laser lab at JCT, a faculty member at the physics department at JCT.



VP R&D CO-Founder

**Alon Shacham, B.Sc**

Experienced manager in medical systems, served as Platform Director at Lumenis and now leads LTM R&D.



COO

**Avi Mendelson, B.Sc**

Over 25 years of senior management in R&D and operations within startup and leading Medical Device companies (Lumenis, Candela)



# Our team is a collection of engineers and medical doctors who understand the market and its needs



CMO

**Dr. David J. Friedman, MD.**

Expert in non-surgical aesthetic and laser dermatology, with extensive experience in clinical trials and training.  
US Board Certified Dermatologist in the US and Israel. Former Assistant Professor at Brown. Medical Director of Candela Israel and Physician Trainer at Allergan Israel.



Physicist

**Neria Suliman**

Holds Bachelor's and Master's degrees in Physics/Electro-Optical Engineering. Active since 2018 in 2-micron laser development for Laser Team Medical.



Mechanical Engineer

**Boris Frenkel**

With over 30 years of experience in opto-mechanical design, including work at Visionix, Xtellus (acquired by Oclaro), and Hebrew University. Since 2013, he has provided consulting and outsourcing services. He holds an MSc in Mechanical Engineering and has ten patents and three academic publications.



Physicist

**Rotem Nahear**

Holds Bachelor's and Master's degrees in Physics/Electro-Optical Engineering. Active since 2017 in 2-micron laser development and Laser-Team company formation.



# Board of directors



Board Member

**Stuart Hershkowitz**

Experienced entrepreneur with a vast banking background.  
Chairman of the Board of JC Technologies Ltd.



Board Member

**Dr. Nissim Darwish, MD.**

Expert in MedTech, biotech, entrepreneurship, and venture capital, boosting investor relations and board guidance.



Board Member

**Miko Gilat**

Former VP Marketing at IMI, Israel's second-largest defense company. Chairman and Co-Owner of Soltam and ITL, sold to Elbit for \$100M in 2010. Currently, Chairman and Co-Owner of Mikal Ltd, with investments in 30+ high-tech companies.



Board Member

**Eyal Aviram**

CEO of Galil Ofek incubator. former Pfizer Project Leader and VP at Mor, is a seasoned CEO and innovation leader.





# Scientific advisory board



**Dr. Jeffrey S. Dover, MD**

A former Associate Professor of Dermatology at Harvard Medical School, he is the author of over 550 scientific publications and has co-authored and edited over 55 textbooks. Dr. Dover is the past president of the American Society for Lasers in Medicine and Surgery, the American Society for Dermatologic Surgery, and the New England Dermatology Society.



**Paul M. Friedman, MD**

Director of Dermatology & Laser Surgery Center in Houston. Board-certified in dermatology, he trained at NYU and completed a fellowship in dermatologic and Mohs surgery. He is recognized globally for his advancements in dermatologic laser treatments.



**Dr. Sarit Cohen, MD**

Head of the Israeli Center of Facial Sculpting, specializes in invasive and minimally invasive facial aesthetic procedures. Board-certified in plastic, reconstructive, and aesthetic surgery, she is a consultant for leading aesthetic companies and has published extensively on facial and body procedures.



**Dr. Yakir Levin, MD, PhD**

An Assistant Professor of Dermatology at Harvard Medical School and is a physician-scientist at the Massachusetts General Hospital. He maintains an active clinical practice at MGH's acclaimed Laser and Cosmetic Center and a significant research portfolio at its world-renowned Wellman Center for Photomedicine. He subspecializes in aesthetic dermatology and in the treatment of disfiguring birthmarks in children and conducts human and preclinical research studies geared toward improving these treatments



# Regulatory pathway to market success

Executed by Hogan Lovells US LLP and BioVision Ltd.

## Traditional 510(k) premarket submission

Q1 2026

Estimated time for the submission date

Q3 2026

Estimated time to receive FDA clearance

Pre-Submission meeting, to obtain the FDA's early feedback on the proposed regulatory strategy:

1

**Indications for Use:** The Epicare System is indicated for dermatological procedures requiring ablation, coagulation and resurfacing of soft tissue, including skin for the treatment of facial wrinkles.

2

**Predicate and Reference devices:**

- Primary Predicate: LASEMD Laser System (K171009)
- Reference Device: Syneron Medical Ltd. CO2RE (K151655)

3

**GLP Animal Study:** evaluation of the Safety and Efficacy of the Epicare System in Performing Fractional Skin Ablation in a Swine Model

4

**Clinical Study:** A Prospective, Interventional, Evaluator-Blinded, Single-Center Study for the Assessment of the Safety and Efficacy of Epicare for the Treatment of Periorbital Wrinkles

5

**Estimated time** for the submission of the official pre-submission to the FDA – Q2 2025



# Granted Patents

## 2 $\mu$ m Q-SWITCH Technology

Enable to achieve high energy pulses in nanosecond regime

Status: **GRANTED**

Filing date: April 2, 2018

Granted US Patent No. 10,978,850



## 1.7 to 3 $\mu$ m Tunable Q-Switch Technology

Enable to achieve different wavelengths of high energy pulses in nanosecond regime with a tunable spectral range of at least 20 nm;

Status: **GRANTED**

Filing date: May 22, 2019

Granted US Patent No. 11,791,602



## Precise control over laser medical treatments

Enable to achieve Different controlled depth and different controlled coagulation width on a human tissue (skin)

Status: **PENDING** - National phase  
(US; China; European patent office; Korea)

Filing date: Aug 29, 2023

Pending PCT Application No. PCT/IL2023/050915



## Special laser pulse scanning to achieve fast treatment

Enable to achieve ultra fast treatment on treated area

Status: **PENDING PCT**

Filing date: Jan 25, 2024

Pending PCT Application No. PCT/IL2024/050100



# Pending Patents

Laser-focused on growing our business with

## Additional applications and markets



### Gynecology

Vaginal  
rejuvenation  
and more



### Ophthalmology



### ENT

Middle ear surgery,  
stapedotomy  
Laryngeal cancer,  
and more



### Brain Surgery

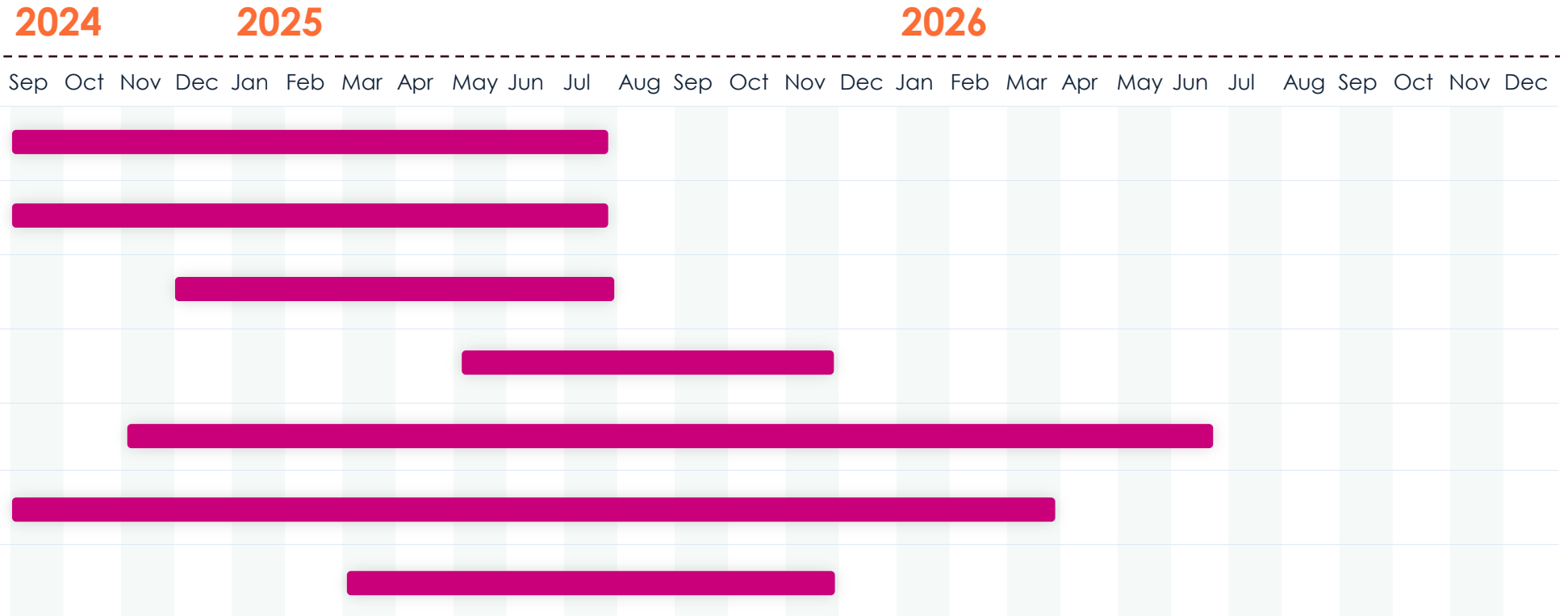


### Drug Delivery

Enhanced trans  
dermal drug  
delivery



# Roadmap



\* Estimated ending time is July 2026





# An Innovation Authority grant is a good start, now we're ready to scale...

In September 2024, we received a grant that supports us for the next 2 years by The Israel Innovation Authority



With your investment, we will be able to scale this groundbreaking technology and redefine the future of the aesthetic laser market.





## Invest in Epicare

The game-changing innovation the laser market has been waiting for!

# Thank You!

[pinib@lasertm.com](mailto:pinib@lasertm.com)



**LASERTEAM**  
Medical laser technology