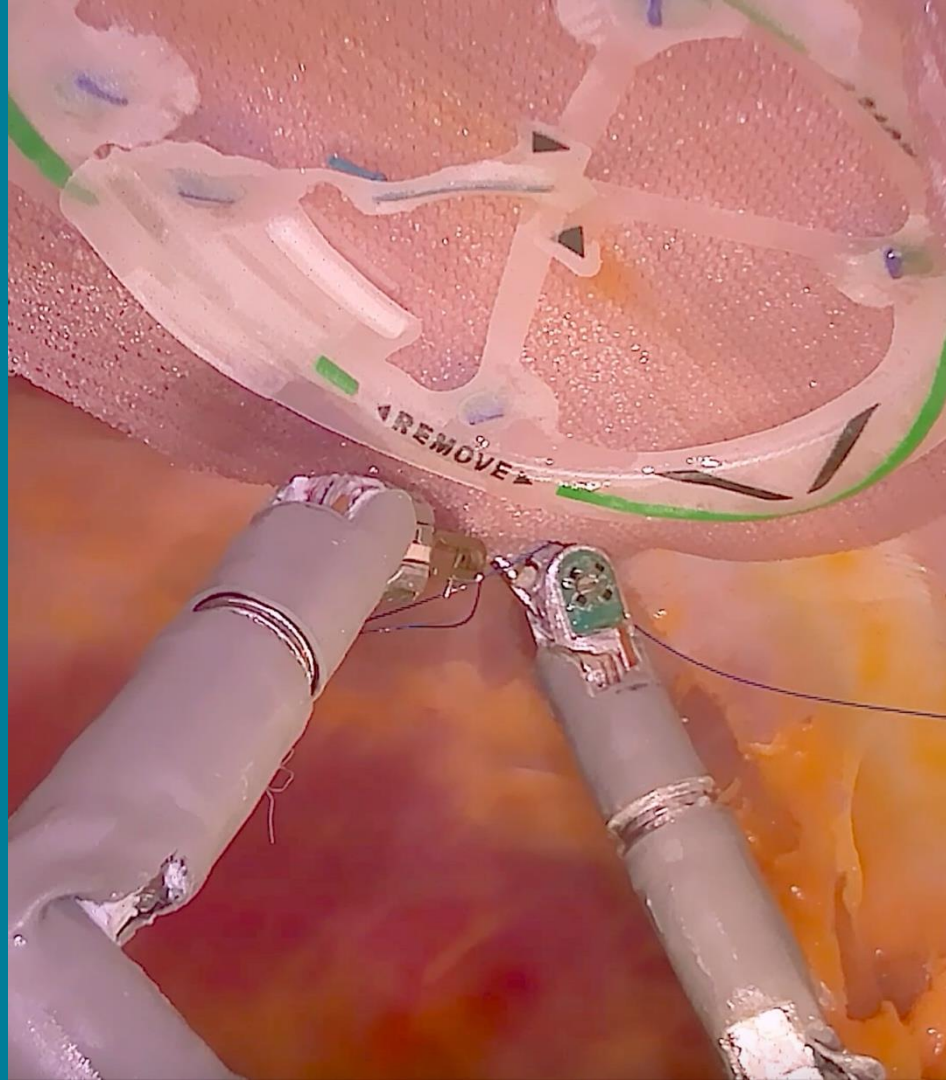




Transforming Surgery: *Open-like Access, Minimally Invasive*





Legal Disclaimers

This presentation includes “forward-looking statements” within the meaning of the “safe harbor” provisions of the United States Private Securities Litigation Reform Act of 1995. Vicarious Surgical’s actual results may differ from its expectations, estimates, and projections and, consequently, you should not rely on these forward-looking statements as predictions of future events. All statements other than statements of historical facts contained herein, including without limitation, expected development timelines, estimated total addressable market, the potential benefits of the Vicarious Surgical System compared to existing alternatives, and potential indications, are forward-looking statements that reflect the current beliefs and expectations of management. These forward-looking statements involve significant risks and uncertainties that could cause the actual results to differ materially from those discussed in the forward-looking statements. Most of these factors are outside Vicarious Surgical’s control and are difficult to predict. Factors that may cause such differences include, but are not limited to: the ability to maintain the listing of Vicarious Surgical’s Class A common stock on the New York Stock Exchange; the approval, commercialization and adoption of Vicarious Surgical’s initial product candidates and the success of its single-port surgical robot, called the Vicarious Surgical System, and any of its future product candidates and service offerings; changes in applicable laws or regulations; the ability of Vicarious Surgical to raise financing in the future; the success, cost and timing of Vicarious Surgical’s product and service development activities; the potential attributes and benefits of Vicarious Surgical’s product candidates and services; Vicarious Surgical’s ability to obtain and maintain regulatory approval for the Vicarious Surgical System, and any related restrictions and limitations of any approved product; the size and duration of human clinical trials for the Vicarious Surgical System; Vicarious Surgical’s ability to identify, in-license or acquire additional technology; Vicarious Surgical’s ability to maintain its existing license, manufacture, supply and distribution agreements; Vicarious Surgical’s ability to compete with other companies currently marketing or engaged in the development of products and services that Vicarious Surgical is currently marketing or developing; the size and growth potential of the markets for Vicarious Surgical’s product candidates and services, and its ability to serve those markets, either alone or in partnership with others; the pricing of Vicarious Surgical’s product candidates and services and reimbursement for medical procedures conducted using its product candidates and services; the company’s estimates regarding expenses, revenue, capital requirements and needs for additional financing; Vicarious Surgical’s financial performance; economic downturns, political and market conditions and their potential to adversely affect Vicarious Surgical’s business, financial condition and results of operations; Vicarious Surgical’s intellectual property rights and its ability to protect or enforce those rights, and the impact on its business, results and financial condition if it is unsuccessful in doing so; and other risks and uncertainties indicated from time to time in Vicarious Surgical’s filings with the Securities and Exchange Commission. Vicarious Surgical cautions that the foregoing list of factors is not exclusive and cautions readers not to place undue reliance upon any forward-looking statements, which speak only as of the date made. Vicarious Surgical does not undertake or accept any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements to reflect any change in its expectations or any change in events, conditions or circumstances on which any such statement is based.

All surgical images contained in this presentation are sourced from cadaveric procedures.



Redefining Access, Expanding Markets & **Advancing to Commercialization**

Open-like Access, Minimally Invasive:

Single-port, 18 mm trocar, open-surgery reach & dexterity.

Large Untapped Market: >5.6M U.S.

abdominal procedures annually, with 82 % still performed open or laparoscopic.¹

Proprietary Technology & IP Moat: 160 patents granted & pending²; including decoupled actuators & 13-DOF³ instruments.

On the Path to Commercialization: Multiple controlled builds completed; advancing to design freeze & production-equivalent system.

“Large market, protected technology, and clear path to launch.”

1: VS ESTIMATES FROM 2021-2024 LSI GLOBAL MARKET DATA AND 2019 BANK OF AMERICA GLOBAL MARKET RESEARCH. INCLUDES HERNIA, GALLBLADDER, GI & GYNECOLOGIC PROCEDURES.

2: 50 GRANTED/ALLOWED, 110 PENDING

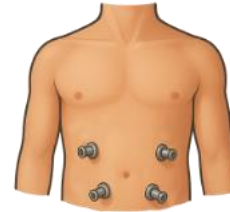
3. DOF=DEGREES OF FREEDOM

Today, Surgeons Choose Between *Anatomical Access* & *Invasiveness*



Open Surgery

Full anatomical access, but high complications and difficult recovery.



Minimally Invasive Surgery

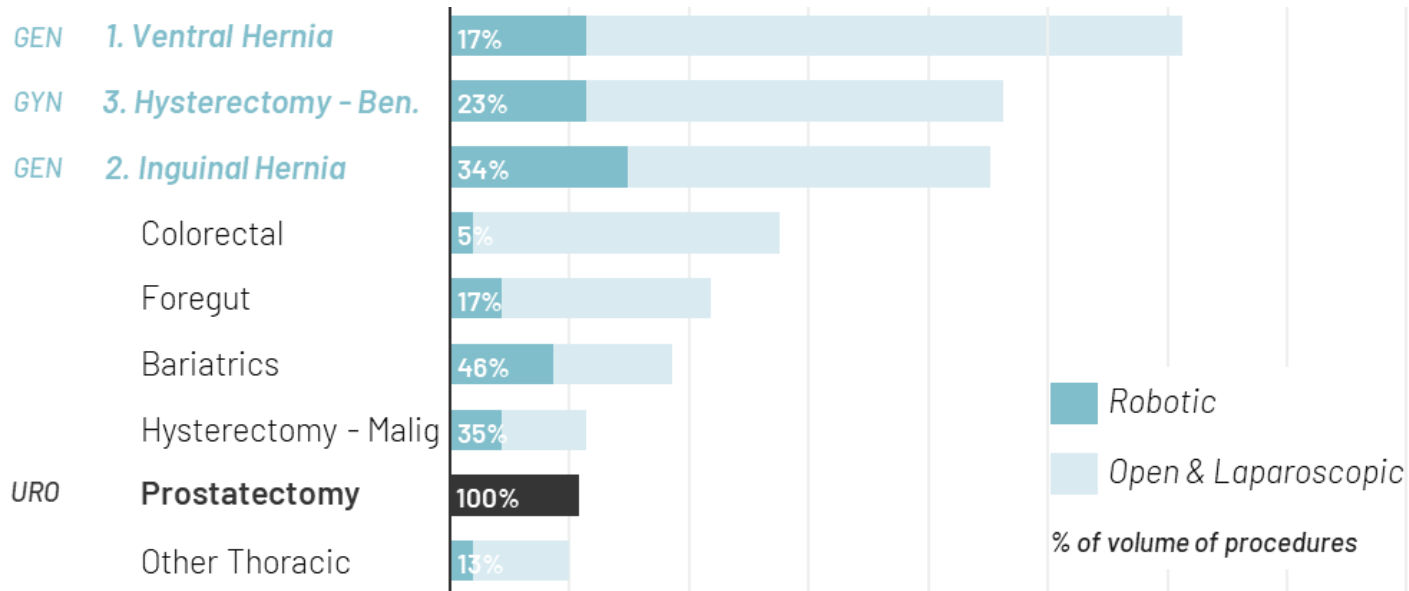
Small incisions, but limited anatomical access, visualization and reach, especially in the abdomen.

Result: Many abdominal surgeries are still performed open, despite the known and agreed upon benefits of MIS.

"We eliminate the tradeoff: open-surgery experience through a single incision."

Beyond Prostatectomy: Adoption Drops Sharply

Data collected from a center of excellence partner hospital system (24 Midwest hospitals).



First 3 indications Vicarious Surgical seeks.



Legacy Robot Adoption is Heavily Concentrated in Prostatectomy *Not By Design, But By Limitation*

Current Robotics:

Built as a General-Purpose System

Multi-port entry, rigid arms, and limited freedom of motion.

One size fits all approach.

Prostatectomy:

The Dominant Robotic Procedure

>95% adoption rate¹

Confined pelvic anatomy aligns with robot's strengths:

- Operates well in a small, narrow space
- Straightforward setup & triangulation
- Stable visualization
- Tremor reduction

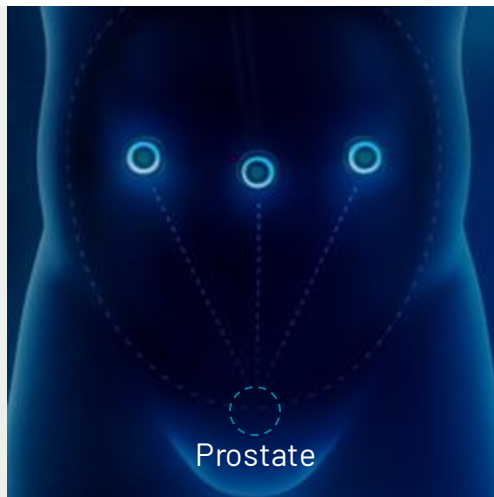
"There is potential upside in procedures that don't fit existing systems."

One Small Incision. Unlimited Access.

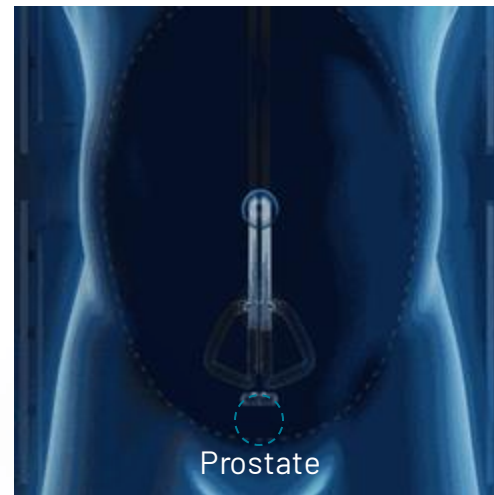
Open Surgery Access – Through a Single, Small Incision

In prostatectomy, the limitations of current robotic systems are reduced

- Narrow working space simplifies triangulation of rigid, straight instruments
- Multi-quadrant abdominal access not required



Current Robotic Systems

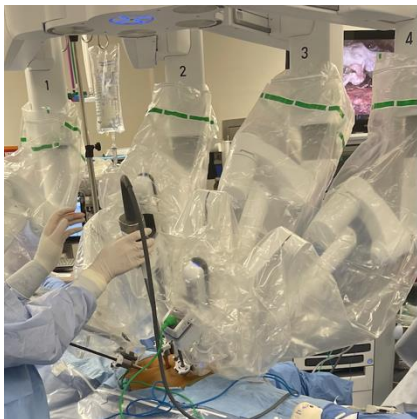


Vicarious Surgical

*"We are **redefining robotic surgery** – expanding access to millions¹ of procedures beyond the reach of today's systems."*

Simplify access, *Amplify Performance.*

Current Robotic Systems



Multi-Port Docking is Cumbersome:

- Pre-op planning required
- External and internal collisions
- Poor bedside access
- Incision site trauma

Vicarious Surgical



Single-Port Docking is Efficient:

- No pre-op planning
- Collision free surgery
- Superior bedside access
- Limited incision site trauma

"Single-Port docking may streamline setup and improves procedural efficiency compared with traditional multi-port docking."

Streamlined Capital Equipment: *Just Two Components*

Patient Cart

compact footprint, easy integration



Surgeon Console

with integrated display, no vision cart required



Two components instead of three. Simpler. Lower cost. Less clutter

Surgeon Console Spotlight



Immersive 3D Visualization



Ergonomic Adjustability



Familiar Hand Controllers



Designed with function and comfort at the forefront.

Patient Cart Spotlight



Streamlined Docking & Setup



Single Port Eliminates Instrument Collisions



Unrestricted Patient Access



Designed with bedside access in mind.

One Small Incision. Unlimited Access.

Open Surgery Access – Through the Smallest¹ Incision



Decoupled actuators enable additional intra-abdominal joints with **advanced dexterity and anatomical reach.**



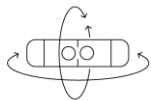
360° camera articulation with 120° field of view provides **expanded visualization of the operative field & self cleaning.**



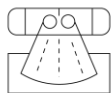
Instrument arms generate high forces needed for a **broad range of soft-tissue indications.**

"Unique dexterity, visualization, and strength, all through the smallest¹ incision."

Camera Spotlight

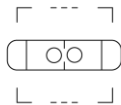


Unprecedented Range of Motion



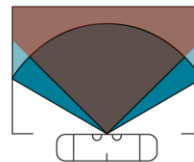
Best in Class Visual Performance

- Immersive, natural depth perception
- Wider field of view compared to competitors

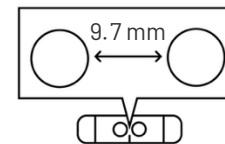


Self Cleaning

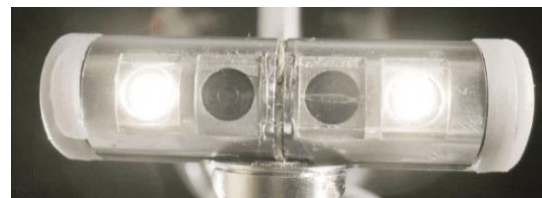
- Improves efficiency of surgical workflow



VS Camera: 120° FOV



Extended Interaxial Lens Distance



Physician can see the entire abdomen with immersive clarity all from a single access point.

Instrument Spotlight



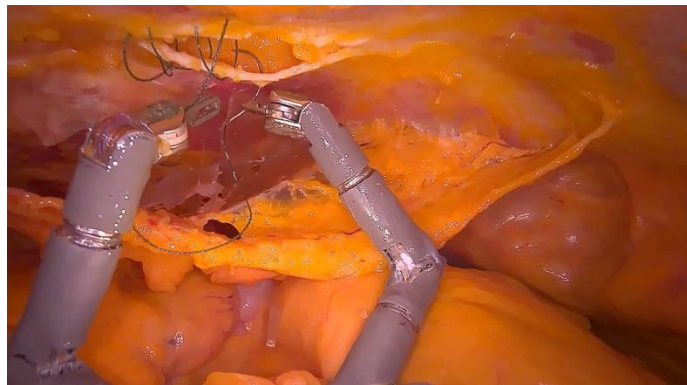
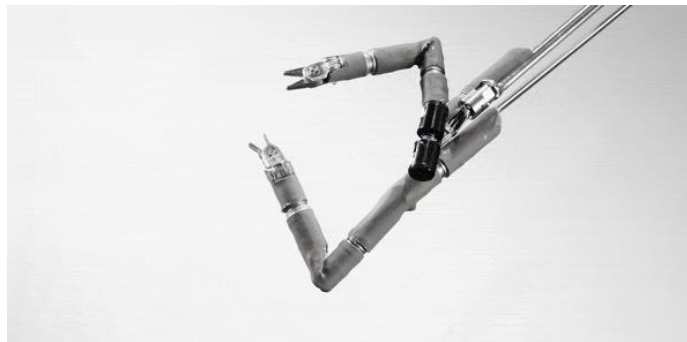
Precision & Control



Unmatched Access, Reach & Strength



28 Sensors Per Arm Provides a Rich Set of Data for Future Advancements



Putting the wrists, elbows, and shoulders within the abdomen provide access to all desired anatomical locations.

Why Vicarious Surgical is Different: *Maneuverability & Vision.*



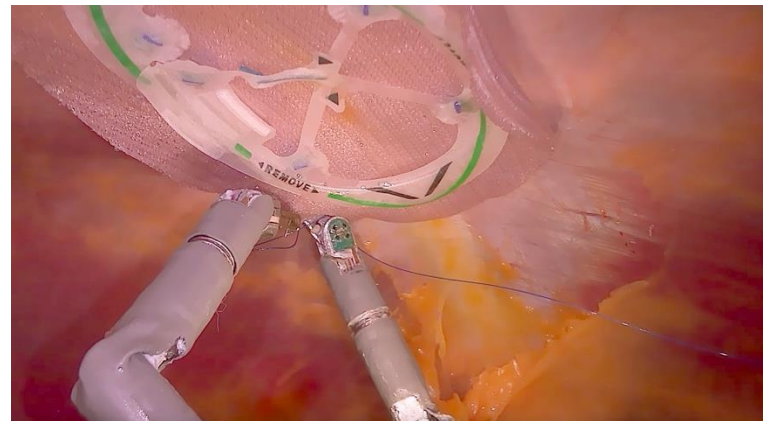
**Conventional
Laparoscopy**

- ✗ Like chopsticks, limited motion
- ✗ Assistant driven rigid scope



**Da Vinci /
Multi-port RAS**

- ✗ Chopsticks with wrists, added dexterity
- ✗ Robotic driven rigid scope



Vicarious Surgical

- ✓ Miniaturized shoulders, elbows and wrists, as if a full arm was operating inside the abdomen
- ✓ Fully articulating robotic camera enables full abdominal visualization

"Unmatched Dexterity + Breakthrough Vision = A Step Change in Robotic Surgery."

Motion Profile Spotlight



Intelligent Motion Control



Minimal Learning Curve



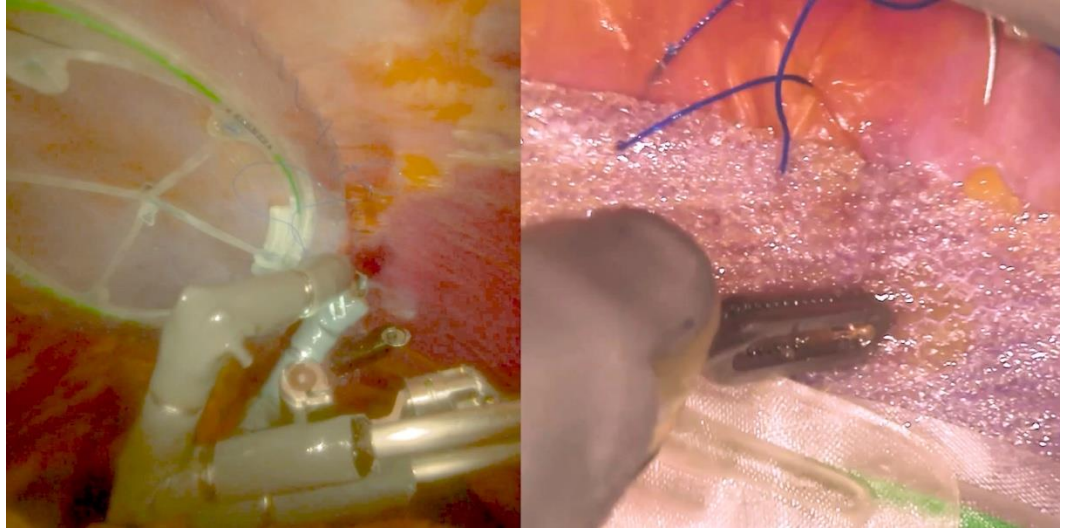
Multi-quadrant Access



Seamless, intelligent motion control providing an efficient and effective user experience.

Redefining Robotic Surgery To *Address What Matters Most*

Miniaturization of the full robotic arms and camera within the abdomen provides unmatched efficiency, limitless anatomic access, and immersive visualization all through a single small port – creating a new standard for **scalable, high-performance surgical robotics**.



Through technological innovation, Vicarious Surgical will convert open abdominal procedures to MIS.

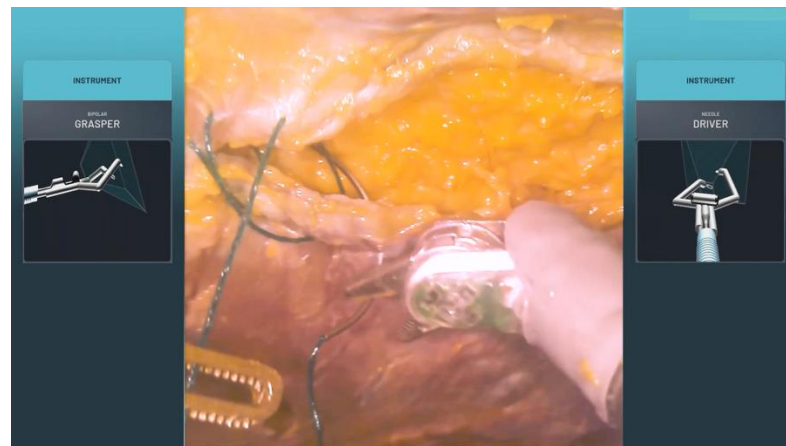
We Are Launching in *Ventral Hernia Repair*

Starting Where Others Can't Go: Redefining Abdominal Access

With the ability to work up, down and even backwards, *Vicarious Surgical can reach areas of the abdominal wall that are currently difficult or even impossible with other systems.*

The anterior abdominal wall is a conundrum for “straight”, rigid technology and as a result *66% of all Ventral Hernias in the U.S. are still performed open.*¹

Vicarious Surgical's unique capabilities may lead to *better patient outcomes and operational efficiency in a procedure where it matters most.*



Cadaveric IPOM+ Procedure, Dr. Igor Belyansky

“Unlocking ventral hernia repair, enabling access to 66% of cases still performed open.”



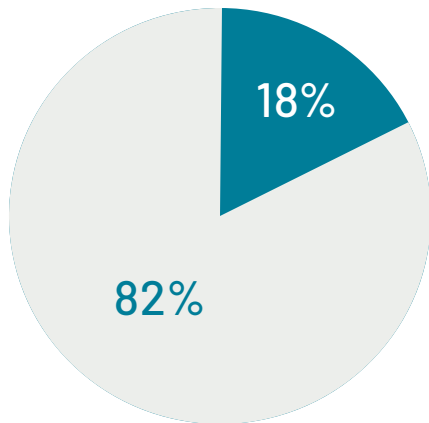
We Are *Addressing Procedures* That Are Not Currently Being Done with Today's Robotics

Indications:

Hernia, Gallbladder, GI, Gynecology.

Why:

- Current robotics:
limited anatomical access with a steep learning curve
- Vast majority of these procedures are still performed open, leading to a **large white-space opportunity**



5.6 Million

abdominal procedures
performed annually in the US¹

82%

are still non-robotic¹

*Vicarious Surgical is expanding the TAM for
robotic surgery, not fighting for a slice of the current pie.*












Vicarious Surgical is Positioned for a Different TAM



Vicarious Surgical Competitive Landscape*



	Invasiveness (Incisions)	Anatomical Access (DOF)	Visualization & Display	OR Integration (# Capital Components)	Operational Efficiency	Technical Innovation/Novelty
	Single, 18mm	13 DOF, All Quadrant access	360° camera, 120° FOV, 3D, Self Cleaning	2	Easy 1 arm set-up, portable	Least invasive, single incision w/ greatest range of motion
	Four, 8-12mm	7 DOF, Multi Quadrant access	0/30° camera, 80 degree FOV, 3D	3	Challenging multiple arm set-up, stationary	First to Market surgical robotic platform
	Single, >25mm	7 DOF, Multi Quadrant access	0/30° camera, 73 degree FOV, 3D	3	Challenging single arm set-up, stationary	First to Market single incision surgical robotic platform
	Four, 8-12mm	7 DOF, Multi Quadrant access	0/30° camera, unknown FOV, 3D	6	Cumbersome multiple cart/arm set-up and mobility	"Me too" Multi-cart platform
	Four, 5-12mm	7 DOF, Multi Quadrant access	0/30° camera, 81 degree FOV, 3D	5	Cumbersome multiple cart/arm set-up and mobility	"Me too" Multi-cart platform
	Four, 5-12mm	7 DOF, Multi Quadrant access	0/30° camera, unknown FOV, 3D	5	Cumbersome multiple cart/arm set-up, stationary	"Me too" Multi-cart platform "Lap instrument controllers"
	TBD	7 DOF, Multi Quadrant access)	Unknown	4	Cumbersome multiple cart/arm set-up and mobility	"Me too" Multi-cart platform
	Single, >25mm	6 DOF, Multi Quadrant access	Flexible tip camera, Unknown FOV, 2D	3	*Easy 1 arm set-up, portable	Reusable robotic arm
	Two, 8mm + 2 lap instruments	7 DOF, Multi Quadrant only w/ additional lap instruments	Utilizes legacy 0/30 degree laparoscope	4	Cumbersome multiple cart/arm set-up and mobility	Hybrid Lap/Robotic

*Source: Publicly available on company websites



Our Proprietary Technology is Secured By A *Comprehensive IP Portfolio* Covering All Major System Innovations¹

Full Anatomical Access

Decoupled Actuators 17	9 DOF Instruments 37	Intra-abd. motion 38	Single Port Insertion 18
Camera Cleaning 5	360° Visualization 39	Surgeon Interface 21	AI & Automation 15

30 granted/allowed patents

87 pending

117 total protections filed

Enhanced Visualization

Ease of Use

¹: PATENT APPLICATIONS MAY CLAIM MORE THAN ONE FEATURE.



Trusted by *Leading Visionary Investors*

**Backed by the world's most
forward thinking investors.**

Leading strategic investors validate
Vicarious Surgical's vision of
expanding the future of robotic
surgery and advancing minimally
invasive care.

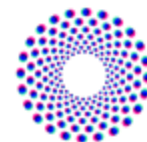
AME CLOUD
VENTURES

BILL GATES

khosla ventures



innovation
endeavors



E15VC

Visionary investors share our belief:

Vicarious Surgical will expand robotic surgery into millions of new procedures.



From Engineering to Production

Transitioning from controlled builds to regulatory pathway & clinical testing.

Deliberate Progress Toward Clinical Readiness

November 2022

November 2024

April 2025

2026



1. Beta 2

Established feasibility of core kinematics & vision.

- Proof of concept demonstrated
- Instrument range of motion validated



2. EV2

Incorporated surgeon feedback from Beta 2.

- Reduced instrument size
- Improved camera field of view
- Redesigned patient cart boom



3. pDV

Proved reliability, repeatability, formative testing.

- Biocompatibility & sterilization assessed
- Ship testing
- First builds under full Quality Management System (QMS)



Production-Equivalent

Performance at intended specs

- Designed for manufacturability
- Ready for clinical use and commercialization

Increasing functionality & decreasing risk

Two Controlled Builds: *Foundation for Scale*



Vicarious Surgical achieved one of the most important milestones in the development of our robotic surgical platform

- **April 2025:** First controlled build → fully documented, traceable, auditable.
- **August 2025:** Rebuilt faster and more efficiently → demonstrated reproducibility & scalability.
- **Outcome:** Confidence in platform integration scalability.



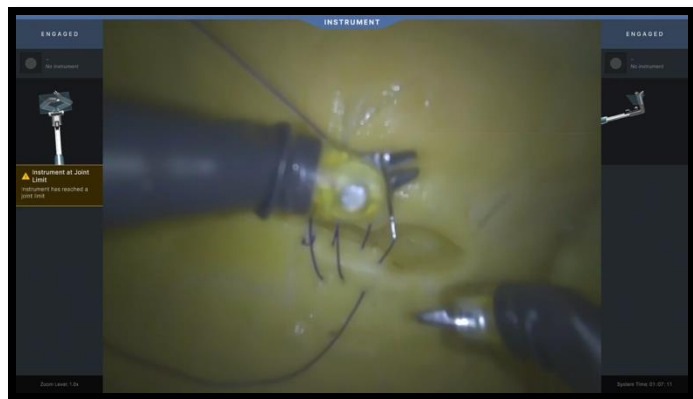
Progressing Toward Clinical-Grade System



The first system built to a standard suitable for regulatory testing and clinical use.

- Steady incorporation of remaining design requirements.
- Functionality increased from **49% (June)** → **63% (Sept)** → **70% (Oct)** → **clear path toward 100%***.
- **2026 milestone:** First production-equivalent version of the platform.
- Built under full manufacturing & quality standards, foundation for regulatory testing & clinical trials.

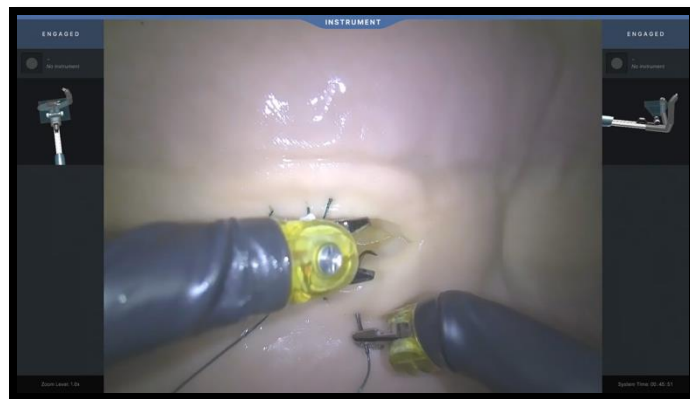
Demonstrated Improvements: Camera Performance



8/19 Syndaver lab with KOL Dr. Belyansky



**Camera focus and fogging
issues resolved**



9/16 Syndaver lab with KOL Dr. Belyansky

Demonstrated Improvements: Instrument Precision & Reliability



8/19 Syndaver lab with KOL Dr. Belyansky, pDV System

- 45 Minute mesh fixation time
- 1 IPOM completed
- 3 broken arms



**Improved surgical
efficiency**



11/4 Syndaver lab with KOL Dr. Belyansky, pDV System

- 13 Minute mesh fixation time
- 3 IPOM's completed
- 0 broken arms



"The progress in the last six months has been exceptional. Instrument reliability and precision have taken a major leap forward – giving me consistent, confident control in complex maneuvers. This system is quickly reaching a level of performance that can truly change abdominal surgery."

– Igor Belyansky, MD

**Director, Abdominal Wall Reconstruction Program
Anne Arundel Medical Center**

Next Phase: De-Risked Entry Into Clinical Testing



- **Year-End 2026:** Clinical Readiness milestone → all requirements frozen, hardened system, stable and reliable.
- **2027:**
 - Entering **regulatory V&V** from a de-risked position (continuous verification & usability testing already done).
 - Human factors, usability, and safety studies.
 - **Human clinical trials** → generate data to support De Novo submission & market authorization.



Vicarious Surgical: *Bringing An Open-Surgery Experience to Robotics*

Join Us In Transforming Surgery For Millions Of Patients Worldwide

Vicarious Surgical
78 Fourth Avenue
Waltham, MA 02451
US

ir@vicarioussurgical.com