ASENSUS SURGICAL



41ST ANNUAL J.P. MORGAN HEALTHCARE CONFERENCE

Anthony Fernando, President & CEO Shameze Rampertab, EVP & CFO

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Forward Looking Statements

This presentation includes statements relating to the Senhance[®] Surgical System's market development and a general corporate update for Asensus Surgical. These statements and other statements regarding our future plans and goals constitute "forward-looking" statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, and are intended to qualify for the safe harbor from liability established by the Private Securities Litigation Reform Act of 1995. Such statements are subject to risks and uncertainties that are often difficult to predict, are beyond our control, and which may cause results to differ materially from expectations. Factors that could cause our results to differ materially from those described include, but are not limited to, whether we can successfully advance our Performance-Guided Surgery[™] initiative, the market development activities related to the Senhance Surgical System will be successful, the pace of adoption of our products by surgeons will increase, the success and market opportunity of our products, the impact of the ongoing pandemic on our business and our customers, the effect on our business of existing and new regulatory requirements, and other economic and competitive factors. For a discussion of the risks and uncertainties associated with the Company's business, please review our filings with the Securities and Exchange Commission (SEC). You are cautioned not to place undue reliance on these forward-looking statements, which are based on our expectations as of the date of this presentation and speak only as of the origination date of this presentation. We undertake no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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We believe in digitizing the interface between the surgeon and patient to pioneer a new era of Performance-Guided Surgery by unlocking the Clinical Intelligence to enable consistently superior outcomes and a new standard of surgery.

The Reality of Surgery

1 in 5 patients undergoing surgery has 1 or more complications*





Overall profit margin decreased from 5.8% for patients without complications to 0.1% for patients with complications.**

Essentially, hospitals make no money if there is a complication.



* Eelke Bosma, MD, et al. Variable impact of complications in general surgery: a prospective cohort study. Can J Surg. 2012 Jun; 55(3): 163–170. [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3364303/] ** Barry Rosenberg, MD, MBA1; Bennett Lane, MS2; Atul Gawande, MD, MPH3. Economic Impact of Surgical Complications on Hospitals. JAMA Surg. 2016;151(11):1090-1091. doi:10.1001/jamasurg.2016.2308

We Expect More From Surgery

The Future Requires Different Capabilities and a Holistic Approach.

Asensus is Uniquely Positioned to Deliver This.



Increase safety for better outcomes which lead to better patient and provider satisfaction



Reduce surgical variability and factors that contribute to poor outcomes



Guide surgeons to successfully navigate when unexpected events occur to effectively reduce surgical errors and complications



Provide real-time clinical intelligence and capabilities to create more predictable outcomes to meet value-based care constraints

Senhance Surgical System: Surgery Reimagined

Building The Bridge From Laparoscopy To Performance-Guided Surgery





Digitizing the Interface Between Surgeon and Patient

Delivering **Digital Laparoscopy** By Maintaining Familiar Motion, Tools, and Techniques



• 3DHD Visualization

 Provides surgeon with additional perception regarding depth and spatial recognition

• Eye-Tracking Camera Control

- Camera movement controlled by surgeon's eye gaze
- Eliminates the need to manually adjust camera during a procedure

Haptic Feedback

- Only available on Senhance
- Natural sensation of pressure and tension
- Real-time sensory feedback
- Unparalleled level of safety

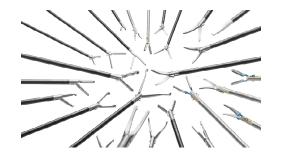


Digitizing Laparoscopic Instrumentation

Broad Instrumentation Portfolio Adds Unique Advantages For Surgeons And Patients

Core Laparoscopic

Broad portfolio of robotic lap instruments



- 70+ instruments
- Wide applicability
- Fully Reusable

3mm

A new standard in robotic MIS



- Only platform with 3mm
- Reduction in invasiveness
- Potential reduction in post-operative pain
- Enables pediatric surgery

Articulating

Access to difficult-toreach anatomy



- Two additional degrees of freedom
- Wrist-like manipulation
- Key surgeon preference item

Ultrasonic

Providing precise advanced energy



- Effectively ligate and divide tissue
- Minimizes injury to anatomy





Compelling Hospital Economics

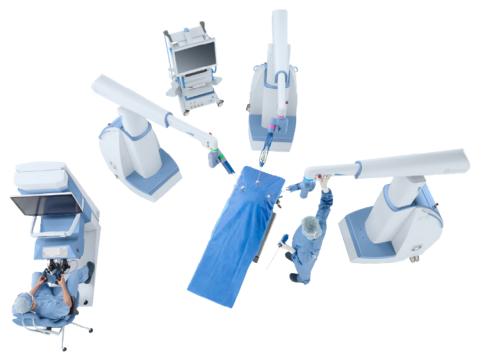
Purpose-built solution to drive down per-procedure costs associated with robotics

Reducing Per-Procedure Costs

- Fully reusable instruments enable lower per-procedure economics:
 - In-line with traditional laparoscopy
 - Significantly lower than competing robotic systems
- O.R. time in line with competitive robotic systems

Flexible System Costs

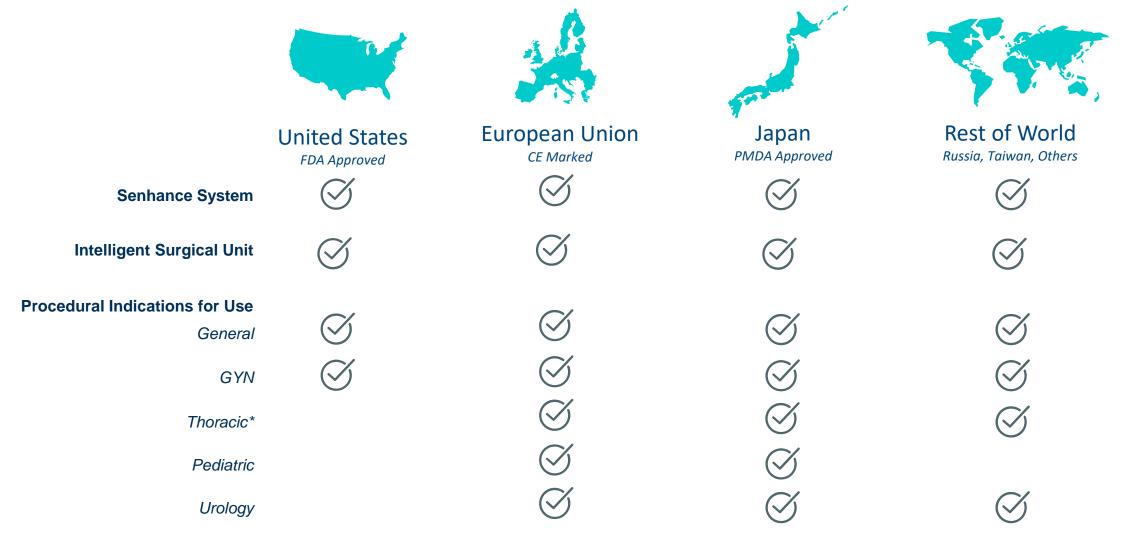
- Multiple system acquisition economic models:
 - Leasing and lease-to-buy options available
 - Competitive robotic system cost





Robust Global Applicability

>16 Million Global Annual Addressable Procedure Market

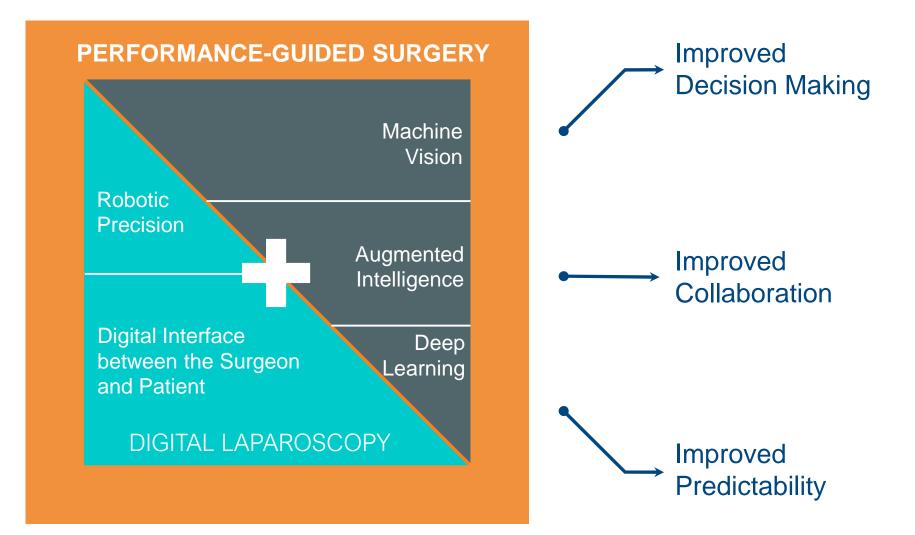




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Performance-Guided Surgery (PGS)

Improving Decision Making, Collaboration, and Predictability

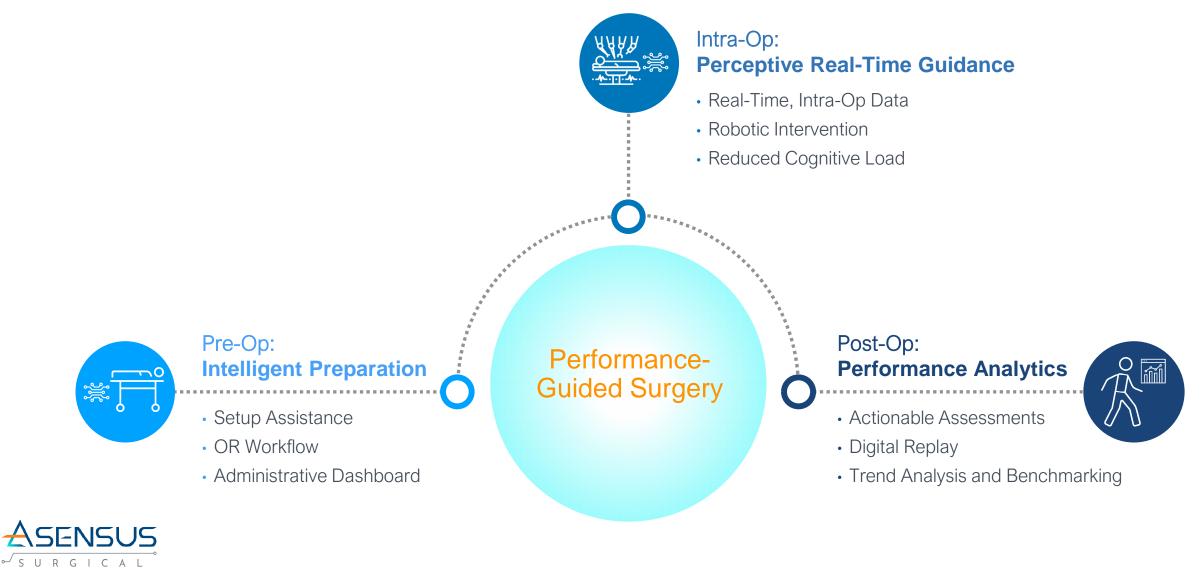




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Clinical Intelligence Powering Peak Performance

PGS Improves Decision Making, Collaboration, and Predictability



ISU: The First Machine Vision System In Minimally Invasive Surgery

Laying The Foundation For Digitizing Surgery → Enabling The Future of Performance-Guided Surgery

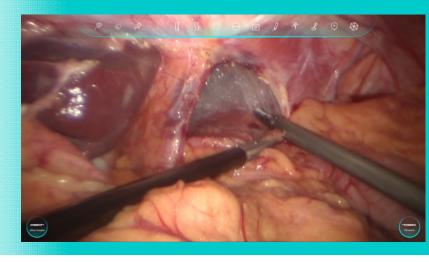


1st ever augmented intelligence system to deliver real-time intraoperative digital tools to surgeons

- Enhanced camera control
- 3D measurement
- Digital tagging
- Image enhancement



Vision Based Real-Time 3D Point to Point Measurement



Real-Time Defect Identification and Sizing

ISU – Intelligent Surgical Unit TM, Some features are still in development and the safety or effectiveness of these features have not been establishe



Our Path To Market Leadership

Delivering A New Era In Digital Surgery





Increase global procedure volumes



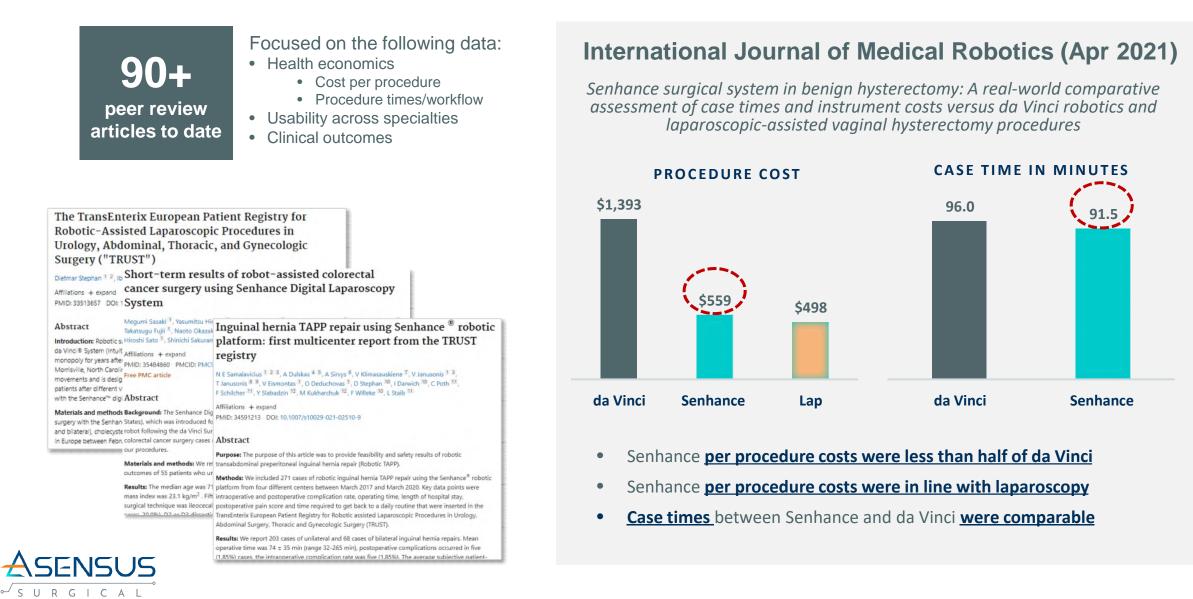
Advance digital capabilities through data collection & analysis

4 Expand the portfolio



Educating Surgeons On The Benefits Of Senhance

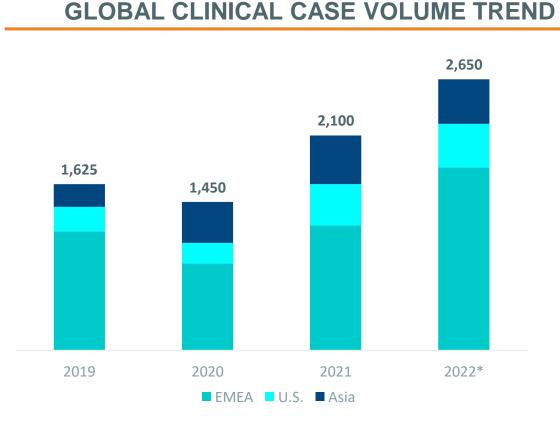
Grow Compelling Set of Data to Demonstrate Clinical and Economic Value

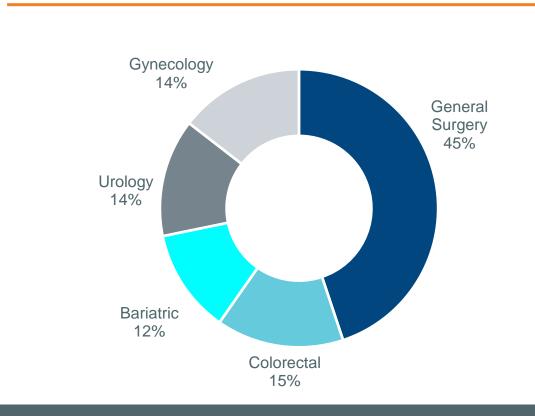


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2 Increasing Global Procedure Volumes

Senhance Demonstrating Strong Clinical Performance Across The Three Major Geographies





2022* CASE MIX

Accelerating procedure volumes

Utilization across multiple specialty areas, demonstrating broad applicability and adoption



* 2022 Preliminary

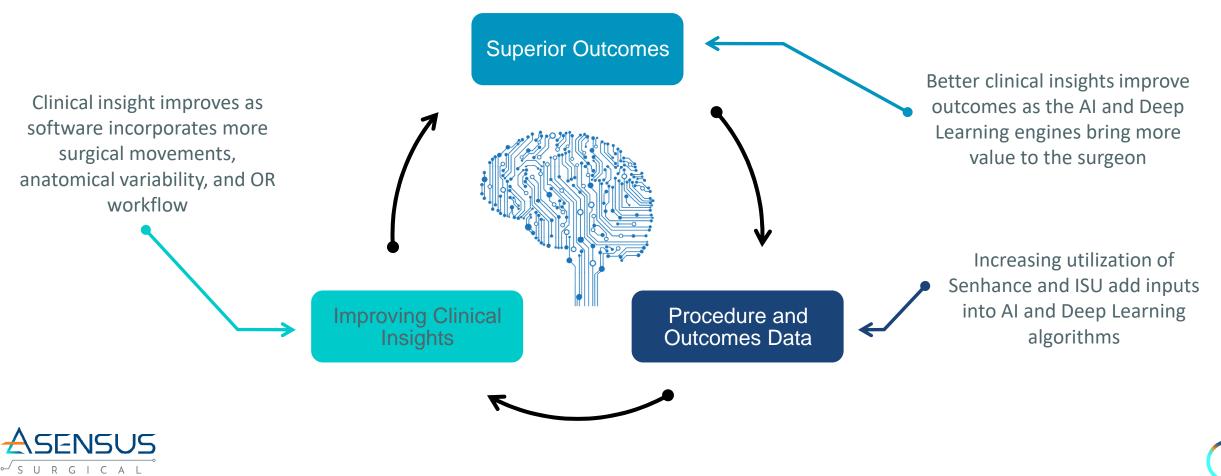
+26%

over 2021

3 Advancing Digital Capabilities Through Data Collection & Analysis Increasing Surgical Data Improves Clinical Insight and Drives Consistently Superior Outcomes

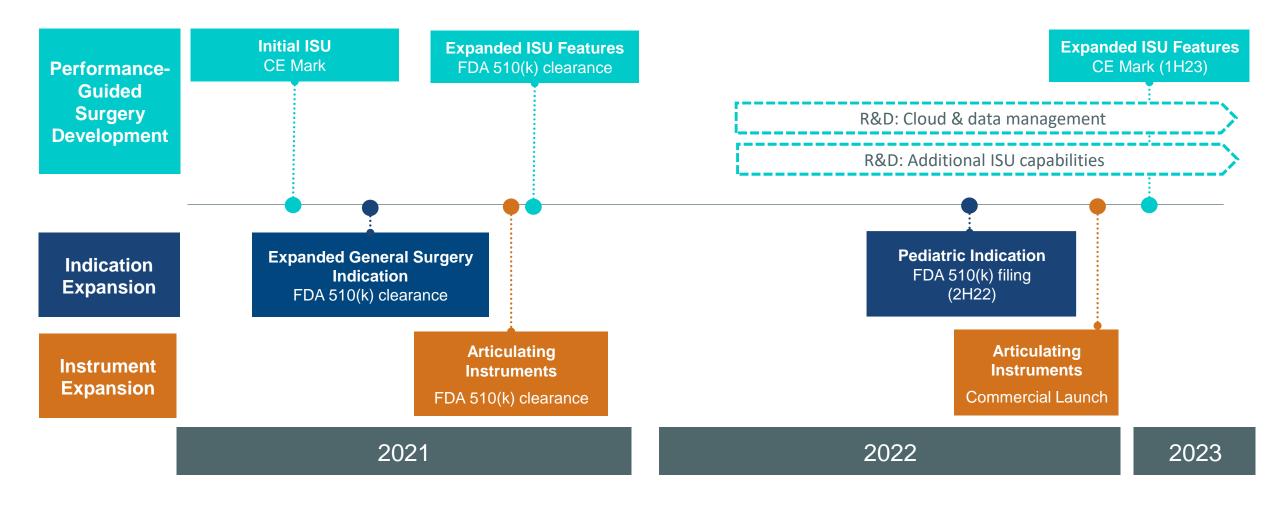


Augmented Intelligence & Deep Learning Engine



4 Expanding The Portfolio

Broadening Applicability Through Digital Technology, Regulatory And Instrument Expansion





2022 Business Update



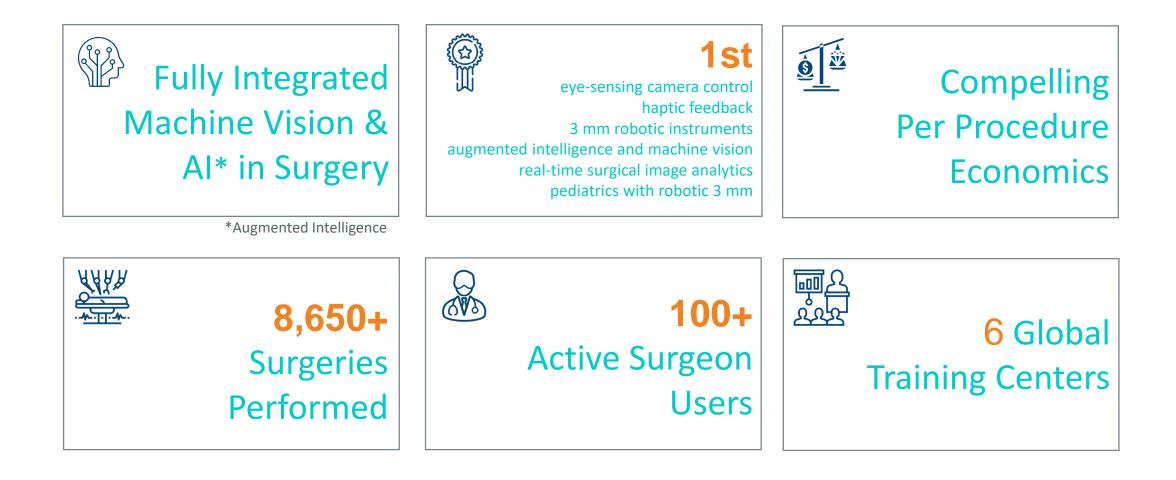
2022 Performance (Unaudited)

- Over 2,650 procedures were performed globally +26% over prior year
- Revenue: ~\$6.8-\$7.4 million
- Nine Senhance Surgical placements initiated
- Submitted FDA 510(k) application for pediatric indication in the U.S.
- December 31, 2022 Balance Sheet Highlights
 - Cash, cash equivalents, short-term and long-term investments ~\$74.4 million
 - No Debt



Asensus Surgical (NYSE American: ASXC)

Early-Commercial Stage Company Developing the Future of Surgery





Asensus Surgical NYSE American: ASXC

Information for Investors

Visit our IR Website: ir.asensus.com/

IR Contact: invest@asensus.com

Sign Up for IR Email Alerts: ir.asensus.com/email-alerts

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Clinical Resources

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