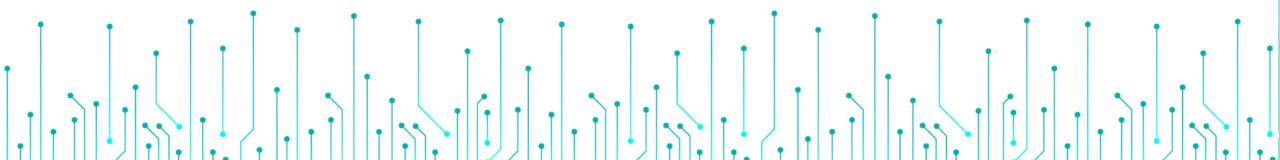




Anthony Fernando, President & CEO Shameze Rampertab, EVP & CFO

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 "forwardlooking 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 forwardlooking 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.





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.

Asensus Surgical (NYSE American: ASXC)

Early-Commercial Stage Company Developing the Future of Surgery







100+ Active Surgeon

Users



39 Active Clinical Sites in US, EU & Asia



6,000+Surgeries
Performed



Compelling Per Procedure Economics



1st

eye-sensing camera control
haptic feedback
3 mm robotic instruments
augmented intelligence and machine vision
real-time surgical image analytics
pediatrics with robotic 3 mm



Strong Talented Global Team & Infrastructure



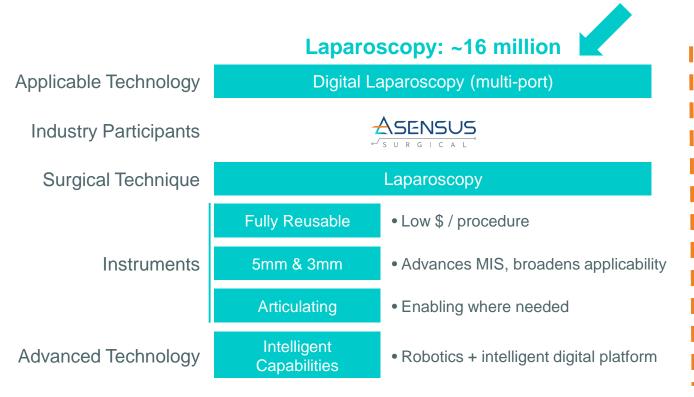
* Augmented Intelligence



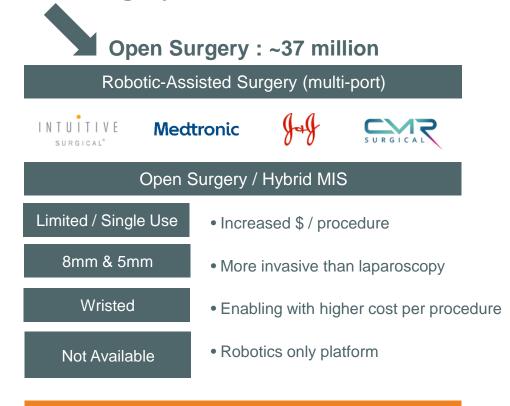
We Are Uniquely Focused on Laparoscopy and Why That Matters

An Opportunity And Need To Create Value Beyond Robotics

Global Soft Tissue Abdominal Surgery Market



Senhance is the only platform able to address the conversion of laparoscopy by leveraging standard laparoscopic tools, digital information and decision support tools



< 5% robotic penetration after 20+ years

Competitors are following the Da Vinci model and focusing on open surgery conversion





Senhance System Addresses Key Challenges Facing Hospitals and Surgeons

Building The Bridge From Laparoscopy To Performance-Guided Surgery





Digitizing Laparoscopic Instrumentation

Broad Instrumentation Portfolio Adds Unique Advantages For Surgeons And Patients



Developed broad instrument portfolio with 70+ instruments in the catalog

New standard in minimally invasive robotic surgery with 3mm instruments

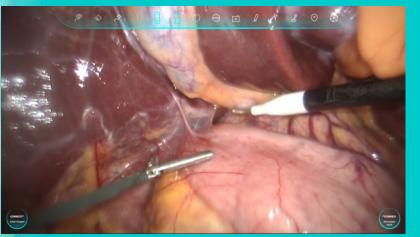
Reusable instruments enable compelling per procedure economics



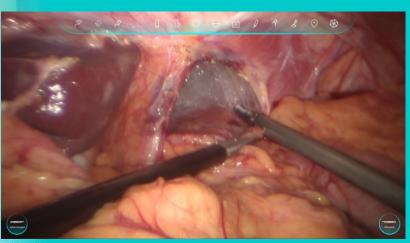
ISU: The First Machine Vision System In Minimally Invasive Surgery

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





Vision Based Real-Time 3D Point to Point Measurement



Real-Time Defect Identification and Sizing



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

Senhance Connect

Mobile In-OR Surgeon Communication System







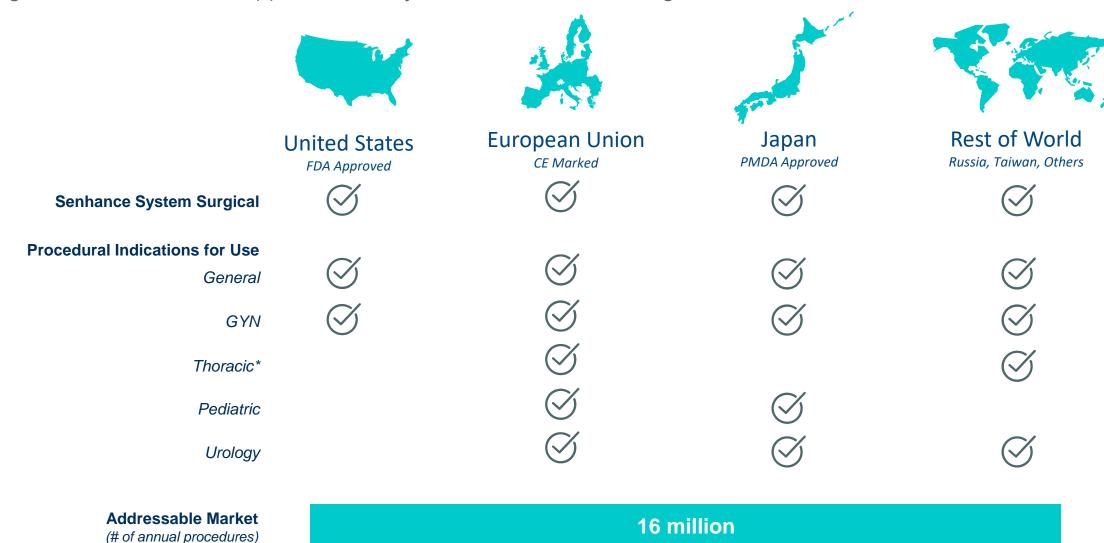
- Connects expert Senhance Surgeons across the globe
- Streams multiple camera views and the endoscopic view simultaneously
- Allows 2-way screen sharing and annotation





Robust Global Applicability

High Volume Procedural Approvals Widely Available To Address Significant Markets





Our Path To Market Leadership

Delivering A New Era In Digital Surgery

- 1 Educate surgeons on the benefits of Senhance
- 2 Grow global installed base
- 3 Increase global procedure volume
- 4 Expand the portfolio
- 5 Continue the technological advancement Digital Surgical tools





Educating Surgeons On The Benefits Of Senhance

Grow Compelling Set of Data to Demonstrate Clinical and Economic Value

peer review articles to date Focused on the following data:

- Health economics
 - Cost per procedure
 - Procedure times/workflow
- Usability across specialties
- Clinical outcomes

The TransEnterix European Patient Registry for Robotic-Assisted Laparoscopic Procedures in Urology, Abdominal, Thoracic, and Gynecologic Surgery ("TRUST")

Abstract

Introduction: Robotic surg Affiliations + expand da Vinci® System (Intuitive PMID: 33900026 DOI: 10.10 registry monopoly for years afterwa

Morrisville, North Carolina) movements and is designed Abstract

and bilateral), cholecystects In Europe between Februar

European and World centres Affiliations + expand

surgery with the Senhance urinary tract (UUT) and 70 ex prospectively collected for la Abstract

Dietmar Stephan 1 2 lbrai Upper urinary tract surgery and radical prostatectomy with Senhance ® robotic system: PMID: 33513657 DOI: 10. Single center experience-First 100 cases

> Zeljka Kastelan * 2 , Tvrtko H Marjan Maric * , Toni Zekulic Inguinal hernia TAPP repair using Senhance ® robotic platform: first multicenter report from the TRUST

N E Samalavicius 1 2 1, A Dulskas 4 5, A Sirvys 6, V Klimasauskiene 7, V Janusonis 1 3 T Janusonis 8 9, V Eismontas 1, O Deduchovas 1, D Stephan 10, I Darwich 10, C Poth 11. Background: The Senhance F Schilcher 11, Y Slabadzin 12, M Kukharchuk 12, F Willeke 10, L Staib 11

Patients and methods: From PMID: 34591213 DOI: 10.1007/s10029-021-02510-9

Results: The median age for UUT was 30, and for RRP 200 transabdominal preperitoneal inguinal hernia repair (Robotic TAPP).

Dindo complication grade II | Methods: We included 271 cases of robotic inguinal hernia TAPP repair using the Senhance® robotic three patients had grade II co platform from four different centers between March 2017 and March 2020. Key data points were Conclusion: The Senhance intraoperative and postoperative complication rate, operating time, length of hospital stay, postoperative pain score and time required to get back to a daily routine that were inserted in the TransEnterix European Patient Registry for Robotic assisted Laparoscopic Procedures in Urology, Abdominal Surgery, Thoracic and Gynecologic Surgery (TRUST).

> Results: We report 203 cases of unilateral and 68 cases of bilateral inquinal hernia repairs. Mean operative time was 74 ± 35 min (range 32-265 min), postoperative complications occurred in five (1.85%) cases, the intraoperative complication rate was five (1.85%). The average subjective patient

International Journal of Medical Robotics (Apr 2021)

Senhance surgical system in benign hysterectomy: A real-world comparative assessment of case times and instrument costs versus da Vinci robotics and laparoscopic-assisted vaginal hysterectomy procedures



- Senhance per procedure costs were less than half of da Vinci
- Senhance per procedure costs were in line with laparoscopy
- Case times between Senhance and da Vinci were comparable





Growing Global Installed Base

Expanding Number of Systems Being Used Across Multiple Geographies



- 10 systems added in 2021
- Training Centers located in key geographies
- Growing surgeon users globally

39
Active Installed
Units

6Global Training
Centers

100 +
Active
Surgeons





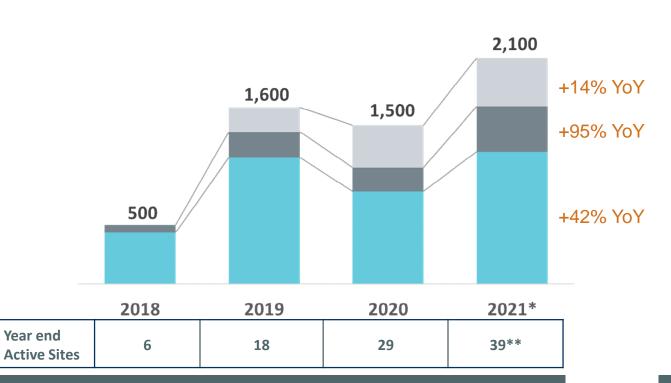
Increasing Global Procedure Volumes

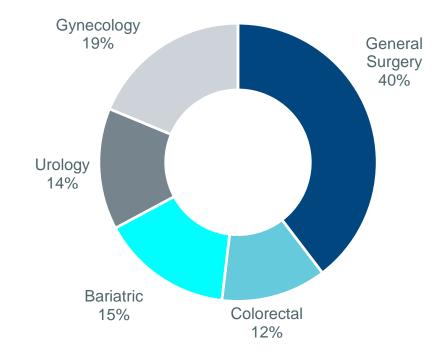
Senhance Demonstrating Strong Clinical Performance Across The Three Major Geographies

GLOBAL CLINICAL CASE VOLUME TREND

2021* CASE MIX







Strong clinical case performance

Adoption across multiple specialty areas, demonstrating broad applicability and adoption



*2021 Preliminary, **35 Clinically active, 4 pending clinical start





Expanding The Portfolio

Broadening Applicability Through Digital Technology, Regulatory And Instrument Expansion

Initial ISU™ CE Mark

- Provided Senhance Digital Laparoscopy programs access to new Augmented Intelligence technology
- Brings initial Performance-Guided Surgery capabilities to European hospitals

Expanded General Surgery Indication FDA 510(k) clearance

- Expanded on-label applicability
- Can be utilized in 2.7 million annual procedures

2021

Articulating Instruments

FDA 510(k) clearance Japan PMDA Approval

- Widens the clinical utility to a broader number of surgeons
- Initiating limited launch before full commercialization in FY22

Next Wave ISU Features

FDA 510(k) clearance Japan PMDA Approval

- Next phase in progress towards Performance-Guided Surgery
- Provide advanced Machine Vision and Augmented Intelligence capabilities
- Only robotic platform to offer scene recognition and surgical image analytics



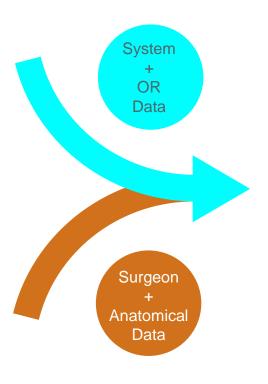


Continue The Technological Advancement Of Digital Surgical Tools

Focused Investment To Deliver The Future Of Surgery







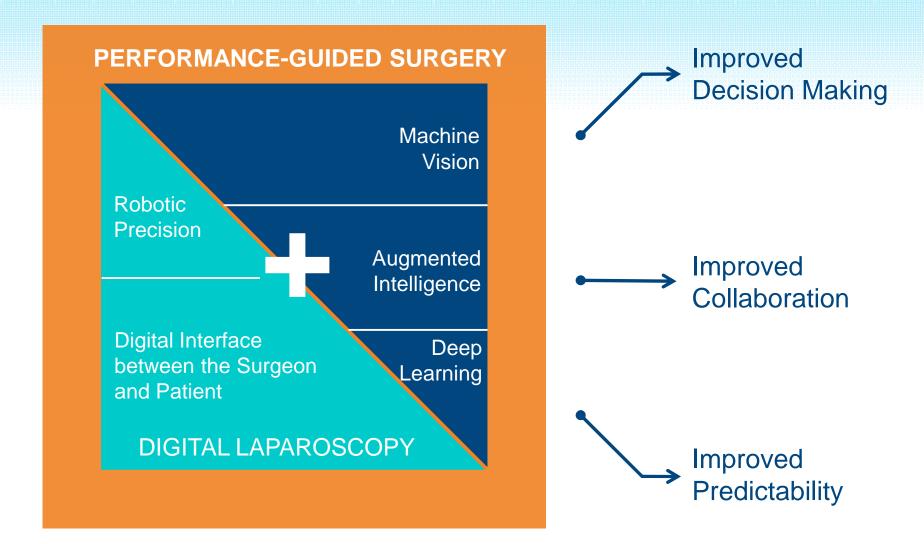
Performance-Guided Surgery



Clinical Intelligence to unlock superior outcomes with surgery



Performance-Guided Surgery





Surgical Paradigm

Mapping Categories To The Surgical Value Chain

Laparoscopy

Manual Control

Robotic Surgery

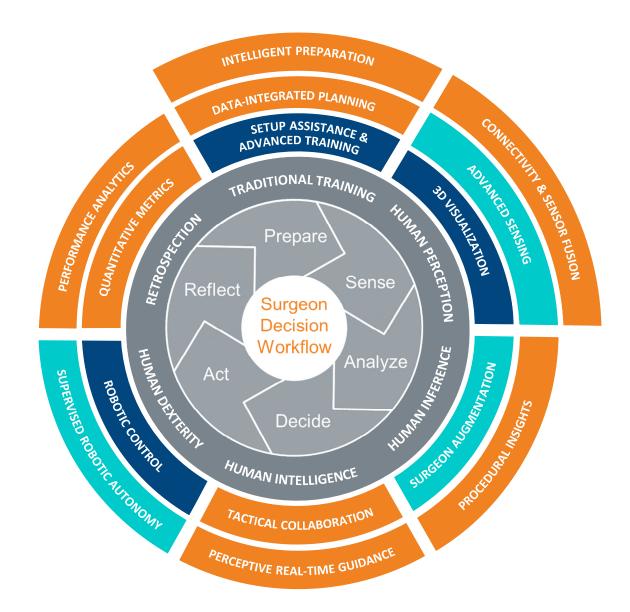
Robotic Precision and Control

Digital Laparoscopy

Advanced Sensing, Digital Insights

Performance-Guided Surgery

Intelligent Preparation, Perceptive Real-Time Guidance





The Surgical Assurance Framework

UNLOCKING CLINICAL INTELLIGENCE



Intra-Op: Perceptive Real-Time Guidance

- Real-Time, Intra-Op Data
- Robotic Intervention
- Reduced Cognitive Load



Pre-Op: Intelligent Preparation

- Setup Assistance
- OR Workflow
- Administrative Dashboard

Performance-Guided Surgery



- Actionable Assessments
- Digital Replay
- Trend Analysis and Benchmarking



~ SURGICAL



Our Path To Market Leadership

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





2021 Financials (Unaudited)

- 2021 Revenue ~ \$7.9-8.3 million
 - 147%-159% increase over 2020
- December 31, 2021 Balance Sheet Highlights
 - Cash, cash equivalents, short-term and long-term investments~ \$135 million
 - No Debt





Surgery Reimagined

Performance-Guided Surgery – next level technology that completely changes the idea of what's possible.



