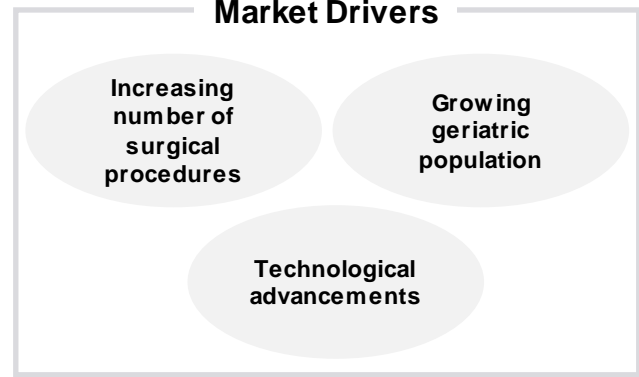


INNOVATIONS and OPPORTUNITIES

Unleashing The Potential Of

MINIMALLY INVASIVE SURGERY (MIS)

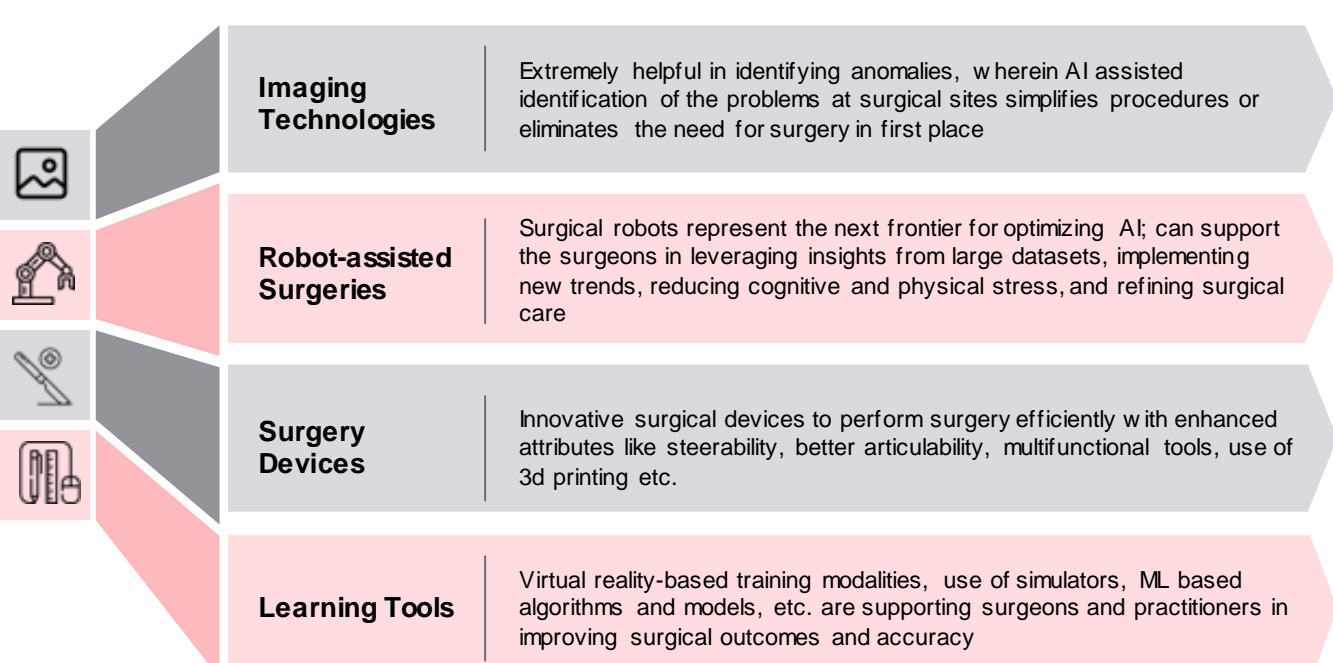
MIS Devices Market – Changing Dynamics



~7.8%
CAGR

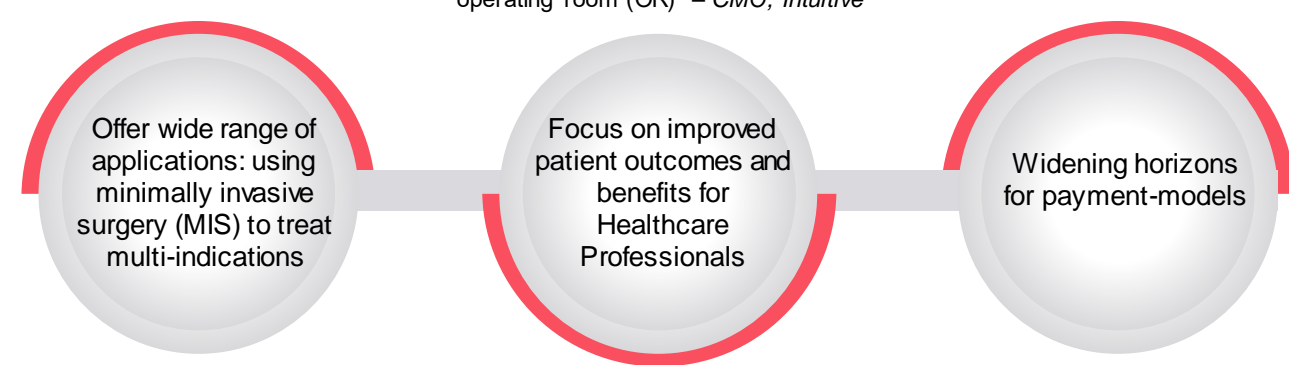
Industry majors are adopting digitalization and introducing smart solutions enabling better operational capabilities, post-surgery feedbacks, AI/ML based devices, etc.

Influx Of Exponential Technologies – The Digital Era



Exploring Potential Opportunities – How to be a Market Leader?

“As a practicing surgeon for over 25 years, the goal of improving patient outcomes drives what I do in the operating room (OR)” – CMO, Intuitive



Research studies are highlighting MIS based thoracic surgery, cardiac surgery, oncology related surgeries, and others

Different payment models represent different strategies for identifying and delivering quality care

Value Proposition – Where to Focus?

FOR PATIENTS

- Painless scar-free surgeries
- Reduced post-operative complications
- Shorter hospital stay

FOR SURGEON

- Reduced strain and fatigue
- Better view of surgical sites
- Faster learning curve

FOR HOSPITALS

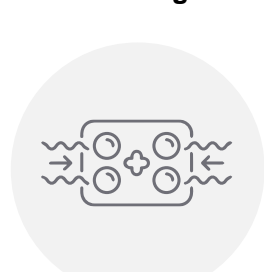
- Compatible and transportable robots
- Quick setup of robotic surgical devices
- Affordable costs

FOR COMMUNITY

- Reusable devices to reduce surgical waste
- Reduced use of antibiotics

Future of Minimally Invasive Surgery

Multi-Sensing Tools



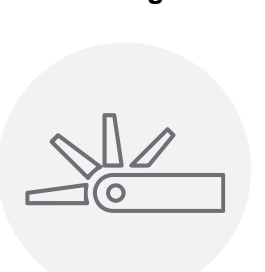
A tactile sensing probe for identification and visualization of tissue abnormalities

Minirobots



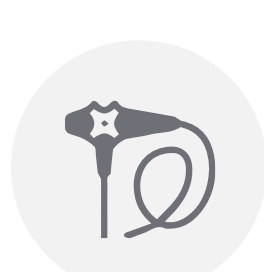
Tiny, preprogrammed robots injectable into the body to autonomously perform a task

Self-folding Tools



Individual components integrated with magnets; self assembled into a pre-determined shape

Attachment Devices



Attachable/detachable devices with the scope helps to perform simultaneously

Niche Applications Being Explored

Shurui's single hole robots in gynecology have helped in minimizing surgical incisions, maximizing organ protection and reducing the work-load of doctors.

SHURUI

Versius®, a small, modular surgical robot powered by a digitally native ecosystem. Built for precision, dexterity, and versatility



Steerable Punch is steerable, detachable and fully cleanable arthroscopic cutter for use in minimally invasive based knee surgery.

Surge-on medical

A specialized catheter device that can repair holes in the heart, or tissue defects in other organs, using deployable soft structures.



Conclusion

- Tech Convergence in MIS: A Transformative Era – imminent convergence of computation, storage, and connectivity technologies is revolutionizing the Minimally Invasive Surgery (MIS) by reducing open surgeries and minimizing harm.
- AI and Mixed Realities: Shaping Future Surgical Practices – AI and mixed realities are increasingly integrated throughout the surgical value chain by offering multiple benefits in accessibility, accuracy, efficiency, clinical outcomes, etc.

About FutureBridge

FutureBridge tracks and advises on the future of industries from a 1-to-25 year perspective.

We keep you ahead on the technology curve, propel your growth, identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.