Enabling Reliable & Scalable Remote Robotic Surgery: The Sovato Platform

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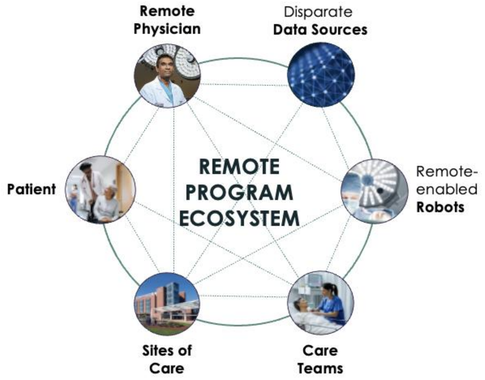
OBJECTIVE

To develop and validate a comprehensive platform that enables reliable and effective remote robotic-assisted surgery programs.

DESCRIPTION

The Sovato Platform is a robot-agnostic system that enables reliable, scalable, and sustainable remote surgery programs by providing:

(1) **Connectivity System** – highly reliable, low latency, cybersecure connectivity between the surgeon console and bedside cart
(2) **Orchestration Application** – Workflow management pre-op, intra-op, and post-op
(3) **Medical-Grade A/V System** - Seamless verbal and visual communication between sites of care



ENABLING THE ECOSYSTEM

Sovato enables a fully functional Remote Surgery Ecosystem by connecting the robots, people, and disparate systems and data.

- A shortage of **15,800-30,200** surgeons across all specialties is projected by 2034 [1]
- **5 Billion** people worldwide lack access to sufficient surgical workforce [2]

PRELIMINARY RESULTS

Initial development has focused on system latency optimization and safety protocol validation. Engineering tests and wet labs across long distances demonstrate the platform's capability to maintain reliable connectivity with latency well below surgeon-validated thresholds.

Initial results support system feasibility for remote surgical applications. Results were collected across the following:

4	33	12	5
wet labs	Procedures	Surgeons	Surgical Disciplines

45,000	58ms	0
Remote Surgical Miles	Avg latency (2000 mi)	Packet Loss

SURGEON WET LAB EXPERIENCE

100%
Report feeling the Sovato Platform adequately restores situational awareness of the operating room, surgical team, and patient status when operating remotely.

100%
Report feeling confident using the Sovato Platform to routinely perform remote surgery.

82%
Perceived no difference in performing remote vs. in-person procedures

12%
Felt remote procedures were easier or slighter easier than in-person.



CONCLUSION

The Sovato Platform represents a significant advancement in enabling remote robotic surgery. Remote robotic surgery has the potential to enable surgeons and health systems to address critical healthcare disparities around the world by enabling the delivery of high-quality surgical care in underserved areas, while providing a sustainable business model for healthcare systems.

Sovato is not available for sale in the U.S. and is pending regulatory clearances.

[1] *American Association of Medical Colleges*
[2] *The Lancet: Global Surgery 2030 (Aug. 2015)*