

THE PROBLEM

Far too often, the equipment delivered to the OR for surgery is wrong, incomplete or unnecessary.

Today's highly fragmented and outdated operating room processes waste resources, overburden staff, and compromise patient care. The complexity of surgery continues to increase, while supporting staff are expected to do more with less experience.

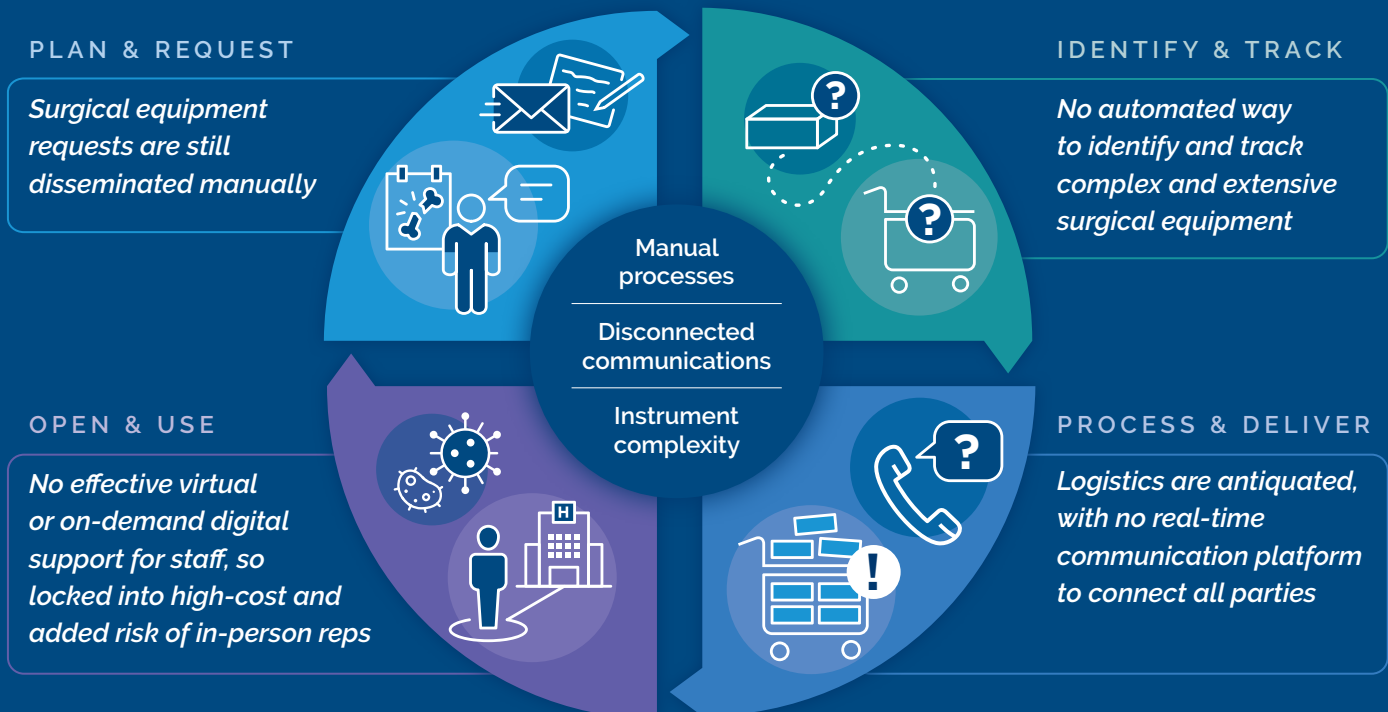
The current approach relies on old-fashioned notes, high turnover-prone OR staff, and industry representatives to buttress a sub-optimal series of processes. Critical communications are haphazard. Department silos and antiquated manual processes undermine teamwork and blur lines of accountability.

As a result, surgical equipment is overstocked and over-processed as staff attempt to minimize problems. Waste, delays, and risk of error from inaccuracy and inefficiency cost surgery centers, hospitals, and the broader healthcare system hundreds of millions of dollars per year.



Early results from a SmartCard 2.0 pilot show that existing manual pick lists average 22% excess equipment. In our analysis of 54 cases, an average of 3.8 trays per case were processed and delivered to the OR that were not needed—topping out at 20 excess trays for a single surgery.

*A recent study reported that up to \$1,800 per surgical case is attributable to unused equipment or supplies alone.**



**The impact of planning and communication on unplanned costs in surgical episodes of care: Implications for reducing waste in hospital operating rooms — doi.org/10.1002/joom.1070*



ORTelligence creates cutting-edge software that aligns surgical teams with the right information, equipment and support to deliver the best possible surgical care.

All the processes involving surgical equipment—from planning and requests, to identification and tracking, to communications and logistics, to remote and on-demand expert support in the OR—are digitized and optimized to drive accuracy, efficiency and teamwork.

Our patented technology is designed to complement both the electronic healthcare record and existing technologies to harness real-time visibility and data insight into a powerful, transformative tool.

CORE TECHNICAL EXPERTISE

- Artificial Intelligence and Machine Learning
- Data management and taxonomies
- SaaS—integrating voice, natural language processing and image recognition interfaces



Smart Card 2.0™

Preference card intelligence

AI-enabled planning tool based on surgeon preferences and facility contracts. Intuitive, user-optimized, "shopping cart" interface. Designed to dramatically improve the efficiency and accuracy of equipment requests by replacing static preference cards and disjointed communication with data-driven, intelligent SmartCards.

CLOUD-BASED SOFTWARE

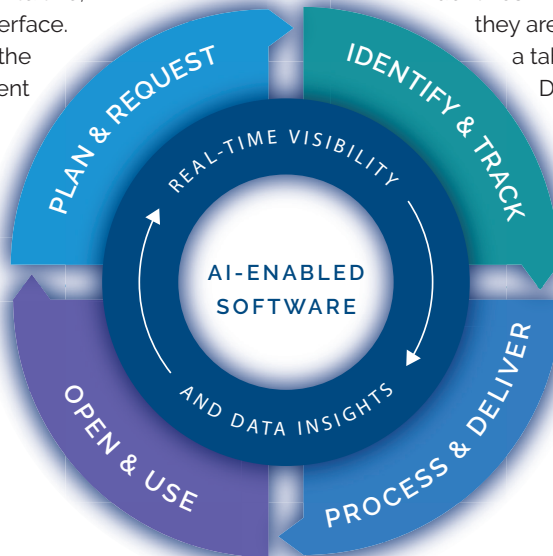


sSORT™

Surgical object recognition tool

Patented, computer-vision, smartphone app. Identifies implants and instruments regardless if they are organized in a tray or in a jumble on a table. Creates alerts for missing items. Designed so anyone can inventory complex surgical equipment easily and accurately at any point in the surgical supply chain to achieve full inventory visibility.

COMPUTER VISION SMART PHONE APP



Rep+™

Remote and on-demand OR support

AI-enabled interface with image recognition and natural-language user interfaces provides real-time, remote and digital equipment support in the operating room. Designed to improve quality of care, job satisfaction and data visibility by empowering surgical teams with on-demand access to equipment identification and expertise.

VOICE-ACTIVATED SOFTWARE, TOWER & VIDEO CAMERA



Cart Manager

Communications and logistics

Communication and logistics tool for case cart preparation. Designed to naturally streamline communication and optimize inventory management by replacing siloed, manual processes with full OR logistic visibility and real-time build status.

CLOUD-BASED SOFTWARE

Early results—SmartCard 2.0 gives all stakeholders 200% more time to prepare for a case, produces a pick list that is 100% accurate to what the surgeon wants to use, and eliminates the 22% of unnecessary equipment that is typically sent to the OR.

Visit ortelligence.com to learn more or schedule a demo

