

# Perioperative solutions streamlining the complexity and enabling a seamless flow of data across the perioperative continuum of care.



## Industry

Healthcare

## Offerings

Digital Innovation Product Development,  
Healthcare Digital Innovation, Web Apps, UI/UX,  
New Digital Product Development, IoMT.

## Technology

.Net, Azure Cloud, PHP, REST API

The client is a US\$10.7 billion Irish-headquartered global health care products company and manufacturer of medical devices. The product lines consist of Surgical devices, medical devices, and medical supplies.

## Challenge

ALTEN Calsoft Labs decades of Healthcare domain experience and our leadership in providing digital solutions in the latest technology, the client approached to develop a Perioperative digital solution.

The perioperative solution significantly reduces the risk and incompetence connected with information silos and duplicate documentation.

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The pain areas that are captured in the initial study phase include paper-based preference cards, wastage of supplies, missing to report the surgical products to the billing process..

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While scheduling the lack of perioperative metrics, Under-utilization of ORs, Case delays and Case cancellations also a major hindrance highlighted by the healthcare providers.

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## Outcome

**25%**  
**Reduction in time**  
taken for scheduling surgery

**Seamless integration**  
with the departments speeds up the planning & preparation of the procedure.

**10%**  
**Savings on patient bill**  
by avoiding wastage of supplies.

**RFID based automated Pick Supplies** solution reduces the time to pick and return the surgical products.

## Solution

In the innovation workshop with comprehensive digital customer research and journey mapping to gain a more comprehensive understanding of what our customers want.



The Solution helps to capture the procedure data automatically obtained with the help of Einstein. Some times the data is an entry by nurses or automatically based on an event.



Supply chain management includes both the pharmacy supply chain designed to help your organization from running out of medication and Clinical supply chain materials management systems to include the patient care process.



Dashboards are designed for the monitoring and tracking of each type of users involved in the solutions. Dashboards include Surgeon OR manager, CXO, Scheduling nurse, StoreKeeper, etc.



Incorporate OR workflow to manage the scheduling of the various stages of the case. It allows block-based scheduling by the surgeon or a specialty.



Captures the dispense, return and waste documentation of supplies against each patient encounter. The system is designed to meet UDI demands to help deliver compliance with MU stage 3.



The solution is designed to provide access to patient information; managing allergies, checklists, medication processes, procedures and combines smart device connectivity.

## ACL Digital Healthcare

ACL Digital's Healthcare Practice works with healthcare organizations to engineer personalized Total Experiences - anytime, anywhere, and on demand. Our design-led engineering services have provided secure, compliant, interoperable Digital Healthcare and Medical Device Engineering solutions accelerating digital innovation, driving business transformation, and enabling industry-wide convergence. With a "Digital First and Total Experience" philosophy, we are the partner of choice for global MedTech, Medical Devices/OEMs, and ISVs, in their Digital Healthcare, Omnichannel Patient Engagement, Virtual First care (V1C), Connected Medical Devices, and Digital Front door strategy implementation journey.

- By uniting analytics, compliance, UX, cloud, and interoperability, we offer unique, scalable Digital solutions that aim to enhance the quality, convenience, and personalization of care delivery.
- Leverages the triple trifecta (Cloud, Analytics, and UX for medical devices) to integrate data across disparate systems – from imaging to vitals to claims – helping cross-reference, match historical patient information, proactively identify illness, and engage with patients.

For more information, visit [www.acldigital.com/healthcare](http://www.acldigital.com/healthcare)



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