RUS Workflow

01
Surgeon uploads CT image to h-Server which anonymizes patient's information

02
h-Sever at hospital sends anonymized CT image to h-Cloud

Hutom is ISO/IEC27001 certified for data security

03
h-Cloud builds 3D anatomy model (hu3D) with patient's CT image and other information
• Vessel and organ segmentation by AI
• Automatic artery and vein position adjustment

04
h-Cloud sends hu3D file to the h-Server which restores patient's personal information

05
Surgeon rehearse the surgery and explore patient's anatomy

06
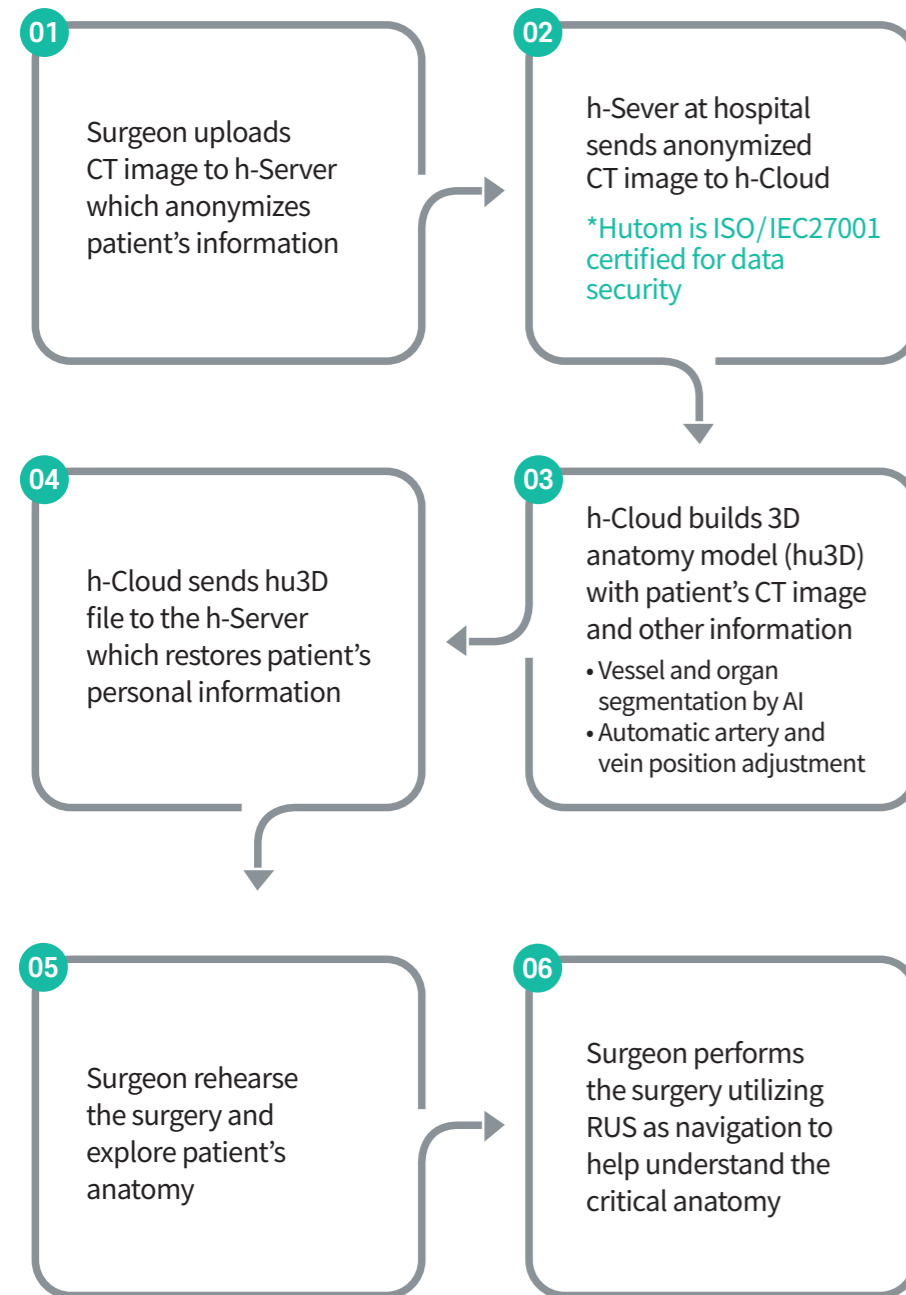Surgeon performs the surgery utilizing RUS as navigation to help understand the critical anatomy

---

Our Company

Reshaping Surgery Through Digital Innovation

Core Values

We provide surgical intelligence to help surgeons make smarter decisions for better surgical care.

Surgical Intelligence
AI Platform transforms simple data into surgical intelligence

Smarter Decisions
Surgical intelligence helps surgeon make better pre-/intra-/post-OP decisions
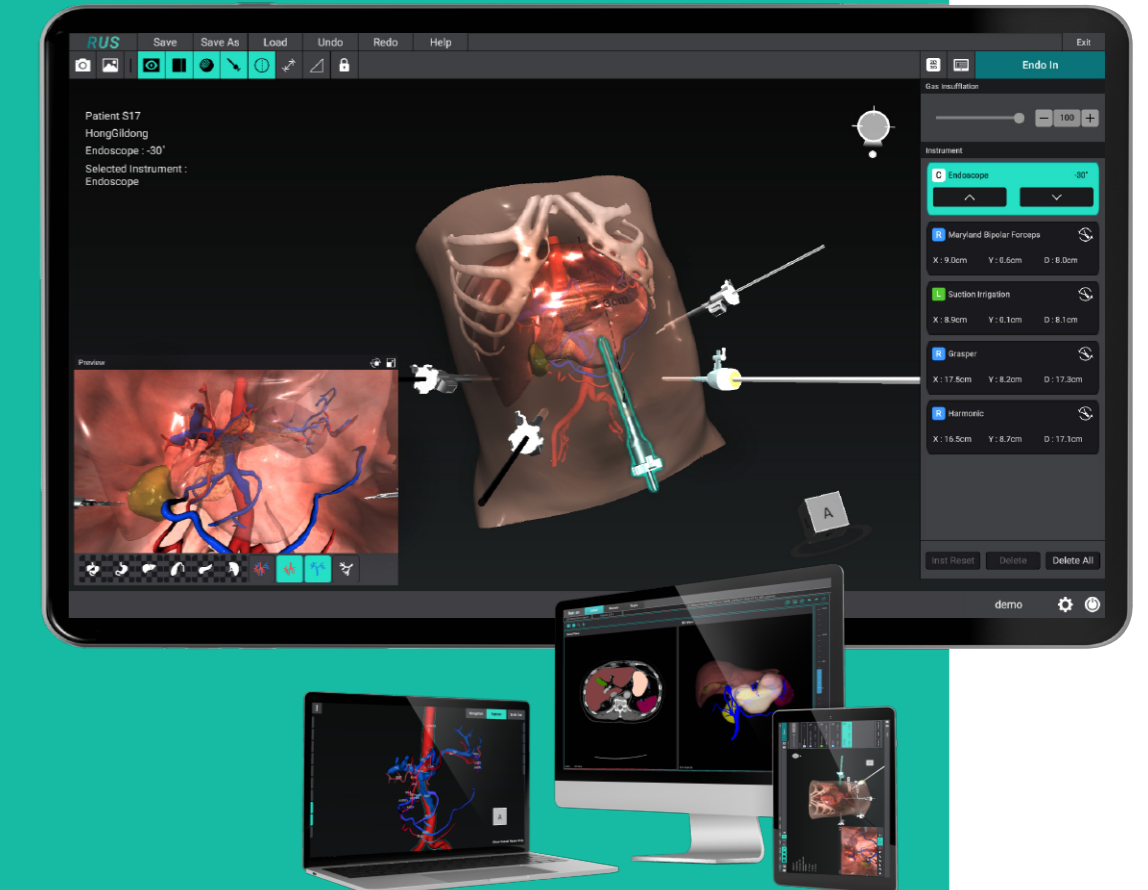
Personalized Patient Care
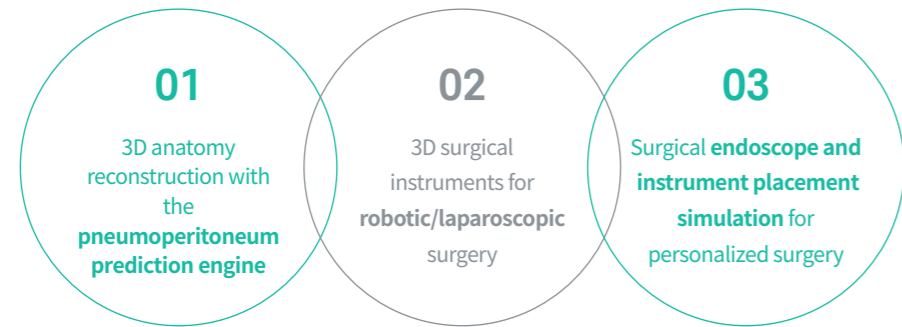AI-empowered surgeon can provide personalized patient care

hutom.io
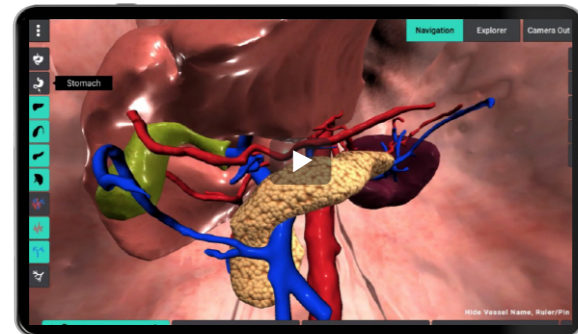
RUS
STOMACH
Surgical planning and navigation platform

hutom

RUS STOMACH
Surgical planning and navigation platform

Why RUS
The platform for personalized surgical planning and navigation

01
3D anatomy reconstruction with the **pneumoperitoneum prediction engine**

02
3D surgical instruments for **robotic/laparoscopic** surgery

03
Surgical **endoscope and instrument placement simulation** for personalized surgery

Navigation providing the endoscope view

Endoscope View
To see the virtual image identical to the actual endoscope image
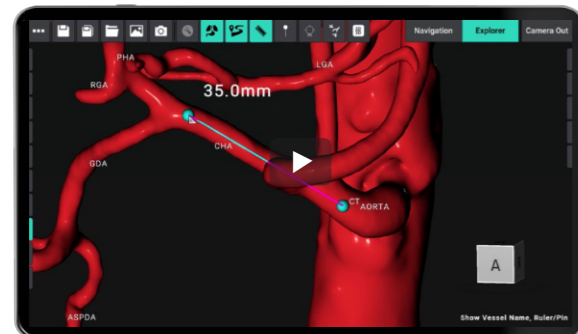
Explorer View
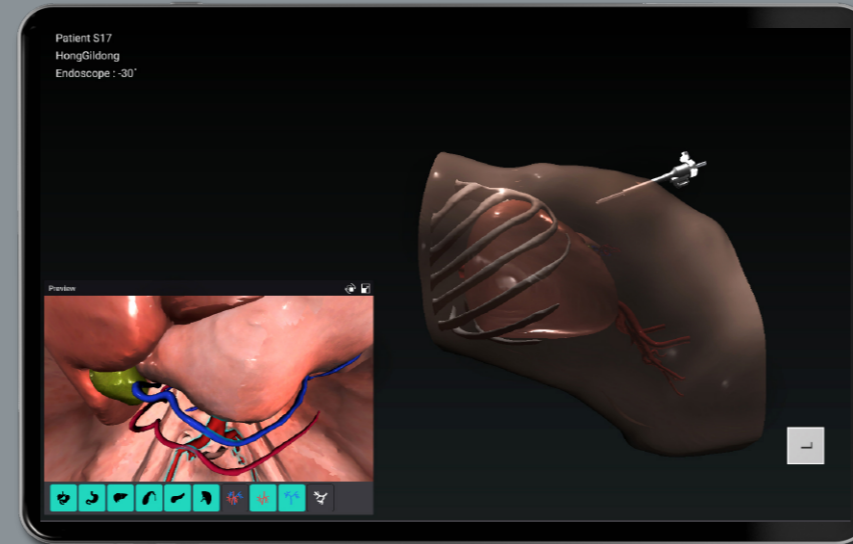To explore anatomy from various viewpoints

3D Anatomy & Pneumoperitoneum Model
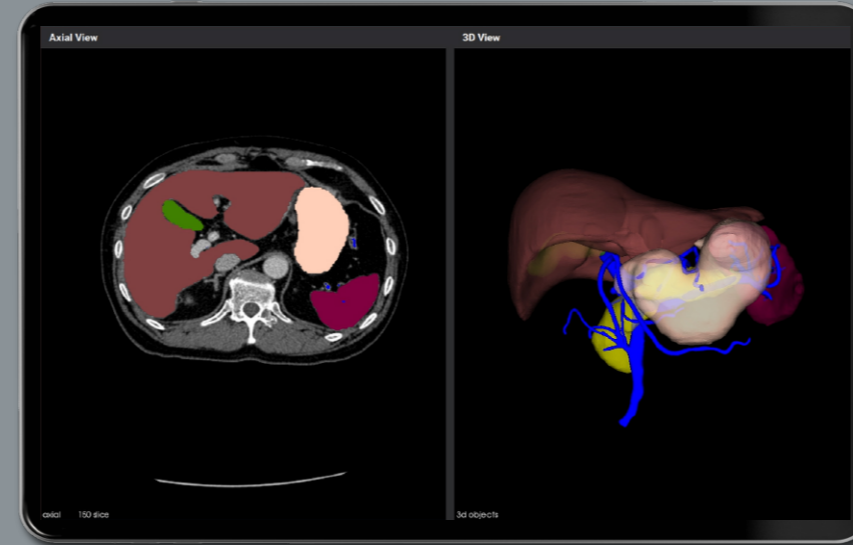
3D Anatomy Reconstruction from CT Image
Hutom's AI automatically segments organs and vessels in the CT image and reconstructs 3D anatomy model of the patient.

Patented Pneumoperitoneum Model
Hutom developed the patented pneumoperitoneum prediction model simulating the insufflated abdominal wall based on CT image and other information.

Automated Vessel Position Adjustment
Hutom's AI generates 3D anatomy model and automatically adjusts the positions of arteries and veins in CT images.

Surgical Simulation & Navigation
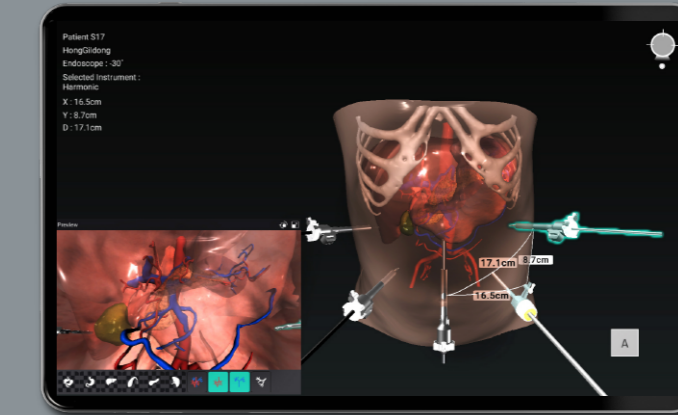
Port Placement and Various Instrument Insertion
3D anatomy model and insufflated abdominal wall enable surgeon to simulate the port placement and instrument insertion to help prepare the surgery
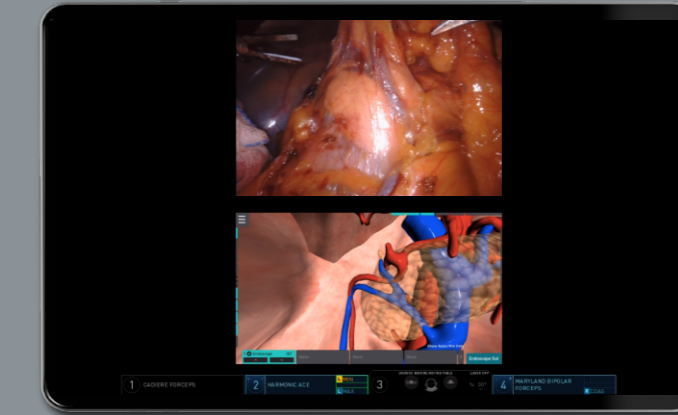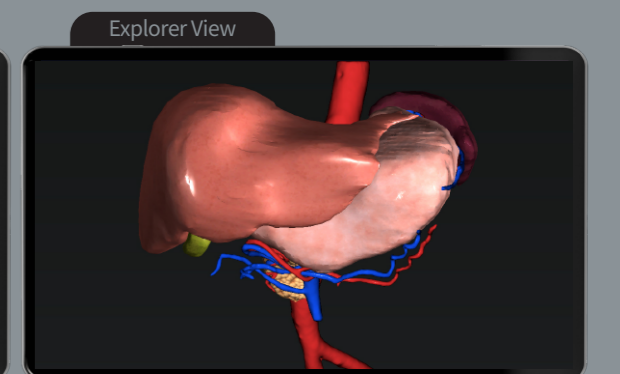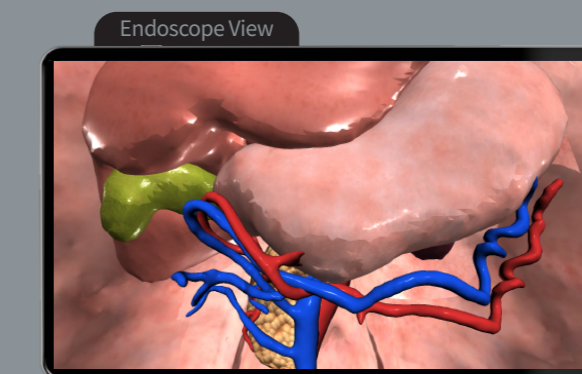
Surgical Navigation
RUS offers the endoscope view as the actual operation: Surgeon can utilize the 3D endoscope view for both robotic and laparoscopic surgeries.
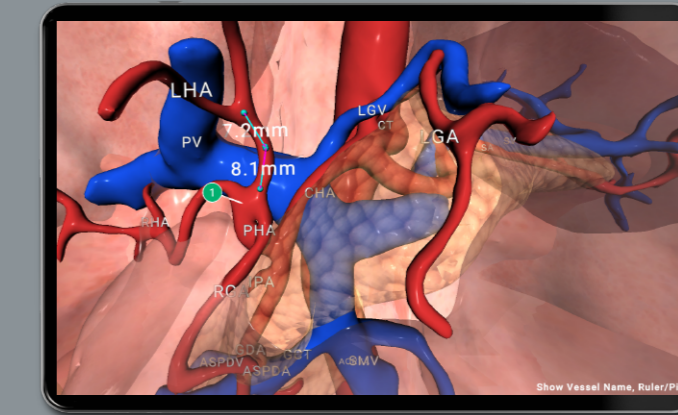
Anatomy Marking Tools
Surgeon can add more information by using marking tools, such as pin and ruler, and save the preset anatomy points using POI function.

Endoscope View

Explorer View

Multiple View Options
Different view options are available in both endoscope and explorer mode to provide patient's anatomical information effectively.