



Medtronic

Siste nytt innenfor robotikk & bilde - analyse

Hugo RAS, Mazor & Touch Surgery enterprise

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Medtronic is a global healthcare technology leader

We offer wide range of medical devices and solutions

Medical Devices & equipment



Cardiovascular

- Cardiac Ablation Solutions
- Cardiac Surgery
- Cardiac Rhythm Management
- Peripheral and Endovenous
- Structural Heart and Aortic
- Coronary and Renal Denervation
- Cardiovascular Diagnostics and Services

Diabetes

- Type 1 diabetes
- Type 2 diabetes

Neuroscience

- **Cranial and Spinal Technologies**
- Pelvic Health and Gastric Therapies
- Neurovascular
- Neuromodulation
- Ear/Nose/Throat

Medical surgical

- Gastrointestinal
- Patient Monitoring
- **Surgical Robotics**
- Renal Care Solutions
- Respiratory Interventions
- Surgical Innovations

Services & IT solutions

Integrated Health Solutions

Services and IT with the aim to:



Improving outcomes



Expanding access



Optimizing efficiency & cost

Meet Hugo

Medtronic

Introduksjon av Hugo RAS

Ny operasjonsrobot

Lansert i EU februar 2022

Indikasjoner

URO/GYN/GS

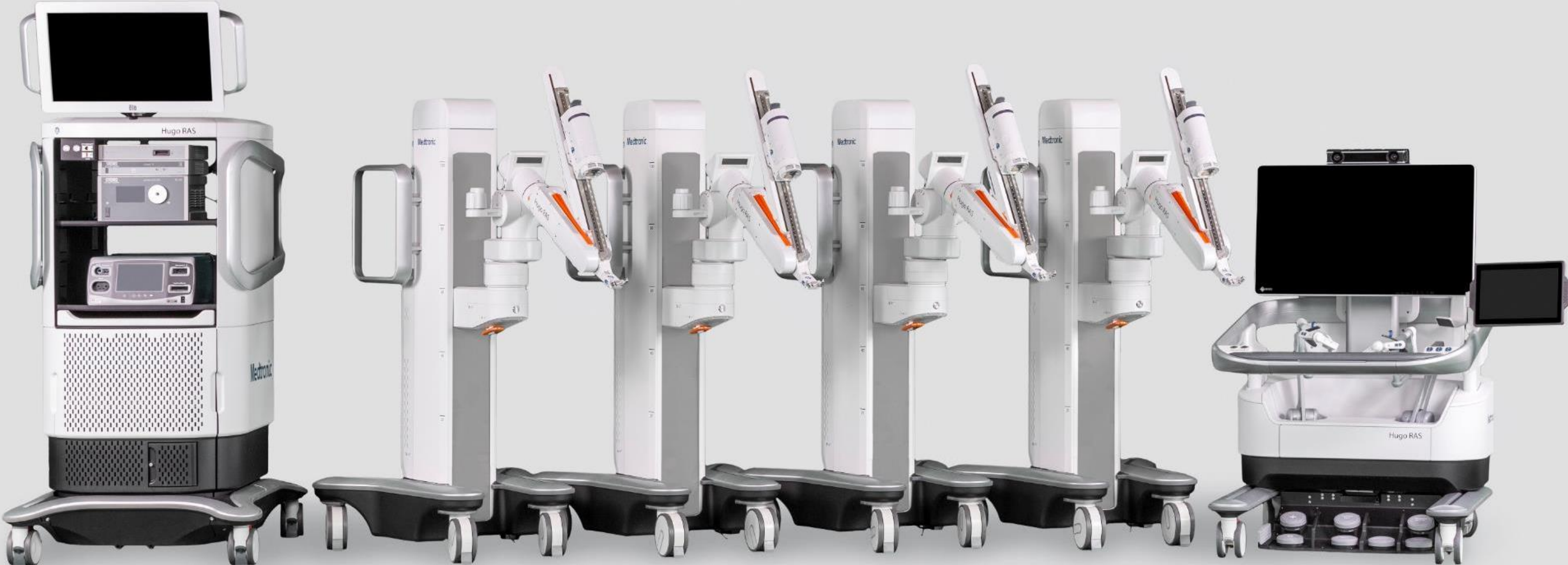
Integrert AI teknologi

Med Digital Surgery, Touch Surgery Enterprise



Meet Hugo™ RAS

Innovative by design



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Meet Hugo RAS

Medtronic

Modulær og portabel

Fleksible konfigurasjoner som passer til ditt operasjonsrom, prosedyre og unike anatomi

Forbedret visualisering og ergonomi

Bruk den samme velprøvde teknologien på tvers av åpen, laparoskopisk og RAS.

Oppgraderbar

Utformet for å redusere de totale eierkostnadene og optimalisere systemutnyttelsen.



I førerisetet med en utsikt

Hugo™ -konsollen blander komfort og kontroll

Åpen konsoll

Easy-Grip kontrollere

Ergonomi



Interaktivt touch display

Intraoperativt endring av instillinger

- Bevegelsesskalering
- Rotasjonsmultiplikator

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Hugo™ RAS robotarm

Hugo™ RAS robotarm er designet for fleksibilitet. Med flere frihetsgrader, inkludert et **innovativt vippeledd**, gir armene et stort bevegelsesområde for å støtte **ekte multikvadrant kirurgi**.

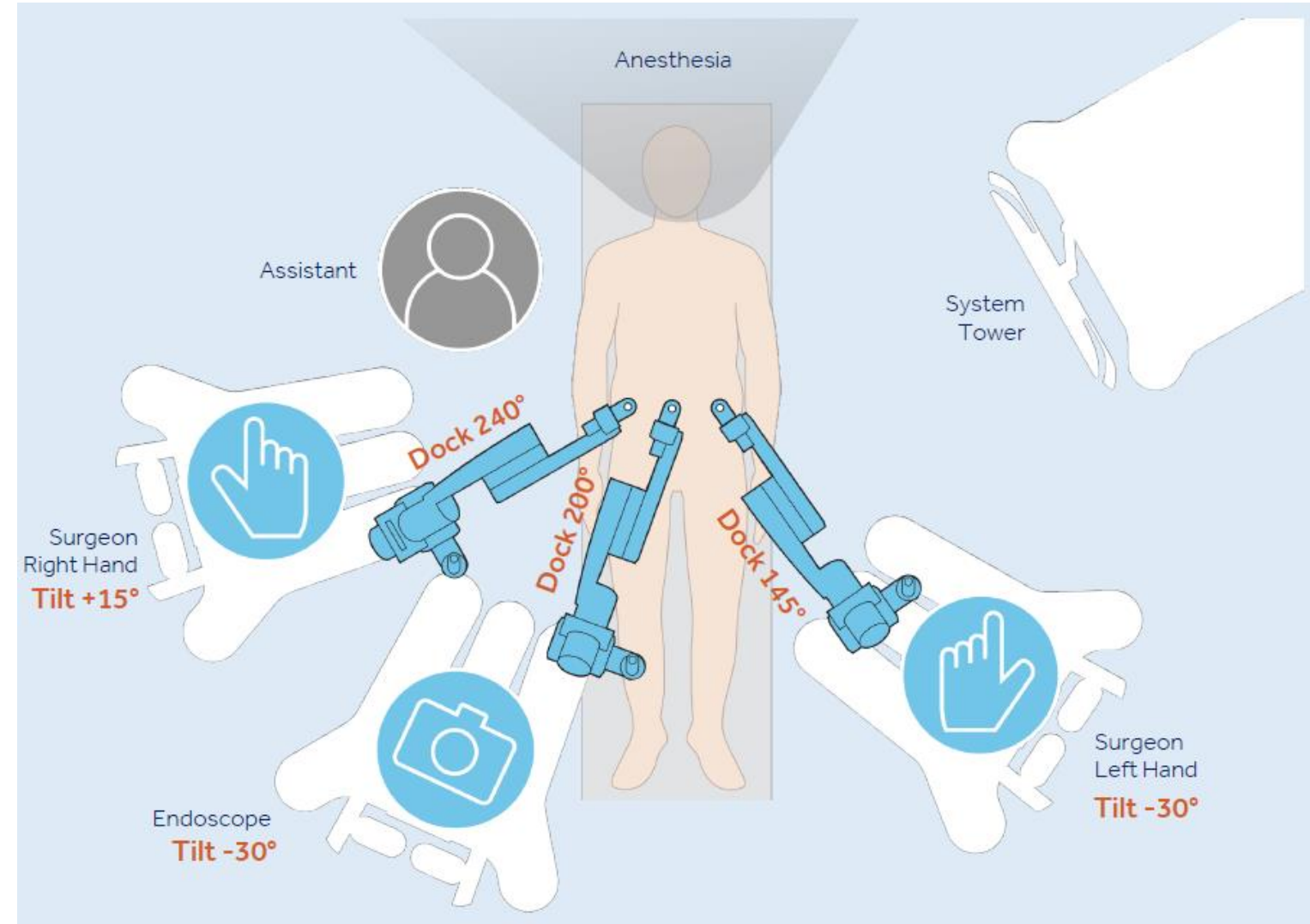
Den universelle utformingen gjør at armene kan plasseres rundt pasienten i mange konfigurasjoner. Modulær design hjelper deg med å velge hvor mange armer du trenger, ikke mer, selv under laparoskopi.

Innovativt vippeledd

Designet for fleksibilitet



Eksempel oppsett av armsokler - lyskebrokk



We have a longstanding history of enabling and driving MIS



The **only company** that partners across open, lap and RAS



Open

Our devices & expertise made MIS possible

100%

Laparoscopic

80%

20%

Robotic

>60%

30-25%

3%

1960s

1980s

2000s

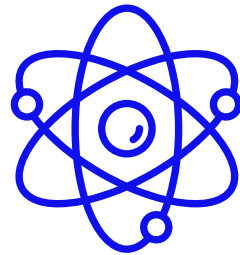
2020+

Status Hugo RAS



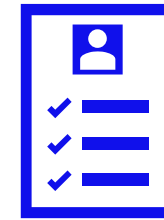
6000+

Prosedyrer



5+

Training facilities



40+

Artikler/studier



75+

Systemer

Procedures performed

Urology

Ureteral Reimplant

Radical Nephrectomy

Pyeloplasty

Prostatectomy

Partial Nephrectomy

Partial Cystectomy

Other Urologic Procedure

Lymphadenectomy

Full Cystectomy

Cyst Removal

Adrenalectomy

Gynecology

Sub-Radical Hysterectomy

Sacrocolpopexy

Radical Hysterectomy

Ovarian Cystectomy

Other Gynecological Procedure

Myomectomy

Endometrial Resection/Ablation

Bilateral/Unilateral Salpingo-Oophorectomy

General Upper

Ventral Hernia Repair

Splenectomy

Roux-en-Y Gastric Bypass

Other General Procedure

Hiatal Hernia Repair

Heller Myotomy

Gastric Band

Cholecystectomy

Biliopancreatic Diversion with Duodenal Switch (BPD/DS)

Appendectomy

General Lower

Right Hemicolectomy

Rectopexy

Other Colorectal Procedure

Lower Anterior Resection (LAR)

Left Hemicolectomy

Inguinal Hernia Repair (TAPP)

Inguinal Hernia

Abdominoperineal Resection Surgery (APR)



Procedures performed

Urology

Ureteral Reimplant

Radical Nephrectomy

Pyeloplasty

Prost

Part

Part

Oth

Lym

Full

Cys

Adr

Gyne

Sub

Sacr

Rad

Ova

Other Gynecological Procedure

Myomectomy

Endometrial Resection/Ablation

Bilateral/Unilateral Salpingo-Oophorectomy

General Upper

Ventral Hernia Repair

Splenectomy

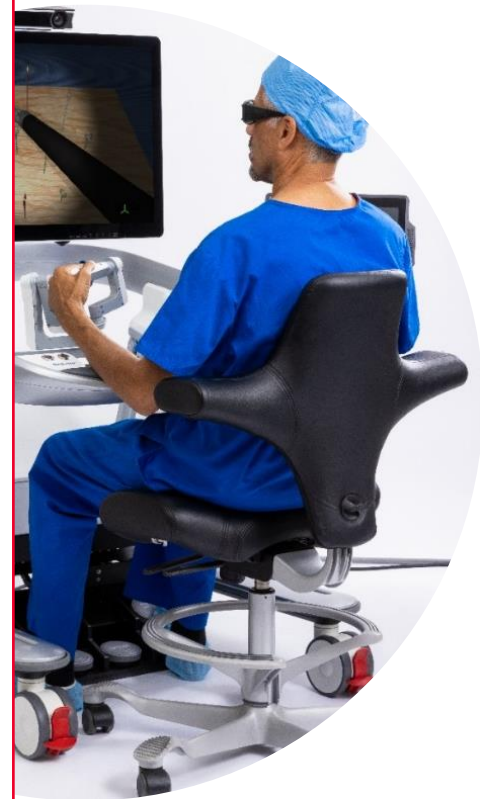
Left Hemicolectomy

Inguinal Hernia Repair (TAPP)

Inguinal Hernia

Abdominoperineal Resection Surgery (APR)

Indikasjon for HPB og Thorax er underveis, TBA.





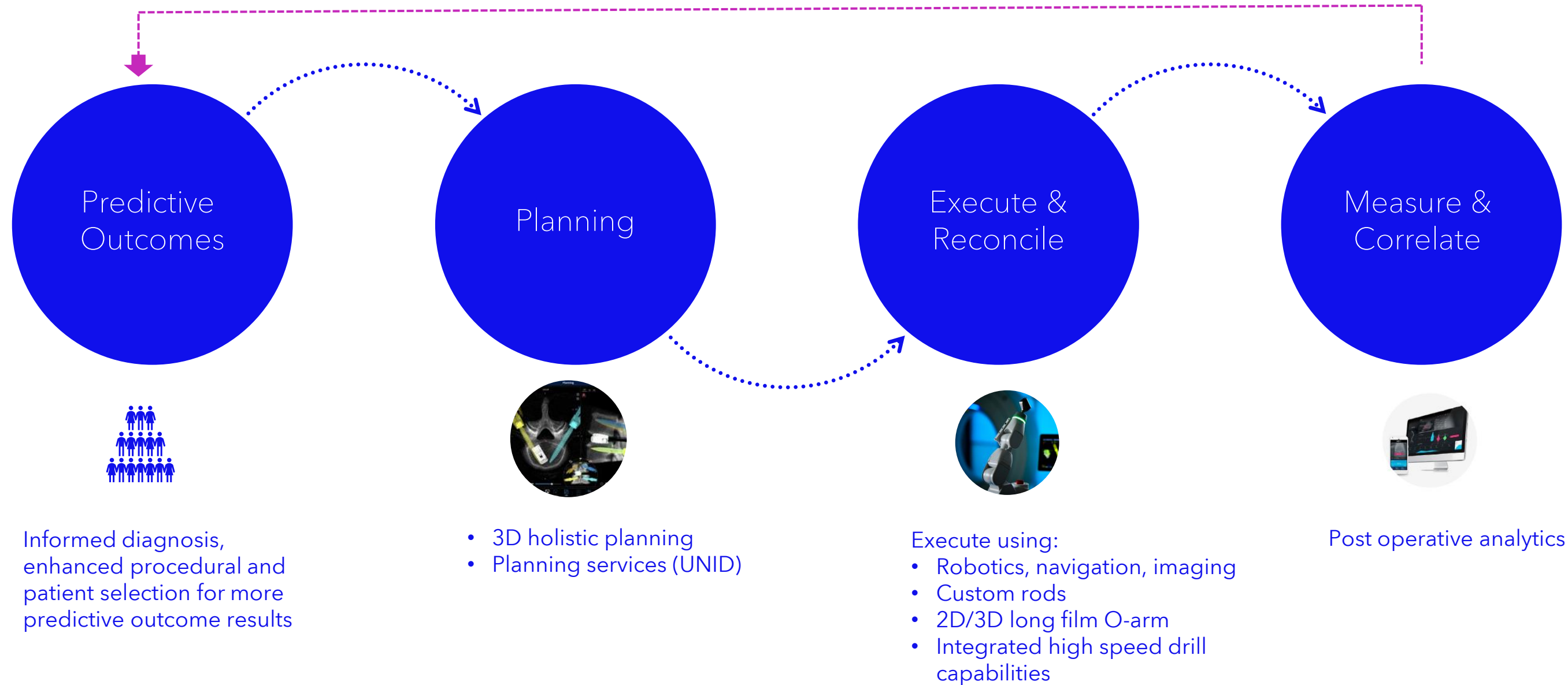
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Engineering the extraordinary

Mazor™ Robotic Guidance and Planning

The future of Mazor™ and Spine surgery

The future of Mazor™ and Spine surgery



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Unlocking the
power of
surgical video



Where should we begin?

Simulations

Hollywood-grade artistry paired with deep clinical expertise

Video

Imagine walking out of the OR and your video is already on your phone...

Live Stream

Coming soon!

Stream in to coach, stream out to broadcast - all just a few clicks away

Performance Insights

Coming soon!

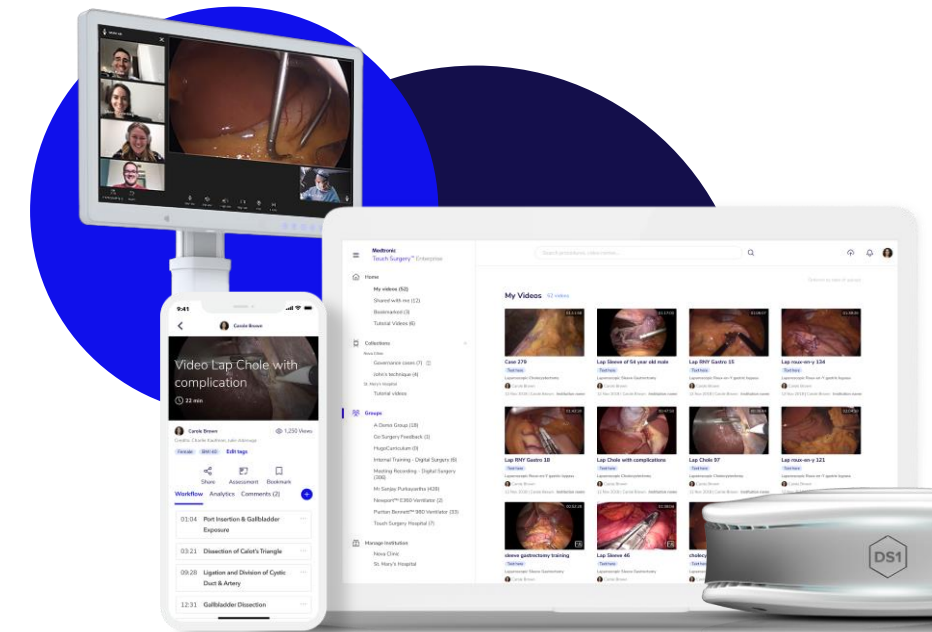
Data directly from the source: your video

Connectivity

Access a video from a customized link in the patient record

Our Touch Surgery™ Ecosystem has the solution.

There's long term value to have your videos and data stored in one place.



†In select markets.

Touch Surgery™ Enterprise makes it easy to reflect, review, and collaborate

Surgery is complex - but working with your surgical video shouldn't be

Features that help you:

Save time and effort

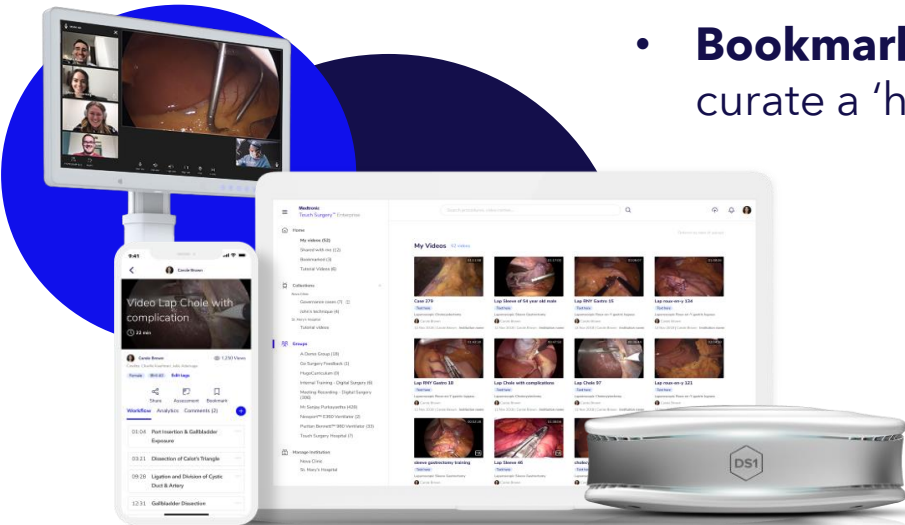
- **Review** within minutes of upload
- **Automate sharing** for efficient and controlled delivery
- **Customise your tags** to easily filter your library
- **Skip to key moments** using your intra-op annotations
- **Bookmark your video** to curate a 'highlights' library

Work flexibly with your video

- **Up to 4x playback speed and slow motion** to review footage at your desired pace
- **Download case footage** for presentations and more
- **Clip your footage** to create and download a smaller section of your recording
- **Telestrate** to highlight areas of interest while reviewing a video

Share techniques and insights

- **Share before a case** to prep your OR team
- **Share a time-stamped link** to direct viewer to a key step
- **Join multiple institutions** to record and access videos through your single account
- **Exchange comments** to share feedback and collaborate
- **Score a case** to give objective feedback using frameworks such as GOALS and GEARS



Spørsmål?