

# HIP

**SOFTWARE-GUIDED SURGERY**

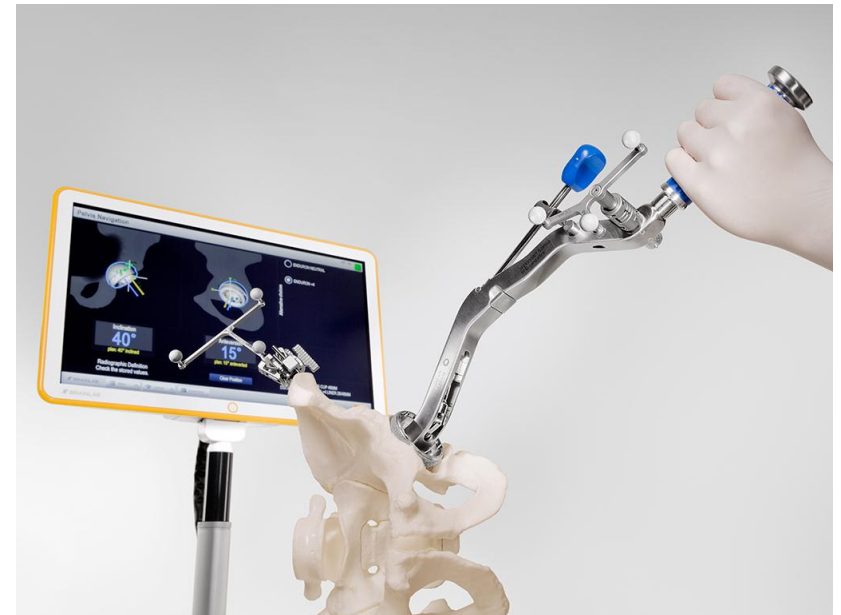
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# HIP NAVIGATION

## BENEFITS OF SOFTWARE-GUIDED HIP SURGERY

- Accurate positioning of implant components
- Potential to lower dislocation rates and improve implant longevity
- Precise restoration of leg length and offset
- Enables minimal invasive surgery
- Digital documentation of intraoperative results and final outcome



# PRECISE CUP POSITIONING

## INTUITIVE VISUAL GUIDANCE

- Live values for anteversion and inclination
- Restoration of native joint center
- Implant sizing assistance
- Verification of final implant position
- Depth information of cup
- Possible integration of pelvic tilt



# LEG LENGTH AND OFFSET

## ACCURATE RESTORATION

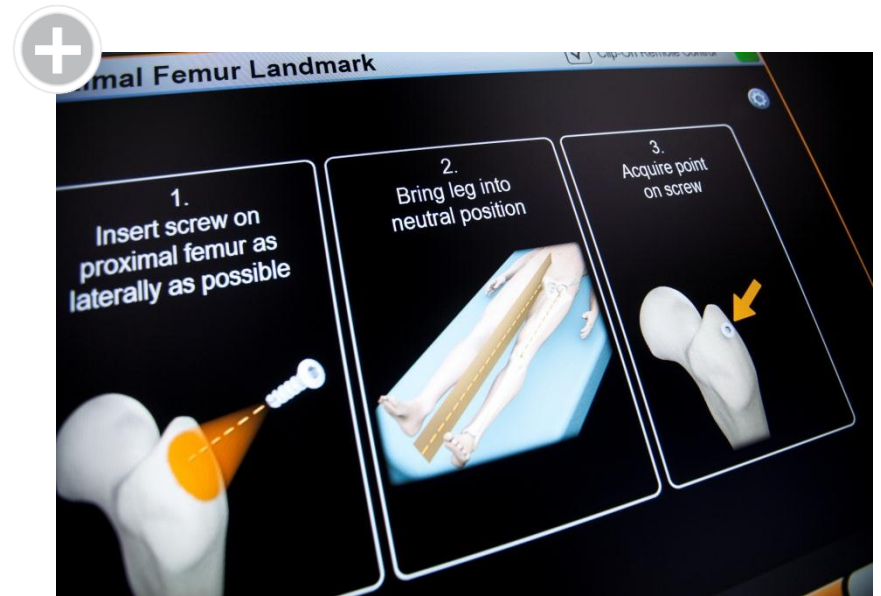
- Seamless verification of pre-operative goals for leg length and offset
- Fast workflow with only 2 registration steps
- Pinless femoral reference
- Available as standalone application

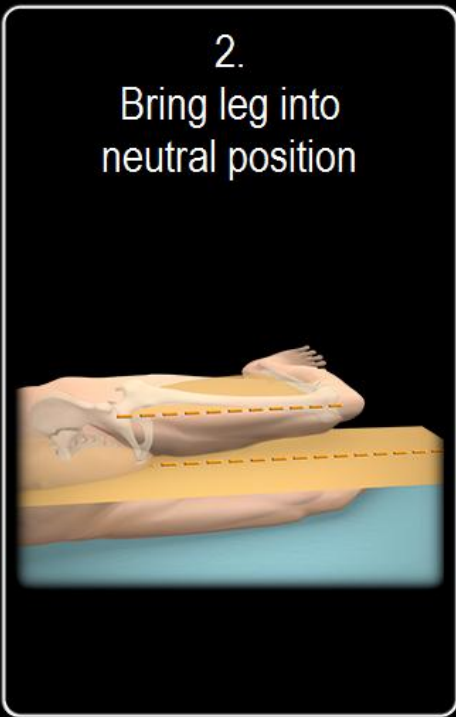
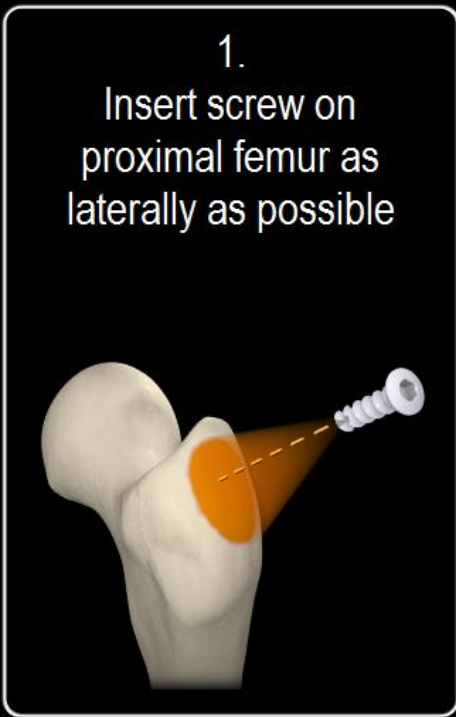


# FLEXIBLE SETUP

## FROM ANY APPROACH

- Supports all common surgical approaches
- No repositioning of the patient in lateral setup
- No pubis point registration required to avoid soft-tissue variances
- Intuitive workflows with maximum 6 registration steps

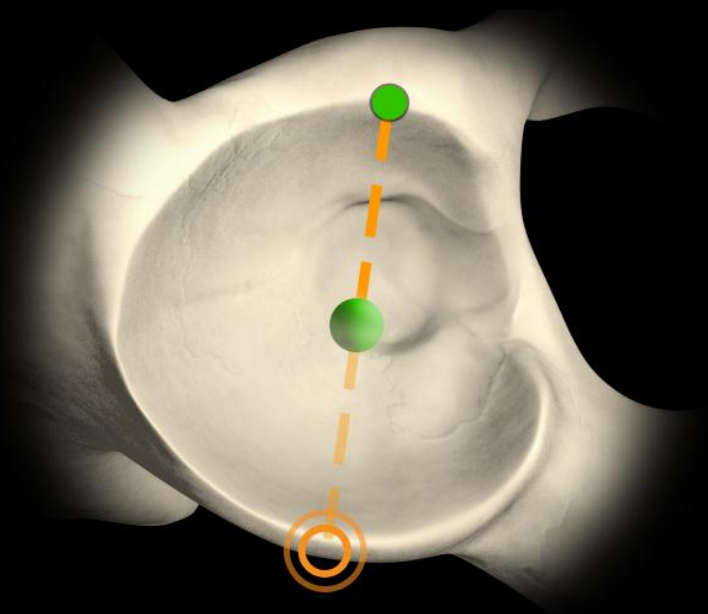




**LEG LENGTH AND OFFSET MEASUREMENT:**  
1) Acquisition of Proximal Femur Landmark

✓ Anterior Rim Point

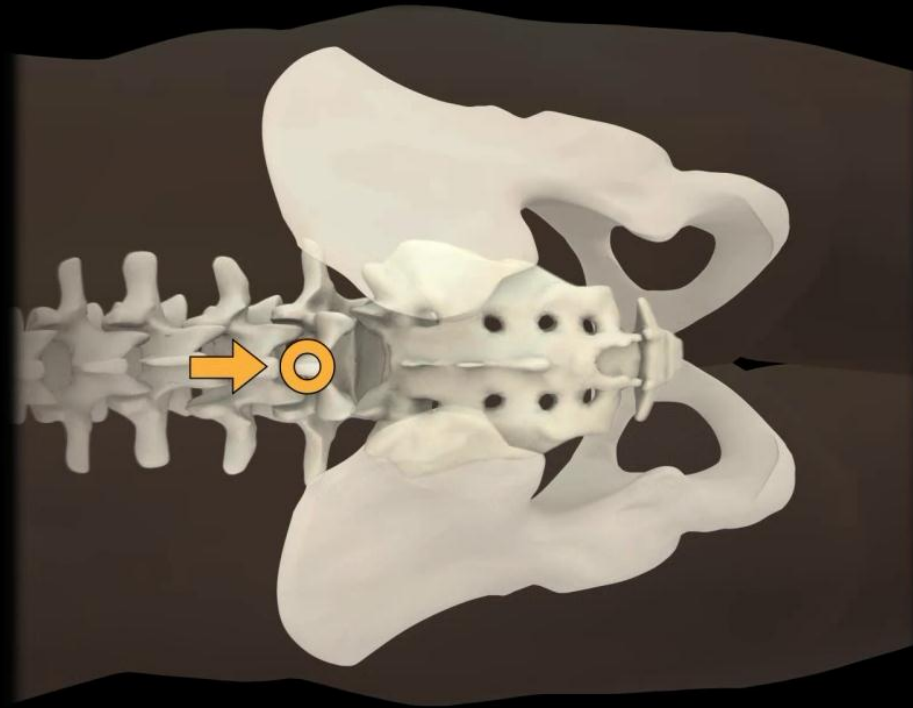
→ Opposing Rim Point



## LEG LENGTH AND OFFSET MEASUREMENT:

2) Acquisition of RIM Landmarks





## LATERAL REGISTRATION:

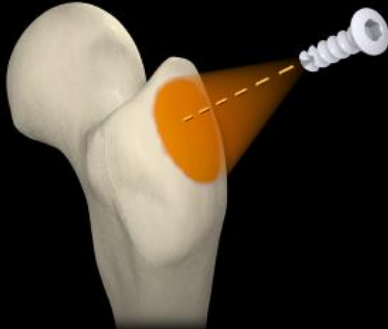
1) Acquisition of Spinous Process of L5



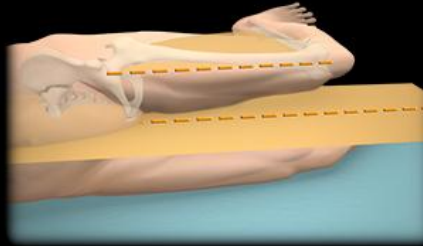
## LATERAL REGISTRATION:

2) Acquisition of Anterior Iliac Spine

1.  
Insert screw on  
proximal femur as  
laterally as possible



2.  
Bring leg into  
neutral position



3.  
Acquire point  
on screw

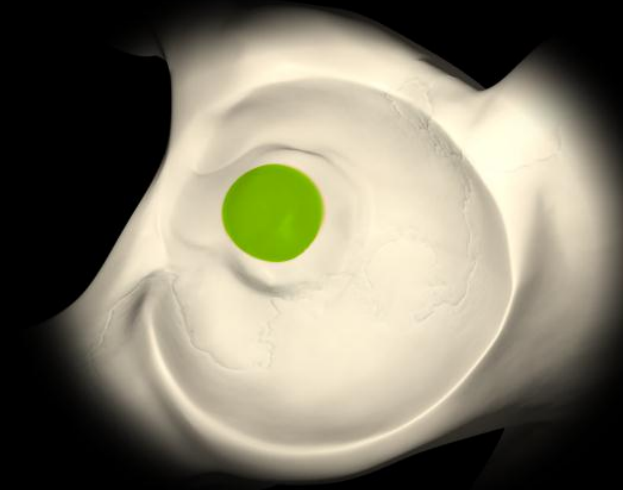


### LATERAL REGISTRATION:

3) Acquisition of Proximal Femur Landmark

→ Acetabular Fossa

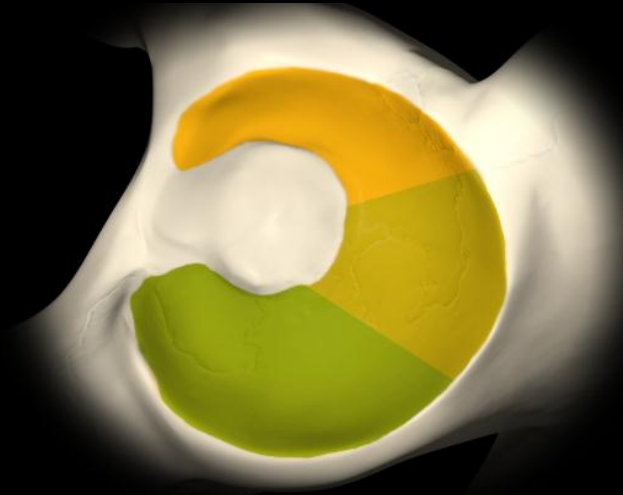
Acetabular Cavity



#### LATERAL REGISTRATION:

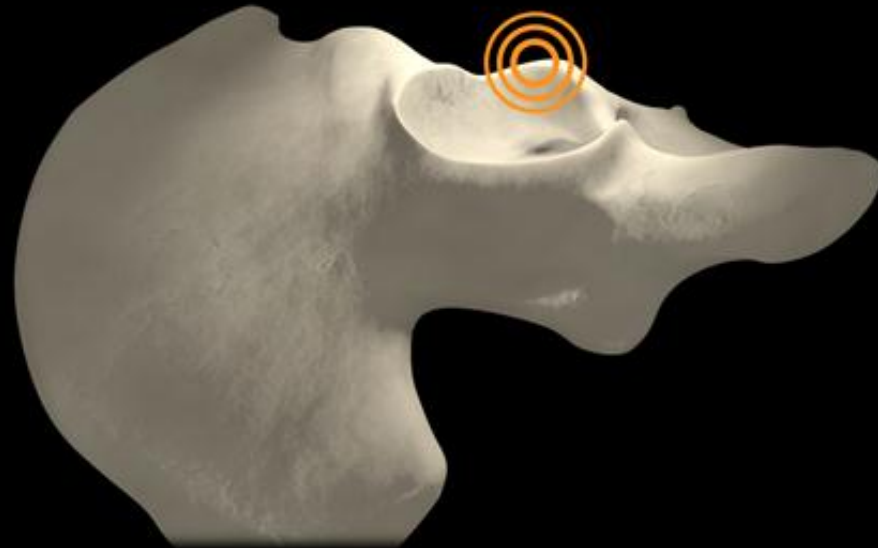
4) Acquisition of Acetabular Fossa

- ✓ Acetabular Fossa
- ➔ Acetabular Cavity



## LATERAL REGISTRATION:

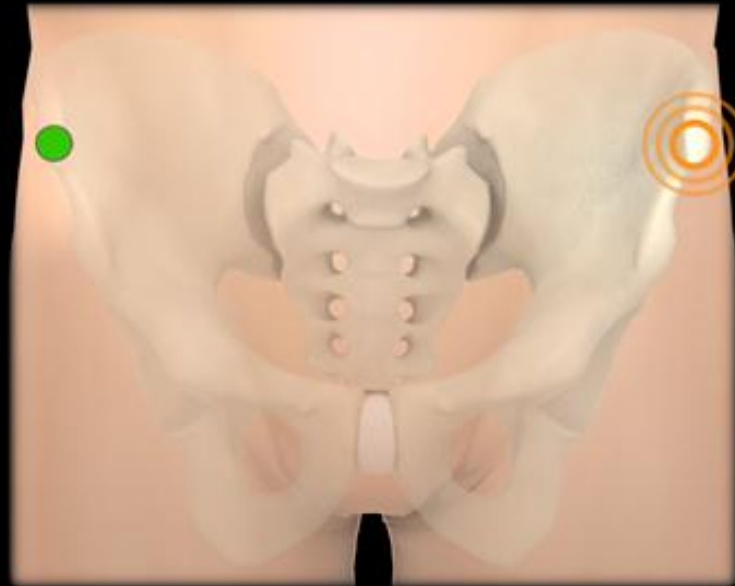
5) Acquisition of Acetabular Cavity



## LATERAL REGISTRATION:

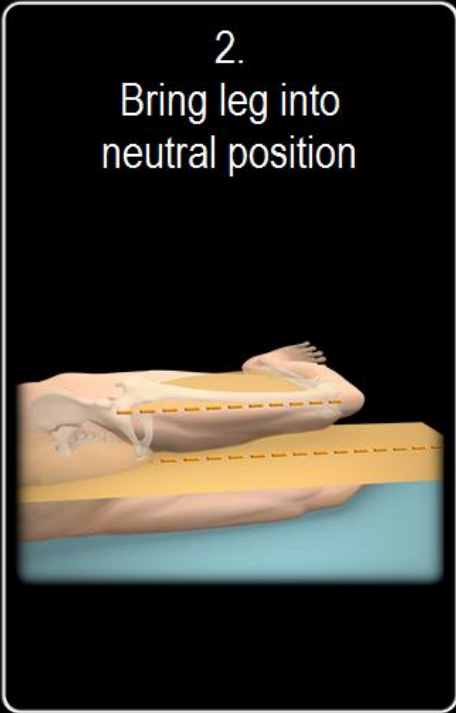
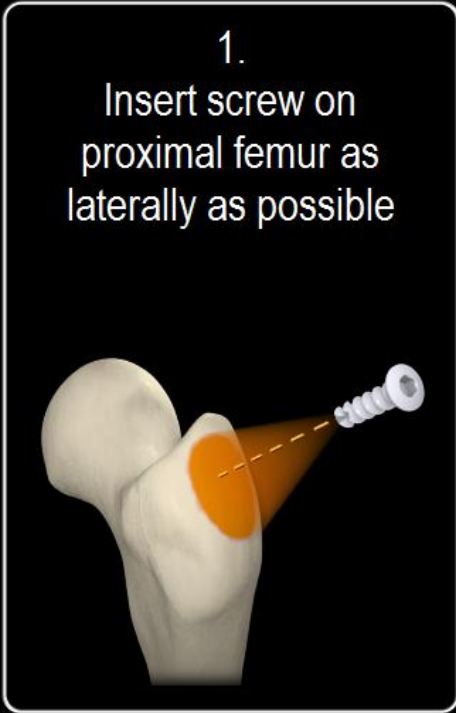
6) Acquisition of Anterior Rim Point

- ✓ ASIS (Side to be treated)
- ASIS (Non-treated side)



### SUPINE REGISTRATION:

- 1) Anterior Superior Iliac Spine



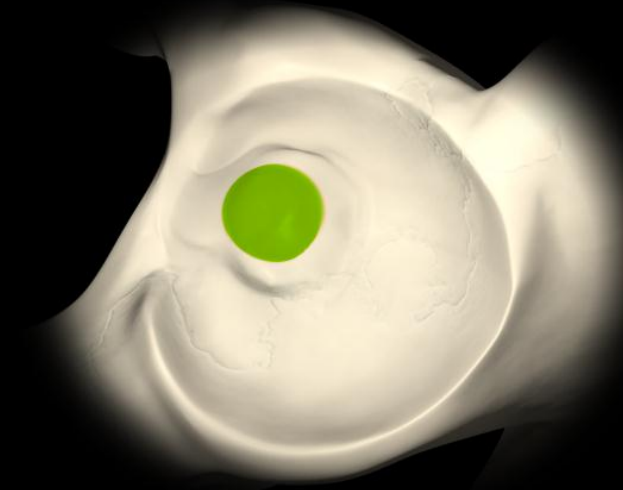
SUPINE REGISTRATION:

2) Acquisition of Proximal Femur Landmark



→ Acetabular Fossa

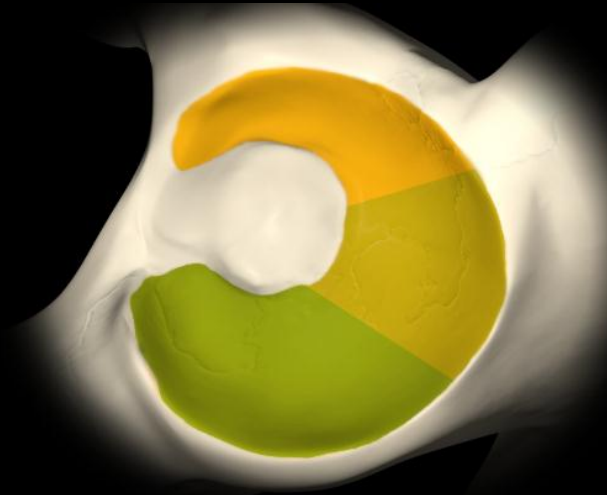
Acetabular Cavity



SUPINE REGISTRATION:

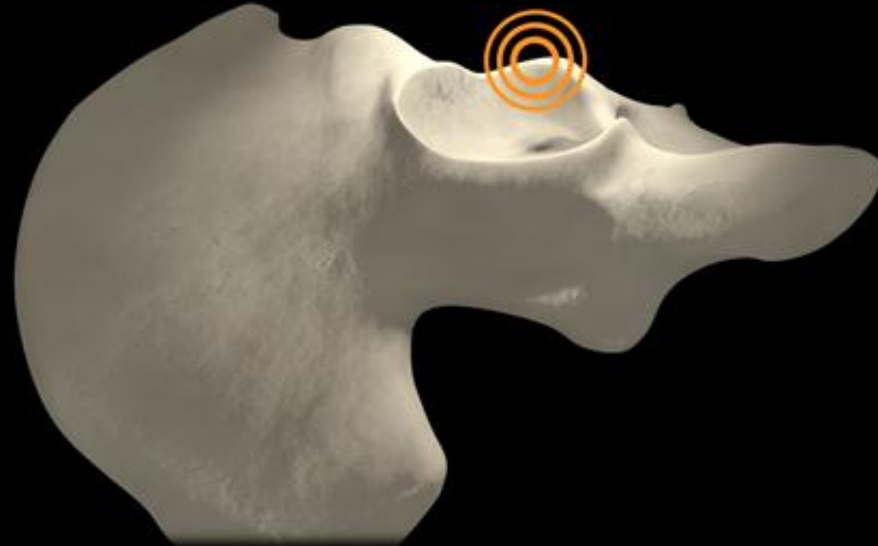
3) Acquisition of Acetabular Fossa

- ✓ Acetabular Fossa
- ➔ Acetabular Cavity



#### SUPINE REGISTRATION:

4) Acquisition of Acetabular Cavity



SUPINE REGISTRATION:

5) Acquisition of Anterior Rim Point

# UNIVERSAL INSTRUMENTATION

## SEAMLESS INTEGRATION

- Enables surgeons to easily, accurately and reproducibly align implant components
- No cumbersome intraoperative calibration necessary
- Implant-specific inserts to navigate a variety of hip implant vendors
- Designed for standard and minimally invasive surgery



# INTELLIGENT ORTHOPEDIC TOOLS

## PLANNING AND DOCUMENTATION

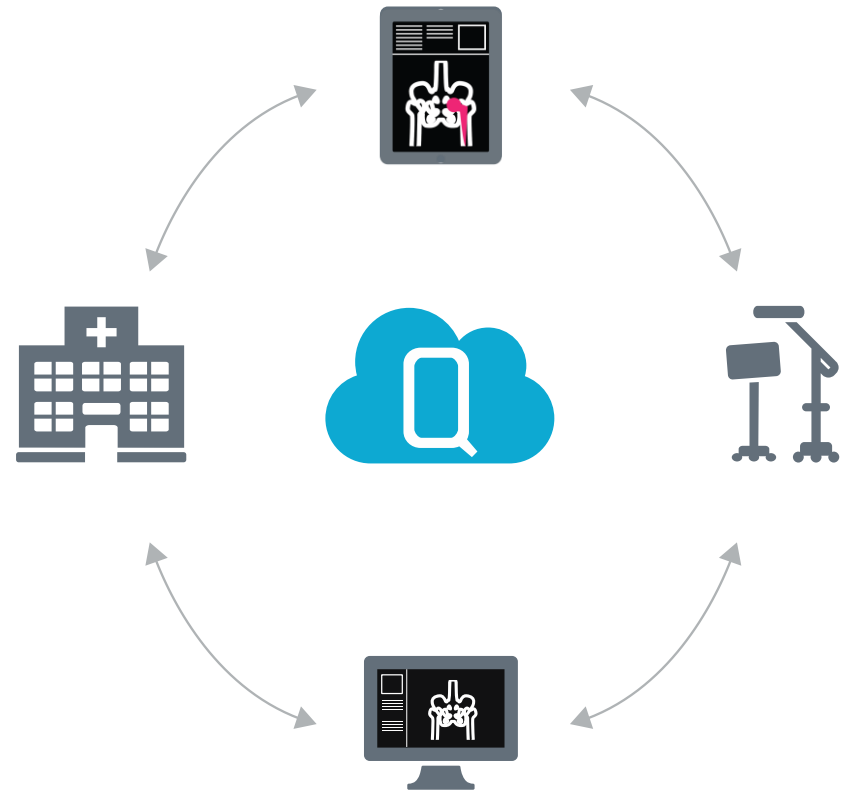
- Automatic hip planning with TraumaCad for implant alignment and reduction evaluation
- Post-operative evaluation with TraumaCad to determine acetabular cup anteversion and inclination as well as femoral version
- Automatic generation of reports for documentation and communication to patients and colleagues



# FROM PLANNING TO NAVIGATION

## COMPLETE ORTHOPEDIC PORTFOLIO

- Template pre-operatively with TraumaCad and upload to Qentry
- Provide secure access for implant partners to template data
- Review images and plans on Kick navigation system in the O.R.
- Navigate THR with Hip 6.0
- Store navigation patient report and case data to PACS and/or Qentry
- Assess post-operative X-Ray results with TraumaCad post-op measurements



# NAVIGATION PLATFORMS

INTELLIGENT TECHNOLOGY FOR ANY SURGICAL SET-UP

## 1 Curve™ Data Control System family

For data handling, image enrichment and enhanced functionalities like streaming and recording



## 2 Kick™ Purely Navigation platform

Compact and portable navigation system with full capability and connectivity with Buzz



## 3 Buzz™ Digital O.R.

Handy hardware and sophisticated software bundled to provide the ultimate hive of O.R. data activity

