

Introducing the World's First and Only Smart Knee Implant

# PERSONA IQ<sup>®</sup>



## Smart

- First-to-world smart knee implant that quantifies or captures objective kinematic data metrics
- The objective kinematic data is an adjunct to other physiological parameter measurements tools applied by the physician throughout the course of patient monitoring and treatment post-surgery

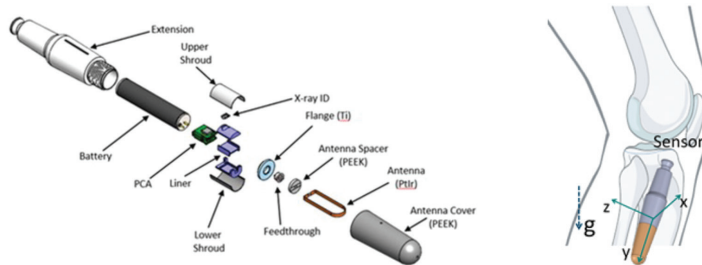
## Connected

- Provides a direct view of patient-specific data for at least ten years
- Supports the goal of patient compliance

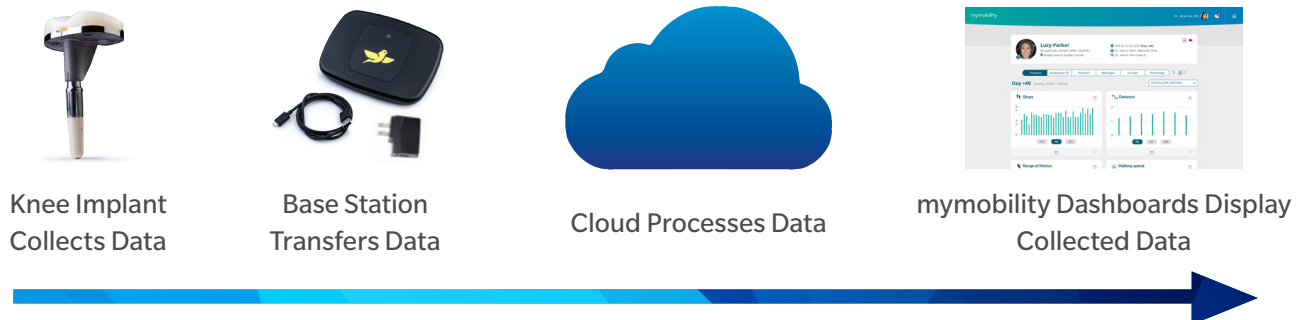
## Simple

- The Long term data is accessible on the mymobility<sup>®</sup> Care Management Platform
- Maintains standard Persona Knee surgery workflow and instrumentation

SMART STEM	DATA TRANSMISSION	PHYSIOLOGICAL SENSORS	BATTERY
<ul style="list-style-type: none"> <li>• Titanium &amp; PEEK construction</li> <li>• PEEK allows data transmission</li> </ul>	<ul style="list-style-type: none"> <li>• Secure near-field connection to a base station, with secure wi-fi upload to the cloud</li> </ul>	<ul style="list-style-type: none"> <li>• 3D Accelerometer</li> <li>• Gyroscope</li> </ul>	<ul style="list-style-type: none"> <li>• Lithium carbon-monofluoride chemistry (Li/CFx)</li> <li>• Similar battery technology used in pacemakers</li> </ul>



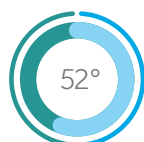
## How It Works



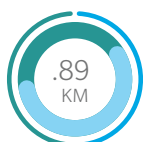
## Data Collection



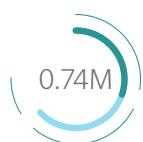
STEP COUNT



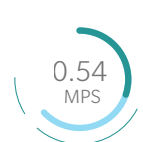
Functional Range of Motion



DISTANCE TRAVELED



STRIDE LENGTH



WALKING SPEED



CADENCE

## Modes of Operation

The Persona IQ Smart Knee Implant has five modes of operation. When the implant is not collecting data, it is in a low power mode to conserve battery power. When viewing data, if no values are present during a particular day or period of time, it simply means during this period the implant was not collecting data per its program.

### Low-rate mode

- Step counting & activity detection from pedometer (independent of IMU)

### Medium rate mode

- Sampling IMU accelerometers and gyroscopes at up to 75 Hz
- Gait parameters are defined through this data

### High rate mode

- Sampling IMU accelerometers @ up to 800 Hz

### Deep sleep mode

- Battery conservation mode

### Standby mode

- Self-test & sensor check and prior to data transmission to Home Base Station

Sampling Mode	Monitoring Periods			Data Collection Duration
Low	7am - 10pm			15 Hrs
Medium	7am - 12pm	1pm - 5pm	6pm - 10pm	Suggest 3 Times/Day   10 sec/window
High	7am - 12pm	1pm - 5pm	6pm - 10pm	Suggest 3 Times/Day   1 sec/window

### Sampling Schedule

Day of surgery and day after surgery	Day 2 to Day 365	Year 2	Years 3 and beyond
No data collection	Data is collected daily	36 consecutive days/quarter	36 consecutive days starting on the anniversary of your surgery date

**Customer Support: Email: [SmartKneeSupport@zimmerbiomet.com](mailto:SmartKneeSupport@zimmerbiomet.com) | Call: 844-799-8208**

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Patients must have Internet access and a text capable mobile device or a compatible smartphone to use mymobility; not all smartphone app features are available with web-based version. Not all patients are candidates for the use of this product and surgeons should evaluate individually to determine which patients are appropriate for therapy at home. ©2022 Zimmer Biomet

**WARNING - The kinematic data from this device have not been demonstrated to have clinical benefit. It is not intended to be utilized for clinical decision-making, and no data have been evaluated by FDA regarding clinical benefits.**



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