

Moore4Medical

WP5

Towards X-ray free surgery



Work package leader:
Robert Hofsink

Philips IGT: Who is who and where



Robert Hofsink

WP5 leader



Mirjam Rubbens

New Business Developer



Peter Spaan

Project Leader



Arjan Mank

Principal Technologist



Elbert van Putten

Sr. Designer



Ferry van der Linde

Technologist



Philips Innovation Center Eindhoven
North. Best, The Netherlands.

3200+ employees

Activities focus on Precision Diagnosis
and Image Guided Therapy

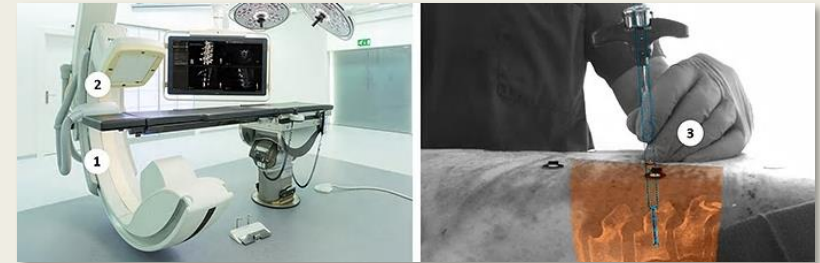
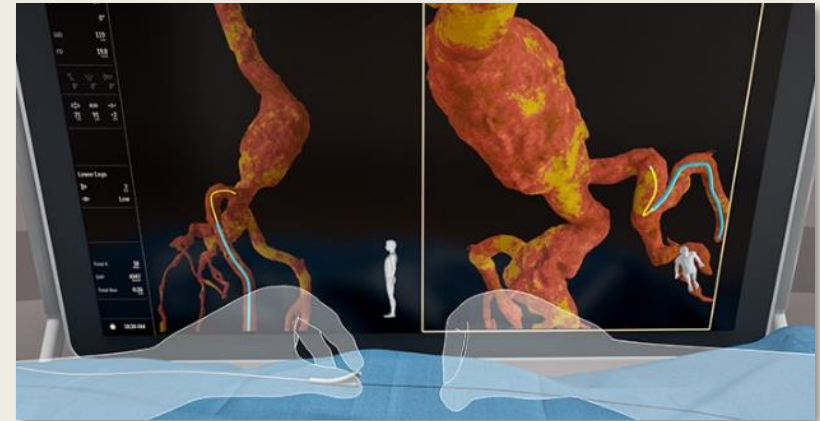
Philips IGT: our capabilities

Philips is the leader in image guided therapy, integrating best in class imaging solutions with specialized diagnostic and therapeutic devices to deliver a unique portfolio designed to help our customers conquer the most complex procedures.

Together with clinicians, we improve and innovate procedures through a unique market-leading portfolio of integrated interventional imaging systems, smart devices, disease-specific software as well as services and consulting

Philips IGT capabilities:

- Imaging & optical tracking technology
- Image Processing algorithms
- In-body navigation tools
- System Integration
- Clinical application insights



Philips IGT: our planned contribution

Philips IGT will develop optical imaging and tracking technology for 2 clinical application areas:

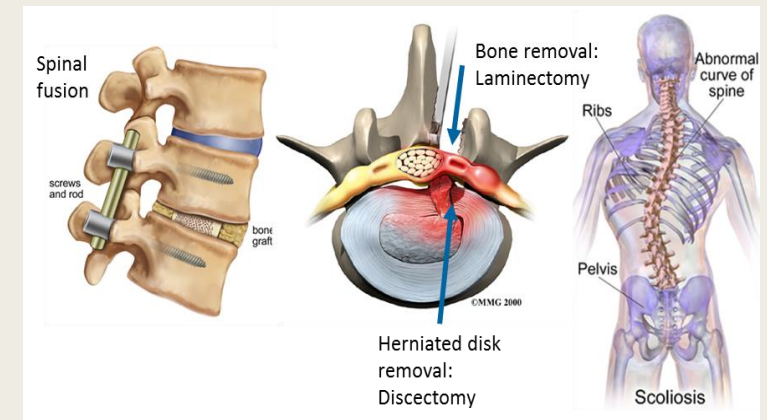
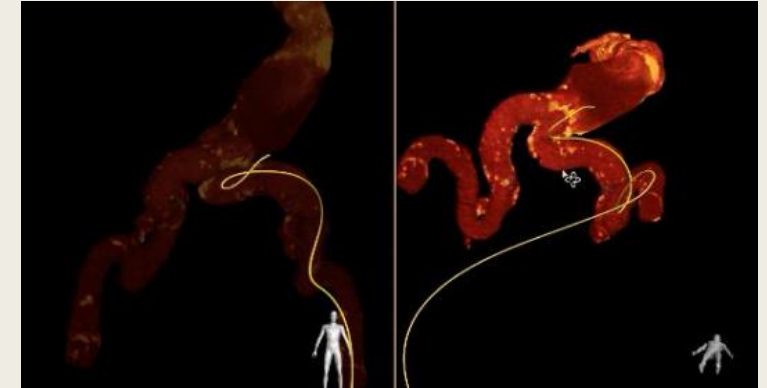
- Optical Shape Sensing for Vascular Diseases
- Optical Device Tracking for Spinal Surgery

Role:

- WP5 leader
- Develop back-loadable connector and guidewires
- Develop device exchange system for Optical Shape Sensing system
- Develop optical device tracking system for surgical navigation
- Integration of final demonstrators

Partners:

- Aesculap
- Integer
- Philips Research



Aesculap: Who is who and where



Wolfgang Daiber
Director
Glob. Marketing and
R&D Spine Surgery



Jens Beger
Senior Expert R&D
Spine & Neurosurgery



Susanne Klingseis
Expert R&D
Spinal Surgery
Project Leader



Denis Ricci
Sr. Product Manager
Glob. Marketing DSD



Heiderose Auchter
Sr. Product Manager
Glob. Marketing DSD



Cécile Wagner
R&D Engineer
Instrument Design



Robert Schultz
R&D
Advanced Orthop. &
Spinal Procedures



Headquarter: Tuttlingen, Germany

3.650 employees (Tuttlingen)

12.650 employees (worldwide)

Partner for surgical and interventional
treatment concepts in inpatient and
outpatient care.

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Aesculap: our capabilities

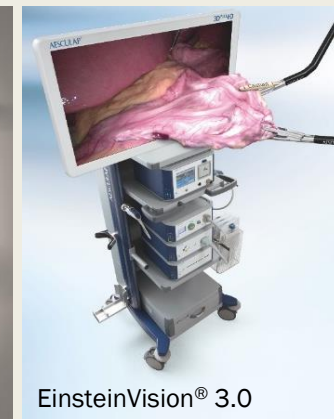
The Aesculap division is a partner for surgical and interventional treatment concepts in inpatient and outpatient care. Whether with surgical instruments, suture materials, implants, or sterile containers, the company strives for innovations which result in medical advances. Since 1976, Aesculap belongs to the B. Braun Group and is thus part of a family-run group with 64,000 employees in 64 countries.

Aesculap focuses on the following therapeutic areas:

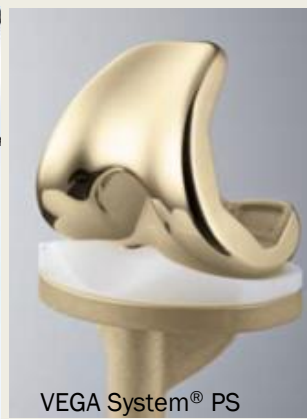
- Abdominal surgery
- Cardiothoracic surgery
- Orthopaedic surgery
- Spine surgery
- Neurosurgery
- Interventional vascular therapy
- Sterile goods management



3D Cage Family



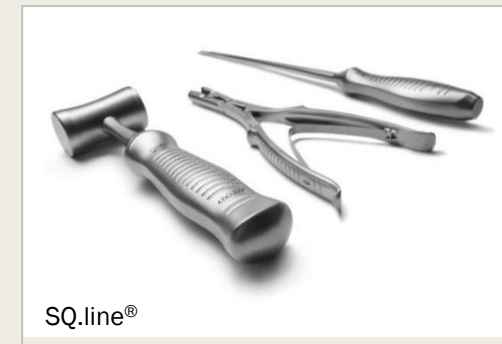
EinsteinVision® 3.0



VEGA System® PS



OrthoPilot® Elite



SQ.line®



AESCULAP® Aeos –
Digital Surgical Microscope Platform

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Aesculap: our planned contribution

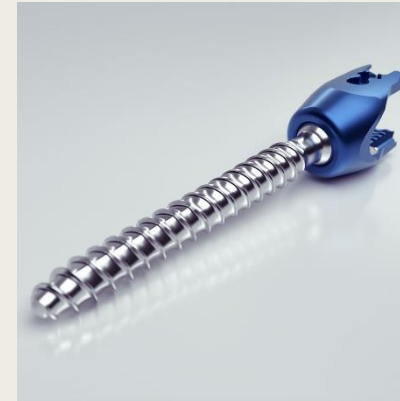
Aesculap as partner of Philips IGT will develop dedicated instruments for optical device tracking during navigated lumbar and thoracic pedicle screw instrumentation based on the Ennovate platform.

Role:

- Partner of Philips IGT within WP5
- Develop surgical instruments for optical tracking during navigated spine surgery
- Instrument solution provider

Partners:

- Philips IGT



Integer: Who is who and where



John Hayes PhD
Researcher in Residence
Sensors
Integer - Tyndall National Institute
Cork, Ireland



John Bolger
R&D Engineer II
Product Development
Integer R&D Innovation Centre
Claregalway, Ireland



Harshad Holehonnur
Principal R&D Engineer
Polymer and Coatings
Integer R&D Innovation Centre
Claregalway, Ireland

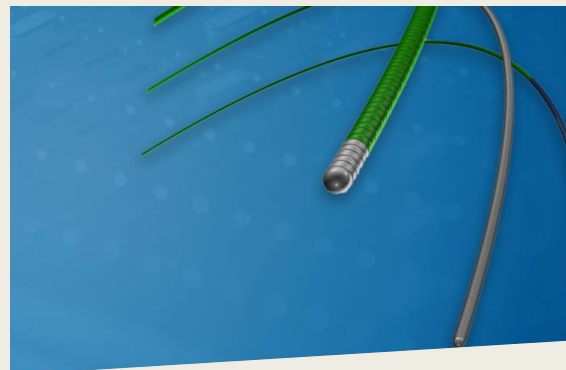


Marie Moloney PhD
Principal R&D Engineer
Metallurgy
Integer R&D Innovation Centre
Claregalway, Ireland



Integer Ireland

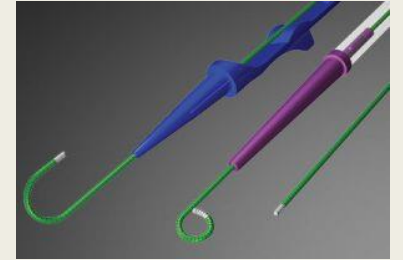
- R&D Centre - Claregalway, Galway
- R&D Centre - Tyndall Institute, Cork
- Product Development - Parkmore, Galway
- Integer Production - New Ross & Parkmore



Integer: our capabilities

Global Innovative Medical Device Manufacturing and Design

During our 70-year legacy of cutting-edge medical device manufacturing and medical device development, we have established a solid patient-focused foundation in cardiac rhythm, cardio and vascular health, neuromodulation devices, and custom medical battery packs and chargers for global OEMs. Integer is a world leader in advanced medical device design and outsourcing across four continents. Our technology and manufactured components can be found in almost every global medical device brand you trust. Our commitment to manufacturing excellence ensures that your medical devices get to market faster with uncompromising reliability and quality. Innovation is key to Integer's growth as we continue to explore medtech's emerging markets.



Integer: our planned contribution

Integer will coordinate the development of the backloadable guidewires and provide technology to create guidewires suitable for OSS using our extensive experience in the field of guidewire and catheter production.

The challenge is to create devices with an inner lumen that will fit a shape-sensing fiber, while maintaining the handling qualities of predicate guidewires.

Such devices have various sections, which are e.g. torque-absorbing or transitional in stiffness. This means that a range of new solutions in the form of alternative materials and structuring will be created that will be demonstrated in functional devices.

Partners:

- Philips IGT

