Medical Devices & Imaging Technology Cluster Value Proposition
About the Medical Devices and Imaging Technology Cluster

Definition
- Tracks technology trends and developments across the continuum of care, thus providing key opinion leaders with both technical and market intelligence, allowing them to be abreast of market dynamics and opportunities.
- Provides actionable insights and strategies to address global challenges that include new market entry, regulatory hurdles, reimbursement, cost and quality.
- TI's Technology and Innovation research spans the entire gamut of R&D in the Medical Devices and Imaging sectors and includes biosensors, biomaterials, biomechanics, micro and nanotechnologies besides assistive technologies.

Coverage

Technologies/platforms covered:
- Imaging Devices
- Biologically derived Devices
- Active Implantable Devices
- Assistive Technology
- Ophthalmic and Optical Devices
- In Vitro Diagnostic Devices
- Single Use and Resuable Devices
- Non-Active Implantable Devices
- Anesthetic and Respiratory Devices
- Electromechanical Medical Devices
Key Trends and Future Direction

Medical Devices and Imaging Technology

- Increase use of home and self care Medical devices
- Focus on early diagnosis, digitized patient information from numerous locations
- Increase use of IT in medical imaging and medical devices, thus driving interoperability
- A “paperless” hospital and the use of digital paper records to access patient records

Material, Manufacturing Processes and Technology advances leading to improved patient compliance
- Industry Consolidation - Increase in Mergers and Acquisitions
- Global harmonization of standards and regulatory requirements facilitating market growth
- Implementation of Unique Device Identifier (UDI) system for medical devices to reduce medical errors, adverse report tracking

Future Trend

As medical device, pharmaceutical and biotechnology products converge, medical devices will act as delivery systems for pharmaceutical treatments and research resulting from genetic engineering and biotechnology research.
Medical Devices – Research Focus Areas

- **Medical Devices**
  - Cardiac devices, orthotics, prosthetics, implants, bionics, & neuroprosthetics

- **Medical Imaging**
  - Ultrasound, MRI, CT, X-rays, Interventional Radiology, Diagnostics Imaging, Biomarkers

- **Regenerative Medicine**
  - Tissue Engineering, Combination Devices, Advanced Wound Care

- **Surgical Systems**
  - Image-guided surgery, Minimally invasive surgery, Computer-assisted surgery, Surgical Robots, Surgical Laser

- **Medical Diagnostics**
  - Point-of-care diagnostics, Biosensors, Nanofluidics/BioNEMS

- **Healthcare IT**
  - Electronic health records, patient portals, healthcare analytics, mHealth, telemedicine, Integrated Healthcare

Focus Areas
# What you get as part of this Service

## Technology Reports

**The Benefits:**
- Identify and analyze emerging and disruptive technologies; existing and potential applications
- Track the growth of new and incumbent technologies
- Identify complementary processes, materials, devices, systems
- Manage your R&D - Investments, Portfolio and Intellectual Property and Identify Trade-offs
- Identify and contact potential partners
- Track funding of technologies
- Competitive Scenario, Stakeholder interest, emerging regulations and standards

## Technology Alert Newsletters

**What is an Emerging Technology Alert?**
- Captures recent technology developments and innovations across the globe in an array of business verticals, on a regular basis
- Offers information on technology/business challenges and how the recent development addresses the challenge
- Analyzes the prospects of the technology/ product along with specific information on intellectual property, what the patents numbers are, whether developers are seeking collaborators for a specific purpose and how to contact them
- References given for the names of journals with papers published about processes

**Benefits:**
- Keeps you abreast of emerging developments as they happen
- Information is pushed to your key people
- Bringing you technologies from outside your sphere of influence

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**Our Analyst Briefings:**
These represent powerful, analyst-driven webinars that highlight the major findings from Frost & Sullivan's ongoing research into technology, economics, and markets. These interactive events attract C-suite leaders and highlight major new opportunities for growth, strategies, best practices, and investment opportunities.
## Technology News Alerts

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* Those highlighted in red indicate content that has relevance to the Sensors & Controls cluster.
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Value Proposition

The Medical Devices and Imaging Technology Cluster provides the following critical insights for the innovation professional:

- Identify Investment Opportunities
- Discover Partners and Competitors
- Adopt/Access Technology Before Your Competitor
- More efficiently Allocate Funds Exploit Opportunities
- Achieve More Accurate and Timely Due Diligence
- Calculate Value and Opportunity ROI

Medical Devices and Imaging Technology Cluster Subscription