



WHY BIOTRONIK?

EXCELLENCE FOR LIFE



OUR MISSION



We Exist to Perfectly Match Technology with the Human Body, to Advance Health and Well-Being for All People



HERITAGE

Prof. Dr. Max Schaldach & Otto Franke founded BIOTRONIK over 60 years ago in Berlin, Germany. They had one focus: changing lives. Today that vision lives on with over 8,000 employees delivering life-saving technologies across the globe, while remaining a privately owned company.



INNOVATION

Since 1963 when the first human was implanted with a BIOTRONIK pacemaker, innovation has been the lifeblood of the company. From improving energy efficiency & therefore battery longevity in the first model, to pioneering remote monitoring of CRM devices, we continue to focus on changing lives.



COMMITMENT

Economic success and corporate social responsibility go hand-in-hand at BIOTRONIK. Committing to clinical research, HCP training, and community service are a few ways we contribute to the future of communities around the world.



QUALITY

Quality is fundamental to BIOTRONIK, surpassing deadlines and profitability. We honor our founders' commitment to rigorous research and robust quality. Emphasizing safety and reliability, we maintain the highest standards in all processes, guided by our principle, "**Excellence For Life.**"



CONTENT



HERITAGE

- Timeline
- Our Future



INNOVATION

- Full CRM Portfolios



COMMITMENT

- Clinical Research
- Clinician Education
- Social Impact



QUALITY

- R&D Process
- Our People
- Vertical Integration
- Track Record



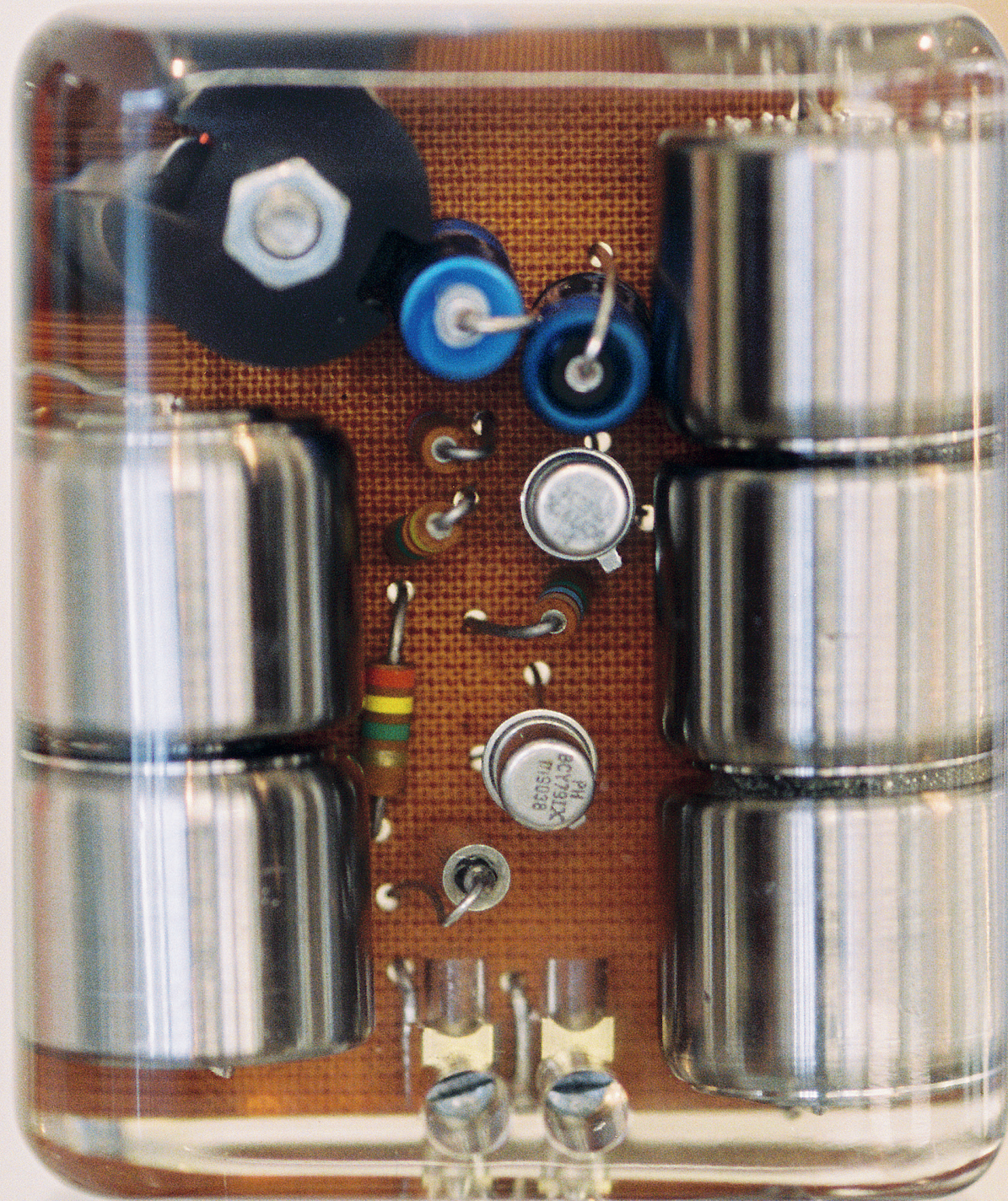
MORE THAN 60 YEARS



After collaborating on the development of the first pacemaker model at the Technical University of Berlin, Prof. Dr. Max Schaldach & Otto Frank founded BIOTRONIK over 60 years ago in Berlin, Germany. They had one focus: changing lives. Today that vision lives on with over 8,000 employees delivering life-saving technologies across the globe, while remaining a privately owned company.

MORE THAN 60 YEARS

The History of BIOTRONIK



1963

First BIOTRONIK
Human Pacemaker
Implant and Birth
of the Company



1976

European Branch
Expansion Into
Austria and
France



1979

Expansion Into the
United States
and Other
Global Markets



MORE THAN 60 YEARS

The History of BIOTRONIK



1995

Development of
Groundbreaking
Closed Loop Stimulation
(CLS)



2000

Introduction of
Home Monitoring, the
First CRM Remote
Monitoring System

MORE THAN 60 YEARS

The History of BIOTRONIK



2009



2014

World-First Innovations and Improvements
Across the Entire BIOTRONIK Portfolio:

- Inclusion of ProMRI technology for pacemakers
- World's smallest pacemaker with over a decade of battery life, Evia
- Introduction of DX technology: the world's first single-chamber ICD with complete atrial diagnostics



MORE THAN 60 YEARS

The History of BIOTRONIK



2016

Manufacturing
Expands
to Singapore



2019

World's First
Medical Device
Regulation (MDR)
Certification
for a Class III
Medical Device



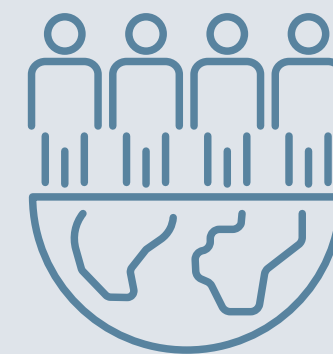
2023

Expansion Into
Neuromodulation
in the U.S. with
Prospera™



OUR FUTURE IS BRIGHT

Moving Forward as a Global Leader



3

High-Tech
Manufacturing Hubs
Around the World

>8,000

Total
Employees

>100

Helping Patients in
Over 100 Countries

We look forward to the future, launching new products, entering new markets, and serving even more physicians and their patients.

PIONEERING THE FUTURE



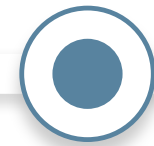
Since 1963 when the first human was implanted with a BIOTRONIK pacemaker, innovation has been the lifeblood of the company. From improving energy efficiency & therefore battery longevity in the first model, to pioneering remote monitoring of CRM devices, we continue to focus on changing lives.

PRODUCT PORTFOLIO

Cardiac Rhythm Management



DIAGNOSTICS



BRADYCARDIA



TACHYCARDIA



CRT



RADIATION PROTECTION



UNIQUE TECHNOLOGIES

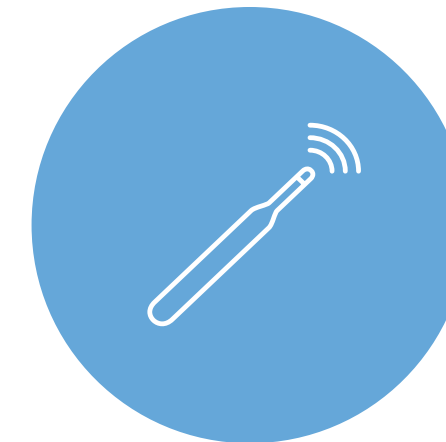
Cardiac Rhythm Management



MRI Guard 24/7

Automatically detects MRI field and reprograms device to MRI settings during procedure

Streamlines workflow for MRI patients



SmartECG

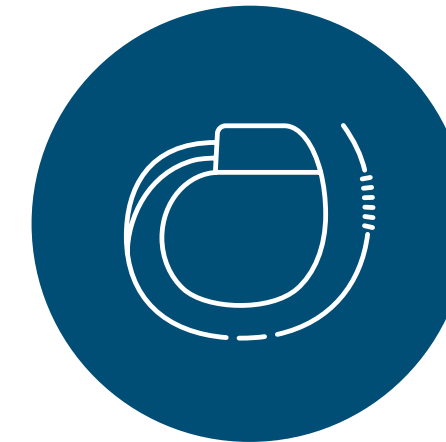
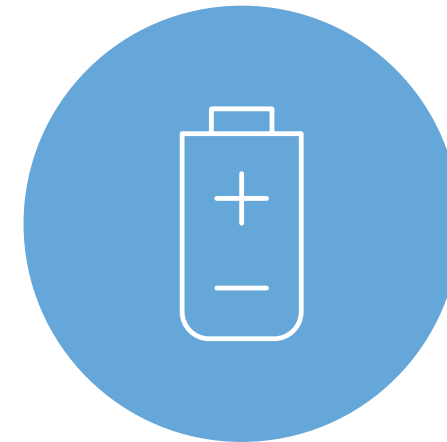
Utilizing AI technology in BIOMONITOR IV to improve clinician workflow efficiency

Reduces false alert burden by 86%⁴

Battery Longevity

Battery capacity drives battery longevity

Industry-leading ICD and CRT-D battery chemistry¹



DX Technology

Improved patient outcomes over SC-ICD

Accurate detection of subclinical AF^{5,6} without atrial lead complications^{7,8,9}

Physiologic Pacing

The first and only FDA-approved stylet-driven lead and dedicated catheter combination for LBBAP:

Solia S & Selectra 3D^{2,3}



BIOTRONIK Home Monitoring[®]

The only remote monitoring system with automatic daily transmissions

Early detection and lower mortality rates^{10,11}

Giving heart rate control back to the patient's autonomic nervous system:

Closed Loop Stimulation (CLS)



EggNest[™]

Protection for everyone in the lab

Radiation reductions up to >99%¹²



ONE FOCUS: CHANGING LIVES



Economic success and corporate social responsibility go hand-in-hand at BIOTRONIK. Committing to clinical research, HCP training, and community service are a few ways we contribute to the future of communities around the world.

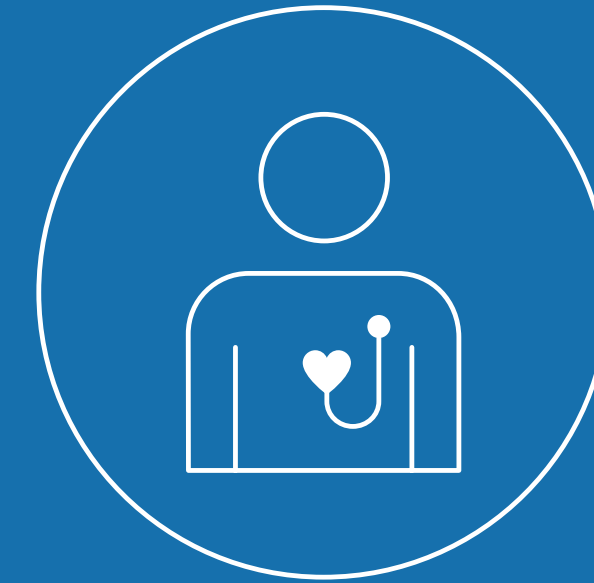
CLINICAL RESEARCH

BIOTRONIK is Committed to Supporting Further Developments in Cardiology



200

In its 60-year history, BIOTRONIK
has conducted more than
200 clinical studies.



120,000

A total of **120,000 patients** have
been enrolled in BIOTRONIK's
clinical studies.

CLINICIAN EDUCATION



We Partner with the Medical Community for State-Of-The-Art Training, Education, and Research



INTERNATIONAL FELLOWS PROGRAM

BIOTRONIK'S International Fellows Program connects fellows-in-training with innovative technology, concepts, mentors, and industry leaders, while offering unique educational opportunities from Cardiology Fellowship through Electrophysiology (EP) training and during transition to practice.



EDUCATION PROGRAMS

Our relationships with thought leaders in Cardiology, EP, and Interventional Cardiology have created a reputation for BIOTRONIK as a leader in exceptional, thought-provoking educational programs. From peer-to-peer and debate-style programs, to innovative live case presentations, BIOTRONIK consistently develops strong agendas with the highest level of experts in our educational offerings.



MASTERY PROGRAM

BIOTRONIK Mastery has been developed in collaboration with thought leaders and designed to support healthcare professionals in optimizing care and streamlining their workflow. BIOTRONIK Mastery focuses on common clinical tasks in short, easy to digest modules to meet the needs of busy clinicians. These programs help clinicians achieve procedural and clinical proficiency with BIOTRONIK devices while enhancing their technical knowledge and skills, ultimately improving patient care.

SOCIAL IMPACT

We Work with Partners Across the World



Community Service

In addition to our partnership with Feeding America, BIOTRONIK provides various volunteer opportunities throughout the year. Employees can claim 8 hours of reimbursement pay for volunteering each year.



FROM THE HEART: MAKING A DIFFERENCE

- **Feeding America**
We partner with Feeding America for their “Feeding Across America” summer campaign, aimed at combating hunger for children who rely on school-provided meals. Employees across the US raise funds, gather donations, and come together to volunteer in their local communities.
- **Kids in STEM**
Through partnerships with local high schools, girls are invited to our Lake Oswego campus and given the opportunity to experience product demos and participate in workshops covering topics from circuitry to dissection, as well as learn more about careers in STEM from BIOTRONIK women leaders.



Employee Resource Groups

BIOTRONIK supports ERG's such as BRAVE and BIO-WE to advance women in the workforce, as well as committees supporting employee engagement.

DOWN TO THE LAST **DETAIL**

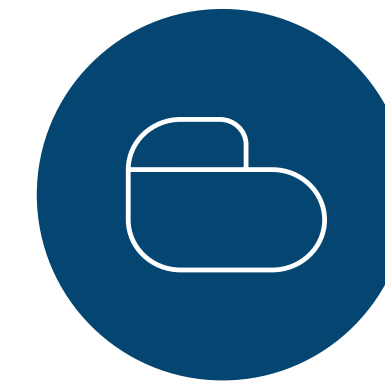


Quality is fundamental to BIOTRONIK, surpassing deadlines and budgets. We honor our founders' commitment to rigorous research and robust quality. Emphasizing safety and reliability, we maintain the highest standards in all processes, guided by our principle, "**Excellence For Life.**"

R & D PROCESS



"Excellence for Life" Means Integration of Quality Througout Every Step of Development



Defibrillators and pacemakers are tested for
UP TO 50,000 HOURS



400 MILLION CYCLES
of stress testing are performed on leads.



CYBERSECURITY
is of utmost importance, being built-in from
initiation of a project to annual testing of
simulated attacks.



OUR PEOPLE

"Excellence for Life" Means 100% Dedication to Quality



OVER
15%

Over 15% of Berlin employees are dedicated to quality assurance.



MORE THAN
1,250

More than 1,250 engineers with multitudes of sub-specialties.



12
YEARS

Average tenure of BIOTRONIK engineers of nearly 12 years.

VERTICAL INTEGRATION



"Excellence for Life" Means Strategic Investments in Vertical Integration



Vertical integration is the internal manufacturing of all critical device components, creating full visibility and oversight of processes, challenges and quality. This results in easier and more consistent alignment among R&D, manufacturing and quality teams throughout the full development process and not just the final product – a key differentiator from our competition.



100% in-house production
of all ICD/IPG/ICM
electronic components in
Lake Oswego, Oregon



Control quality by
controlling components



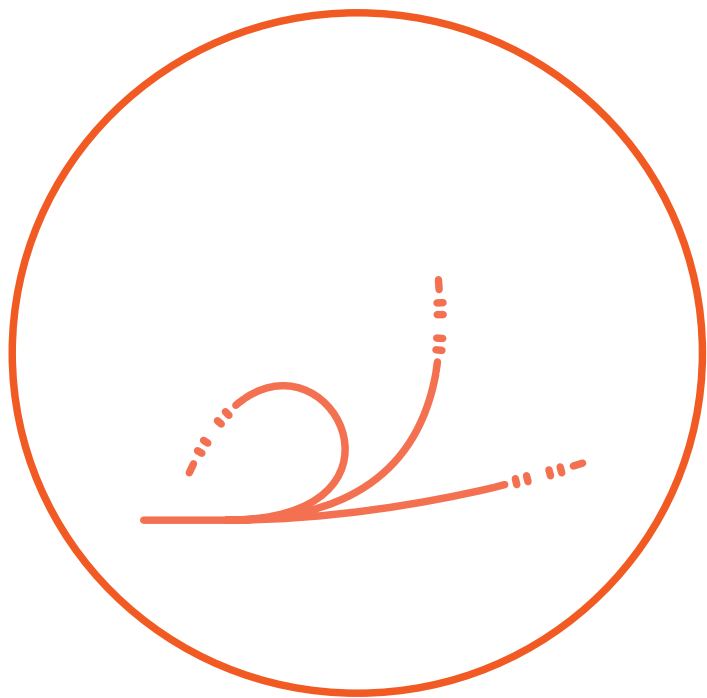
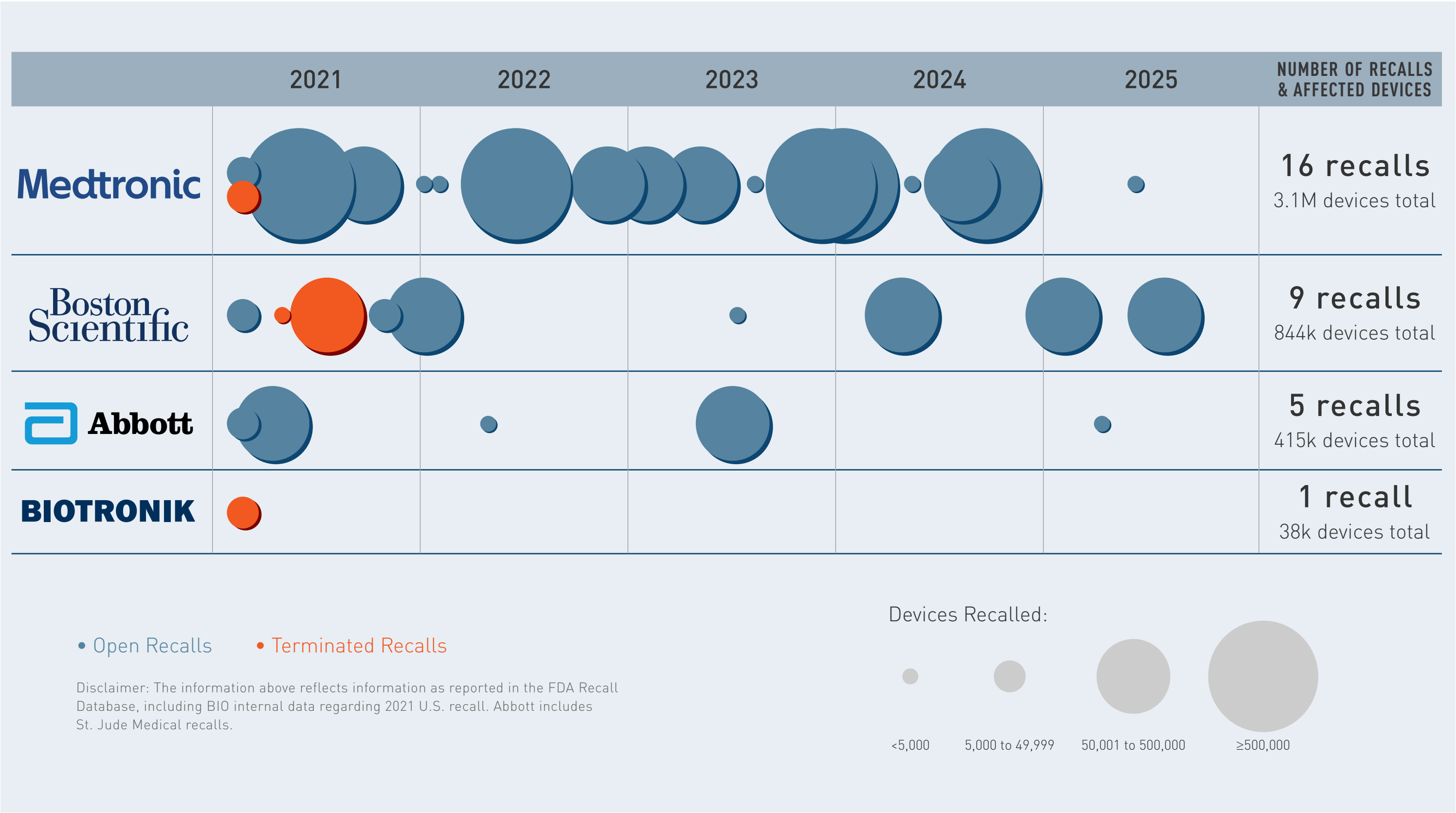
Quality and validation checks
that **surpass industry** safety
and reliability **standards**



TOP QUALITY TRACK RECORD



"Excellence for Life" Means Achieving Industry-Leading Quality Milestones



NO LEAD
RECALL IN
HISTORY

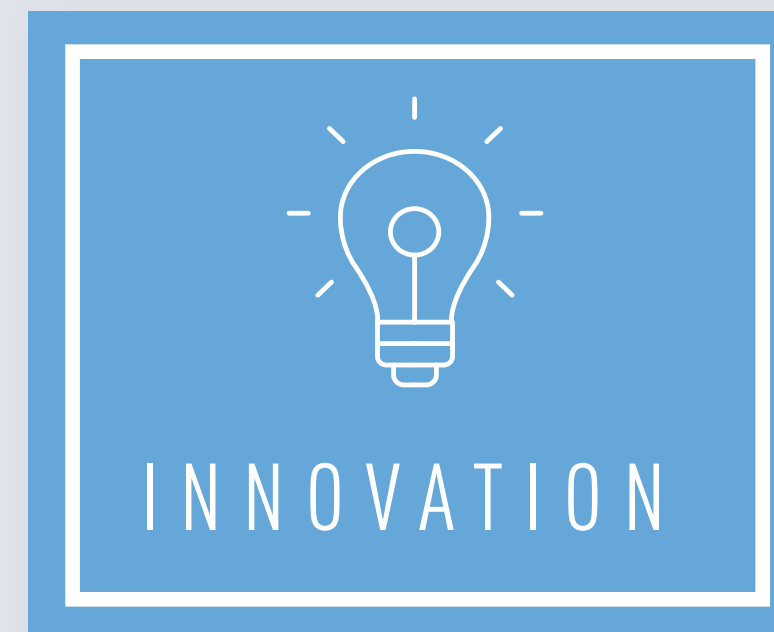
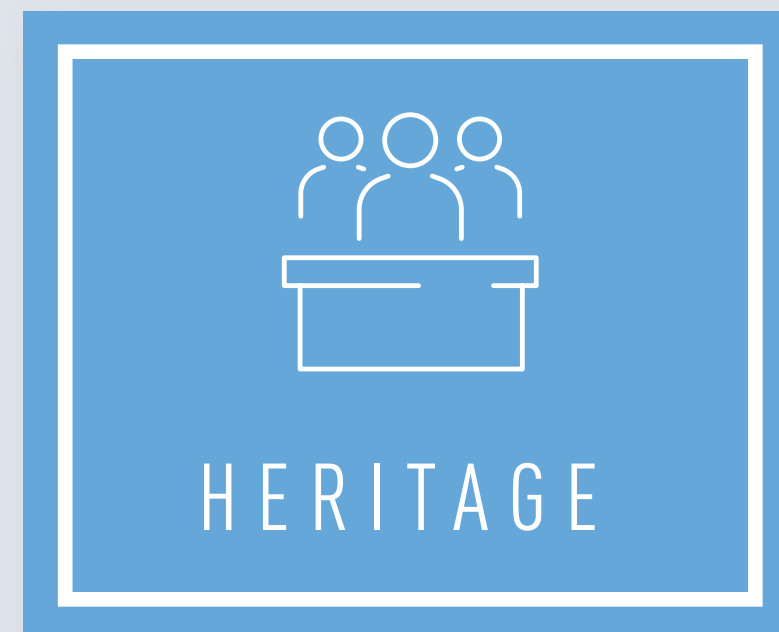
More than 6 million BIOTRONIK leads
distributed worldwide*





WHY BIOTRONIK?

Driven by a purpose to perfectly match technology with the human body, we are dedicated to innovation and quality to develop trusted solutions.





BIOTRONIK

EXCELLENCE FOR LIFE



THANK YOU.

From Vision to Impact, That's Excellence for Life.

BIOTRONIK is a leading medical device company that has been developing trusted and innovative cardiovascular solutions for over 60 years. Driven by a purpose of perfectly matching technology with the human body, BIOTRONIK innovation delivers care that saves and improves the lives of millions of patients with heart disease every year.

BIOTRONIK is headquartered in Berlin, Germany, and represented in over 100 countries with U.S. locations in New York City, and Lake Oswego, Oregon.

Get Connected:

BIOTRONIK, Inc.
6024 Jean Road
Lake Oswego, OR 97035-5369
(800) 547-0394 (24-hour)
(800) 291-0470 (fax)
www.biotronik.com

