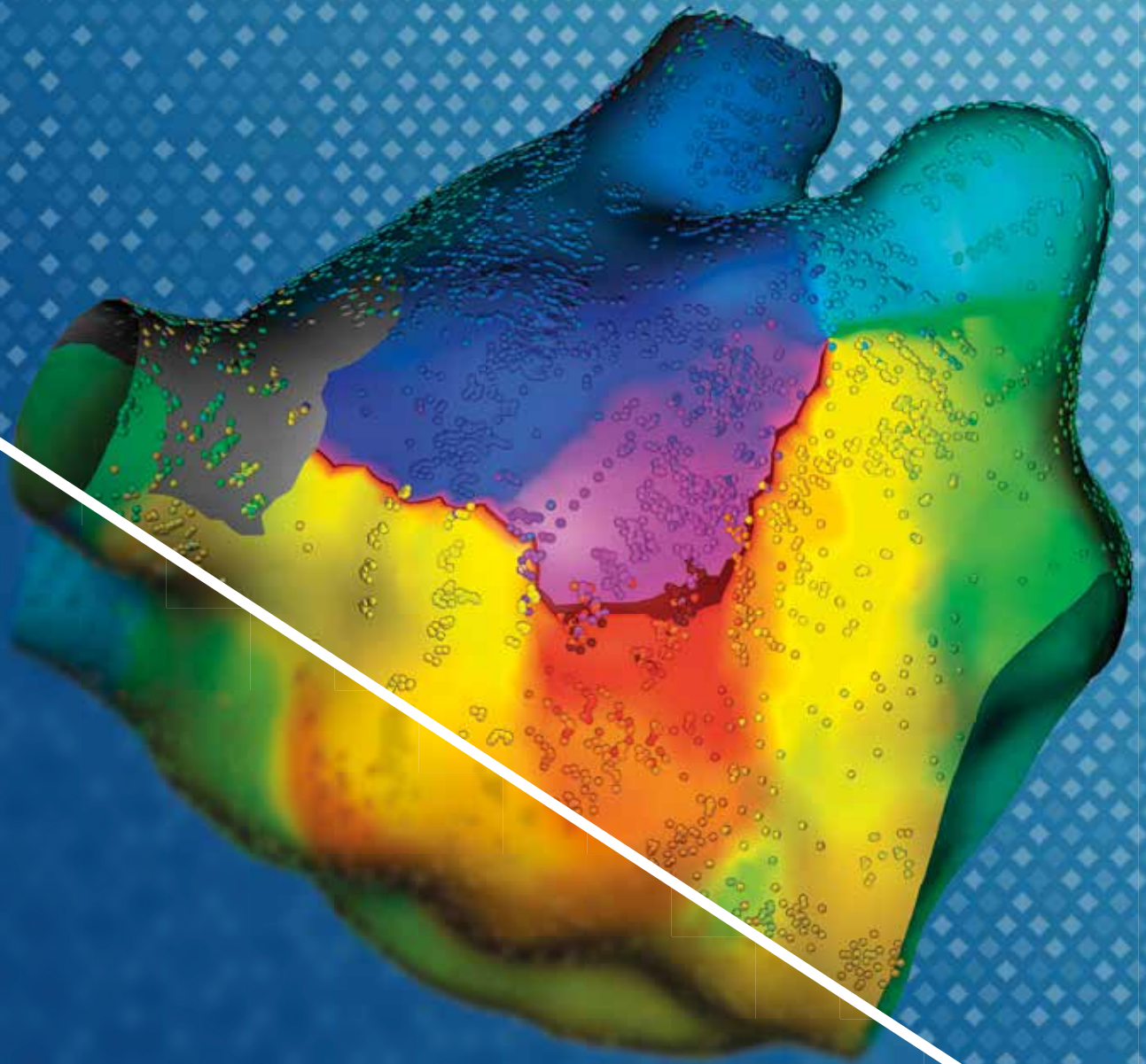


RHYTHMIA HDx™

MAPPING SYSTEM



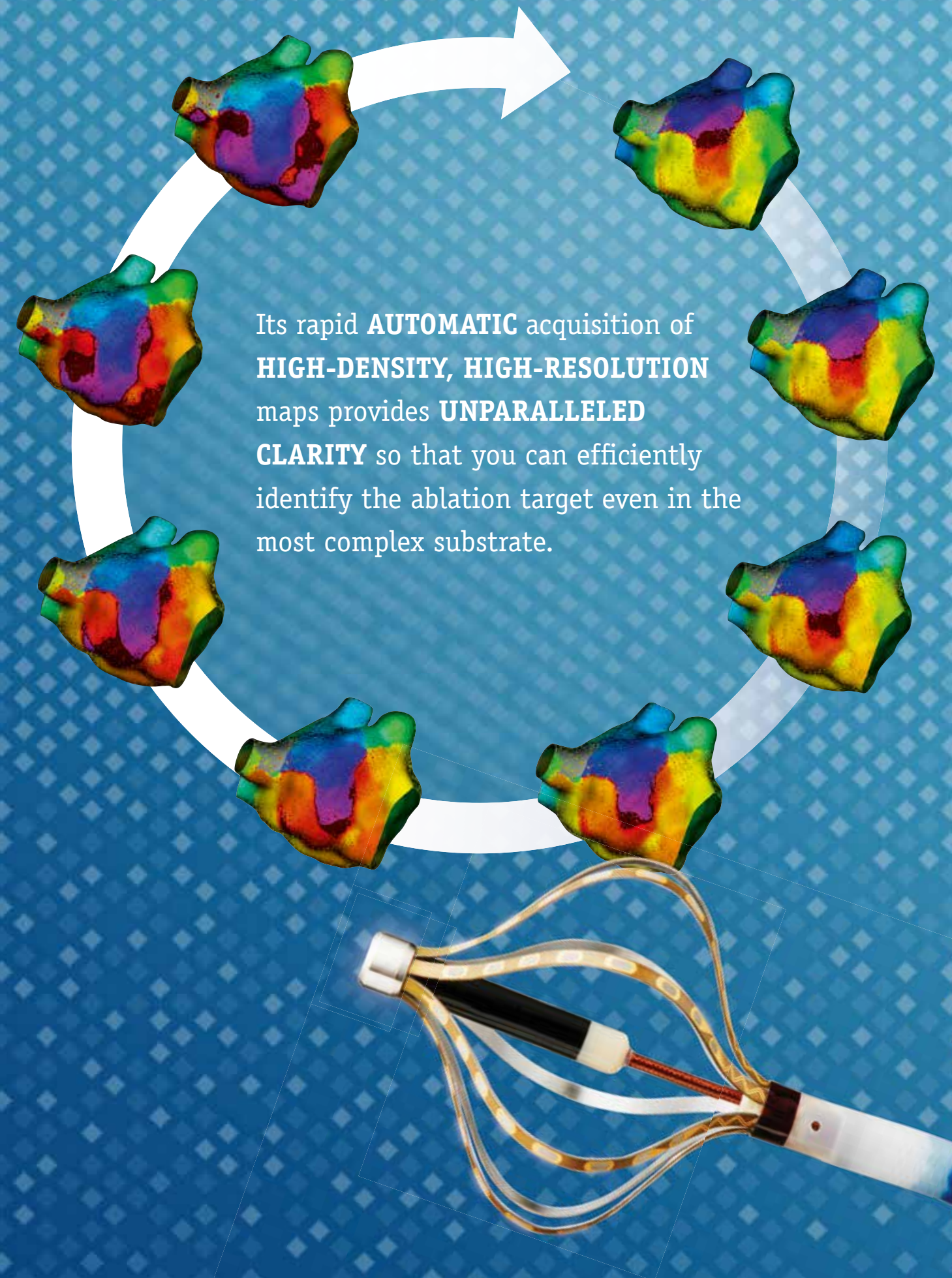
CLARITY

for any level of complexity

THE RHYTHMIA HDx™ MAPPING SYSTEM SETS THE STANDARD OF PERFORMANCE IN HIGH-DEFINITION MAPPING.



RHYTHMIA HDx
MAPPING SYSTEM



Its rapid **AUTOMATIC** acquisition of **HIGH-DENSITY, HIGH-RESOLUTION** maps provides **UNPARALLELED CLARITY** so that you can efficiently identify the ablation target even in the most complex substrate.

THE RHYTHMIA HDx™ MAPPING SYSTEM WAS BUILT FROM THE GROUND UP FOR HIGH-DEFINITION MAPPING.

C

HD CATHETER

“THE HIGH NUMBERS OF ELECTRODES PROVIDE

comprehensive and accurate electrical information to enable insight into underlying AT mechanisms and activation patterns that have rarely been available in this detail before.”

– Schaeffer et al.,¹ 2016

H

HD HARDWARE

“THIS SYSTEM IS ABLE TO DISPLAY LOW-VOLTAGE CRITICAL ISTHMOSES, which are far below the current scar cutoff of classically available systems.”

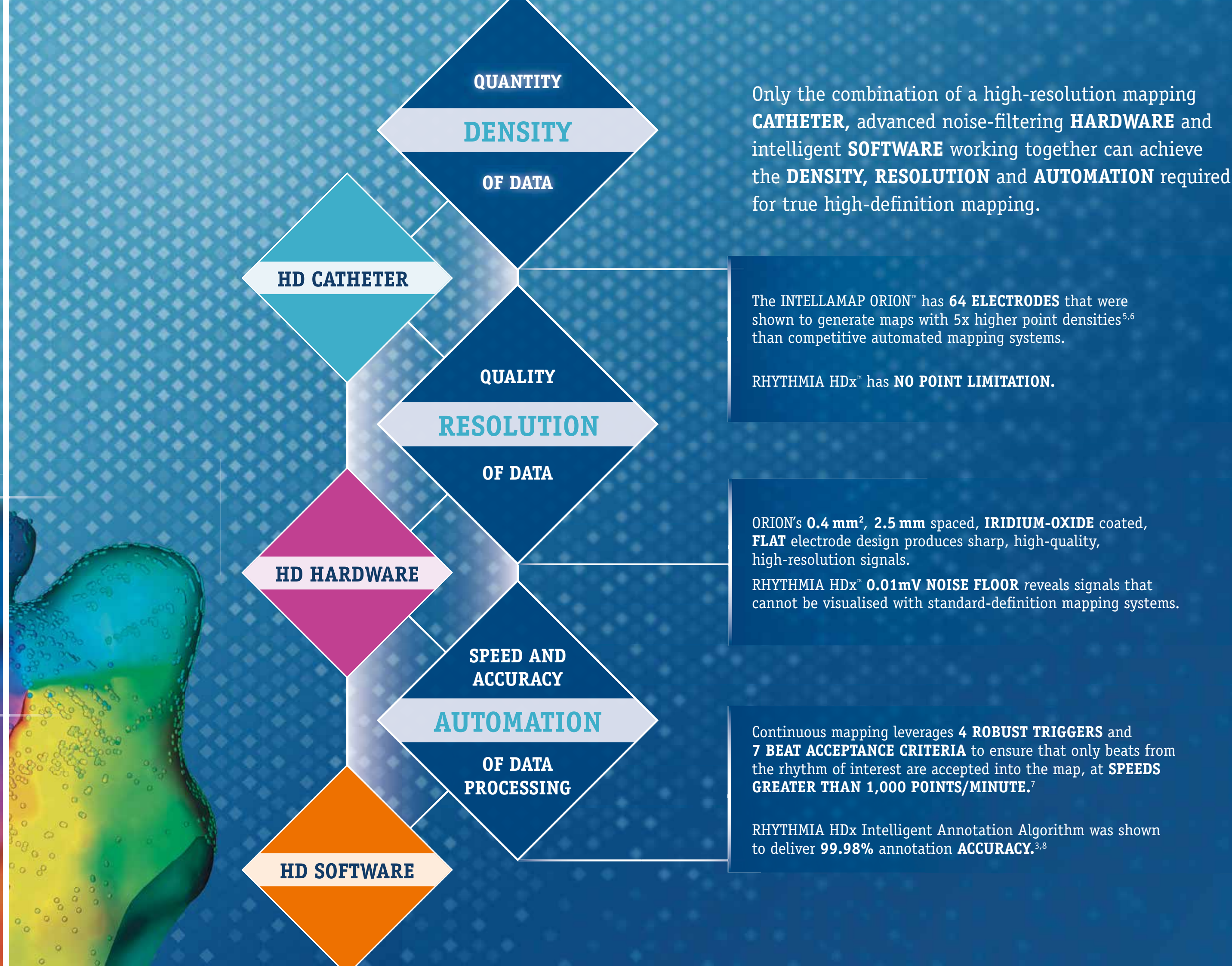
– Latcu et al.,^{2,3} 2017

S

HD SOFTWARE

“THE COMBINATION OF INCREASED SAMPLING DENSITY, MAPPING RESOLUTION AND A NOVEL ALGORITHM to improve the accuracy of activation timing resulted in the ability to construct activation maps with better characterisation of the circuit as compared to standard mapping technologies.”

– Anter et al.,^{3,4} 2016



HD CATHETER

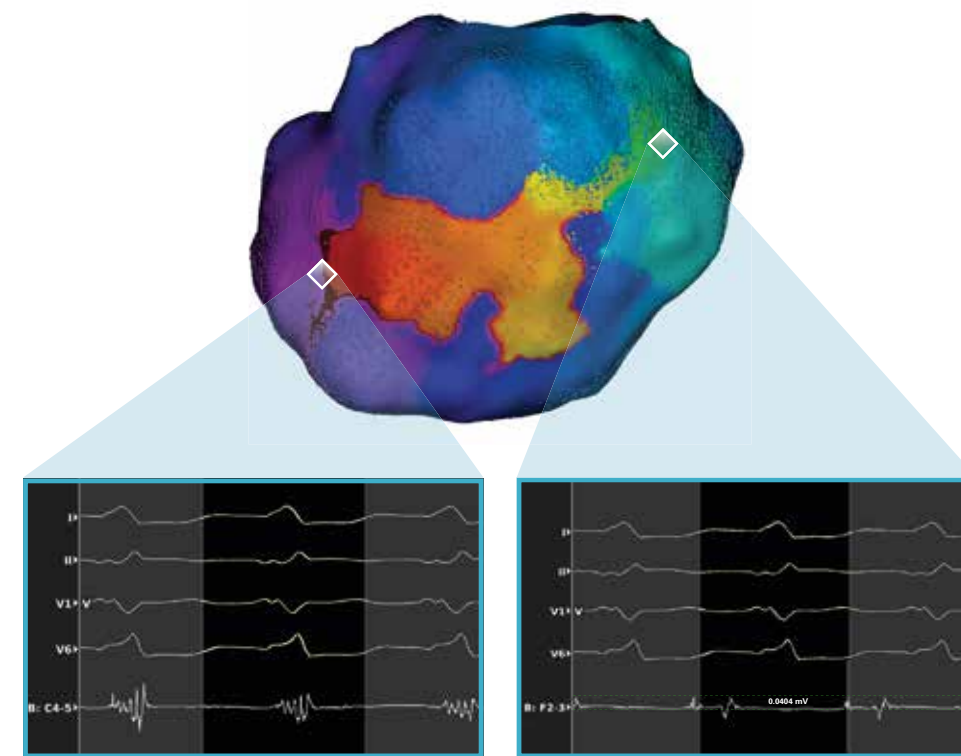
HD HARDWARE

HD SOFTWARE



1

DIAGNOSE WITH COMPLETE DATA

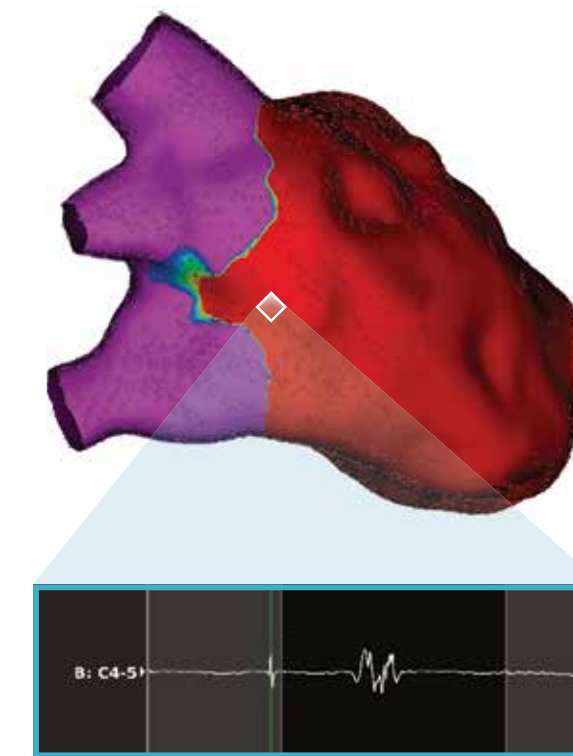


Ischemic VT activation map of a low-voltage critical isthmus. Courtesy of Frédéric Sacher, MD, CHU Bordeaux.

- Reduce the amount of interpolation between annotated points to more efficiently identify areas of interest
- Clearly visualise propagation of complex arrhythmia circuits
- Characterise complex substrates, including critical isthmuses, low-voltage regions of interest, scar and scar boundaries

2

DEVELOP A TARGETED ABLATION STRATEGY

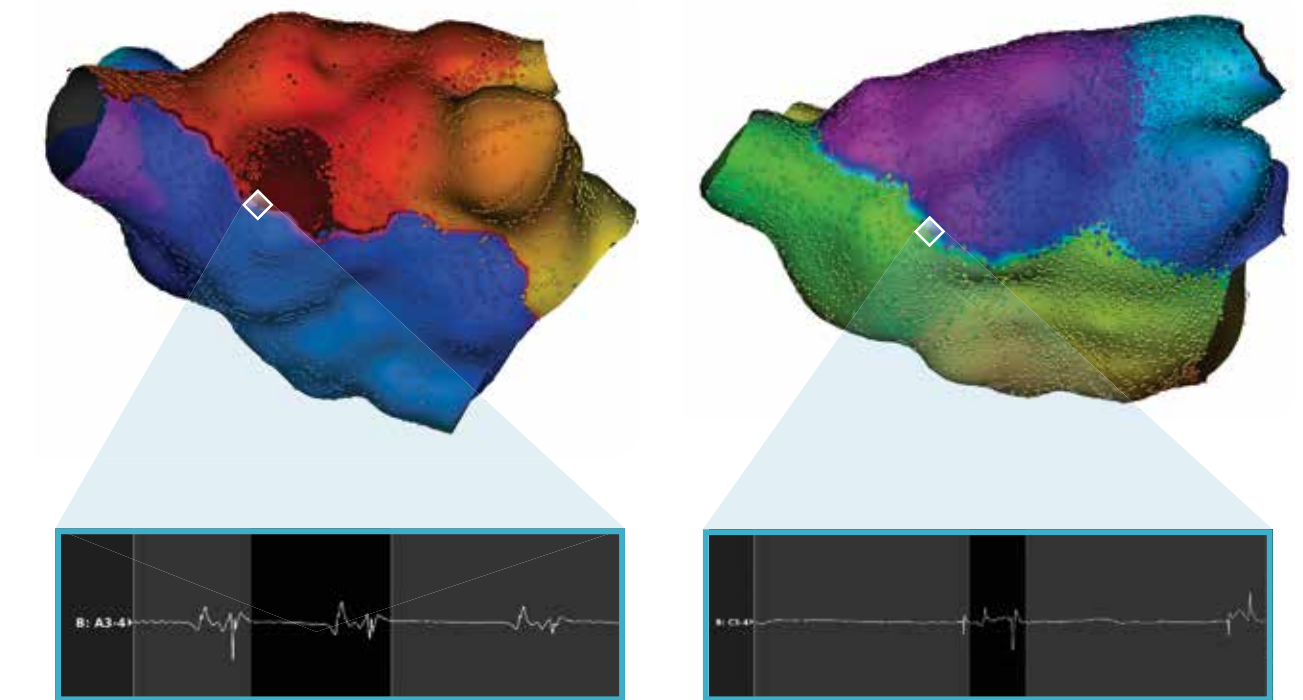


Redo AF activation map revealing a low-voltage gap in a previous PVI line. Courtesy of Jamie Kim, MD, Catholic Medical Center.

- Uncover channels and small gaps in previously ablated lesion sets
- Clearly visualise low amplitude and complex fractionated electrogrammes that are not visible with standard-definition systems
- Precisely identify the ablation target so that you can limit ablation time

3

EFFICIENTLY CONFIRM PROCEDURAL ENDPOINTS

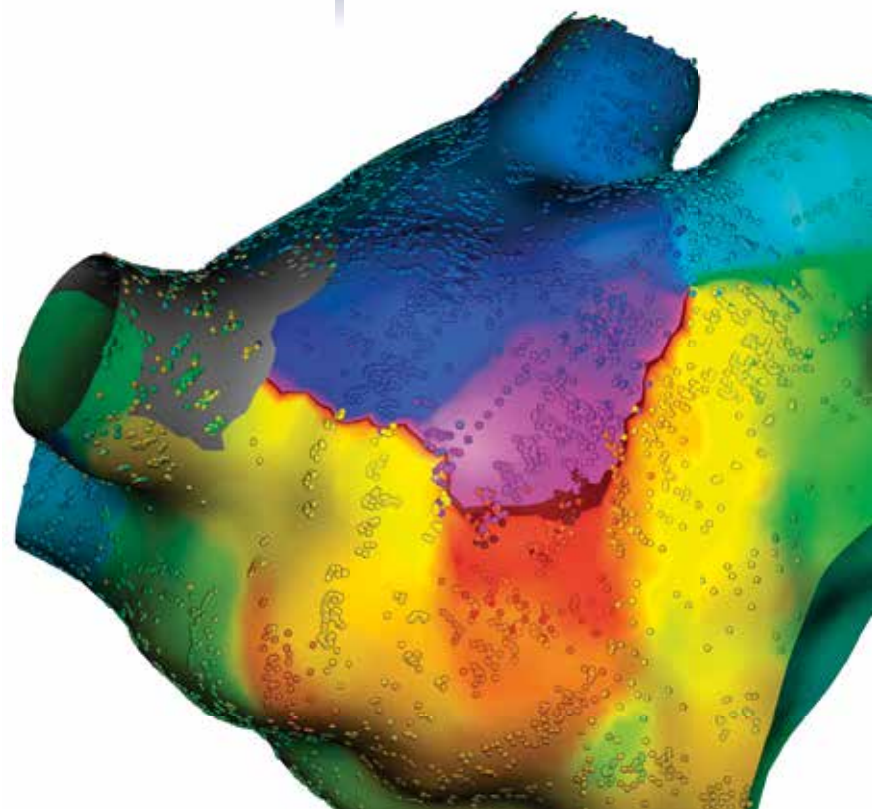


LA activation map revealing a gap in previous anterior ablation line. vMap post-ablation confirms bidirectional block. Courtesy of Vivek Reddy, MD, Mount Sinai Medical Center.

- Remap areas of interest at speeds $>1,000$ points/minute⁷
- Rapidly assess lesion integrity through post-ablation vMaps™

**THE BETTER
YOU CAN SEE IT,**
the better you can treat it.

The RHYTHMIA HDx™ Mapping System provides map clarity that cannot be achieved through standard-definition mapping technologies.



**RHYTHMIA HDx™ HYBRID LOCALISATION
PROVIDES YOU THE FLEXIBILITY TO
WORK WITH YOUR CHOICE OF CATHETERS.**

**MAGNETIC
NAVIGATIONAL
ACCURACY OF**



For optimal accuracy and efficiency, magnetic tracking supports mapping with the Boston Scientific INTELLAMAP™ and INTELLANAV™ catheters

**IMPEDANCE
BASED
NAVIGATIONAL
ACCURACY OF**



Impedance tracking supports mapping and visualisation of non-navigation-enabled catheters for flexibility of choice⁹



**INTELLANAV™
MIFI OPEN-IRRIGATED**
ABLATION CATHETER

**INTELLANAV™
OPEN-IRRIGATED**
ABLATION CATHETER

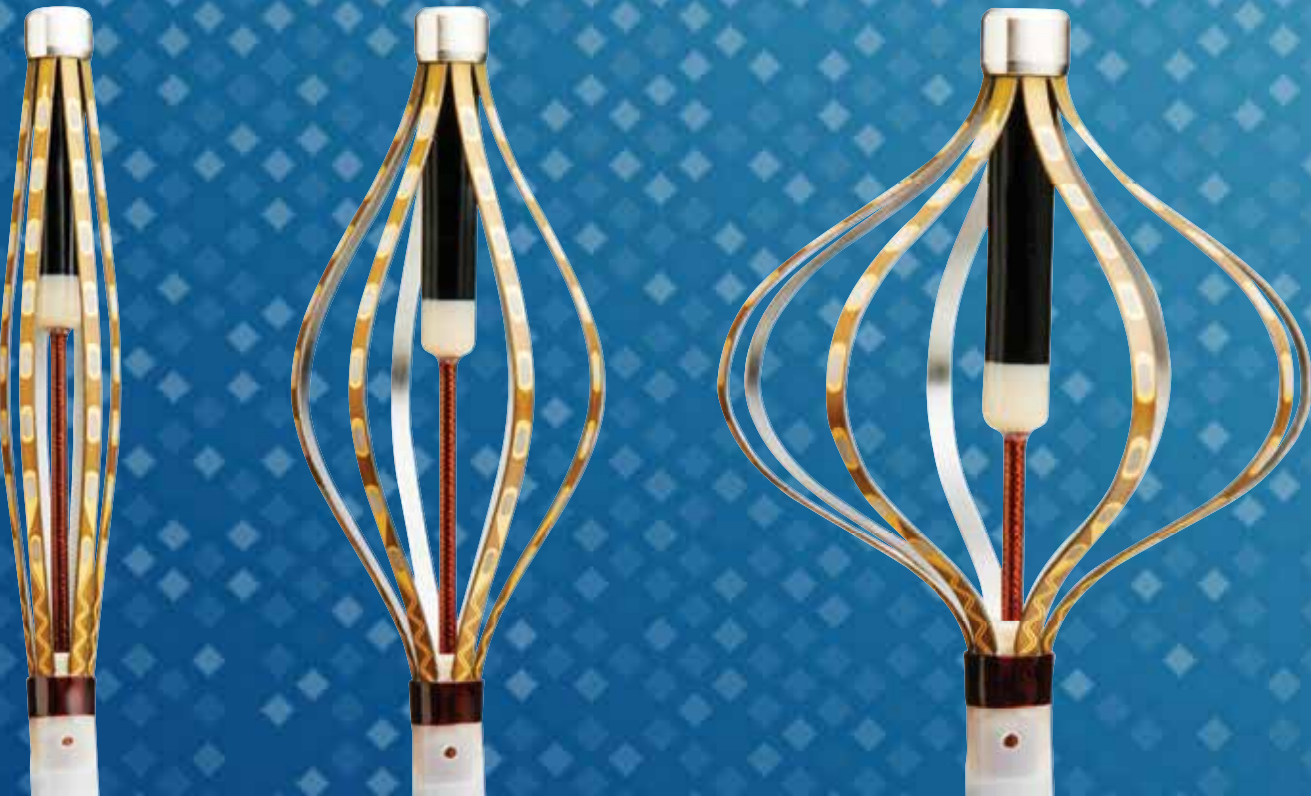
**INTELLANAV™
MIFI™ XP**
ABLATION CATHETER

**INTELLANAV™
XP**
ABLATION CATHETER

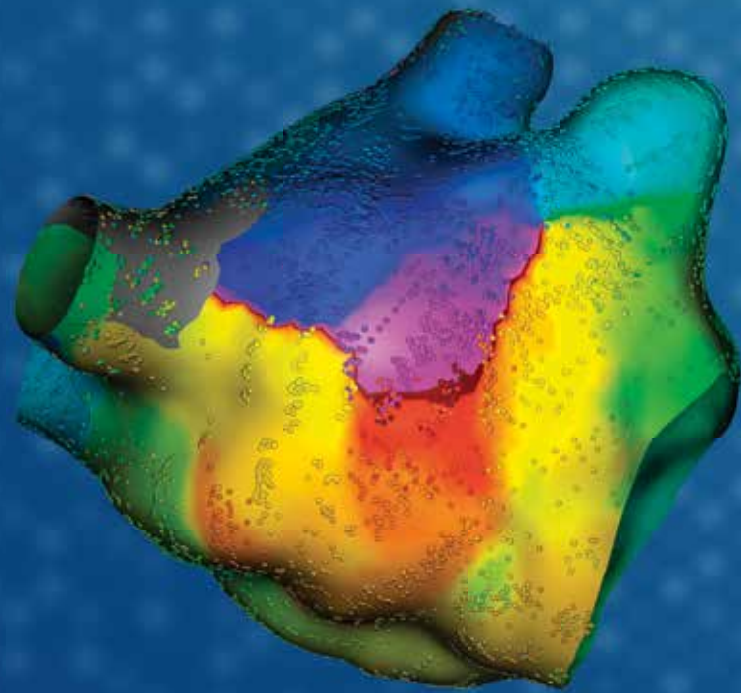
Boston Scientific offers a full portfolio of INTELLANAV™ Ablation Catheters.

FOR THE HIGHEST LEVEL OF ACCURACY, use the INTELLAMAP ORION™ Mapping Catheter plus an INTELLANAV Ablation Catheter for high-definition mapping and optimal tracking accuracy.

INTELLAMAP ORION™
MAPPING CATHETER



THE DIFFERENCE ...

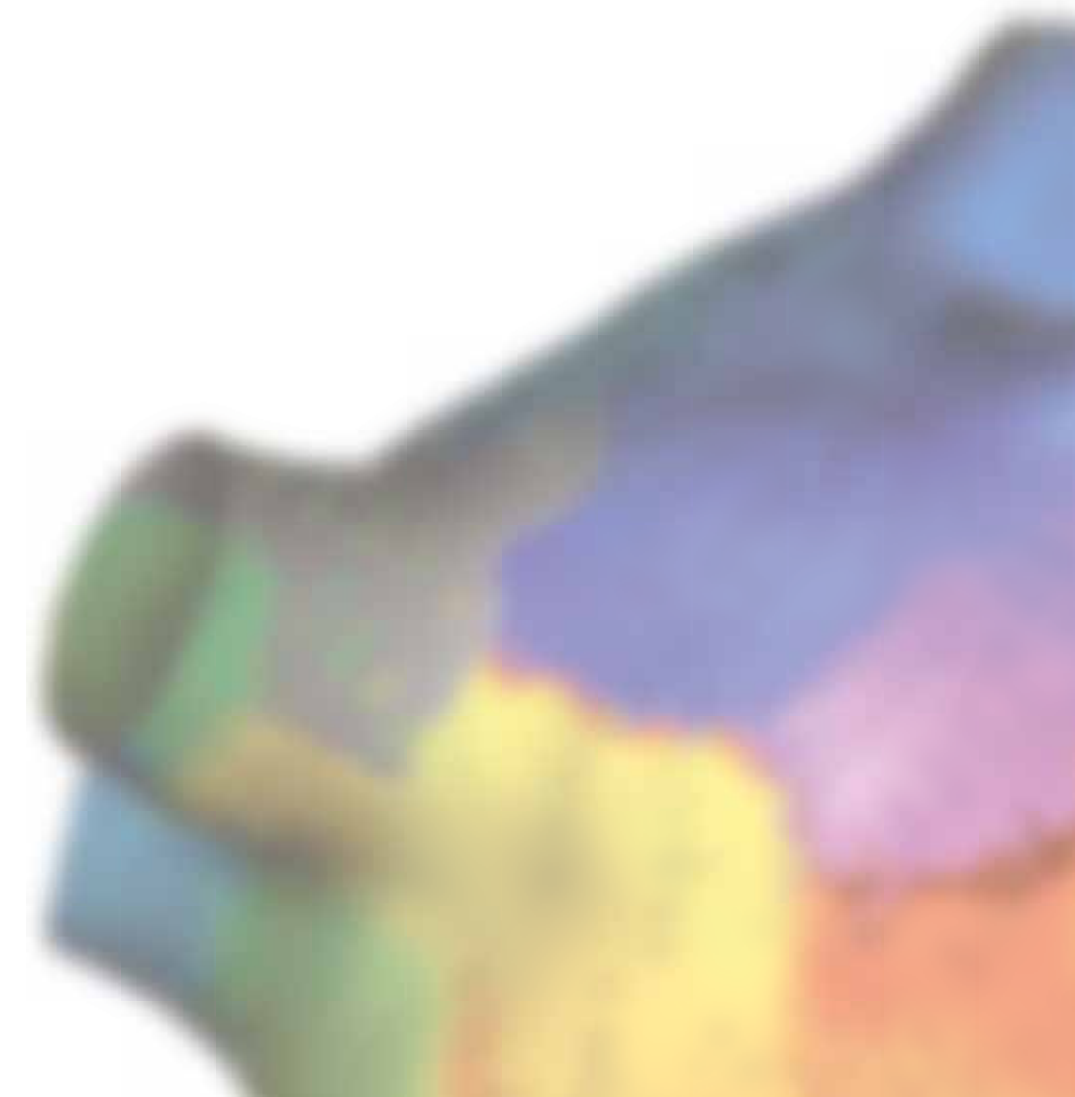


... IS IN THE DESIGN.

Left atrial activation map and cover image courtesy of Elad Anter, MD, BIDMC.

RHYTHMIA HDxTM

MAPPING SYSTEM



1. Schaeffer B, Hoffmann BA, Meyer C, et al. Characterization, mapping and ablation of complex atrial tachycardia: Initial experience with a novel method of ultra high-density 3D mapping. *J Cardiovasc Electrophysiol*. 2016 Oct;27(10):1139-1150.
2. Laţcu DG, Bun SS, Viera F, et al. Selection of critical isthmus in scar-related atrial tachycardia using a new automated ultrahigh resolution mapping system. *Circ Arrhythm Electrophysiol*. 2017 Jan;10(1). pii: e004510.
3. Study performed using Rhythmia™ Mapping System. Product specifications that deliver density, resolution, and automation remain consistent with Rhythmia HDx.
4. Anter E, McElderry TH, Contreras-Valdes FM, et al. Evaluation of a novel high-resolution mapping technology for ablation of recurrent scar-related atrial tachycardias. *Heart Rhythm*. 2016 Oct;13(10):2048-55.
5. Based on approximate mapping speed of 95 pts / minute in the right atrium in 5 swine USING THE ST. JUDE MEDICAL PRECISION ENSITE MAPPING SYSTEM. Ptaszek LM, et al. Rapid High-Density Automated Electroanatomical Mapping Using Multiple Catheter Types. Poster Session PO097 APHRS 2015.
6. Based on approximate mapping speed of 491 pts / minute in the right atrium in 5 swine USING THE BOSTON SCIENTIFIC RHYTHMIA MAPPING & NAVIGATION SYSTEM. Ptaszek LM, et al. Rapid Acquisition of High-Resolution Electroanatomical Maps Using a Novel Multielectrode Mapping System. JICE. Nov 2012.
7. Based on a minimum of 5 clinical publications to date demonstrating mapping speeds > 1,000 points / minute.
8. Mantziari L, Butcher C, Kontogeorgis A, et al. Utility of a novel rapid high-resolution mapping system in the catheter ablation of arrhythmias: An initial human experience of mapping the atria and the left ventricle. *JACC: Clin Electrophysiol*. 2015 Oct;1(5):411-20.
9. Connection boxes in addition to the MAESTRO™ Ablation System are not yet cleared in the U.S. but currently available in regions outside of the U.S.


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