

PlasmaBiotics System

*The unique solution for fast drying
and active storage of endoscopes*

SUCTION /
OPERATING

AIR /
WATER

WATER JET /
STORAGE



PlasmaBiotics System



Hygiene Commitment



Triple Aim

PlasmaBiotics System

The unique solution for fast drying and active storage of endoscopes

Research shows that to create and maintain an endoscopy's disinfected status, complete drying is an absolute necessity*.

As part of its Triple Aim program, PENTAX Medical continues to act for improved hygiene control and reduced infection and patient risk with the PlasmaBiotics System.

The unique and innovative combination for fast drying and active storage:



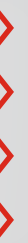
Finde more information on:

Triple Aim

Hygiene Commitment

PlasmaTYPHOON

PlasmaBAG




*Julia Kovaleva, a Frans T. M. Peters, b Henny C. van der Mei, c John E. Degener,
April 2013 Volume 26 Number 2 Clinical Microbiology Reviews,
Transmission of Infection by Flexible Gastrointestinal Endoscopy and Bronchoscopy

PlasmaBiotics System

The unique solution for fast drying and active storage of endoscopes


Perfect drying

PlasmaTYPHOON is designed to reduce the risk of infection by perfectly drying the scopes. Insufficient drying can be a source for microbial contamination and the transmission of infectious material.

Click for more information 


Controlled storage

The active storage in PlasmaBAG allows the storage of endoscopes, preserving the disinfection level already achieved. Inadequate storage can be a source of microbial contamination and transmission.

Click for more information 

Fully adaptable

The PlasmaBiotics System fulfills your needs by adapting to the number of scopes. It requires only limited working space and can help you to increase hospital efficiency.

Click for more information 



PlasmaBiotics System

Perfect drying

PLASMABIOTICS®
IN ASSOCIATION WITH **PENTAX** MEDICAL

"Accurate endoscope drying is crucial, whereas a humid environment facilitates microbial growth during storage. The final drying steps greatly reduce the risk of remaining pathogens."*



*Julia Kovaleva,^a Frans T. M. Peters, ^b Henny C. van der Mei, ^c John E. Degener,
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PlasmaBiotics System

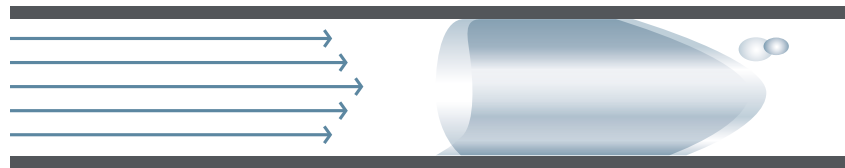
Perfect drying

PLASMABIOTICS®
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Reaching a perfectly dry status for endoscopes is crucial for ensuring greater hygiene and potentially lowering infection. The PlasmaTYPHOON uses an innovative approach to offer complete drying, quickly and efficiently.

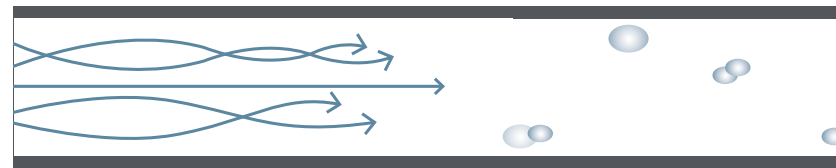
One to five minutes (depending on the model of the scope) is all that is needed to completely dry an endoscope.

STEP 1: Laminar flow



eliminates most of the residual fluid
in the channel

STEP 2: Turbulent flow



evaporates the fluid remains after step 1
in the channel

Result



perfectly dry
channel

While high velocity flow would break fluid, making it more difficult to dry, PlasmaTYPHOON uses a combination of different level of flows (laminar and turbulent) and temperature to completely dry endoscopes.*



*Biotech-Germade report, January 2015,

Evaluation of the Efficacy of a Drying Unit for internal Channels of Endoscopes

The unit's drying efficacy is validated by microbiological tests performed on different endoscope types, according to European standards, as well as visual observation of a stripped endoscope.

PlasmaBiotics System

Controlled storage

PLASMABIOTICS®
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*"The plasma contains ozone molecules which allows the endoscope to maintain its disinfected state up to 31 days *"*



*Validated for up to 744 storage hours (31 days) according to NF EN 16442 norm.
The maximum storage time may be subject to local regulations on endoscope storage.

PlasmaBiotics System

Controlled storage

Preserving endoscopes' dry and disinfected state is as important as reaching that status in the first place. A humid storage environment facilitates microbial growth and the transmission of infectious material: only by actively storing endoscopes can this be overcome.

The PlasmaBAG stores the dry endoscopes in their disinfected state by insufflating plasma containing ozone molecule into the storage bag, thus ensuring the disinfected state is maintained. It allows safe endoscope transportation, while also reducing the need for repeat reprocessing.



PlasmaBiotics System

Fully adaptable

PLASMABIOTICS®
IN ASSOCIATION WITH **PENTAX** MEDICAL

Get the most out of your time and space while also improving hygiene control.

Managing endoscopic fleets today is highly complex. This is why the PlasmaBiotics system was developed to optimize your efficiency.



PlasmaBiotics System

Fully adaptable

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IN ASSOCIATION WITH **PENTAX MEDICAL**

The PlasmaBiotics System is a versatile solution with the ability to reprocess scopes efficiently at higher numbers, as well as to be transported easily and safely.

As drying and storage is applied to the scope singularly and not as an array, it is more flexible than standard methods, such as a drying cabinet, avoiding any duplication of processing endoscopes, and thus providing an optimized workflow.

COMPATIBLE WITH ALL
MAJOR ENDOSCOPY BRANDS



REDUCE REPEATED
REPROCESSING



SAFE
TRANSPORTATION



FLEXIBLE STORAGE
CAPACITY



PlasmaTYPHOON

For ultra-fast and complete drying

PLASMA BIOTICS®
IN ASSOCIATION WITH **PENTAX MEDICAL**

Simple:

Fully automatized drying process
at the push of a button



Fast:

- 2 x 2 min 30 sec for EUS scopes
- 2 min 30 sec for colonoscopes, gastroscopes, and duodenoscopes
- 1 min 30 sec for bronchoscopes, cystoscopes, and ureteroscopes
- 1 min for pediatric bronchoscopes



PlasmaBAG

For actively storing endoscopes

PLASMA BIOTICS®
IN ASSOCIATION WITH PENTAX MEDICAL



The dried endoscope
is placed in a PlasmaBAG
(single-use)

Plasma, generated by
PlasmaTYPHOON,
is then insufflated into
the bag (6 sec)

Hygiene commitment

PENTAX Medical is using innovative products, optimizing processes, and integrating feedback from the market to directly tackle patient safety and infection prevention.

By offering solutions like the DEC™ Duodenoscope and the PlasmaBiotics System, we are reinforcing our strong commitment to these vital topics. But real change comes from understanding the landscape – and reshaping it. Which is why improved hygiene and safety are the pillars that support all our research and development.

We work closely with experts for market insight to ensure that all products are directly based on this need. Then we innovate for even better clinical outcomes – because a commitment is nothing without action.



Learn more > Link <http://www.the-hygiene-solution-that-fits.com>

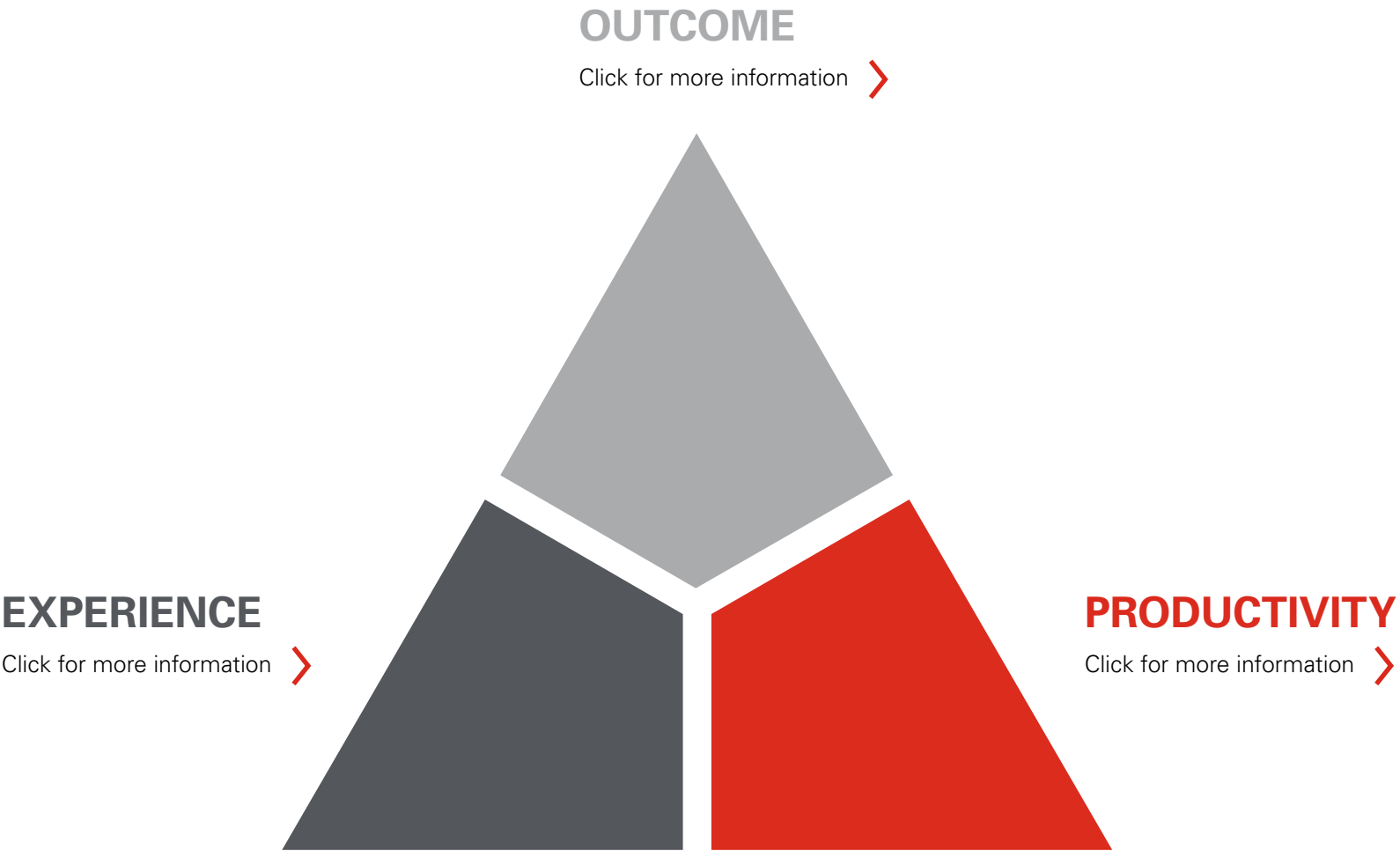


PENTAX Medical's Triple Aim



Our **Triple Aim** program is designed to deliver on our commitment to support you and your healthcare organisation's wider objectives by providing programs, products and solutions to help you reach your goals.

FIND OUT
HOW THE
PLASMABIOTICS
SYSTEM
SUPPORTS
TRIPLE AIM



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EXPERIENCE

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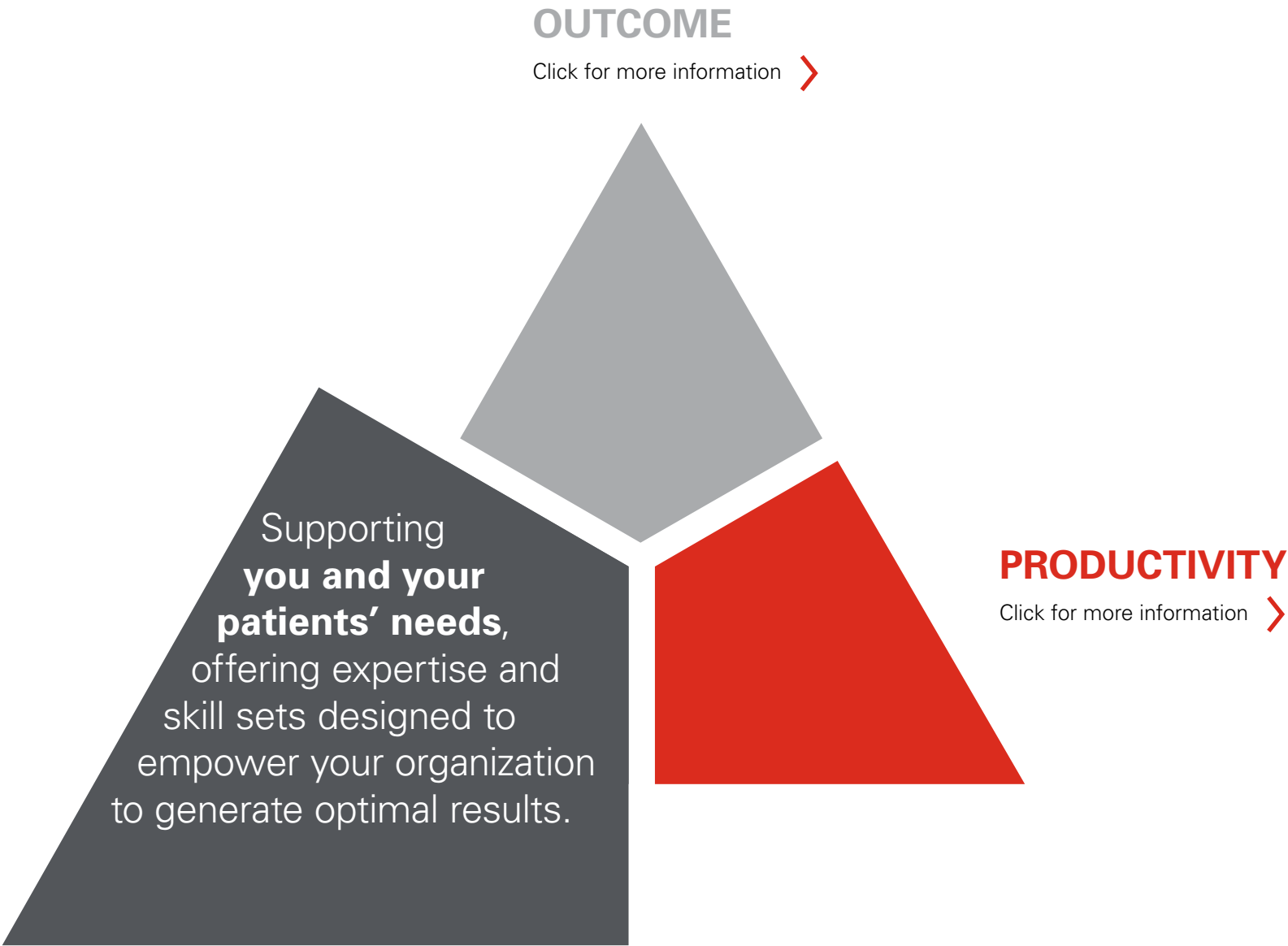
PRODUCTIVITY

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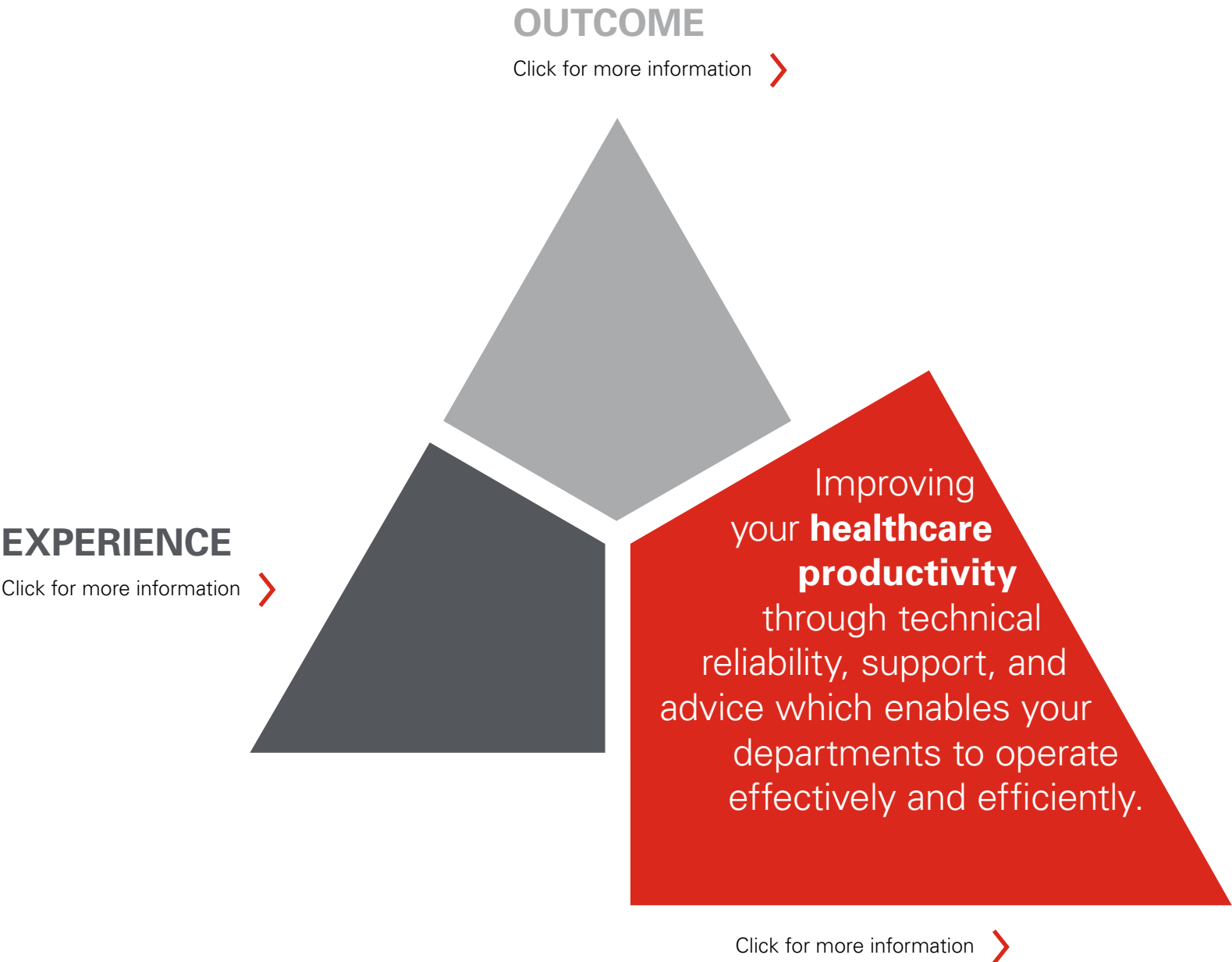
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IN ASSOCIATION WITH **PENTAX** MEDICAL

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22527 Hamburg
GERMANY
www.pentaxmedical.com

French Patent FR3026303B1, further applications pending • Medical device class: I • This product must be used only by healthcare professionals. Before use and for detailed product specifications, please refer to the instructions for use. In the interest of technical process, specifications may change without notice.

PENTAX
MEDICAL
Excellence in Focus