

**PHILIPS TOMTEC**

Philips TOMTEC Ultrasound Workspace

**Experience a new world of  
echocardiography workflow**



## Ultrasound Workspace

# More flexibility, with flexibility for more

Streamline echocardiography workflow across your organization with Philips TOMTEC Ultrasound Workspace.

Ultrasound Workspace is a holistic, scalable, cardiovascular viewing, analysis and reporting system which is built on the legacy of the TOMTEC-ARENA<sup>1</sup> platform. It allows for greater efficiency by giving care teams the flexibility to adopt different workflows based on their current needs.

How? By enabling the same diagnostic capabilities on- and off-cart. Analyzing multi-vendor data. Leveraging artificial intelligence for speed and confidence. Offering an uncommonly agile technology platform and flexible licensing model. And delivering tailored comprehensive support.

Experience the flexibility of Philips TOMTEC Ultrasound Workspace — and experience a new world of echocardiography workflow.

## Ultrasound Workspace delivers on what matters to help streamline echocardiography workflow across your enterprise.



### Consistency

Facilitating consistent on- and off-cart analysis



### Multi-vendor

Driving standardization through multi-vendor analysis



### Diagnostic confidence

Providing high levels of AI-powered automation<sup>6</sup> to increase reproducibility and enhance diagnostic confidence



### Scalability

Providing a scalable platform to grow with your needs today and tomorrow, from single-client to large enterprise integrations



### Centrally hosted

Empowering care teams to access centrally hosted data and tools from any location at any time



### Seamless workflow

Integrating with existing IT systems to streamline workflow and to avoid data silos

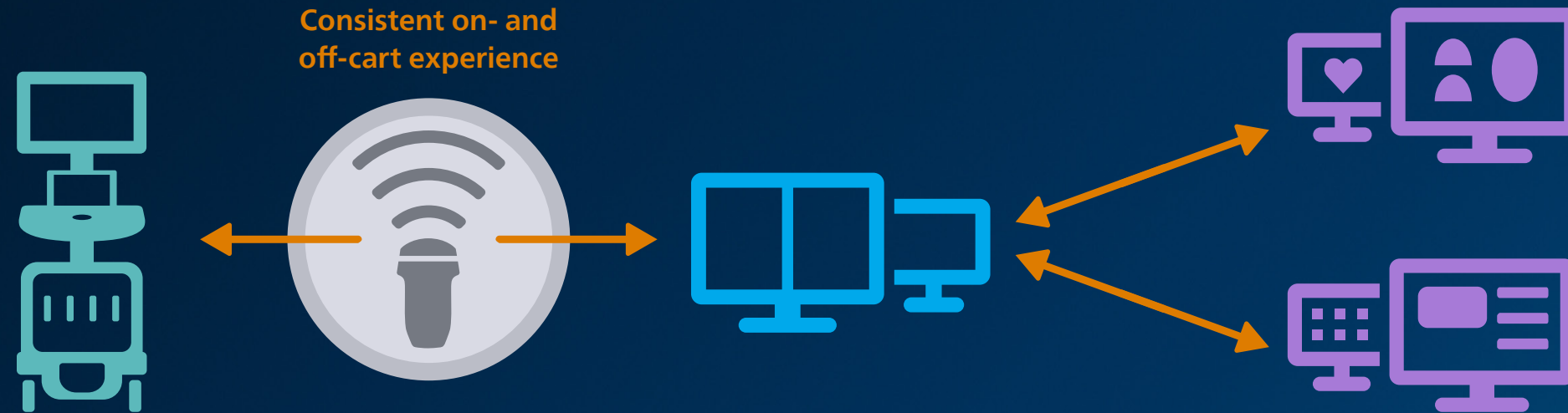
# Streamlined, scalable operations

Together, Philips ultrasound devices, Ultrasound Workspace and Cardiovascular Workspace deliver a streamlined and connected workflow for a consistent on- and off-cart user experience.

Our solution is scalable and works equally well with a stand-alone workstation, a departmental system or as part of an enterprise configuration. It connects seamlessly with your existing practice management and cardiovascular information systems, PACS and EMR for fast access to exams and reports. By partnering with Philips for carts, advanced quantification and your cardiovascular information platform, you benefit from a single source for service and the confidence to deliver high levels of efficiency, ease and diagnostic confidence.



# A powerful solution



**Philips EPIQ CVx and Affiniti CVx** ultrasound carts feature a suite of capabilities to help inform confident, efficient decision-making. They offer high processing power, exceptional imaging with clarity and sharpness, and robust quantification capabilities.

**Philips TOMTEC Ultrasound Workspace** is a holistic, scalable cardiovascular viewing, analysis and reporting system. It enables the same diagnostic capabilities both on- and off-cart, using AI to help clinicians work smarter. And with multi-vendor analysis tools, Ultrasound Workspace delivers workflow flexibility and speed.

**Philips Cardiovascular Workspace<sup>†</sup>** connects patients, care teams and data across the entire cardiovascular care pathway. Scalable and interoperable, it provides in-context access to multimodality patient data and clinical applications such as Ultrasound Workspace. It supports streamlined integration with EMR/HIS systems and automatic data synchronization with any vendor-neutral archive across the enterprise.

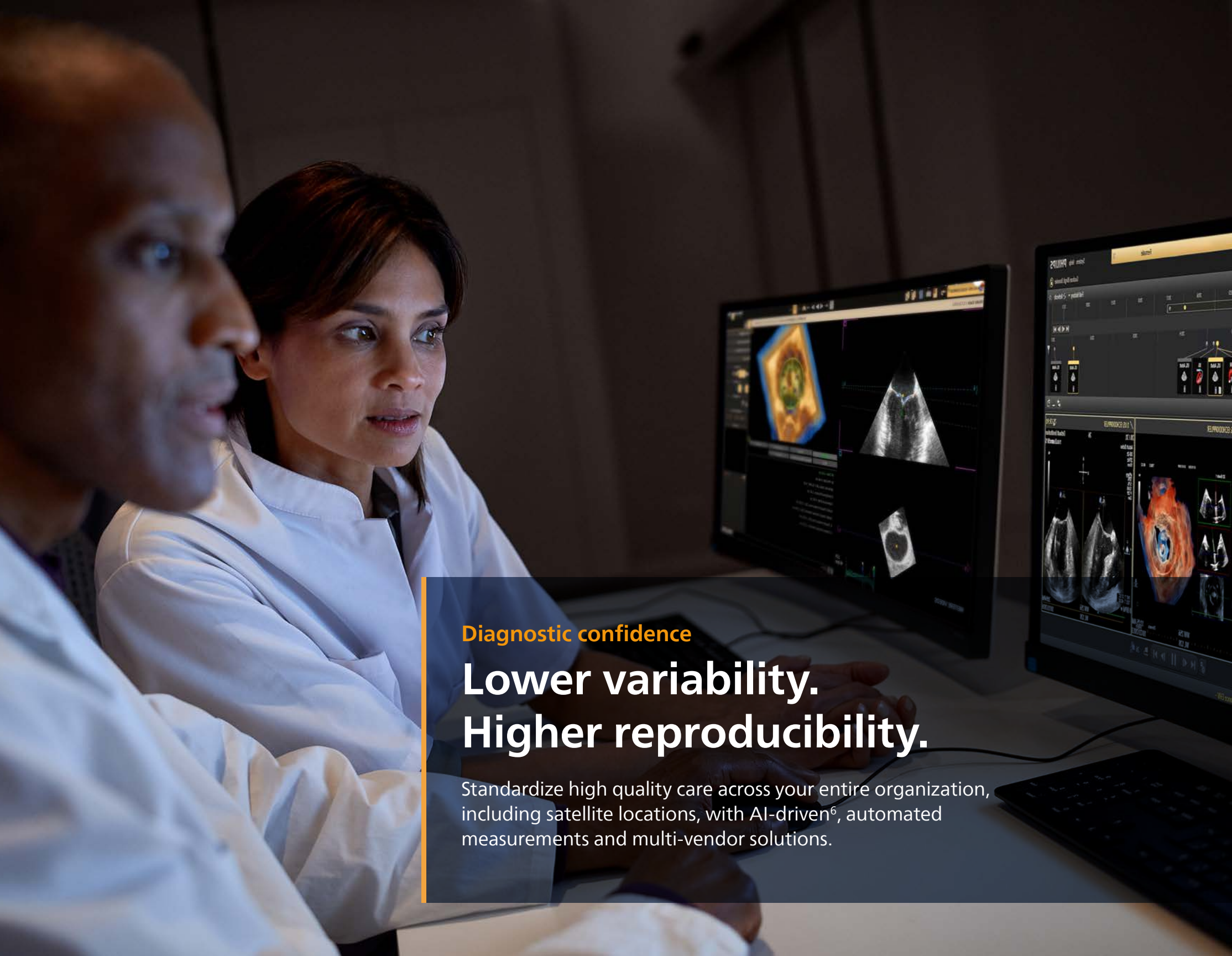
## Quantifiable benefits of the integrated Ultrasound Workspace solution\*:

**6**  
times increase in performing strain measurement

**31%**  
turnaround-time savings

**93 – 94%**  
of reports **finalized in one version**, freeing up time for more physician-patient time

\* J. Solis et al: Optimizing echocardiography workflow to increase access to high quality care for patients; European Heart Journal - Cardiovascular Imaging (2023) 24 (Suppl 1) 38.6 - Hospital Information Systems, Electronic Medical Records, Clinical Decision Support (Figures based on 98,259 TTEs performed between 2018 and 2022)



Diagnostic confidence

# Lower variability. Higher reproducibility.

Standardize high quality care across your entire organization, including satellite locations, with AI-driven<sup>6</sup>, automated measurements and multi-vendor solutions.

## AI-driven to succeed

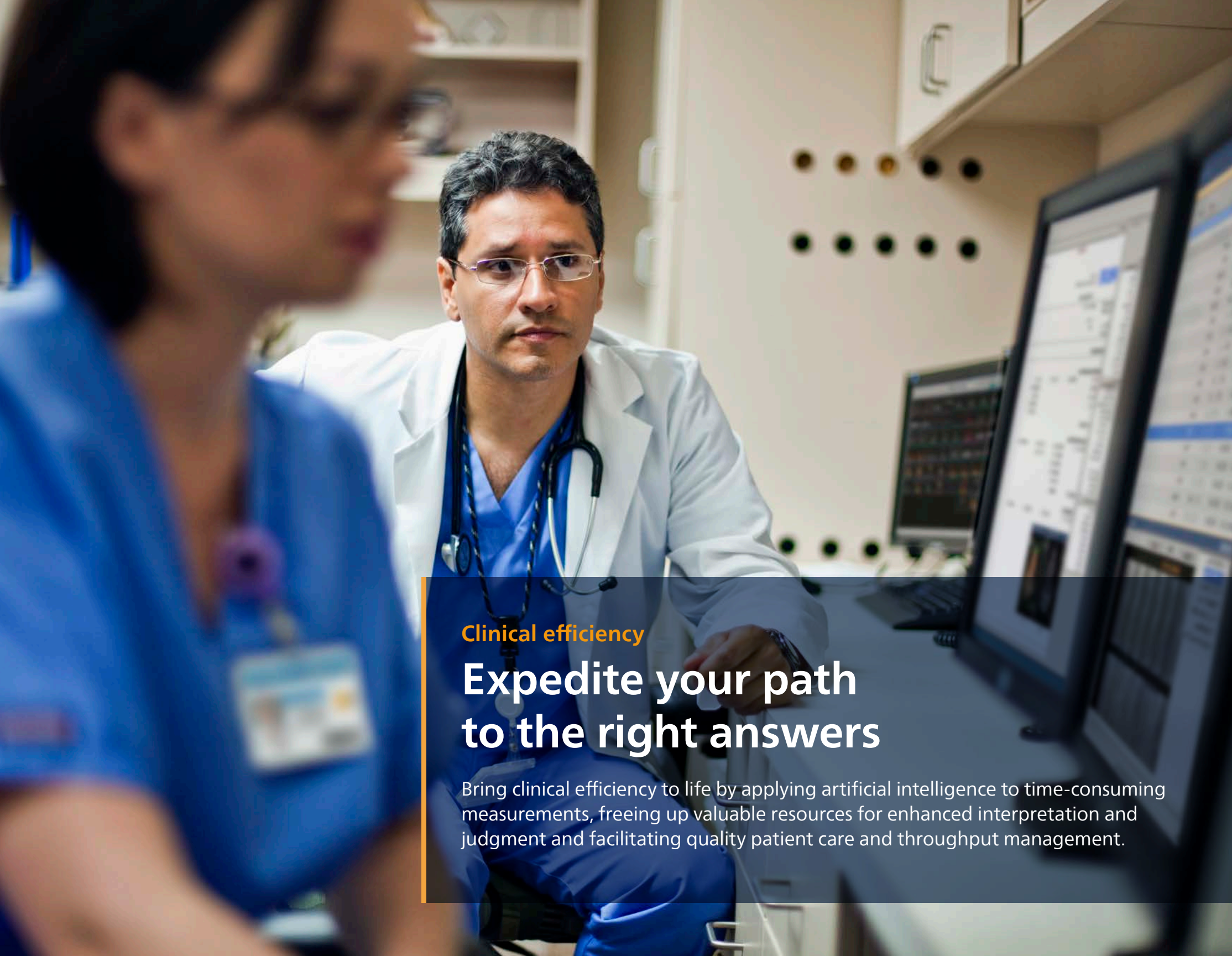
User-independent, Philips AI-driven<sup>6</sup>, automated measurements demonstrate excellent agreement with manual methods.<sup>2</sup> High levels of accuracy and reduced inter- and intra-observer variability support repeatability and reproducibility in both 2D and 3D applications.<sup>3,4</sup>

## Reliable data, regardless of vendor

Data from various vendors can differ in quality, processing algorithms and outcomes. Ultrasound Workspace data analysis is multi-vendor, allowing for high levels of standardization – and confidence – throughout the patient care path.

## Guided by guidelines

QualitySeal<sup>5</sup> capability guides users to observe deviations from published norm-values and follows recognized nomenclature for findings. Define your own list of required measurements, if you wish, to automatically verify that studies meet your organization's quality standards.



### Clinical efficiency

## Expedite your path to the right answers

Bring clinical efficiency to life by applying artificial intelligence to time-consuming measurements, freeing up valuable resources for enhanced interpretation and judgment and facilitating quality patient care and throughput management.

### Artificial intelligence for real performance

AI-enhanced applications<sup>6</sup> automatically identify views and anatomical structures and can help streamline complex, time-consuming measurements. Philips Auto Measure, for example, can deliver fast, consistent 2D standard echo measurements in half the time of manual methods.<sup>7</sup>

### Analyze data anywhere, anytime

Drive efficient clinical decision-making by reducing the time care teams spend locating dedicated reading workstations. Ultrasound Workspace allows access to relevant patient information for image review, analysis and reporting through any web-based client within your hospital environment.

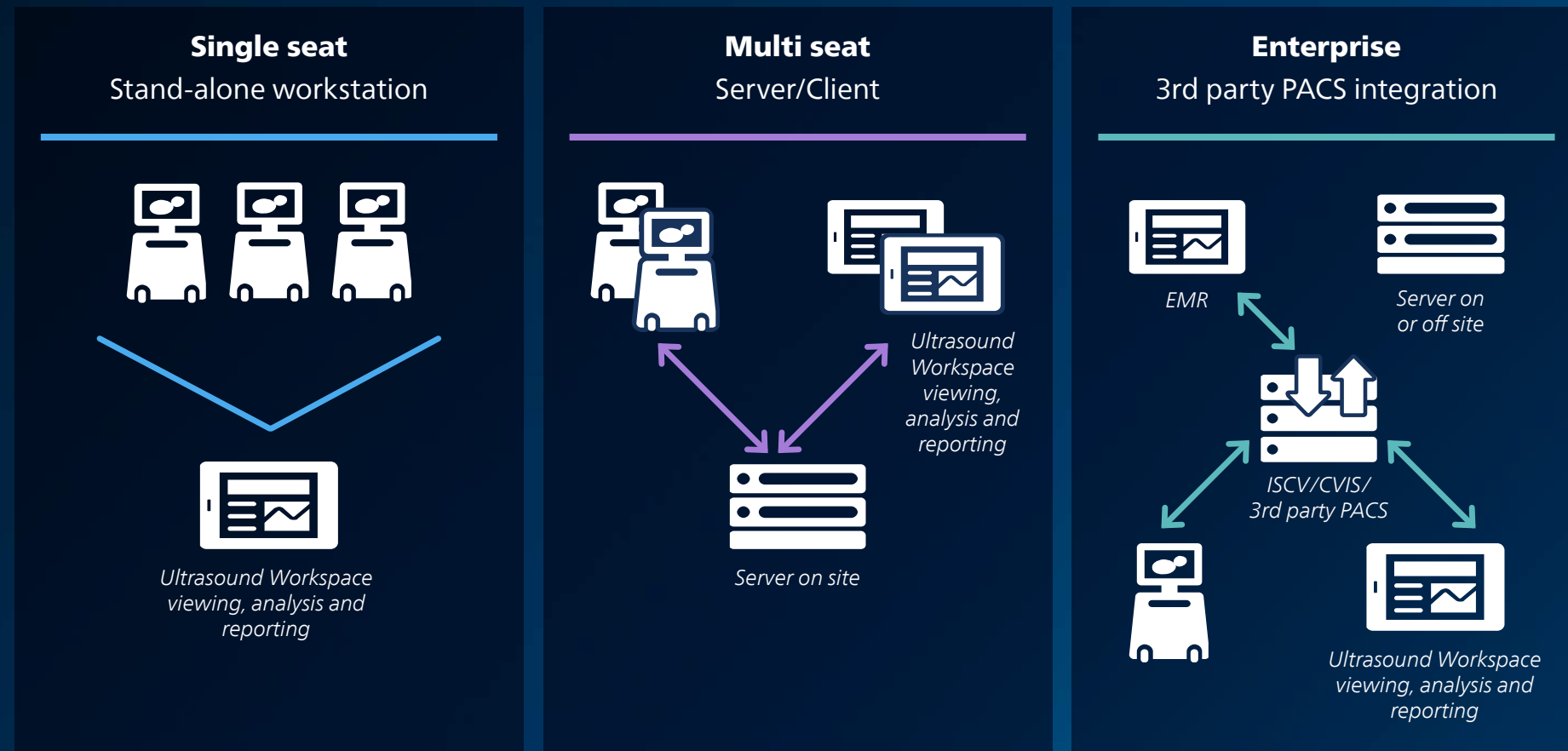
### Standardization through multi-vendor analysis

Ultrasound Workspace compatibility with 2D and 3D ultrasound data from various vendors enables images to be analyzed with the same AI-based measurement tools, facilitating consistent outcomes, high levels of reproducibility, shorter learning curves and lower total cost of ownership.

## Workflow flexibility

# Choose what works best for you

Web-based, Ultrasound Workspace extends the reach of ultrasound beyond the echocardiography lab by providing access to routine clinical tools and patient data via web browser. Users have more flexibility to perform tasks how, when and where they make the most sense, given the specific situation.



### Configure your set-up. Scale to your needs.

From single seat workstations to multi seat networks and 3rd party PACS integration, configure Ultrasound Workspace to your specific needs today – and scale up in the future.

### Access consistent lateral patient views

Access patient data from prior studies and angiograms for a consistent lateral patient view. Ultrasound Workspace can connect to existing PACS to retrieve data from various vendors. Interfaces with EMRs support the enrichment of medical records with clinical findings and measurements.

### Connect easily with your existing IT systems

Philips interoperability experience and expertise make it easy to integrate Ultrasound Workspace with your existing practice management and cardiovascular information systems, PACS or EMR for quick access to exams and reports.

### Adaptive licensing, designed to fit

Whether small practice or large healthcare organization, flexible licensing models are designed to accommodate your specific situation. With an active maintenance and support contract, licenses can be transferred and upgraded as needs evolve.\*

*\*Contact your Philips representative for more information.*

### Security vigilance

Ultrasound Workspace provides secure, centralized mechanisms to manage identities and authentication and authorization of users, at server and application levels. At Philips, security is an end-to-end mindset, with robust policies and procedures for data protection and updates.

## Workflow flexibility

# The right applications

Support consistency in routine and advanced workflows with a comprehensive suite of multi-vendor applications.

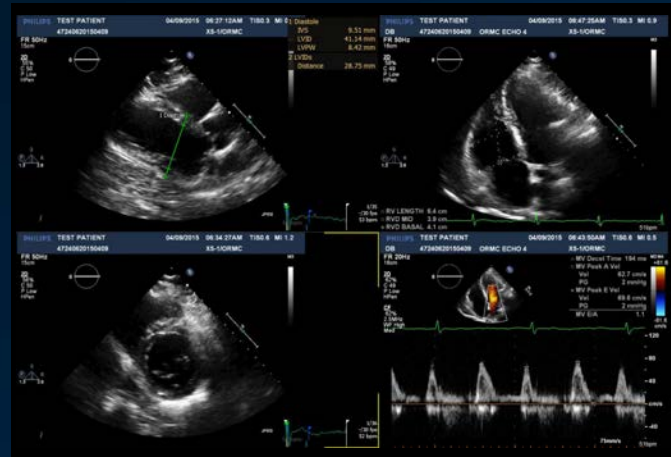
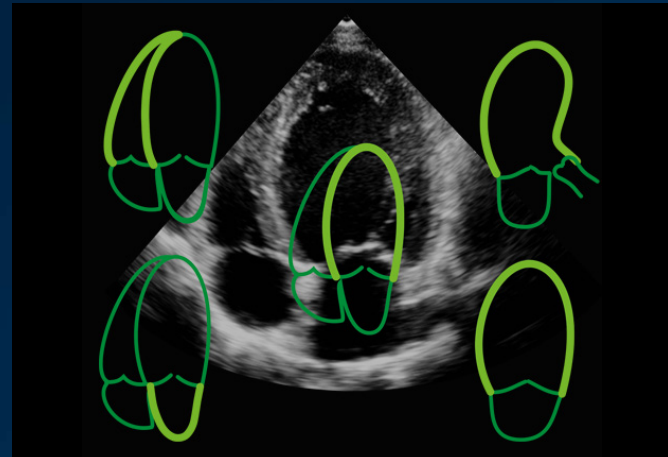
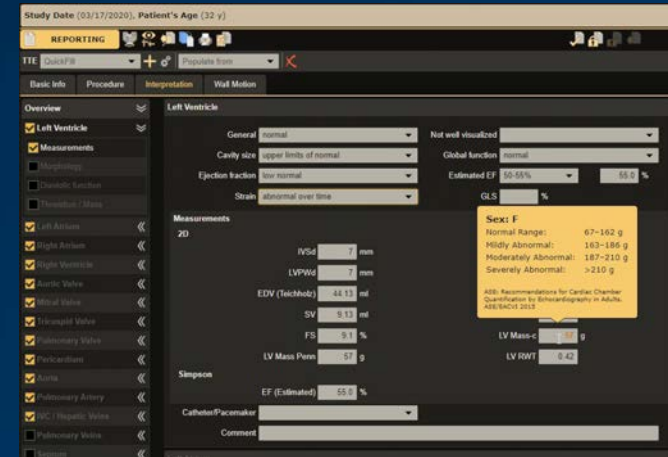


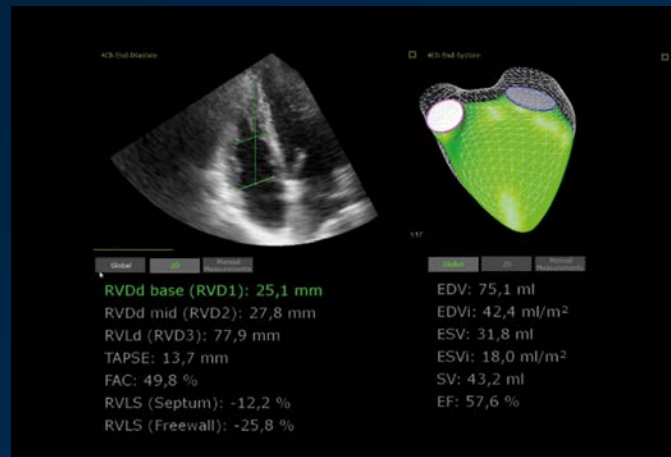
Image review, measurements and stress echo



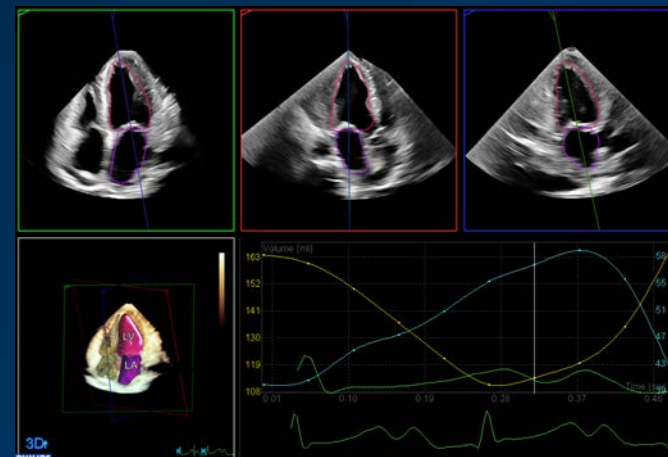
AutoStrain suite of measurements (LV, LA, SAX, RV)



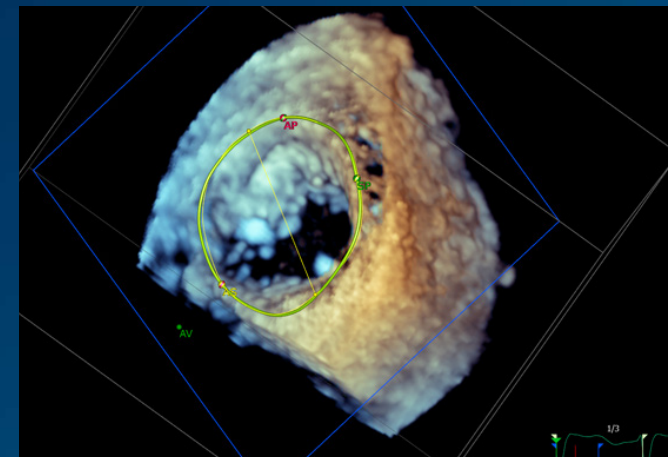
Reporting (cardiac, vascular and pediatric/fetal echo)



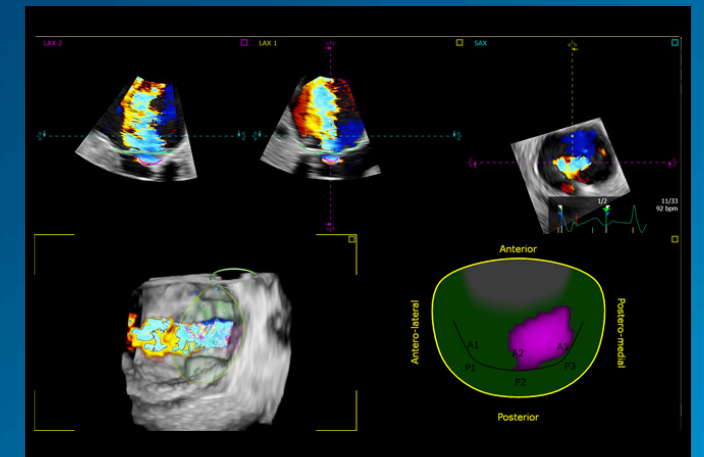
3D RV quantification



3D LV and LA quantification



Analysis of mitral and tricuspid valves (3D Auto MV; 3D Auto TV\*)

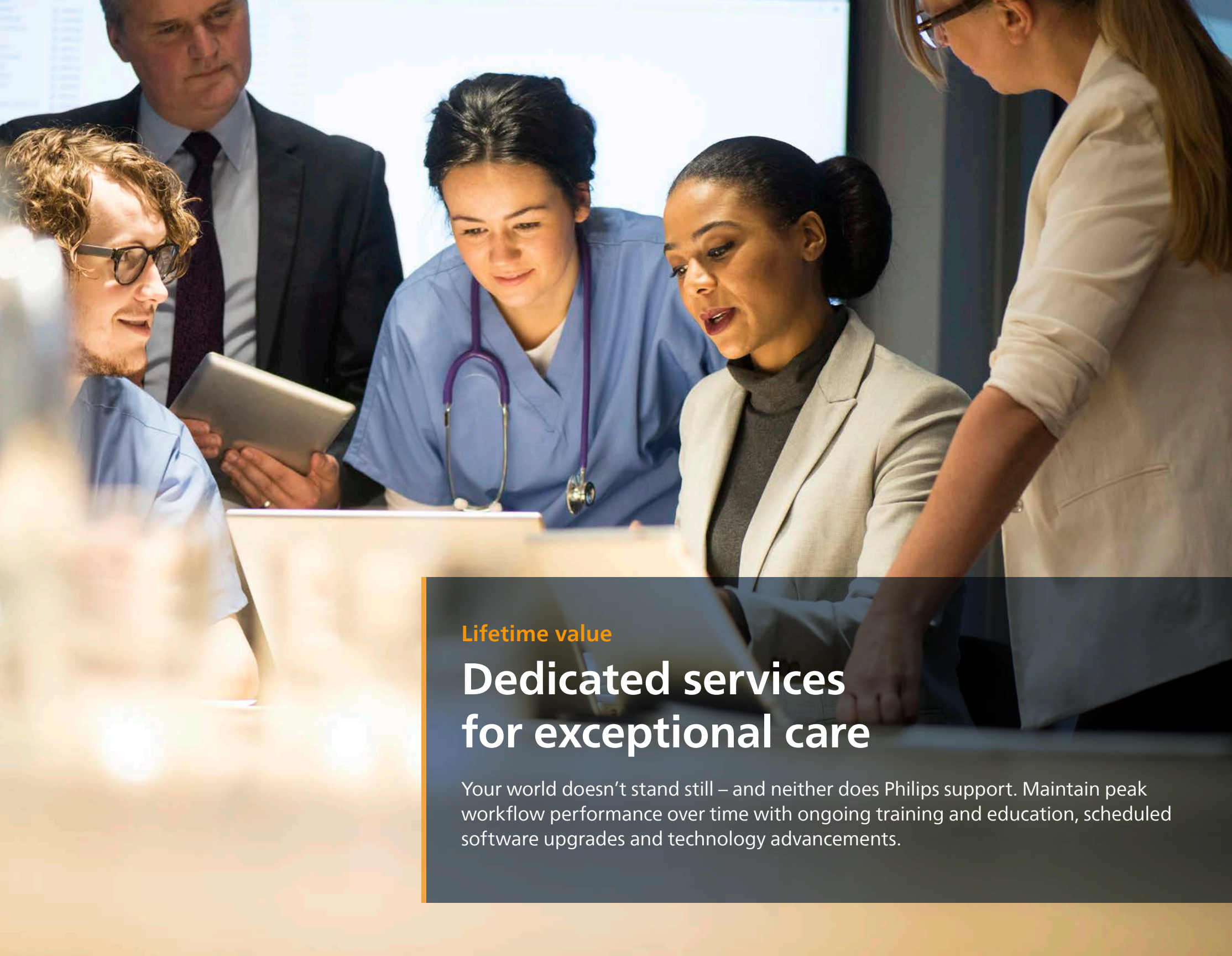


Fully automated 3D quantification of MR volumes (3D Auto CFQ\*)

## The Philips AI philosophy

At Philips, we believe the value of AI is only as strong as the human experience it supports. That's why we combine the power of AI with deep clinical knowledge to create solutions that integrate into the workflows of healthcare providers and a patient's daily health routines – supporting them at every stage of the health continuum.

\* 510(k) pending, not available for sale in U.S.A



### Lifetime value

## Dedicated services for exceptional care

Your world doesn't stand still – and neither does Philips support. Maintain peak workflow performance over time with ongoing training and education, scheduled software upgrades and technology advancements.

### Training and continuous education

Access a wide range of remote and on-site training and educational programs, including e-learning, video tutorials, how-to guides and FAQs at the Philips Learning Center, in partnership with TOMTEC ACADEMY.

### Software upgrades

Periodic software upgrades, based on feedback from customers and evolving technology capabilities, help keep your system up to date with the latest advances. Easy access to training and education programs help you make the most of them.

### Technology advancements

Stay on the leading edge of technology with advances related to hardware and server infrastructure, measurement mapping, connectivity standards, current medical guidelines, data image format compatibility and IT infrastructure.

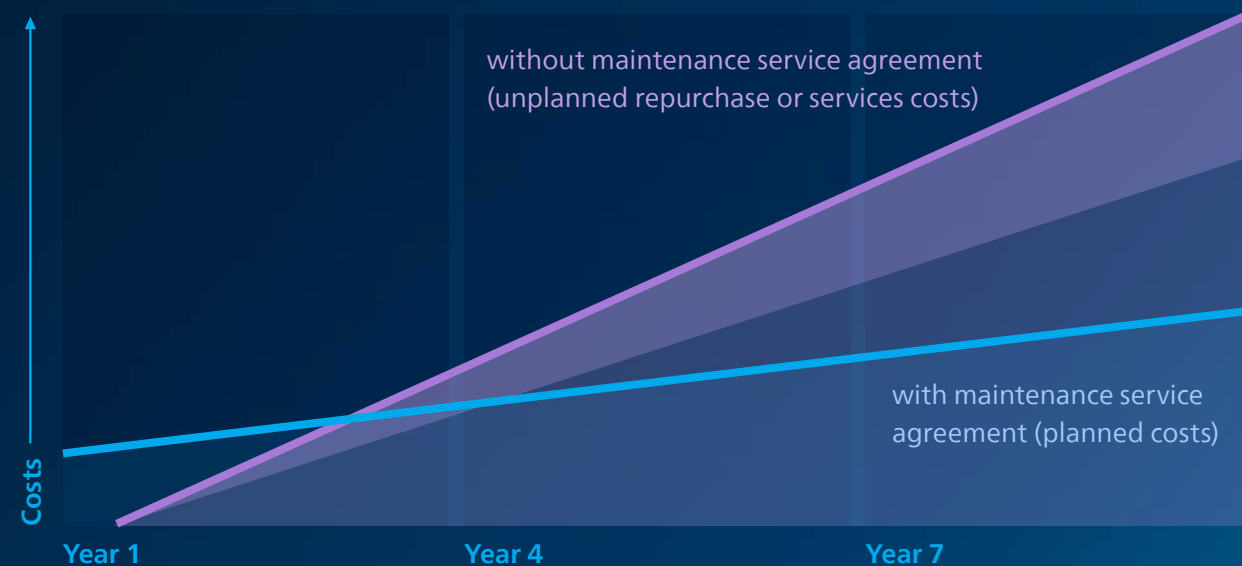
# Invest in the future of your technology

Our dedicated service contracts provide the ongoing maintenance, support and education you need to get the most from your Philips TOMTEC Ultrasound Workspace over time. Our offering goes beyond the bug fixing included in your system's warranty to include a host of tailored services that deliver real value over the entire solution lifecycle.

Lower your TCO (total-cost-of-ownership) through transparent, budgeted costs. Our service agreement is the most cost-efficient way to access the latest technology and support.

We keep you up-to-date on a regular basis to enable compatibility with operating systems, US carts, probes and data formats, as well as compliance with clinical guidelines and cybersecurity protocols. This helps you manage and budget costs and avoid unplanned expenses for service delivery.

## Philips service contracts for Ultrasound Workspace encompass:



### Philips service contracts for Ultrasound Workspace include:

- Up-to-date software – with access to the latest upgrades, improvements and newest innovations
- Compatibility with OS, ultrasound carts, new probes and readability of new data formats
- Compliance and diagnostic quality - thanks to updates of guideline conform measurements and norm values
- Tighter cybersecurity – through security patches and vulnerability fixes
- Instant hotline and remote support – for your technical and clinical questions
- Performance and workflow optimizations – helping you improve efficiency
- Ongoing access to education, e-learnings and training – to keep your staff up to date



To learn more about how we can help you experience a new world of echocardiography workflow with Ultrasound Workspace, please contact your Philips representative.

1. TOMTEC-ARENA is a trademark of Koninklijke Philips N.V.

† Philips Cardiovascular Workspace is the commercial name of the medical device Philips IntelliSpace Cardiovascular.

2. Tsang W, Salgo I, Medvedofsky D, et al, Transthoracic 3D Echocardiographic Left Heart Chamber Quantification Using an Automated Adaptive Analytics Algorithm, JACC: Cardiovascular Imaging, Volume 9, Issue 7, 2016, Pages 769-782.

3. Sugimoto T, Dulgheru R, Bernard A, et al. Echocardiographic reference ranges for normal left ventricular 2D strain: results from the EACVI NORRE study. Eur Heart J Cardiovasc Imaging. 2017;18(8):833-840.

4. Medvedofsky D, Mor-Avi V, Amzulescu M, et al. Three-dimensional echocardiographic quantification of the left-heart chambers using an automated adaptive analytics algorithm: multicenter validation study. Eur Heart J Cardiovasc Imaging. 2018;19(1):47-58.

5. QualitySeal is a trademark of Koninklijke Philips N.V

6. applicable for 3D Auto CFQ, 3D Auto TV, 3D Auto MV, 3D Auto RV, 2D Auto LV, semi automated measurements.

7. Philips internal study with external sonographers comparing the results of 18 exams with and without Auto Measure.

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