**Philips EPIQ Elite and Affiniti** 

# Redefining performance in ultrasound for interventional radiology There's no longer the need to wait for imaging suite availability when it comes to performing interventional

procedures with diagnostic confidence. Philips Fusion and Navigation can help you harness the power of multiple modalities by fusing PET/CT, MR or CT data sets to live ultrasound, allowing you to conduct procedures in the IR suite, or whichever procedure setting best supports your practice. This potentially allows for more predictable and high-volume scheduling. In addition, reducing CT scans by 45% represents a total patient radiation dose-saving equivalent to three head CT scans or one full-body scan. Ultrasound is widely available, easy to use, more cost-effective than other imaging

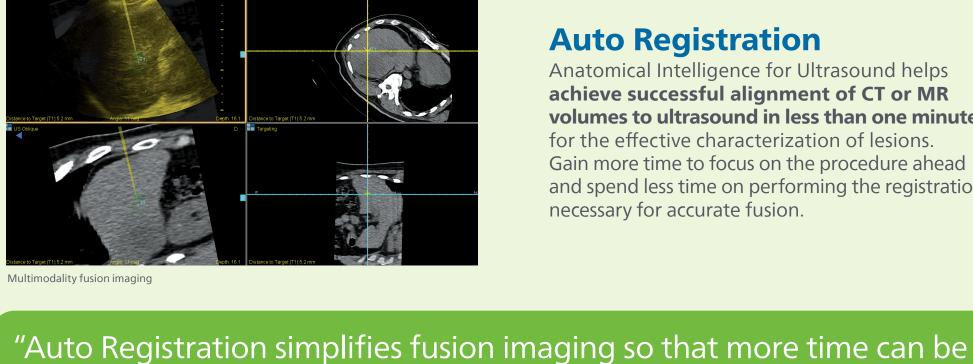
methods such as MR, and does not have the ionizing radiation of CT.<sup>2</sup> It can help clinicians plan complex cases where the lesion is not identifiable or is difficult to access. "The Philips image fusion and navigation system has been extremely

valuable to us. Cases we normally perform with CT-fluoroscopic guidance are now routinely performed in the IR suite. This has improved workflow by reducing the need to find time on our busy CT scanner. It has also reduced radiation exposure for the patient, staff and operator."\* - Ezana M. Azene, MD, PhD Vascular and Interventional Radiologist, Gundersen Health System, La Crosse, WI

\* Customer experience, results may vary.



Intuitive experience



**Auto Registration** 

volumes to ultrasound in less than one minute<sup>3</sup> for the effective characterization of lesions. Gain more time to focus on the procedure ahead and spend less time on performing the registration necessary for accurate fusion.

Anatomical Intelligence for Ultrasound helps achieve successful alignment of CT or MR

- Dr. Andrew McNeill, Consultant Radiologist Freeman Hospital NHS, Newcastle upon Tyne, UK

spent evaluating pathology while optimizing the patient experience."\*

**User-assisted Co-registration** 

for co-registering CT images to ultrasound.

User-assisted Co-registration is a one-button method

patient can move and change position, and the field generator can be moved in or out of the procedure space without losing anatomical landmarks or diminishing tracking accuracy.

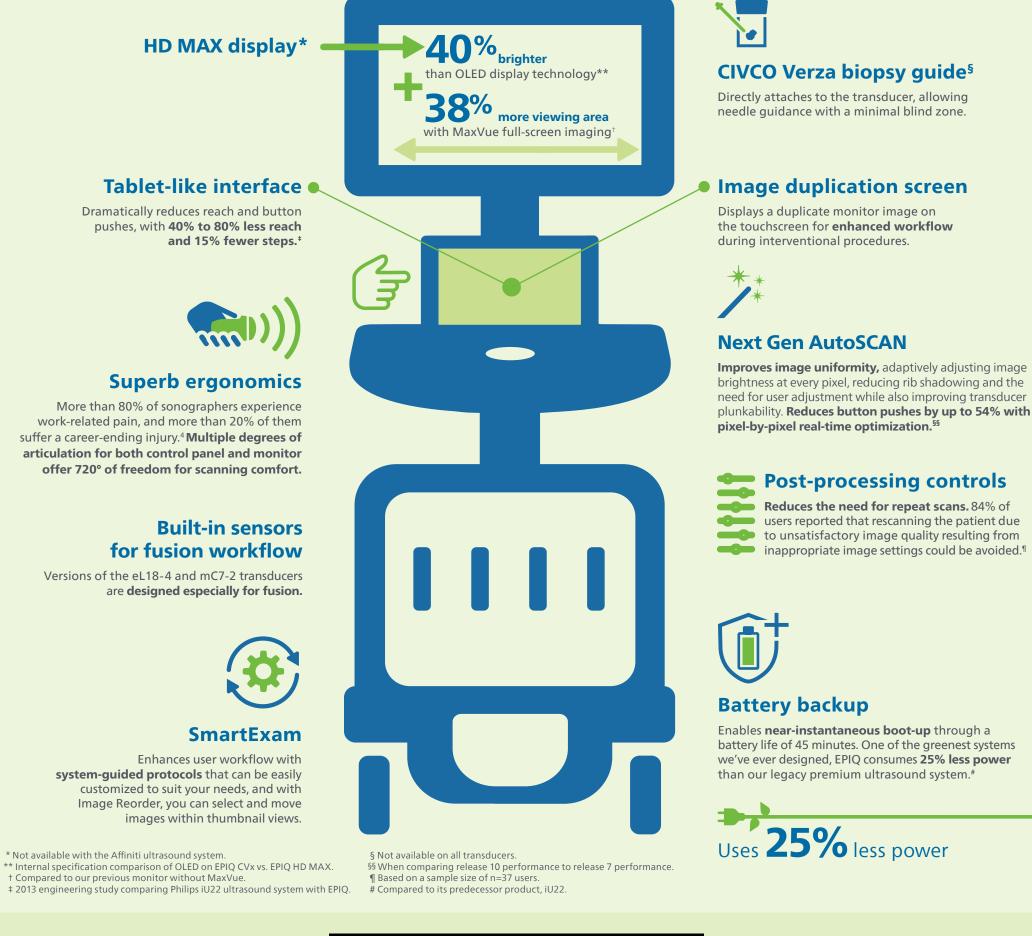
**Continuous patient tracking** 

Needle location in relation to CT is tracked and **updated in real time** for procedure visualization, so that once the registration step is complete, the



## **CT-only workflow** Philips interventional workflow features CT-only needle navigation on the ultrasound system. The image fusion and needle navigation capability unlocks flexibility and opens up possibilities by making image fusion and the

use of ultrasound imaging completely optional.



## of repetitive button pushes by an average of **68%**. <sup>5</sup>

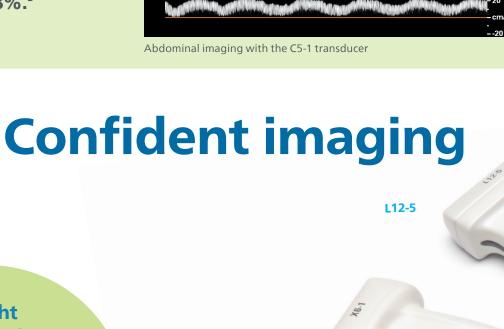
**Auto Doppler** 

and resolution, reducing

10 steps to 3 steps and also reducing the number

Adjusts optimal flow sensitivity

nSight



TIS0.5 MI 0.5

MSK imaging with the eL18-4 transducer

**User-assisted Ablation Planning** 

Generate a treatment plan based on a segmented tumor, designed

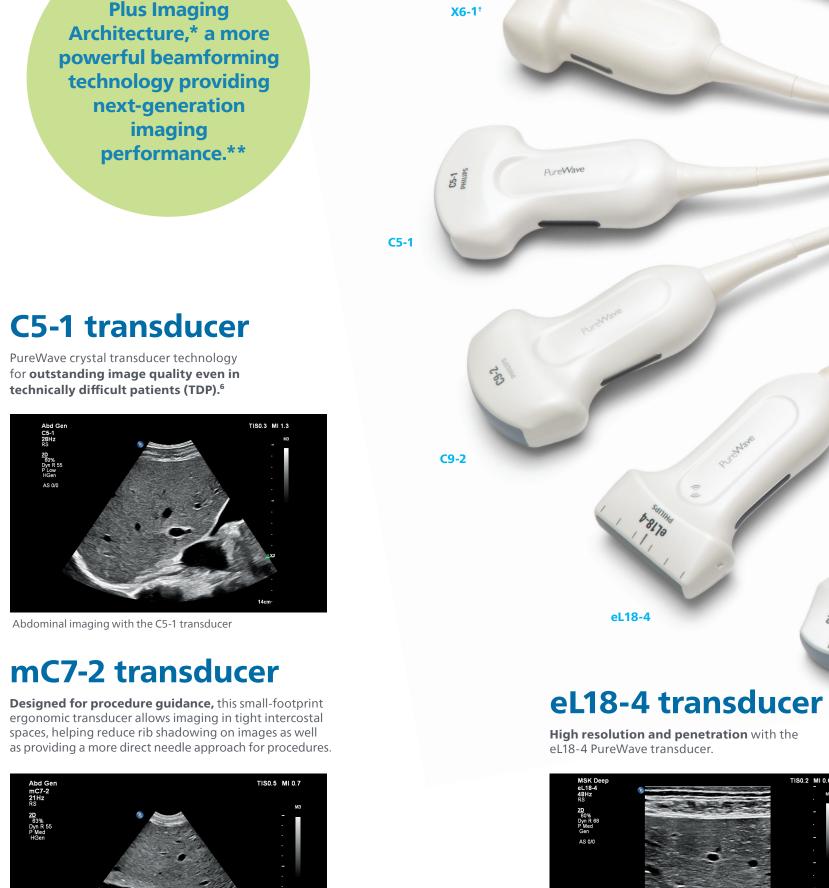
to develop a quick initial ablation plan, which the user can then adjust.

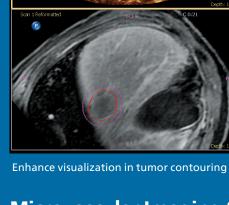


mC7-2

**Reduces number of** 

button pushes by





Advances in CEUS imaging

\* Compared to previous MVI capability.

\*\* Not available with the Affiniti ultrasound system.

Abdominal imaging with the mC7-2 transducer

† Not available with the Affiniti ultrasound system.

\* Not available on all transducers. \*\* Compared to release 7.0.

**Tumor contour** 

Visualize your target with a semi-automated tool that helps outline a 3D contour around a structure of interest, rendering the lesion in 3D

**or 2D** via a complementary modality, overlaid on the live ultrasound or CI, helping visualize the location in relation to surrounding critical structures.

## Fast workflow in ablation planning **Microvascular Imaging Super Resolution Contrast-**

**Advanced insights** 



enhanced Ultrasound (CEUS) and Time of Arrival

Super Resolution MVI improves resolution by more than 200%.\* Time of Arrival provides concise visualization of the temporal patterns of perfusion while

**Trusted partner** 

Image courtesy of Dr. Stephanie Wilson

Support accelerated decisionmaking and help reduce dependence on other imaging modalities by applying advanced ultrasound fusion and navigation tools.



**Collaboration** 

Live

**Ultrasound** 

# Up to six users can quickly and securely talk, text, screen share and video stream directly from the ultrasound system

Innovative solutions tailored to you, with the financial flexibility to manage capital budgets

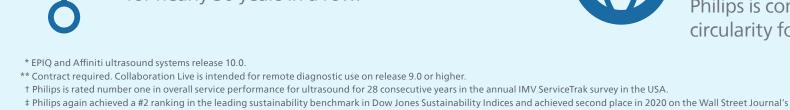


**Extend** 

consistency of care

## Extend capacity of care teams

**Defense-in-depth Comprehensive** clinical education security



"100 Most Sustainably Managed Companies in the World" list.

and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting

from the use of this publication.

Philips has ranked #1 in ultrasound service for nearly 30 years in a row.<sup>†</sup>

Philips ultrasound is developed for

security as well as clinical capability.7

**Award-winning service** 

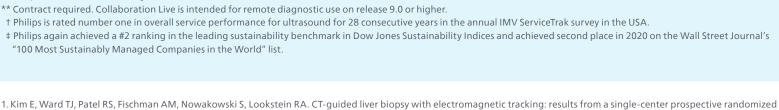


in sustainability Philips is committed to lifecycle circularity for its systems.<sup>‡</sup>

To improve operational efficiency

and support patient care.

A world leader



controlled trial. AJR Am J Roentgenol. 2014;203(6):W715-W723. doi:10.2214/AJR.13.12061 2. RadiologyInfo.Org: https://www.radiologyinfo.org/en/info/genus. 3. Auto Registration Timing Study Report, 2015. 4. Chen J, Panda R, Savord B. Realizing dramatic improvements in the efficiency, sensitivity and bandwidth of ultrasound transducers: Philips PureWave crystal technology. Koninklijke Philips N.V. Aug 2006. 2014;203(6):W715-W723. doi:10.2214/AJR.13.12061. 5. Society of Diagnostic Medical Sonography, Industry Standards for the Prevention of Musculoskeletal Disorders in Sonography, May 2003. 6. Philips Auto Doppler Clinical Study, Dec. 2011.

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7. Philips EPIQ and Affiniti Security white paper, document number 452299180531, April 2023.



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