



QUSTom

Quantitative Ultrasound
Stochastic Tomography

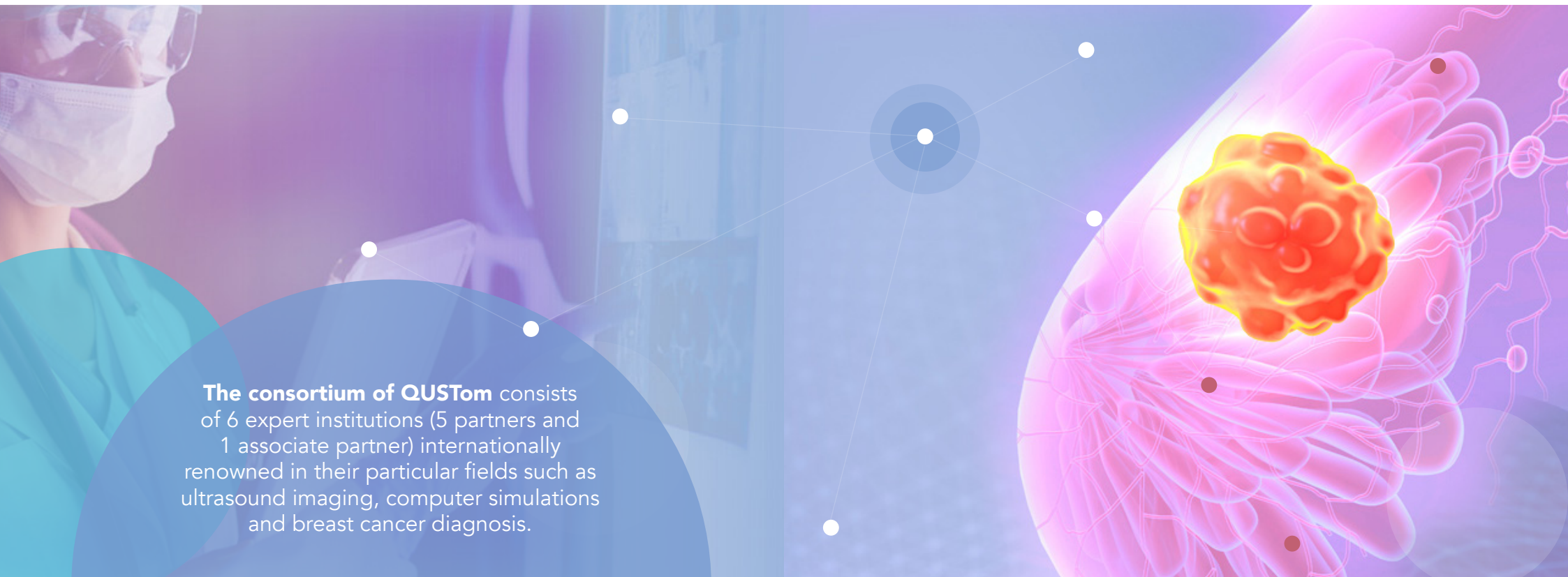
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QUSTom

Quantitative Ultrasound Stochastic Tomography



The consortium of QUSTom consists of 6 expert institutions (5 partners and 1 associate partner) internationally renowned in their particular fields such as ultrasound imaging, computer simulations and breast cancer diagnosis.

Partners:



The QUSTom project has received funding from the European Union's Horizon Europe research and innovation programme under the Grant Agreement N° 101046475, and for the UK partner from the United Kingdom Research and Innovation ("UKRI") under the UK Government's Horizon Europe Guarantee with UKRI Reference No. 10038375.

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Revolutionizing breast cancer diagnosis and screening with supercomputing-based radiation-free imaging.

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PROJECT

QUSTom is a project based on R&D towards better cancer detection using ultrasound-based images.

It aims to demonstrate the **capabilities of this technology for future breast-cancer diagnosis** and study its potential for screening, continuous monitoring of patients and prognosis.

The project has been selected to be part of the **Pathfinder Pilot Programme of the European Innovation Council**, funded by the European Union's Horizon Europe Framework Programme for Research and Innovation.

OBJECTIVES

Obtaining full 3D ultrasound-based breast images by using:



Full-aperture **3D** ultrasound data acquisition devices.



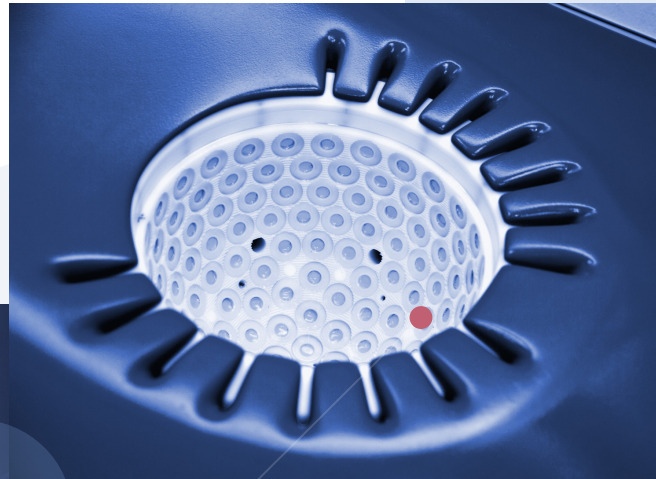
Simulation-based quantitative imaging algorithms.



High-performance computing acceleration of such algorithms.



Efficient uncertainty estimation of the **quantitative images**.



As a result, QUSTom will introduce and validate a novel imaging modality that **has the potential to revolutionize** breast cancer imaging.

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