



## MURAB is the European answer to improving healthcare

The Project involves a **consortium of 7 European partners**: Universities, Technical Research Institutes and Industrial partners in what we named a **clinical innovation triangle**. The project started in January 2016 and lasts for 4 years.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688188.

## PARTNERS

### UNIVERSITIES

UNIVERSITY OF TWENTE.



UNIVERSITÀ di VERONA

### TECHNICAL RESEARCH INSTITUTES



Radboudumc  
university medical center

### INDUSTRIAL PARTNERS



KUKA

# MURAB

A REVOLUTION IN DIAGNOSIS  
for breast cancer and muscle diseases

## CONTACTS

### PROJECT COORDINATOR

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## FIND US ON



[www.murabproject.eu](http://www.murabproject.eu)

Magnetic resonance and Ultrasound Robotic Assisted Biopsy

## A NEW PARADIGM

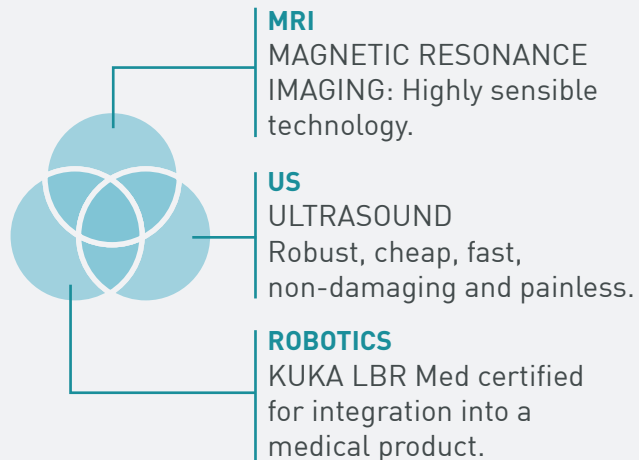
MURAB (MRI and Ultrasound Robotic Assisted Biopsy) is a European research project developing a new robotic assisted biopsy system.

It has the ambition to revolutionize the way cancer screening and muscle diseases are researched for patients and has the potential to save lives by early detection and treatment.



Designed for muscle and breast research, but possibly suitable for other applications.

**MRI and Ultrasound combined with the precision of robotics in order to target the right place in the body.**



**“One in eight women will have to deal with breast cancer in their lifetime. Early diagnosis is very important to have a better quality of life and life expectancy. MURAB has the potential to save lives by early detection and treatment.”**

Prof.dr.Ir Stefano Stramigioli  
MURAB Project leader - University of Twente



## EXPECTED RESULTS



**MORE SAFETY**

### REDUCTION OF PATIENT DISCOMFORT

Minimally invasive interventions, less pain and smaller wounds.



**EFFICIENCY**

### MORE EFFICIENT BIOPSIES

Ultrasound guided biopsies are easier, faster and more accurate than before.



**TIME SAVING**

### SHORTER CLINICAL WORKFLOW

Less hospital visits, a shorter period of uncertainty.



**CHEAPER**

### LESS HOSPITAL COSTS

Reduction in the number of over-diagnosis and subsequent overtreatment.