



## Innovations in Healthcare Technology

Dedicated MRI & Ultrasound Imaging

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THE GROUP

## Esate in the world

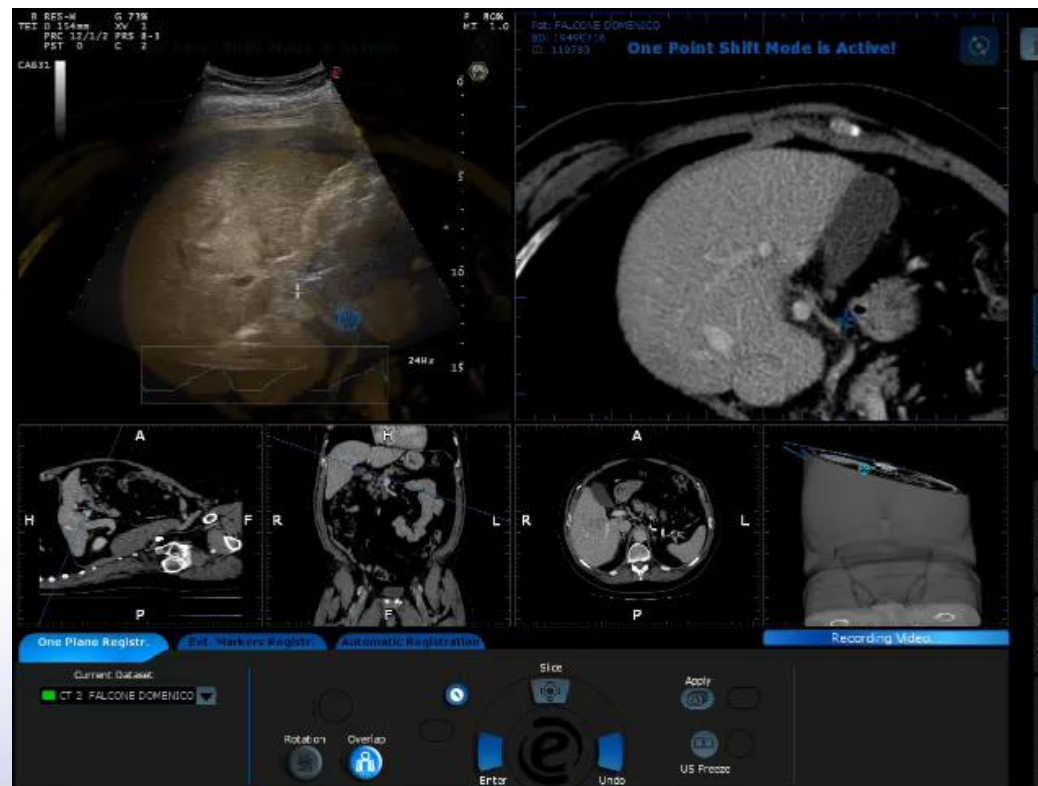


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## FUSION IMAGING

- **Fusion Imaging 2D (Bodymap):** real-time synchronisation of US and second diagnostic mode 2D (e.g. Mammography or RX)
- **Fusion Imaging 3D:** real-time synchronisation of US and volumetric modalities (CT, MR, PET) images

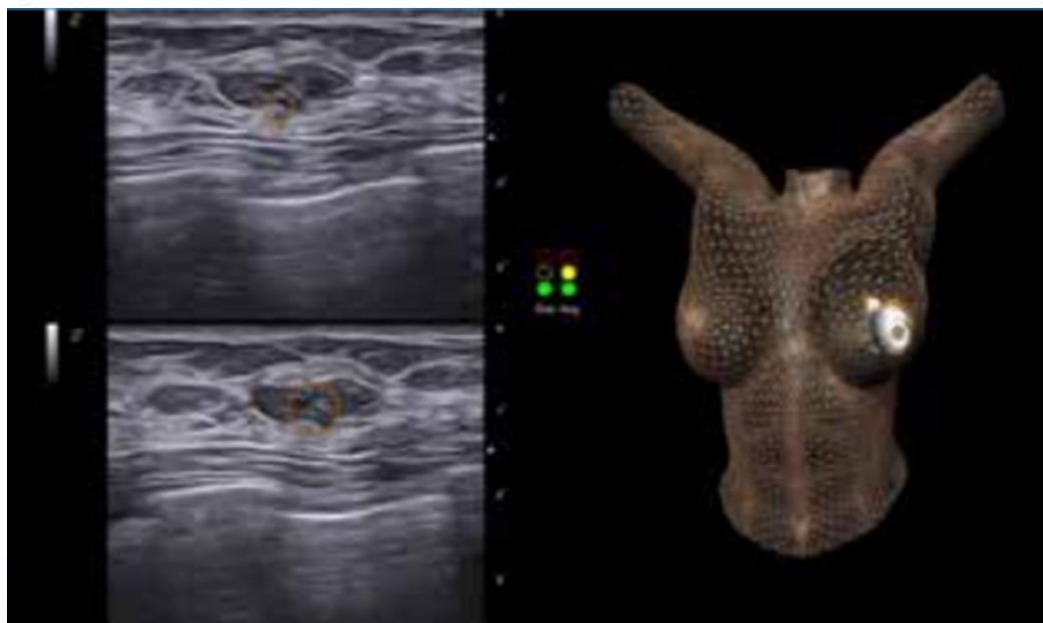


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## FUSION IMAGING – Breast Navigator



**Breast Navigation** gives real time feedback of the scanned area.

- **Breast Biopsy:** Interventional procedure TARGET & Needle visualization.

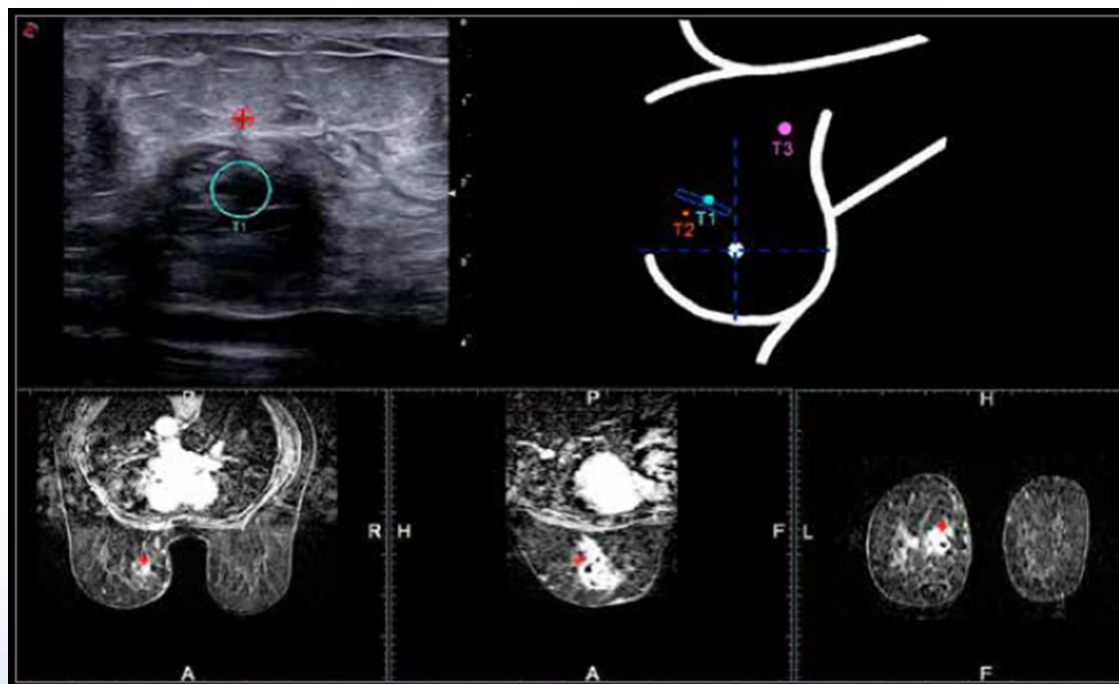
Great benefit to be able to easily detect the exact position of any suspicious nodule during a subsequent investigation.

## FUSION IMAGING – Breast Navigator MRI

### Breast Navigation MRI

Allows correlation of prone MRI to supine US and to localise lesions on the real time US, with patient supine

### 3D adaptive modeling A.I. technology





**Technological  
Innovations in  
Dedicated MRI**

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## ESAOTE Leader in Dedicated MRI



Esote market leader in dedicated MRI  
with over 25 years experience in developing  
and selling unique solutions for MSK MRI.

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## From 1992, a continuous innovation in MRI



# Magnifico



- Potential whole-body solution
- Excellent patient comfort
- Little acoustic noise
- Little claustrophobia
- Low installation costs
- Low maintenance costs
- Low running
- Wide range of examinations available
- Small installation space from 20m<sup>2</sup>
- 0.4T
- To be capable of DWI, angiography and abdominal imaging (release phase 2)

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## Changing the MRI Perspective



The first and unique tilting MRI dedicated to evaluate the MSK anatomical structures and their biomechanical functions under the effect of gravity.

G-scan Brio is based on an optimized permanent magnet so no cryogenes and no complicated cooling system are required. G-scan Brio is a "one room" MRI system

G-scan Brio offers to the patient the most advanced clinical outcome making the user a unique and reference point in the MRI scenario

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# G-scan brio Open Weight-Bearing Dedicated MRI

EXP Technology

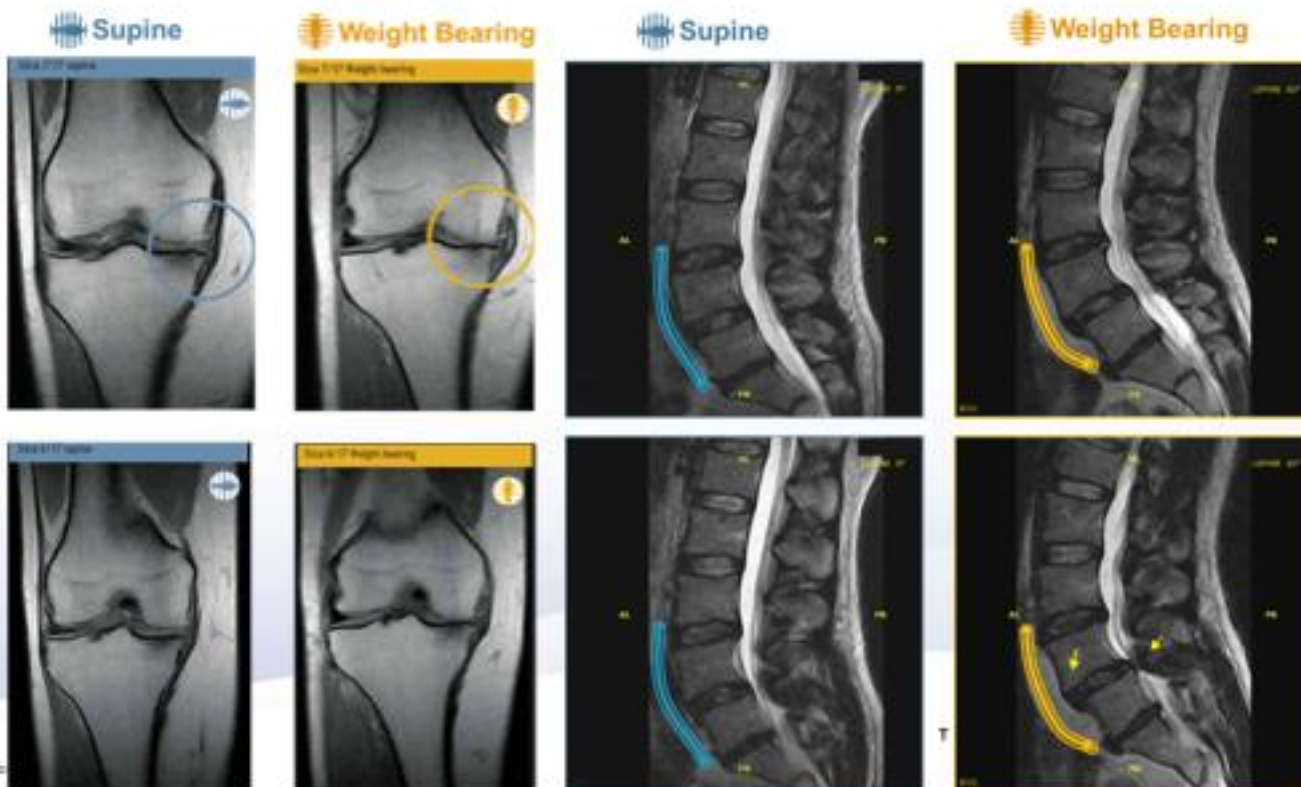


## The clinical importance of WB

### G-scan applications :

- Upper and lower extremities
- Hip
- Cervical & Lumbar spine
- Thoracic spine
- Head\*
- WB examinations

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## Esaote S-Scan



- Open Scanner, not claustrophobic
- Small amount of acoustic noise
- Can scan the same examinations as the G Scan just without the weight bearing capabilities
- Low running costs
- Low maintenance costs
- High patient comfort and compliance
- Small installation space of 4.5m x 4.0m sq
- 0.25T

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# Complete set of Dedicated Coils



## S-scan applications :

- Upper and lower extremities
- Hip
- Cervical & Lumbar spine
- Thoracic spine
- Head\*
- TMJ

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MSK joints					
					
Shoulder large knee and thigh (linear)	Knee thigh, calf, elbow, ankle-foot area, forearm and arm (DPA)	Hands & Wrist (DPA)	Ankle-feet elbow, forearm and arm (DPA)	Shoulder (DPA)	Shoulder (3-channels)
Neuro/Spine					
					
Cspine (linear)	LSpine (DPA)	Cspine (DPA)	Head (DPA)	LSpine (4-channels)	
Special					
					
Flexible Hip, shoulder and thigh (linear)			TMJ (DPA)		

## O-scan: World Class Extremity MRI

O-scan  
*Essence Dedicated MRI*  
*light*



O-scan represents the ideal solution for the extremity MRI that meets the customer needs with different configuration

O-scan  
*Essence Dedicated MRI*  
**EXP**  
*EXPERIENCE*



O-scan is an MSK-MRI specifically designed for Radiologist, Orthopedist and Sport Medicine customers.

O-scan  
*Essence Dedicated MRI*  
*Elite*



O-scan offers a cost-effective solution for single and small orthopedics group as much a 2<sup>nd</sup> MRI in the radiology practice near 1,5T

O-scan is a Smart MRI thanks to the AgilExam, an AI software, which increase the system productivity

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O·scan  
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light

# The Extremity MRI



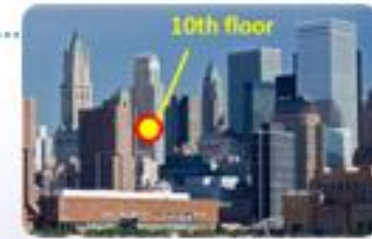
O·scan applications :

- Knee
- Ankle/Foot
- Wrist / Hand
- Elbow

• Imaging  
Exquisite quality

• Patient  
Extreme comfort

• Installation  
Everywhere



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## Advantages of working with Esaote

### Environmental Factors



- Currently a big drive towards lowering business' carbon footprint
- This can be tricky with big capital equipment such as MRI scanners
- With Esaote you can reduce the overall average of you carbon footprint with regards to scanning due to our smaller power requirements

	Magnifico	G-Scan	S-Scan	O-Scan	1.5T
Running	2.0kW	2.4kW	2.0kW	0.6kW	35.5kW
Standby	0.4kW	0.4kW	0.4kW	0.15kW	8.8kW

- Just by adding one Esaote scanner to an existing 1.5T would reduce the average kW usage from 35.5kW to 18.75kW
- All of our systems only require single phase power

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## Advantages of working with Esaote? Running Costs – Saving money with the “greener” MRI scanner

- Very low running costs as you do not need three phase power supply
- Scanner and computer unit literally plug into a wall socket via a UPS supplied
- No cryogenes required
- No expensive cooling
- Comparatively much lower service and maintenance costs versus 1.5T systems\*

	1.5T	S Scan
Power usage while scanner is on	35.5kW	2.4kW
Power usage while scanner is off	8.8kW	0.4kW
Total cost of electrical power in kWh	£23,856	£1,676
Overall Saving (despite S-Scan having to run more for same exam yield)		£22,180

Based on 75 exams per week:

One site powers their O-Scan using solar panels and has energy left over.

Cost of power per exam on 1.5T = £6.12

Cost of power on S-Scan = £0.43

*\*Please Note : the power requirements for the S-Scan are estimated values provided by Stuttgart reference site Sport Klinik, Dr Mauch and converted from Euros to Pound Sterling*

