

Eng. Sergio G. Santoro (Co-Founder)



Artificial Intelligence applied to the ultrasound diagnosis of hepatic steatosis "we do prevention and save lives"





WORLD POPULATION - 12 June 2024 8,115,309,000

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affected by hepatic steatosis (fatty liver)

2,705,103,000

FATTY LIVER

(MOST COMMON HEPATOPATHY IN THE WORLD)



High risk factor for:

- Metabolic diseases (MASLD, MAFLD, NAFLD)
- Cardiovascular diseases
- Liver diseases (Cirrhosis, Hepatocarcinoma)

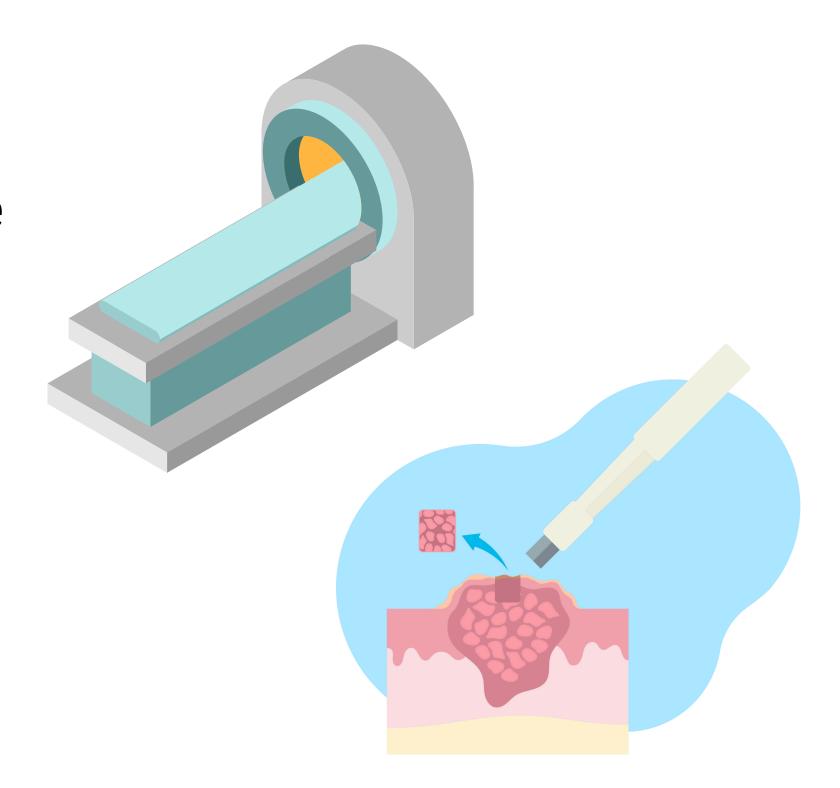
Browning, J.D., et al., Prevalence of hepatic steatosis in an urban population in the United States: impact of ethnicity. Hepatology, 2004. 40(6): p. 1387-95. Le, M.H., et al., 2019 Global NAFLD Prevalence: A Systematic Review and Meta-analysis. Clin Gastroenterol Hepatol, 2021.

GOLDEN STANDARDS

The golden standards for the accurate diagnosis of hepatic steatosis are **Magnetic Resonance** Imaging and **Agobiopsy**.

BUT

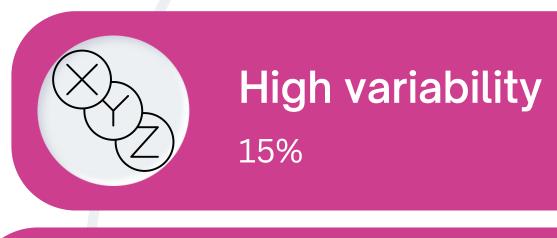
They are **expensive**, **invasive** and/or risky techniques for the patient



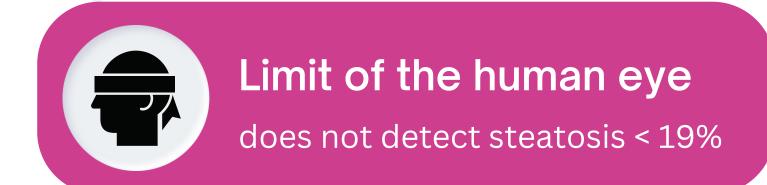
PROBLEM

Ultrasound as an alternative economical, rapid and non-invasive, but with limitations

Current problems in ultrasound diagnosis

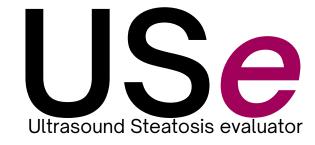






Pirmoazen, A.M., et al., Diagnostic Performance of 9 Quantitative Ultrasound Parameters for Detection and Classification of Hepatic Steatosis in Nonalcoholic Fatty Liver Disease. Invest Radiol, 2022. 57(1): p. 23-32.

EFFECTIVE SOLUTION

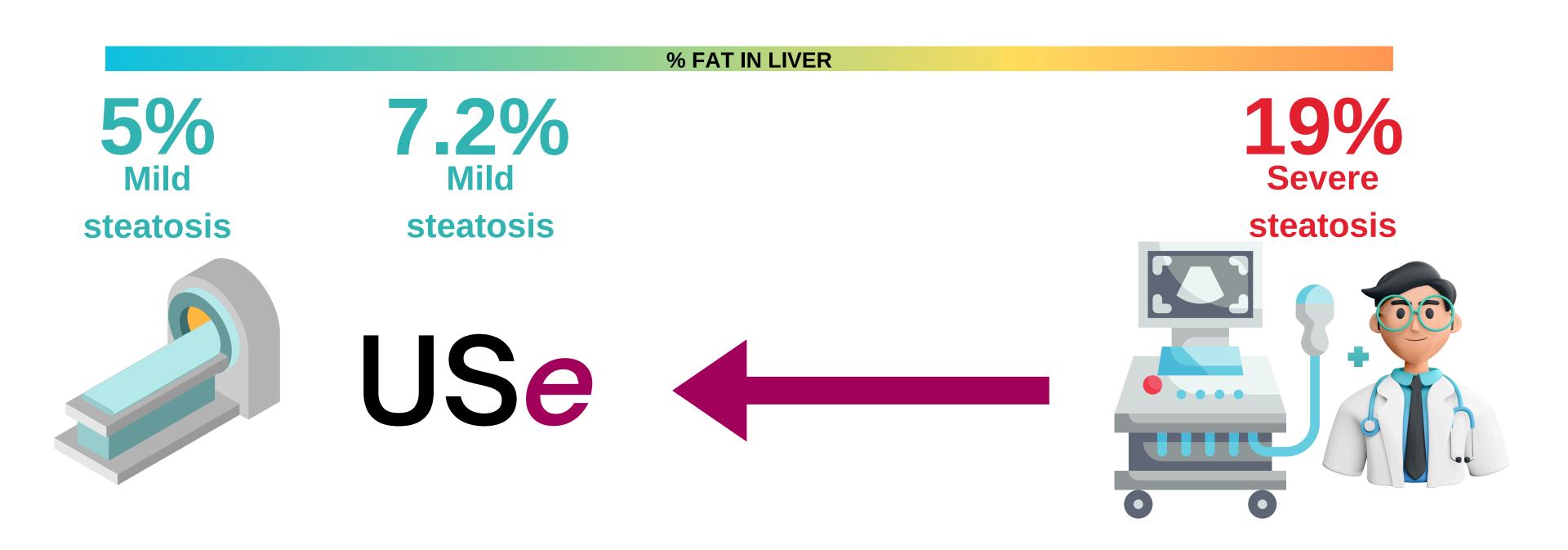




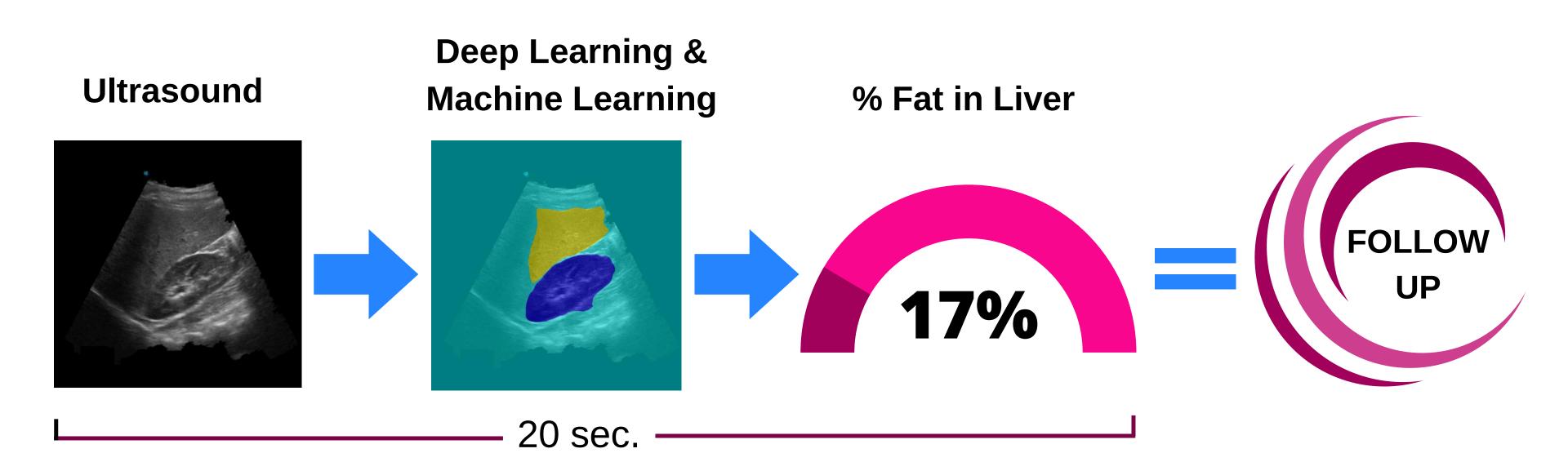
The A.I. it allows us to **evaluate fatty liver in 20 seconds** using a single ultrasound image, eliminating variability and dependence on the operator and **detecting fat starting from 7.2%**.



DETECT FAT STARTING FROM



HOW DOES IT WORK



SCREENING IN THE MASS

The use of AI allows mass screening for the first time



Early diagnosis and prevention of complications



Less costs for the NHS



Education and awareness



RESULTS

- European Congress of the ESCI 2023 Prague (European Society for Clinical Investigation)
- 124th National Congress of the SIMI 2023 (Italian Society of Internal Medicine) award for Best Oral Communication
- 22th ECIM 2024 (European Congress of Internal Medicine)
- 1st Prize Al Best in Healthcare at FORUM SISTEMA SALUTE 2023 (Leopolda Florence)
- 1st Prize START PITCH Competition Pisa 2024

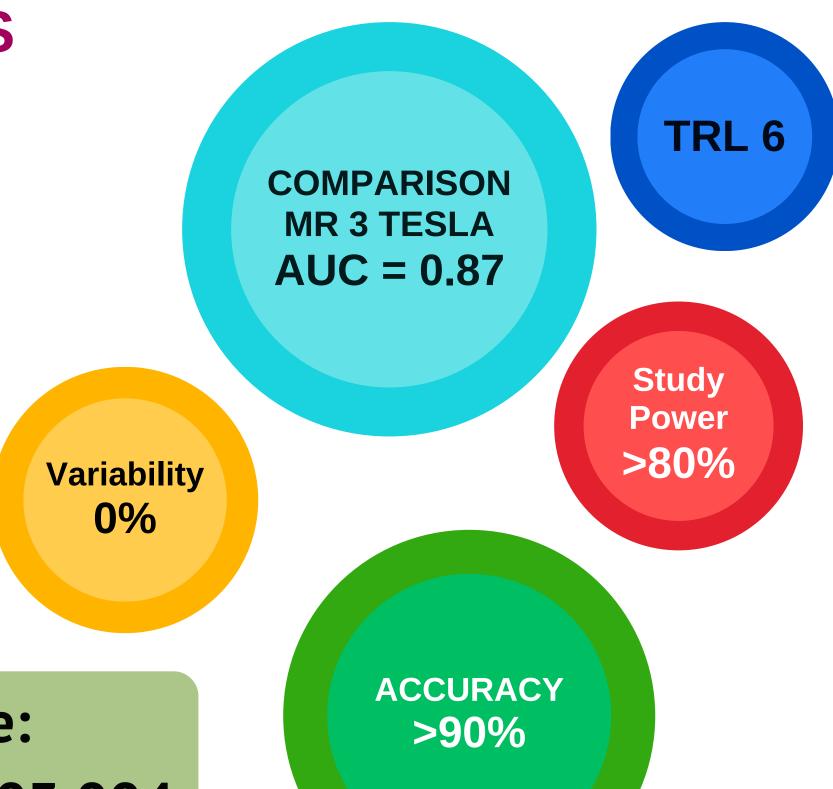
European Journal of Internal Medicine: https://doi.org/10.1016/j.ejim.2024.03.004



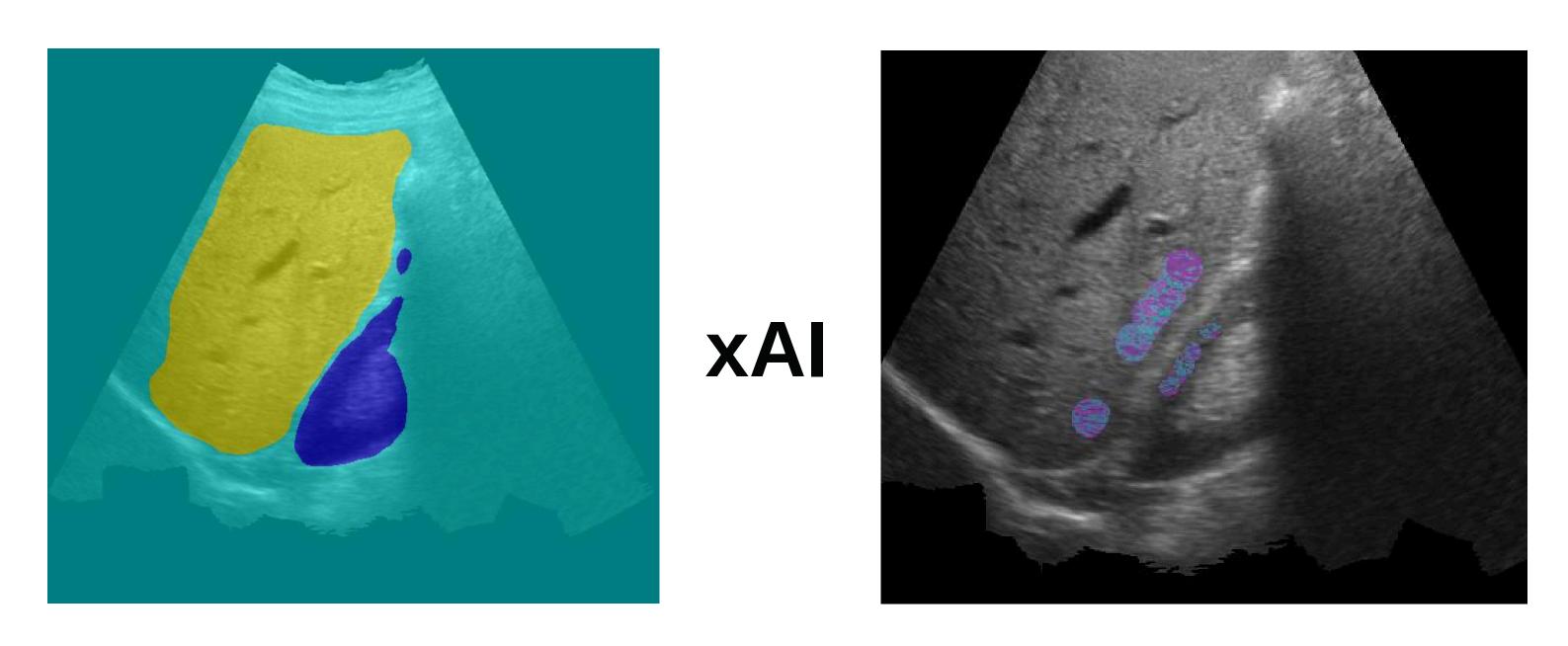






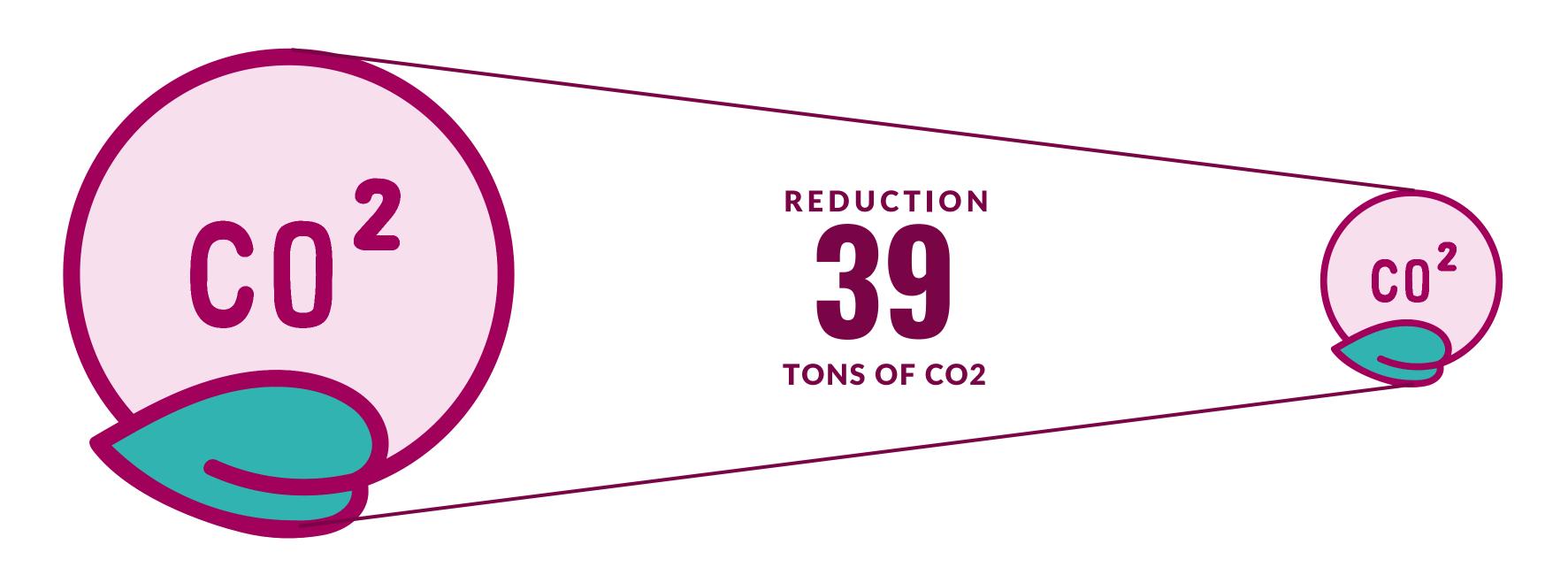


AI AT THE SERVICE OF THE OPERATOR



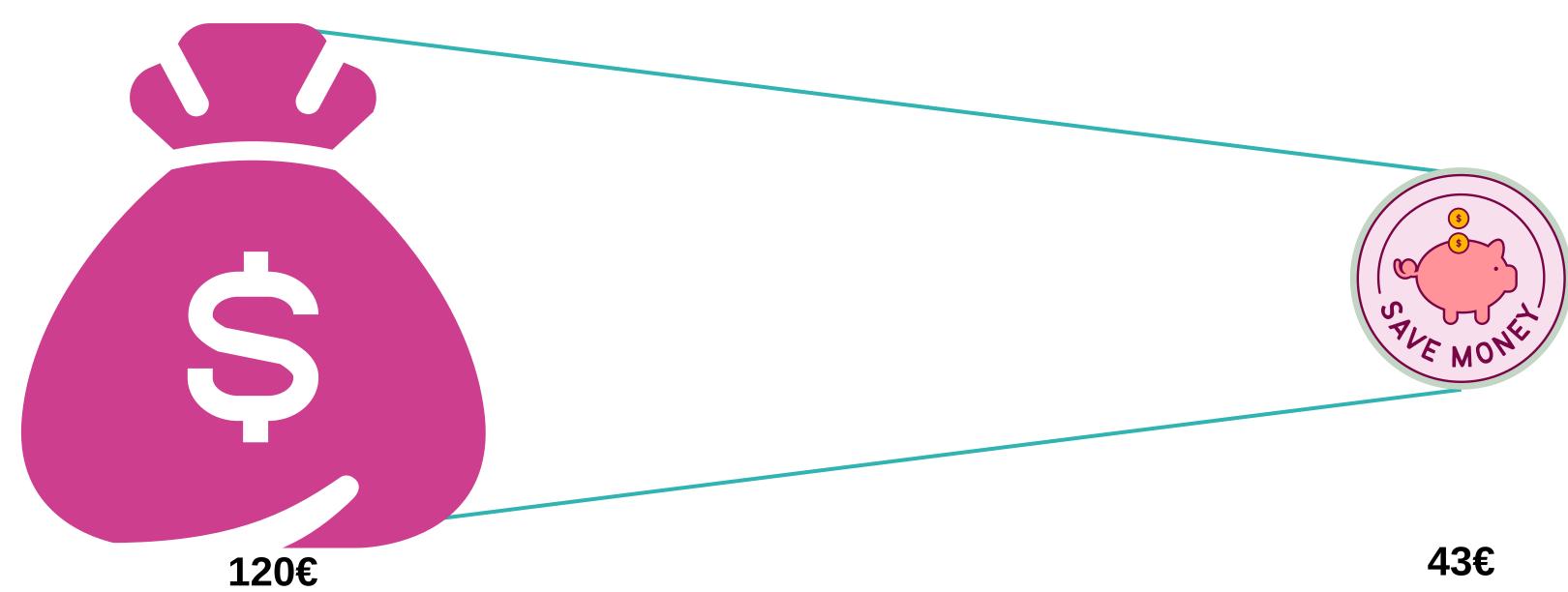
eXplicable Artificial Intelligence

REDUCED CARBON FOOTPRINT



Screening hypothesis on 1 million people

SAVINGS



Magnetic resonance imaging of the abdomen

43€
Ultrasound of the abdomen

Costs based on Italian NHS

TARGET

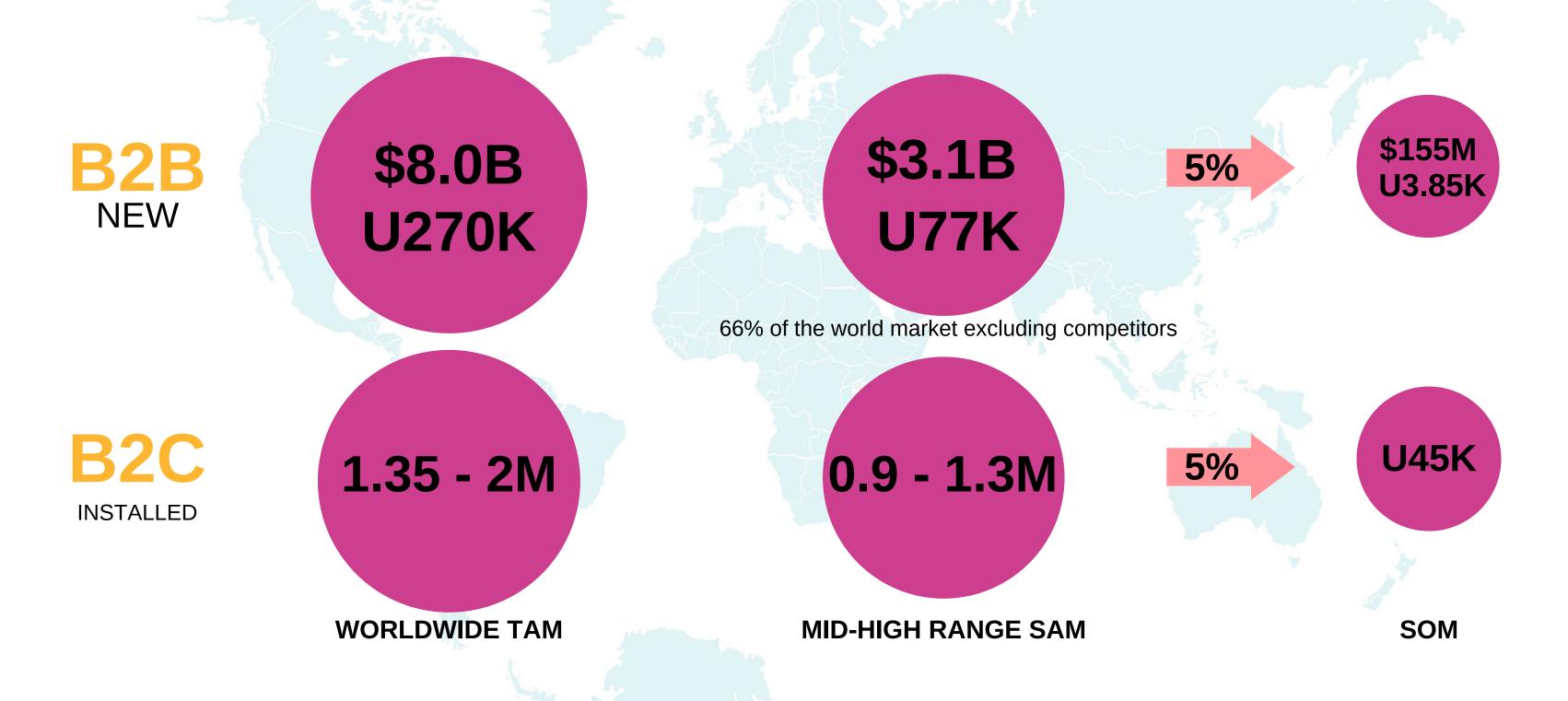
B2B

ULTRASOUND
MANUFACTURERS,
PROCESSING
SOFTWARE,
PHARMACEUTICAL
INDUSTRIES

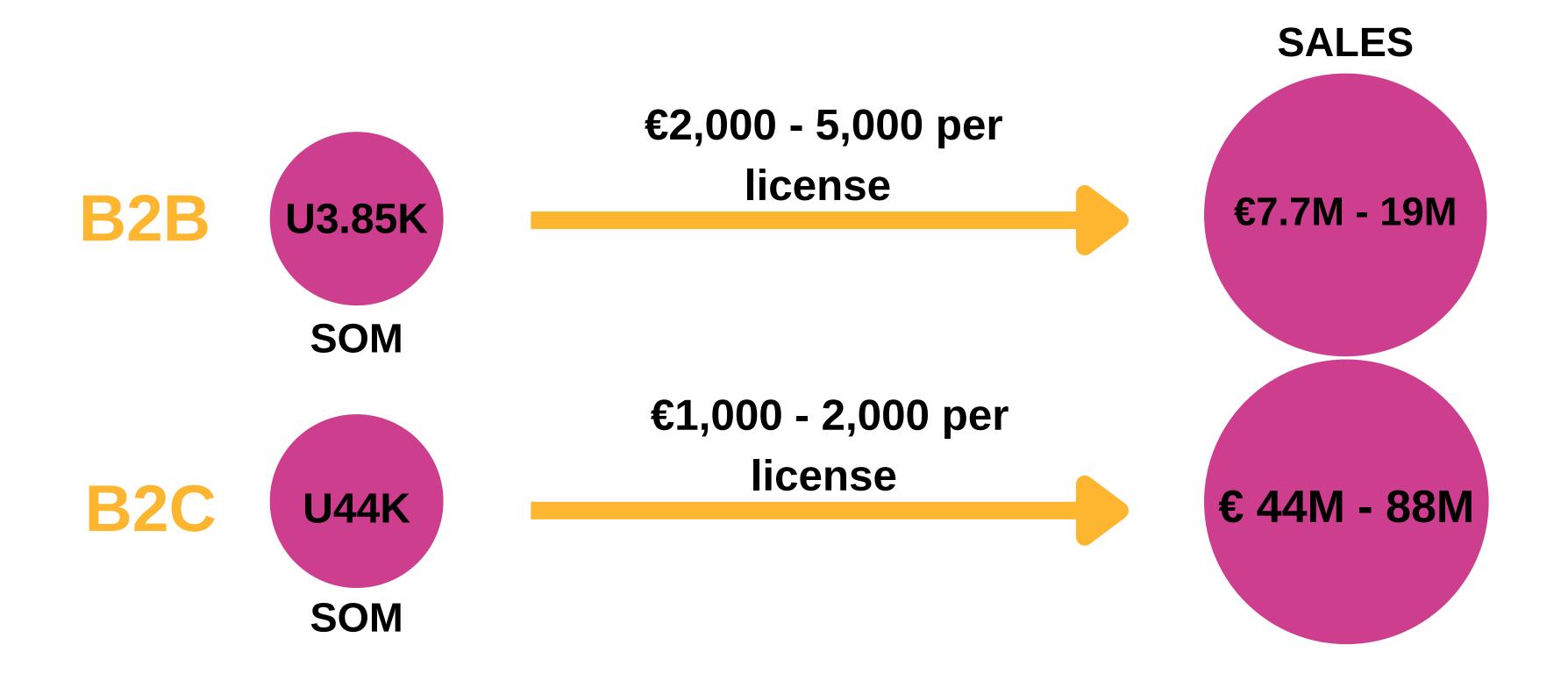
B₂C

DIAGNOSTIC
CENTRES,
OUTPATIENT
CENTERS,
HOSPITALS

ULTRASOUND MARKET



REVENUE MODEL



ROADMAP

6 MONTHS

- End of clinical validation
- R&D

12 MONTHS

- Product ready
- CE/FDA

3 MONTHS

- Start-Up Foundation
- Recruiting



TEAM



Roberto Wierdis CEO & Co-Founder

+30 years



Santoro
CIO & Co-Founder

Eng. Sergio

+20 years



Eng. Paola de Candia

Developer Analyst

+3 years

Scientific board





Prof. Piero
Portincasa

MD, PhD Clinical
director of
internal medicine
"A. Murri"



Dr. Mohamed Khalil PhD Researcher University of Bari



Unicorn USe

Thank You

Eng. Sergio G. Santoro +39 327 8156344 sergio.santoro@unicornapulia.it www.unicornapulia.it

