

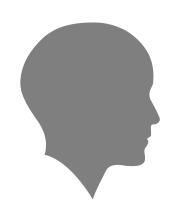




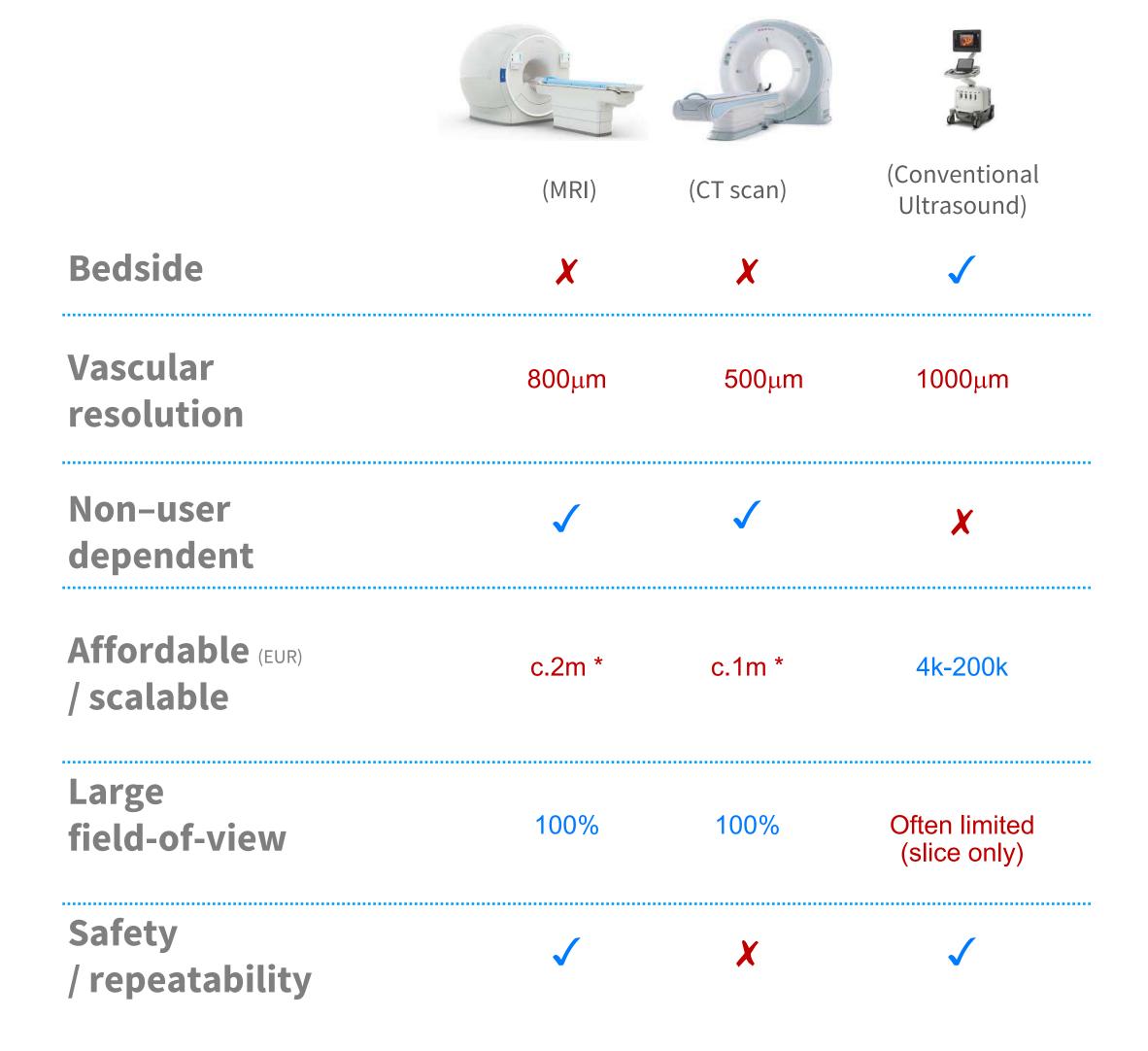
#### Executive summary

- Many unmet medical needs due to the limitations of current imaging devices: fixed, user-dependent, not very accurate, not repeatable, expensive...
- A disruptive, safe, non-user dependent, portable ultrasound-based imaging tech. discovered by our co-founder Olivier Couture: a worldwide acknowledged technology through a publication in "Nature"
- An ambition: significantly reduce mortality and disability from stroke and lead the next medical imaging leap by seizing opportunities from bedside stroke monitoring to future life-saving discoveries.
- Resolve Stroke is expected to decrease the EUR +110 bn in direct healthcare costs associated with stroke in the US and Europe by improving stroke management
- A vision: Resolve Stroke now has all the tools to bring the platform to the market and capture the upcoming outstanding discoveries thanks to data never seen before
- A derisked roadmap by first capturing clinically & tech. proven applications with already secured clinical trial partnerships in 2023 before expanding to other applications

# Many unmet medical needs due to the limitations of current imaging devices



Moreover, any additional information provided by a new imaging modality could provide critical data to physicians and result in a significant reduction in death and disabilities





#### A colossal impact



405

someone has a stroke

and every

4 min

someone dies of it

which costs

\$53 bn

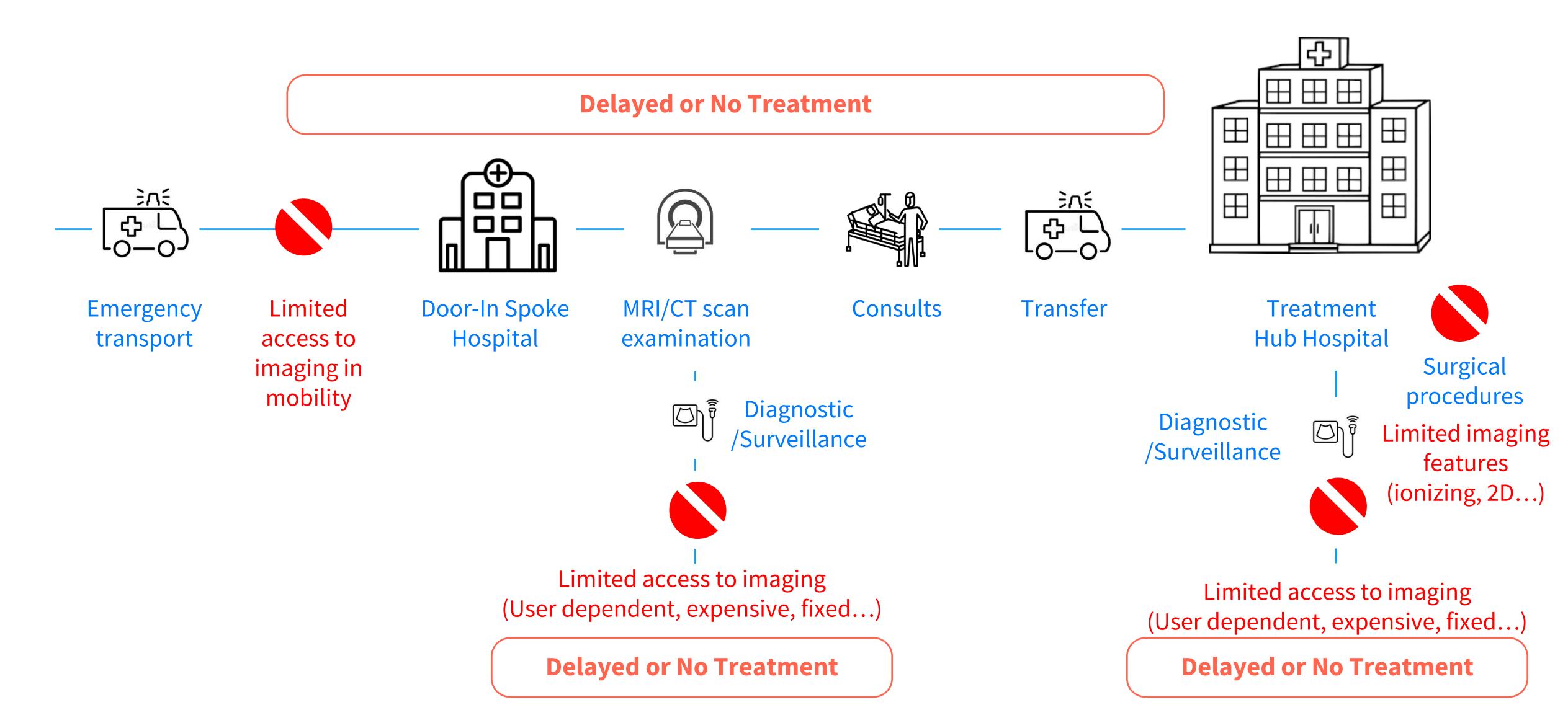
In direct healthcare cost

Source: CDC, Report on stroke





#### An inefficient workflow



**Onset** 

Alarm

Declaration of the symptoms

Call to emergency service

First hospital transfer Arrival at the hospital

**Imaging** Diagnostic with CT or MRI

**Treatment Hospital transfer** 

**Treatment** Thrombolysis with rt-PA or **Endovascular Thrombectomy** 

Acute Stroke Management is limited by the lack of access to MRI / CT scans

Today, 70 % of Stroke patients are too late to receive a treatment

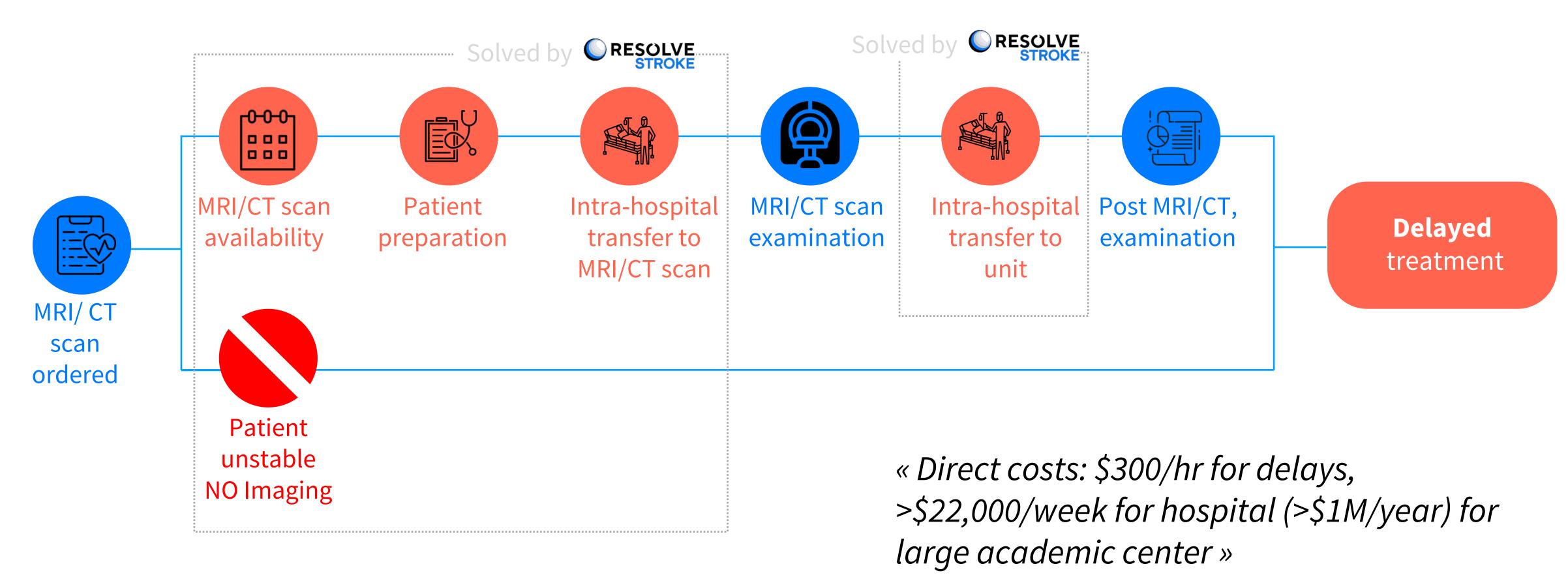
For hospitals, Early Detection and Timely Treatment Drive Reimbursement



In mobility

### Solve the inefficiency of the current ICU imaging workflow

Traditional MRI/CT scan workflow can lead to **prolonged delays** in patent care and **higher** resources consumption



## Resolve Stroke, a disruptive imaging platform

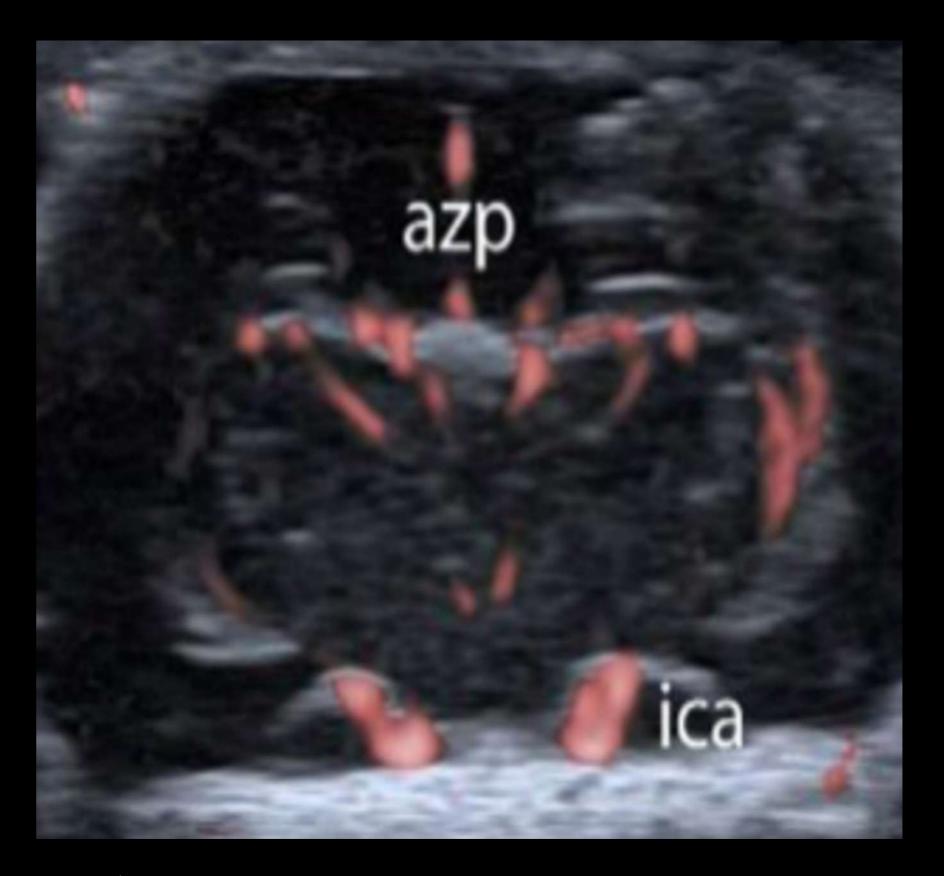


- 1. Point of Care / portable
- 2. Non-invasive, non-ionizing, repeatable (Ultrasound)
- 3. Non-user dependent (3D)
- 4. Real-time
- 5. Al-Ready
- 6. Intelligent Care coordinator



## ...thanks to a disruptive tech. bringing data never seen before

#### Conventional Ultrasound



#### Spatial resolution

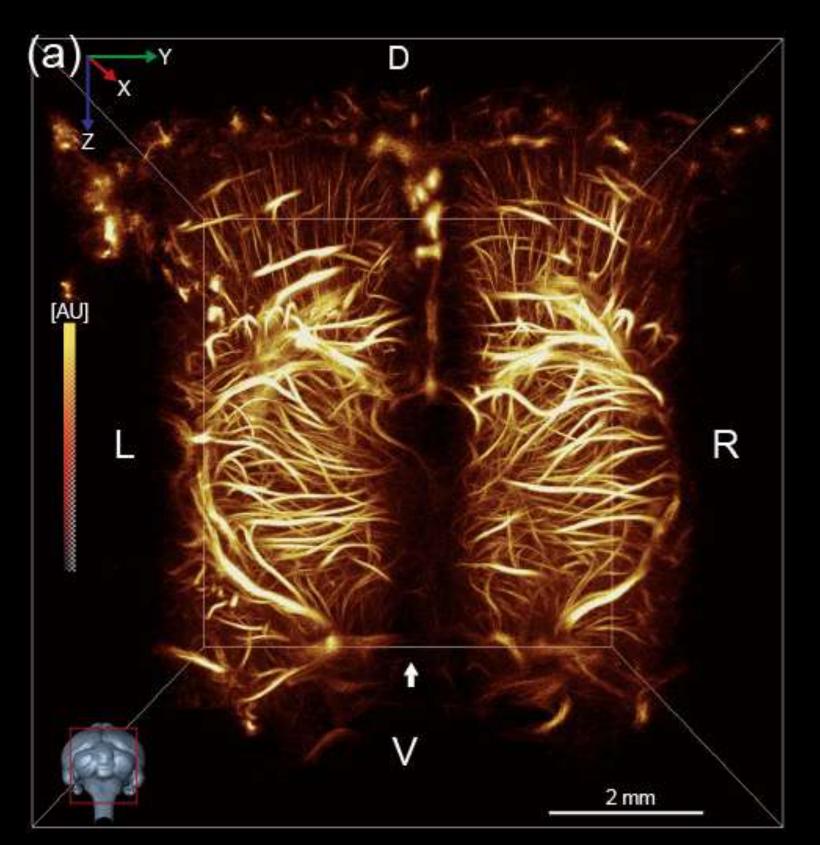
1 mm<sup>2)</sup> . O.1 mm<sup>2)</sup>

Field of view

2D 3D

#### Resolve core tech.

discovered by O. Couture and published in Nature



3D ULM rat brain with L.I.B .prototype. Courtesy A. Chavignon 1)

1) Trough rat skull, acoustic model at the human trans-temporal imaging scale 2) for humans

#### Complementary experienced cofounders



Aritz Zamacola **CEO & cofounder** 

+6 years' experience in Medtech strat. Project Manager, **30**<sup>+</sup> healthcare projects @Roland Berger

MSc Biomedical Eng. @Imperial College Engineering degree @CentraleSupélec MSc Strategy @**HEC Paris** 

**Operations & Strategy** 





Vincent Hingot **CTO & cofounder** 

+ 6 years' experience with ULM tech +10 publications & 3 patents Visiting student @Harvard **IEEE ULM course lecturer** 

> PhD @Sorbonne Université Engineering degree @ESPCI

> > **Tech & Product**







**Olivier Couture CSO & cofounder** 

+ 20 years' experience with Ultrasound **World-renowned scientist** +40 publications & +10 patents

**Research Director @CNRS** Co-inventor of ULM tech.

**Vision & Partnerships** 









#### A platform to revolutionize medical imaging

Short and long term opportunities in neuro & many other therapeutic areas



"Diagnosing Acute Mesenteric Ischemia"

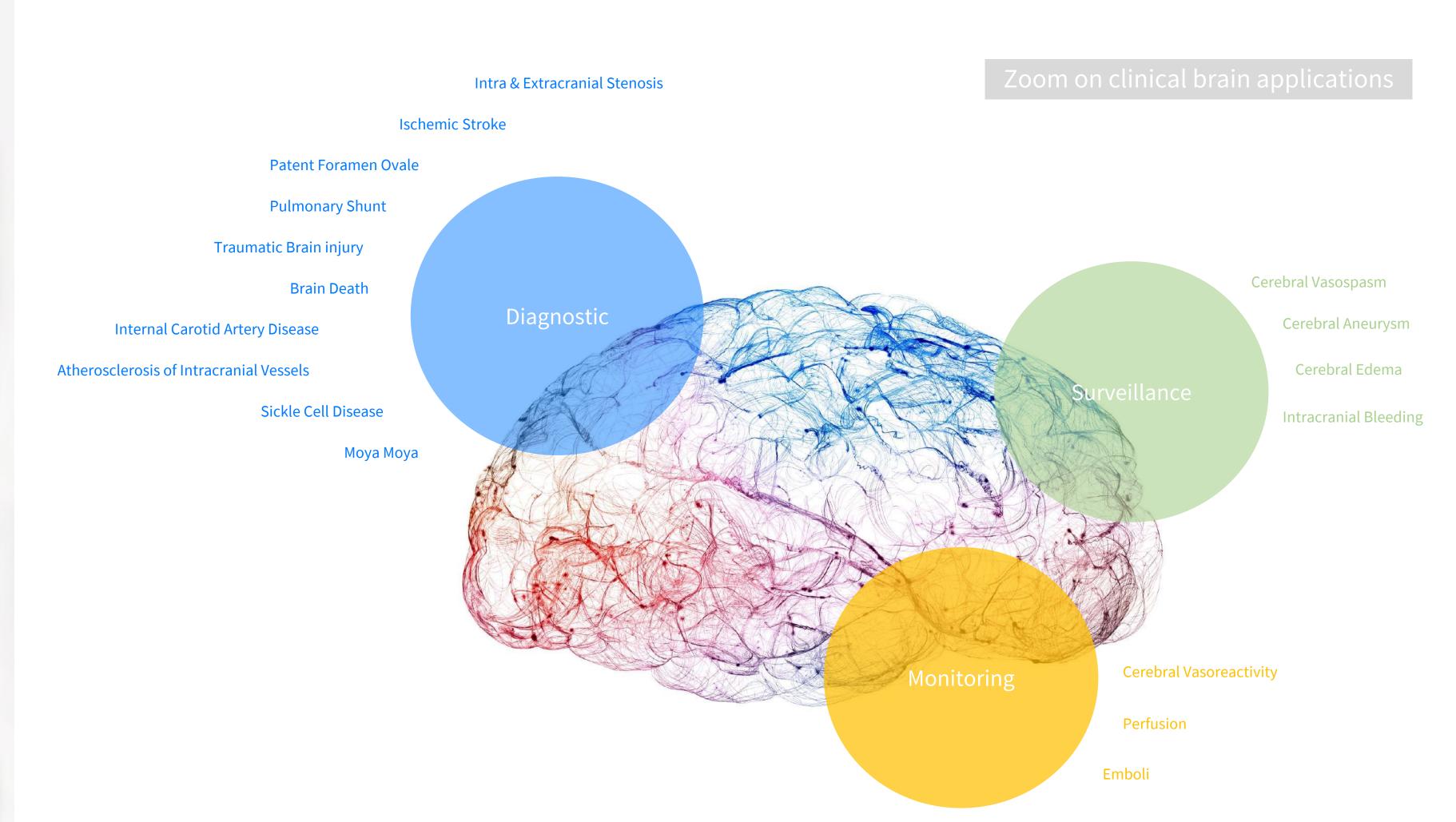
"Integrating ultrasound in miniinvasive/robotic procedures"

"Avoiding kidney biopsy"

"Detecting diabetes earlier"

"Creating a neurovascular database for AI based neurovascular biomarkers"

"Monitoring Alzheimer"



#### Benefiting from outstanding past developments

...-2010

A successful French ecosystem

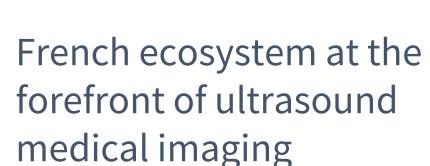




2010-2015

A breakthrough tech.





(ex. Ultrafast Ultrasound discoveries)















Olivier Couture as the codeveloper of the ULM Technology

- **Worldwide recognition** through the **publication** in « Nature » (2015) by Olivier
- First In Vivo demonstration

2016-2021

**Preclinical phases** 



#### **+EUR 2M grant (ERC) for** O. Couture

- Development of prototypes
- Successful preclinical developments
- ULM recognized in 2021 as a key area of research with dedicated sessions at the annual IEEE conference



2022 Founding of **Resolve Stroke** 

First MedTech leveraging ULM: Clinical, regulatory and commercialization phases

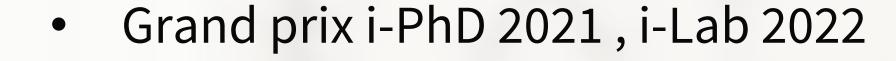






2<sup>+</sup> M€ in academic funding (ERC grant) for 1<sup>st</sup> prototypes
& ERC POC partnership for 1<sup>st</sup> clinical investigations













Network & Resolve Stroke's lab





Grant / support





Clinical trials partnerships



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