Pitch Deck

Cerebral blood flow prediction service based on AI technology

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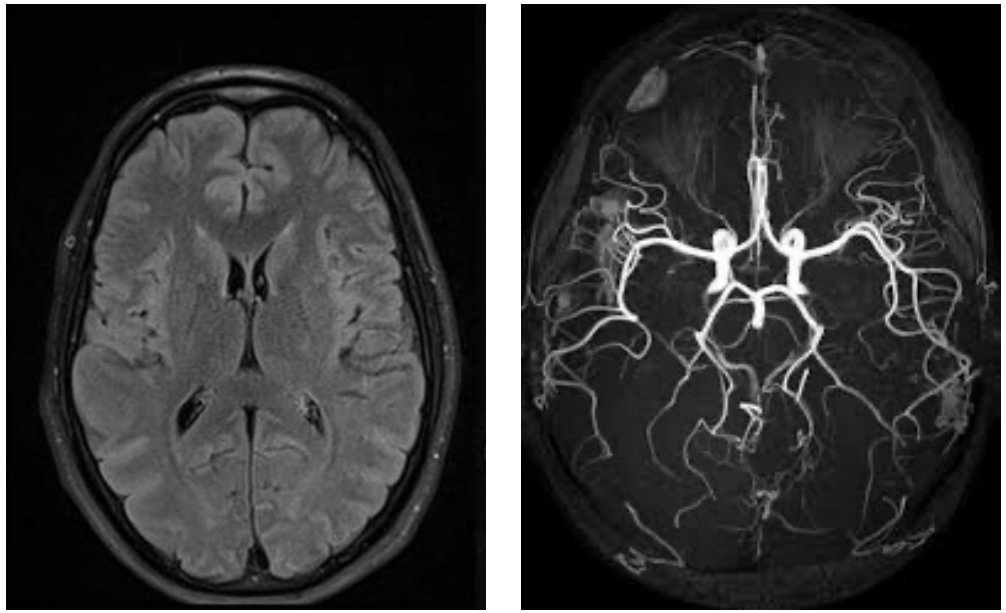
Problem?

MRI (Exp.) 2D/3D tissue/vessel images



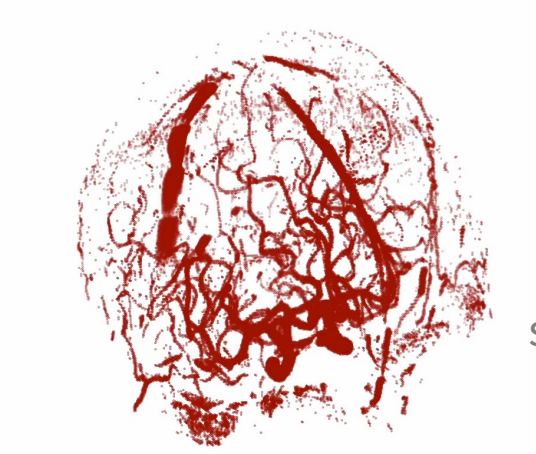
Conventional MRI/MRA data in Brain

In case of brain vessel related diseases,
the blood flow speed and pressure are important.

However, the current technology
can provide 3D geometry only.

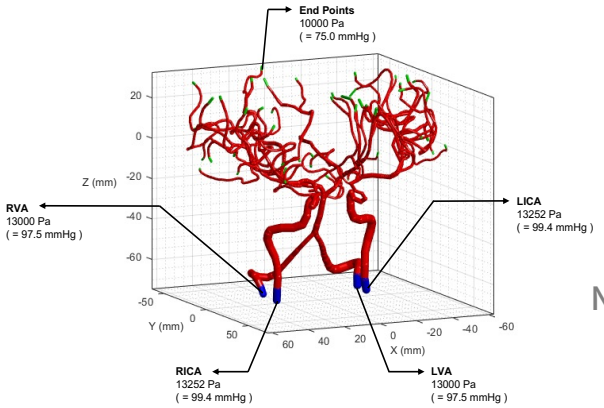
How can we measure/predict blood velocity and pressure through the geometry?

We provide 3D blood flow simulation model to predict the characteristics of blood flow.



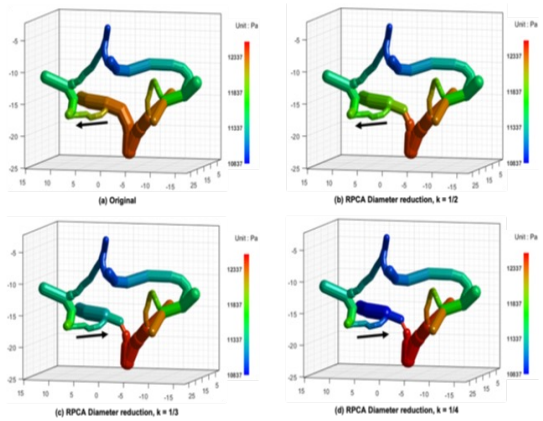
Complex 3D vascular structure

AI
Denoising &
Segmentation



Cleaned 3D vascular geometry

AI
Flow
Network Model



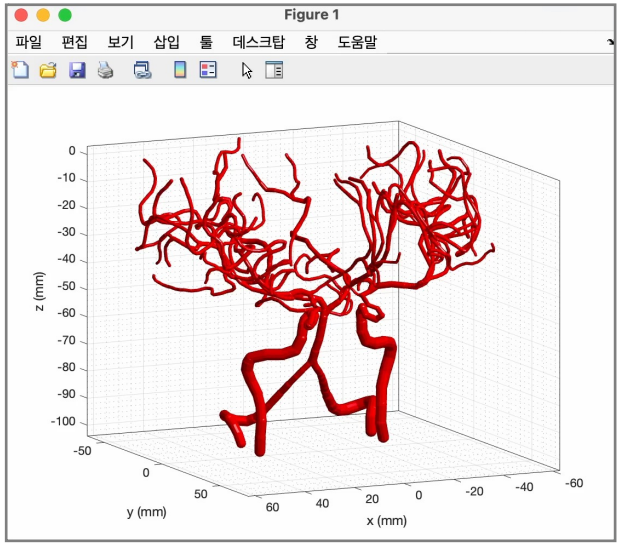
Blood flow in the brain vessel

- ✓ Use 3D computer graphics platforms based on medical images such as CT or MRI
- ✓ Provide blood velocity and pressure in the brain vasculature by AI-driven approach

Example

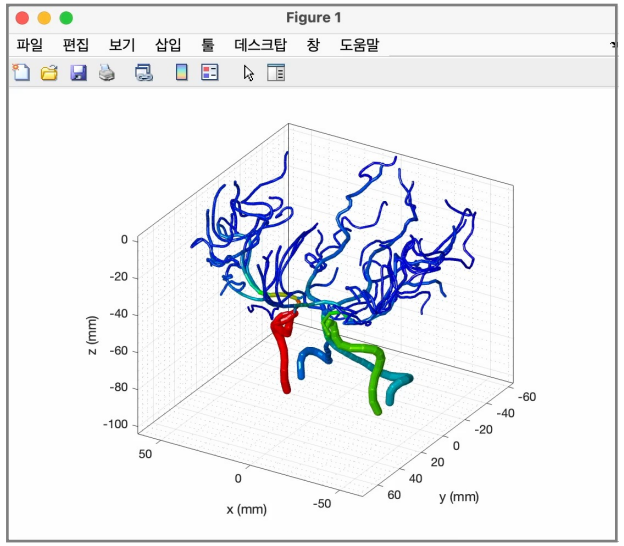
We will provide blood flow data to medical doctors, specifically neurosurgeons.

Pain Point



Conventional 3D brain vessel model

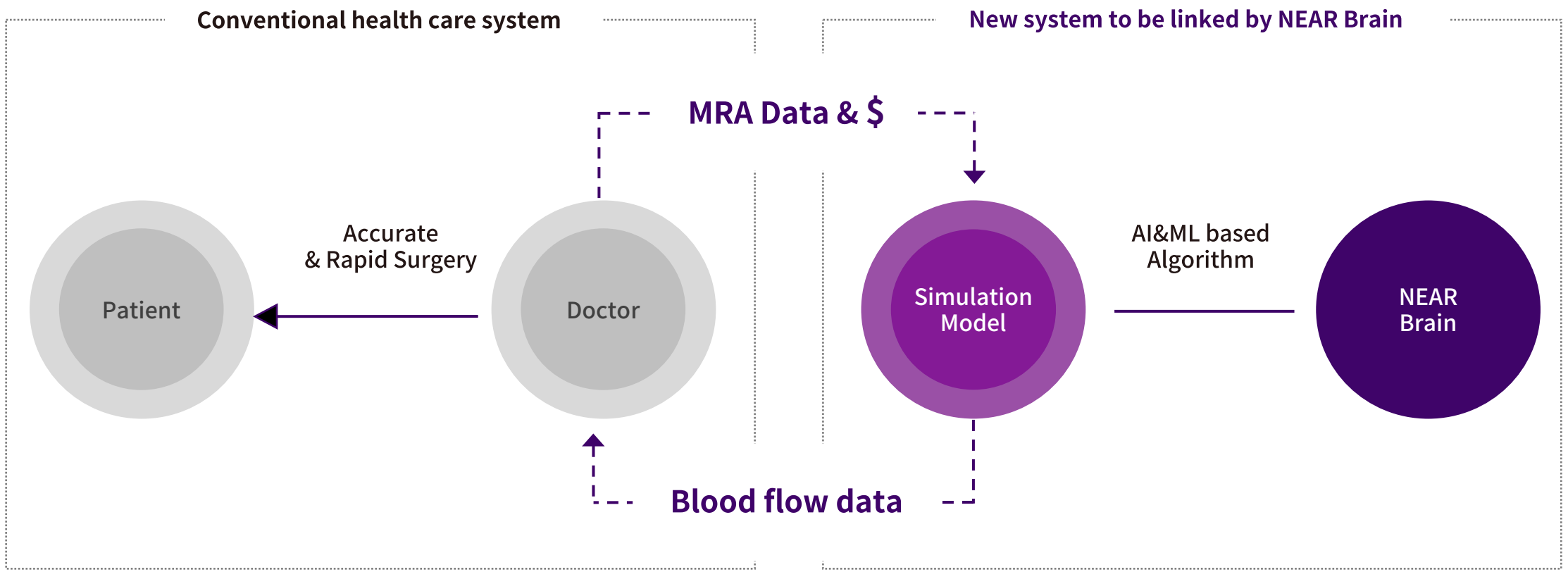
Solution



NEAR Brain's 3D blood flow model

Business Model

The risk of neurosurgery can be quantitively measured and evaluated by the data.



Team

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Thank You

NEAR Brain Inc.

Tae-Rin Lee, CEO