

# PROTECT NETWORKS, PRESERVE FUNCTION

Personalized and actionable insights  
Powered by Connectomics

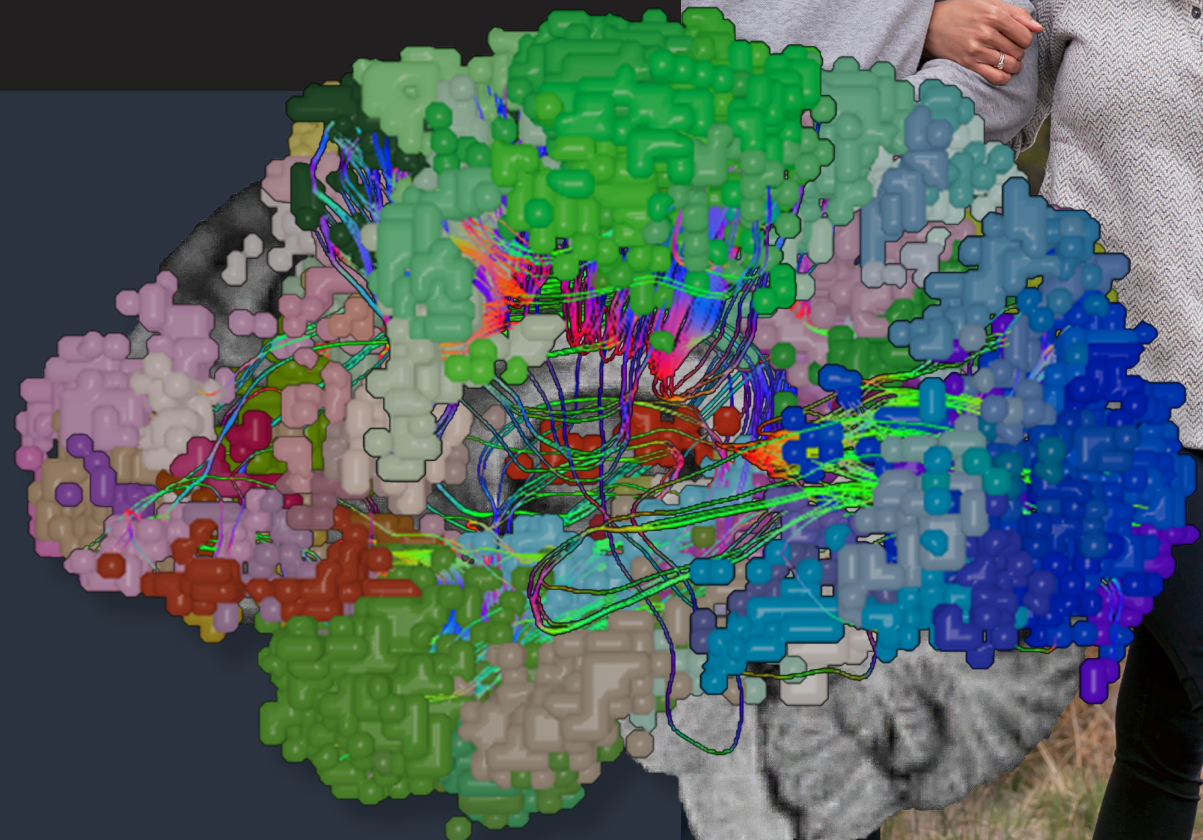
From speech and motor function, to  
higher cognitive thinking and emotion  
– **there is a brain network.**

Behind every unexpected or  
unexplained neurological deficit  
– **there is a brain network\*.**

Quicktome brings these brain  
networks to light, equipping you with  
**patient-specific actionable insight.**

\* Current prevailing literature expresses disorders of the brain to not be confined to single locations, but as changes to wider axonal pathways, otherwise known as brain networks. For more information, visit [www.o8t.com/brain-networks](http://www.o8t.com/brain-networks).

 Quicktome

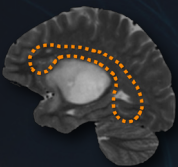


# NEUROSURGICAL PLANNING MADE EASY

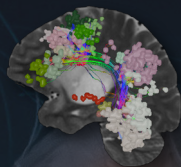
Quicktome™ was built with the mission to ensure all surgeries benefitted from planning.

Neuroscience has described the existence of large-scale brain networks<sup>1</sup>. Quicktome maps each network automatically and puts them at your fingertips.

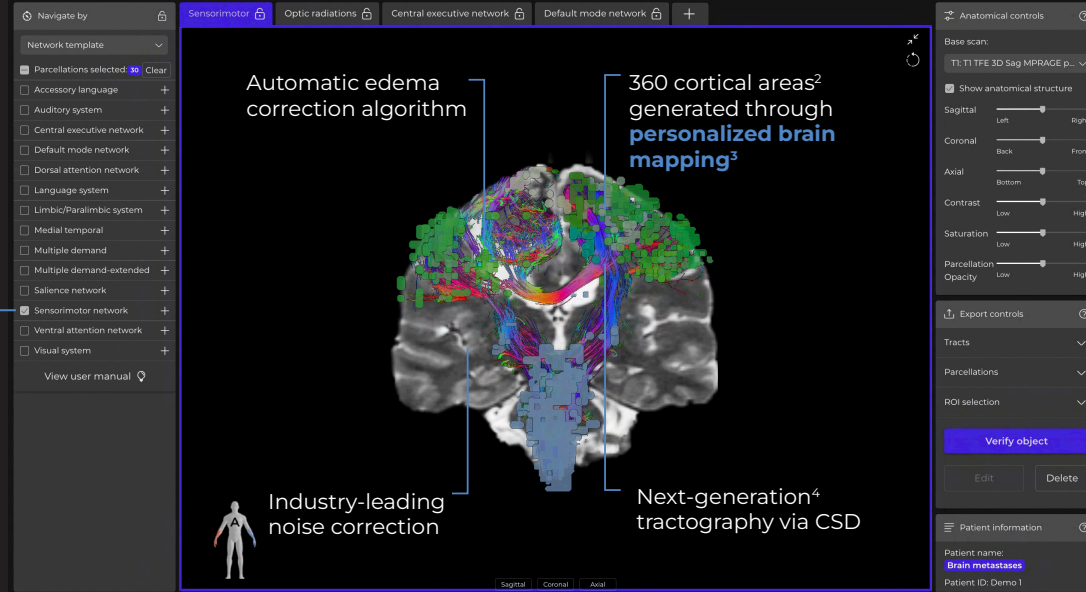
## AS SEEN IN QUICKTOME™...



Perceived location of patient's language network



Location of patient's language network displayed by Quicktome™



# HOW IT WORKS

With cloud-based, automated processing, we have removed the tedious steps of generating brain maps, allowing you to focus on planning – for every patient.



## 1. ACQUIRE

Scan patient using readily accessible DWI MRI sequence



## 2. PROCESS

Scans processed via cloud-based PACS integration using groundbreaking algorithms



## 3. PLAN

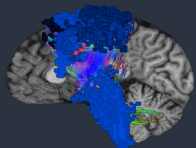
Easily review and plan cases directly from web browser



## 4. EXPORT

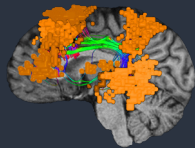
Access surgical plan on your system of choice

# SUMMARY OF BRAIN NETWORKS



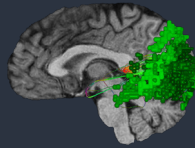
## SENSORIMOTOR

Sensing physical inputs, converting them to electrical signals to initiate a physical response



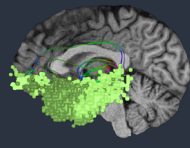
## LANGUAGE

Extensive network with components responsible for auditory, verbal, and comprehension function



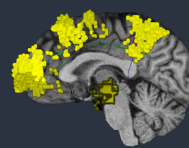
## VISUAL

Visual and sight processing



## LIMBIC

Responsible for socio-emotional behavior and memory



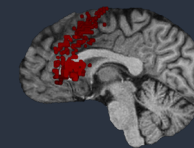
## CENTRAL EXECUTIVE

Active during tasks and decision making



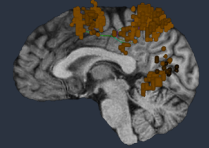
## DEFAULT MODE

Critical network involved with cognitive and emotional regulation



## SALIENCY

Cognitive, emotional and motivational function



## DORSAL ATTENTION

Holds attention for a person to focus and ignore miscellaneous noises or environmental changes



Learn more at  
[o8t.com](https://www.o8t.com)

## REFERENCES

1. Yeo, B. T., Krienen, F. M., Sepulcre, J., Sabuncu, M. R., Lashkari, D., Hollinshead, M., ... & Buckner, R. L. (2011). The organization of the human cerebral cortex estimated by intrinsic functional connectivity. *Neurophysiology*, 106(3), 1125–1165.
2. Glasser, M. F., Coalson, T. S., Robinson, E. C., Hacker, C. D., Harwell, J., Yacoub, E., ... & Van Essen, D. C. (2016). A multi-modal parcellation of human cerebral cortex. *Nature*, 536(7615), 171–178.
3. Doyen, S., Nicholas, P., Poologaindran, A., Crawford, L., Young, I. M., Romero-Garcia, R., & Sughrue, M. E. (2022). Connectivity-based parcellation of normal and anatomically distorted human cerebral cortex. *Human Brain Mapping*, 43(4), 1358–1369.
4. Tournier, J. D., Yeh, C. H., Calamante, F., Cho, K. H., Connelly, A., & Lin, C. P. (2008). Resolving crossing fibres using constrained spherical deconvolution: validation using diffusion-weighted imaging phantom data. *NeuroImage*, 42(2), 617–625.

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