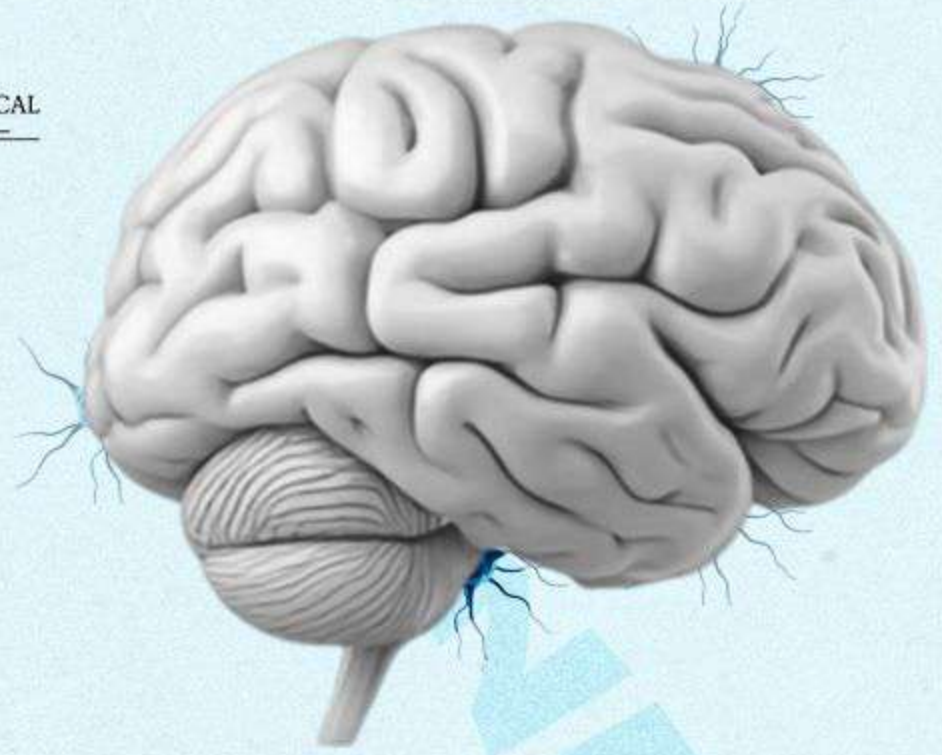




Neuroethics:



Morality, Free Will & The Brain

Science fiction?

Nope. It's already here.

What Is Neuroethics?

Neuroethics = the meeting point of brain science & moral philosophy. It asks:

- | **Can the brain explain good vs. bad?**
- | **Should we use brain scans to judge behaviour?**
- | **How far should we go with neuro-technology?**

It's not just about tech; it's about being human.



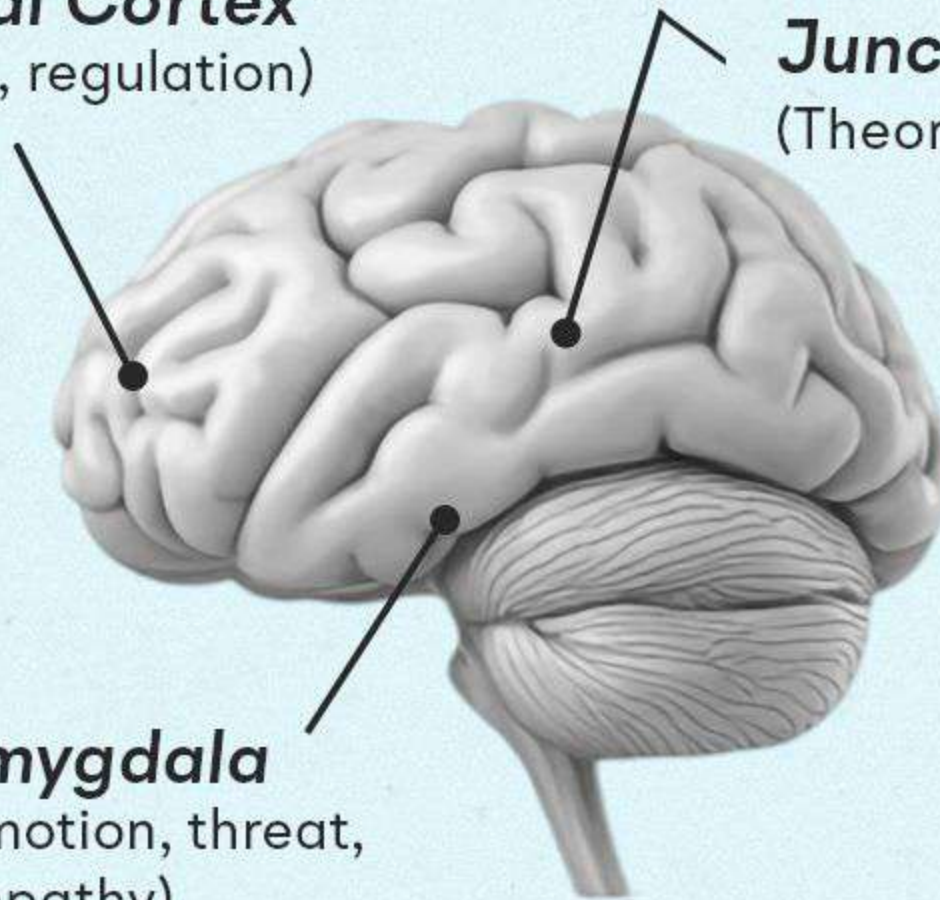
Does Morality Have a Neural Signature?

Moral decisions are linked to specific brain systems:

Prefrontal Cortex
(Reasoning, regulation)

Temporoparietal Junction (TPJ)
(Theory of mind)

Amygdala
(emotion, threat, empathy)



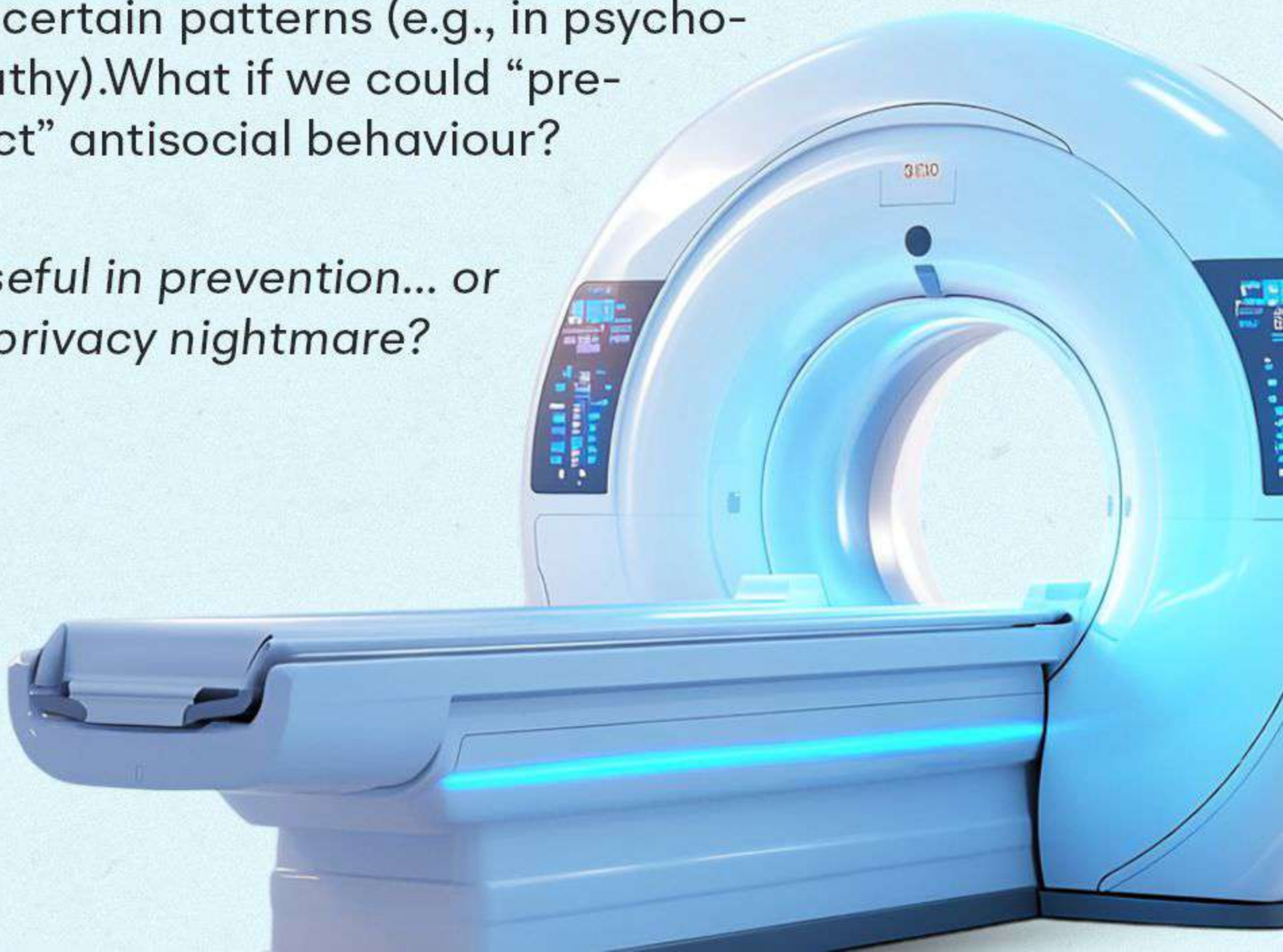
But does seeing it in the brain mean we fully understand it?

Brain Scans & Moral Prediction

fMRI shows brain activity when people face moral dilemmas.

Studies reveal reduced empathy or guilt in certain patterns (e.g., in psychopathy). What if we could “predict” antisocial behaviour?

Useful in prevention... or a privacy nightmare?

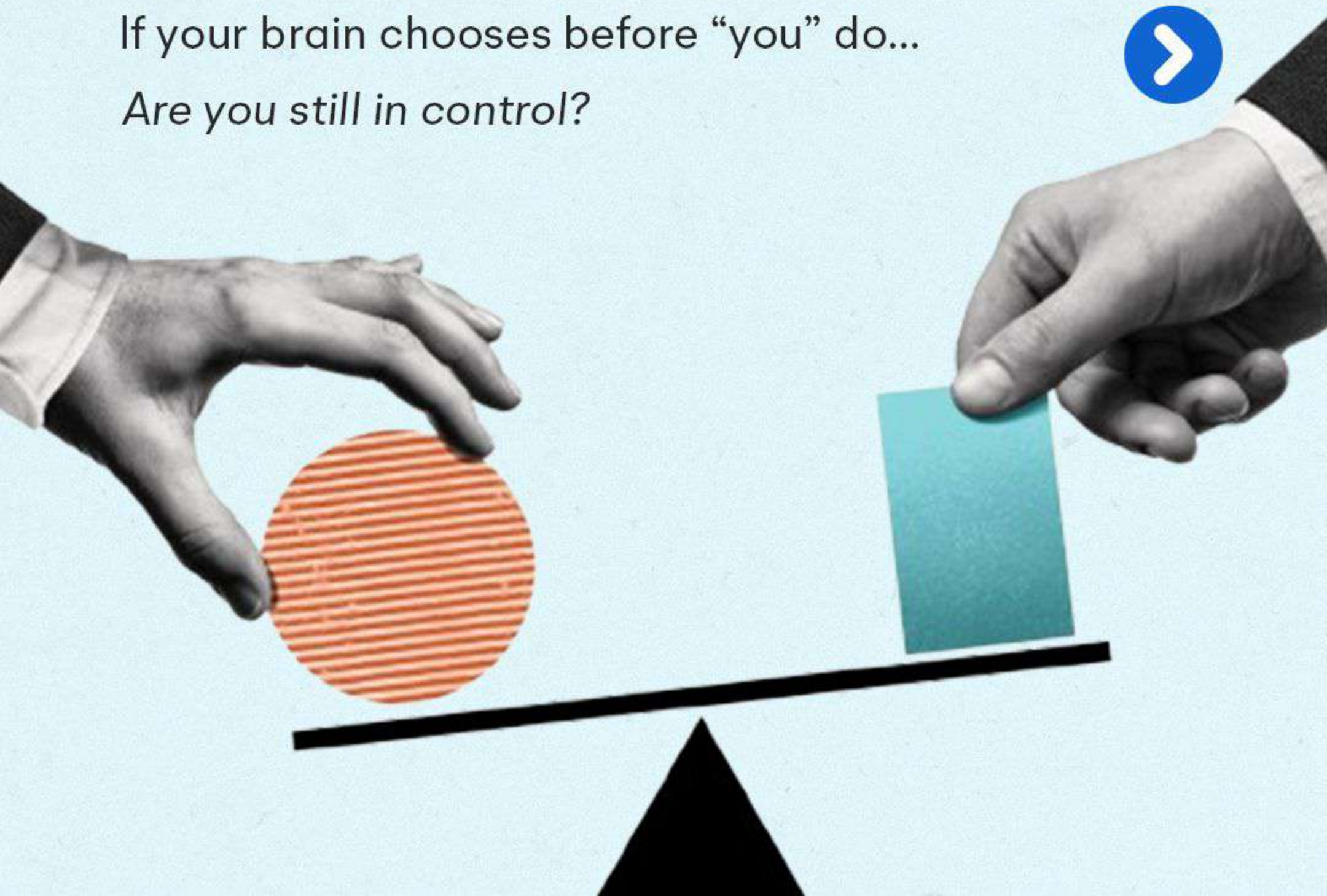


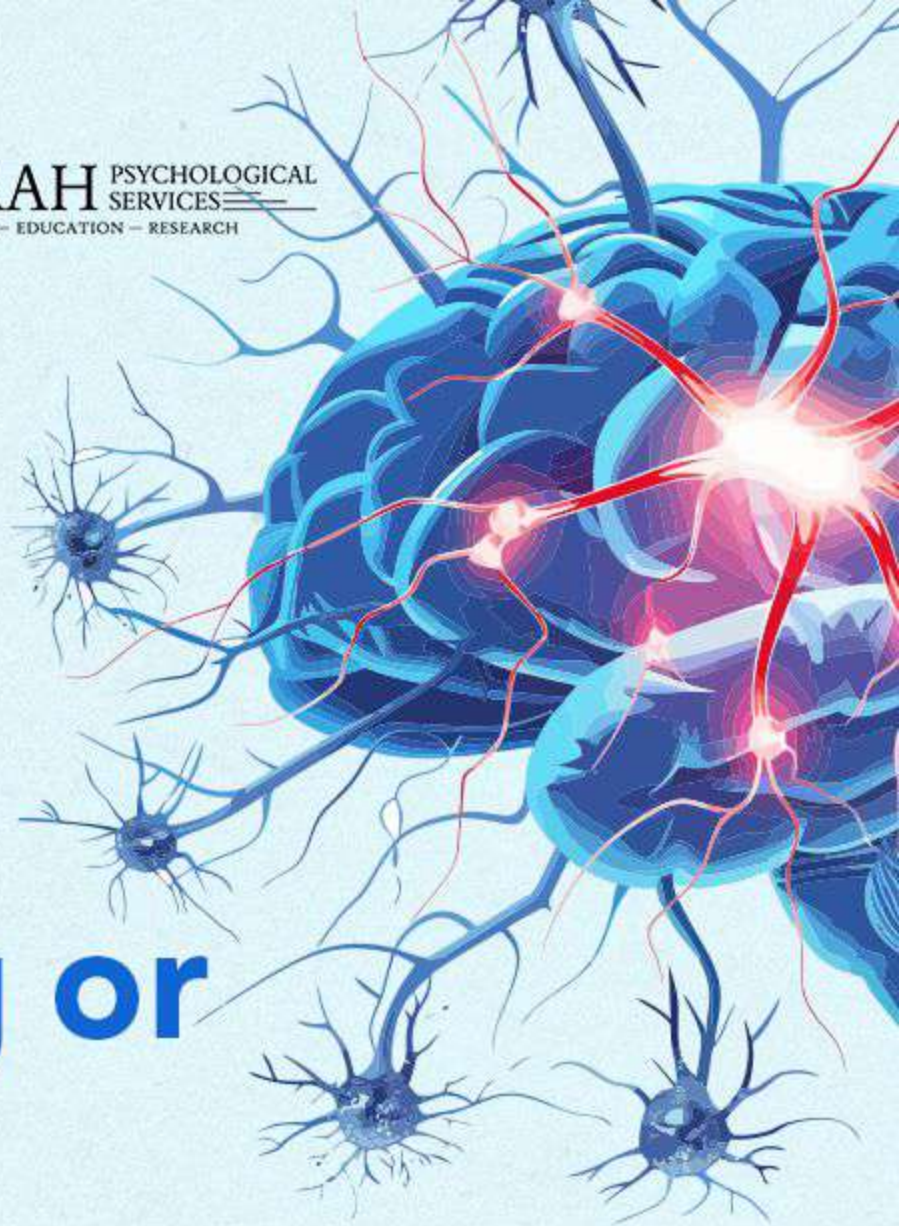
What About Free Will?

Some research shows brain activity before people make a conscious choice.

If your brain chooses before “you” do...

Are you still in control?





Neurotechnology—Healing or Hacking?

Brain interventions like:

Deep Brain Stimulation (DBS)

Transcranial Magnetic Stimulation (TMS) offer relief for OCD, depression, Parkinson's.

But also raise questions:

Can we ethically “edit” thoughts?

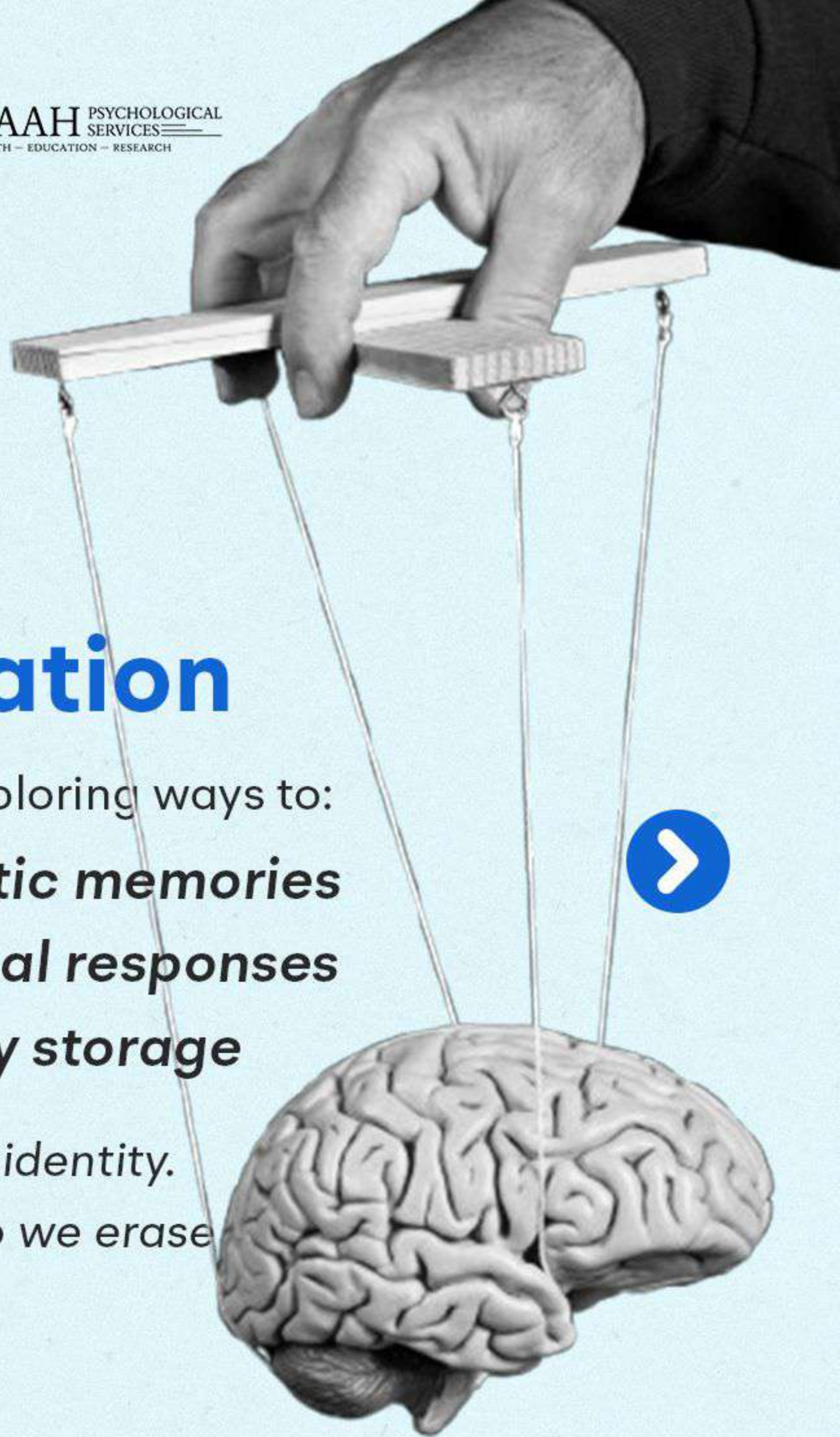
What counts as healing vs. enhancement?

Memory Manipulation

Neuroscience is exploring ways to:

- **Block traumatic memories**
- **Alter emotional responses**
- **Boost memory storage**

But trauma shapes identity.
If we erase pain, do we erase
we are?



The Big Ethical Questions

Neuroethics forces us to ask:

- ***Should brain data be private?***
- ***Will tech blur the line between therapy & control?***
- ***How do we preserve autonomy and consent?***

This isn't future talk. It's now.



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