

The Cyborg Experiments

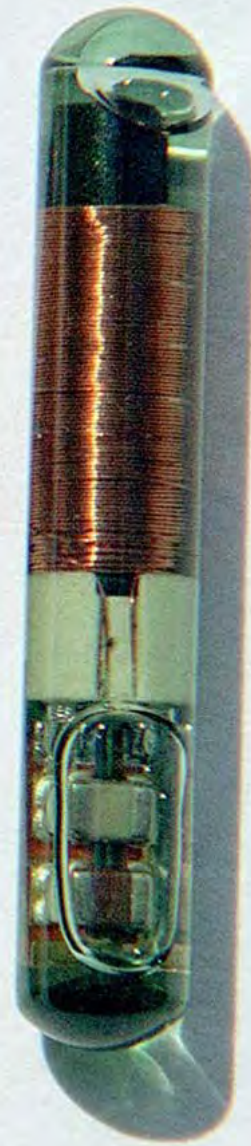
Kevin Warwick

9 November 2017

The background is a smooth blue gradient, transitioning from a lighter blue at the top to a darker blue at the bottom. A bright sun flare is visible on the left side, creating a shimmering effect across the water-like surface.

Biohacking





Magnet Implants





DEC 5010
185
HAWAII

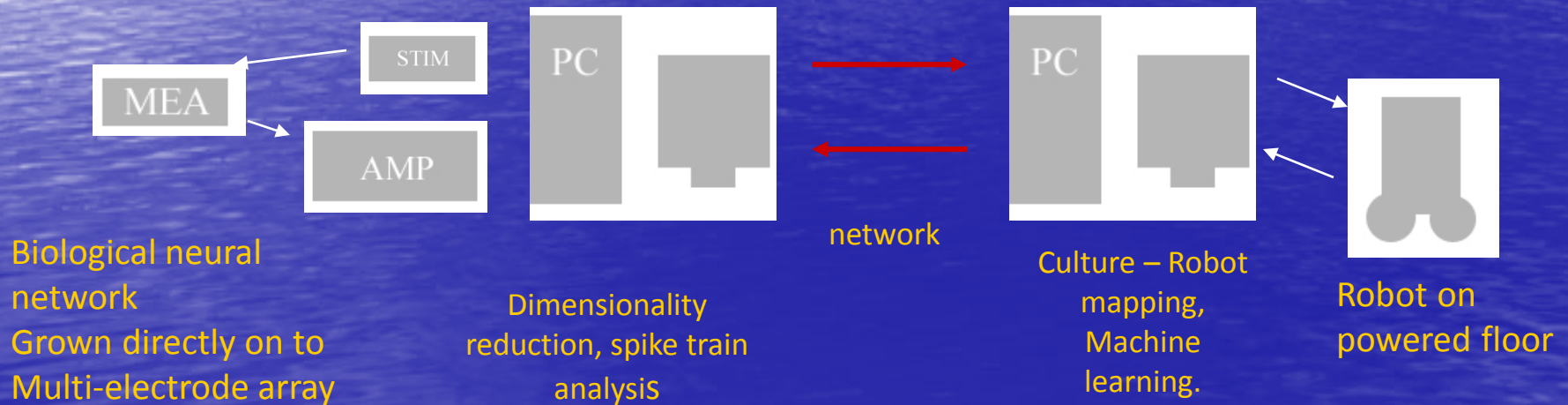


The background is a smooth blue gradient, transitioning from a lighter blue at the top to a darker blue at the bottom. A bright sun flare is visible on the left side, creating a white and yellow glow that fades into the blue. The overall effect is clean and professional.

Culturing Neurons

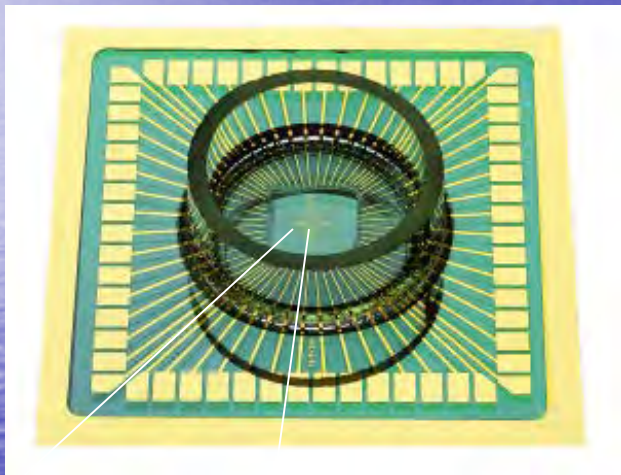
Robot with a Biological Brain

A closed loop interface between a biological network and a robot

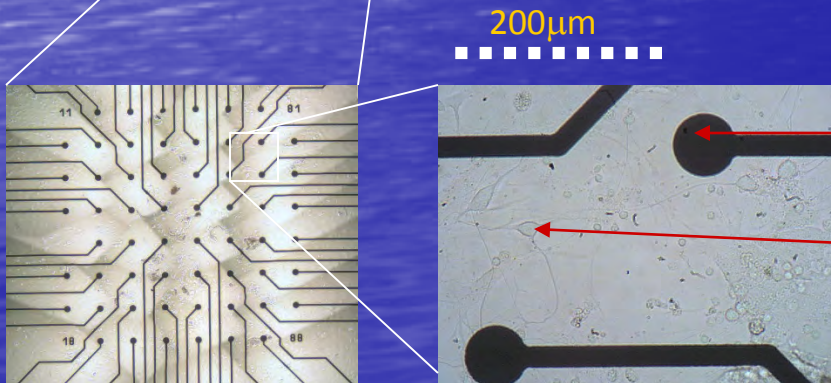


Approach

- Culture brain cells directly on to a recording surface and re-embodiment the 'brain' within a robotic body.



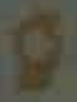
- Multi-Electrode Array (MEA) allows recording from 128 electrodes across the entire culture.



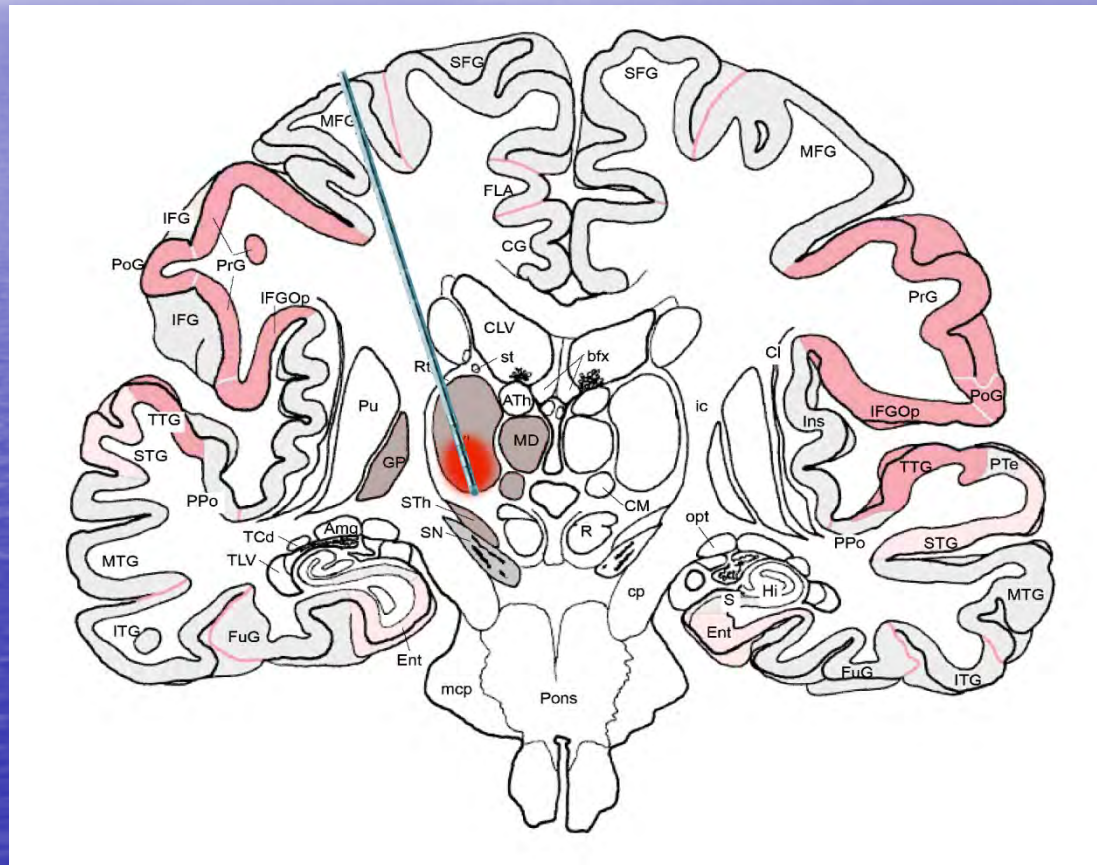
TiN Electrodes
30 μ m diameter

Neurone





Deep Brain Stimulation





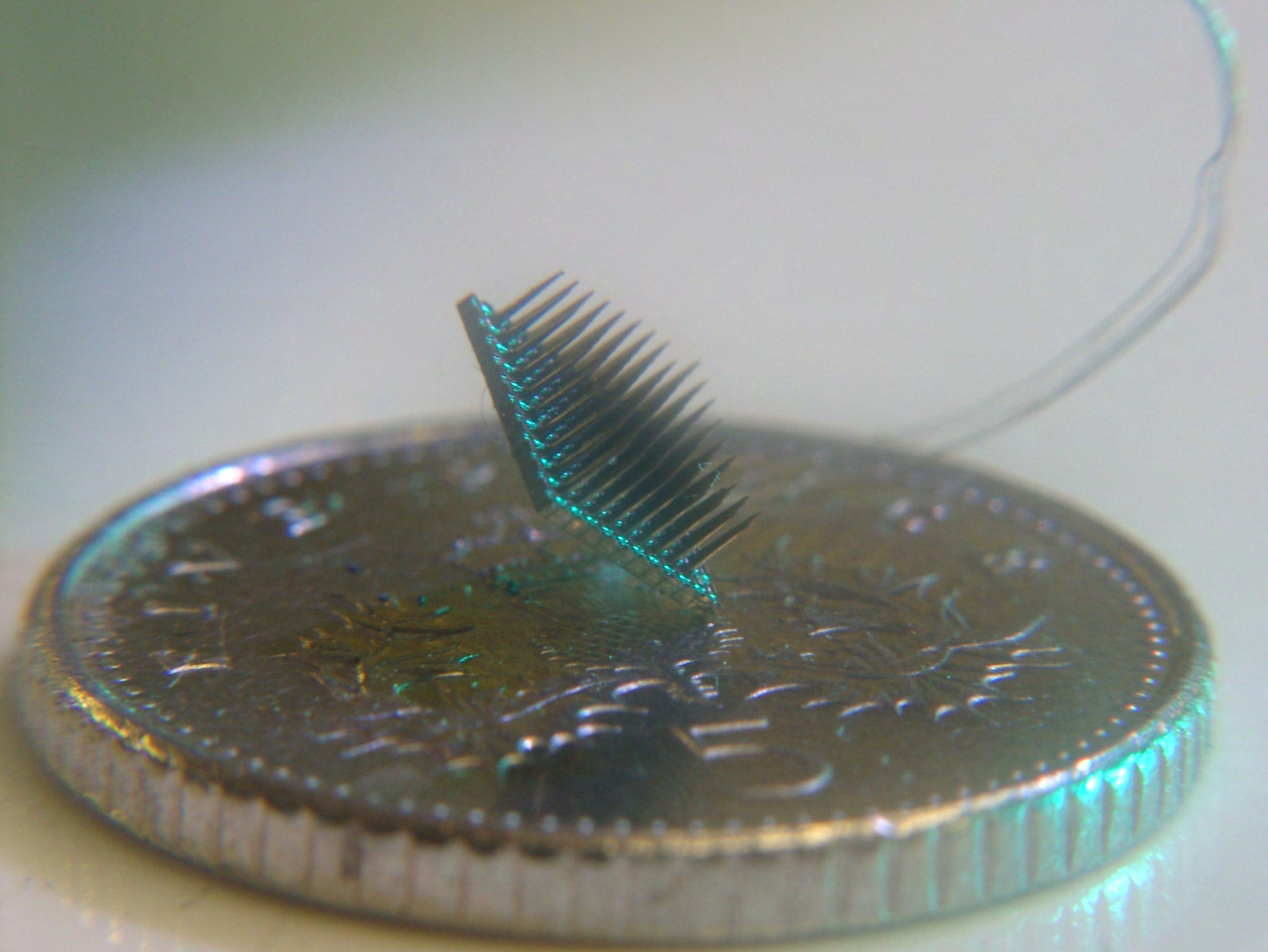
Enhancement

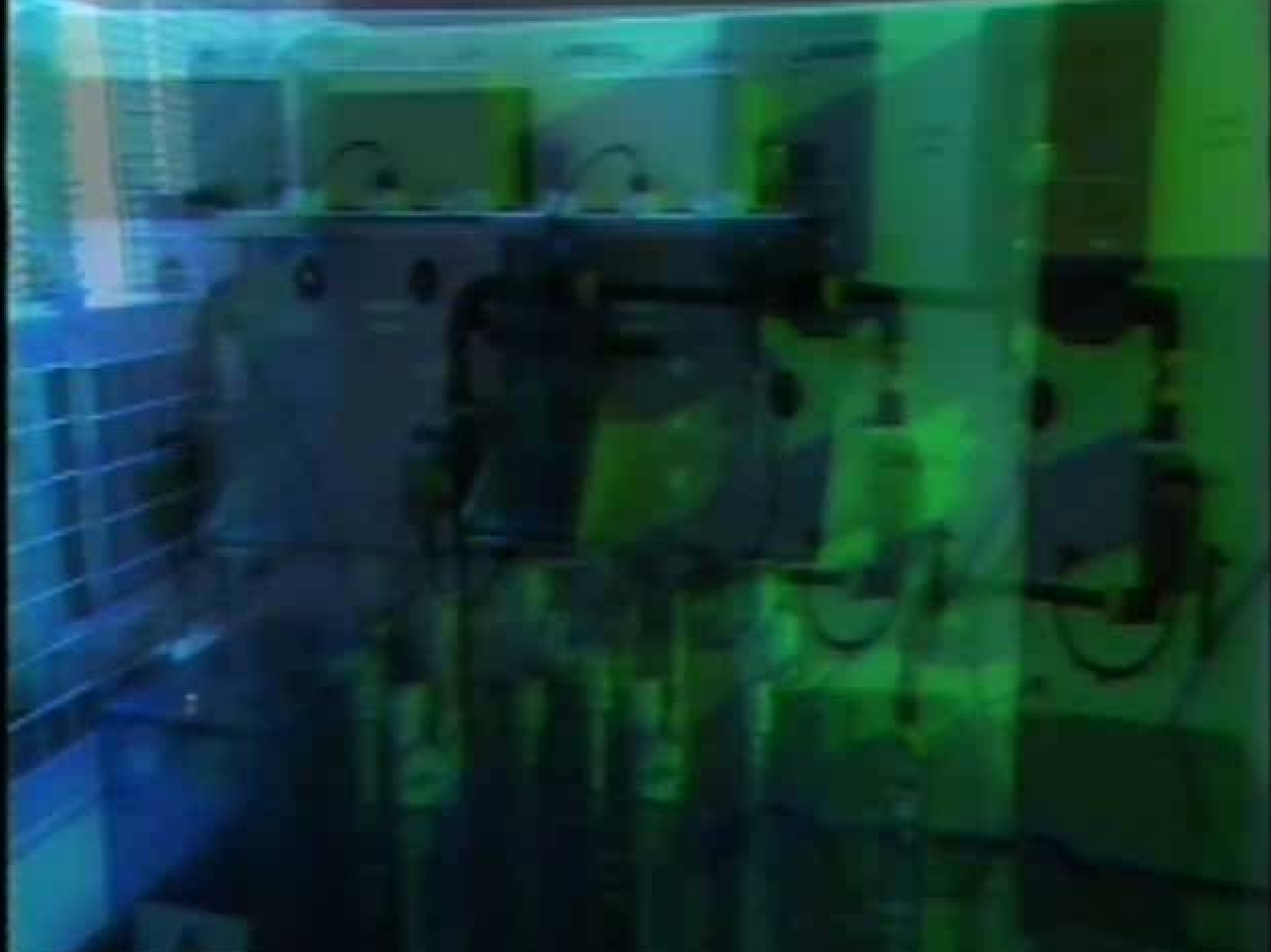
Possibilities

- Memory
- Communication
- Senses
- Multi-dimensional thinking
- Extending the body
- In built machine thinking – Slimplant
- Maths + speed of thinking











WONDER
Stories

Cybernetics

OWING
KIDNAP
AND HUN
UNPRES









www.kevinwarwick.com

Youtube 'rat brain robot' .. 'cyborg'

wikipedia .. Kevin Warwick

k.warwick@coventry.ac.uk