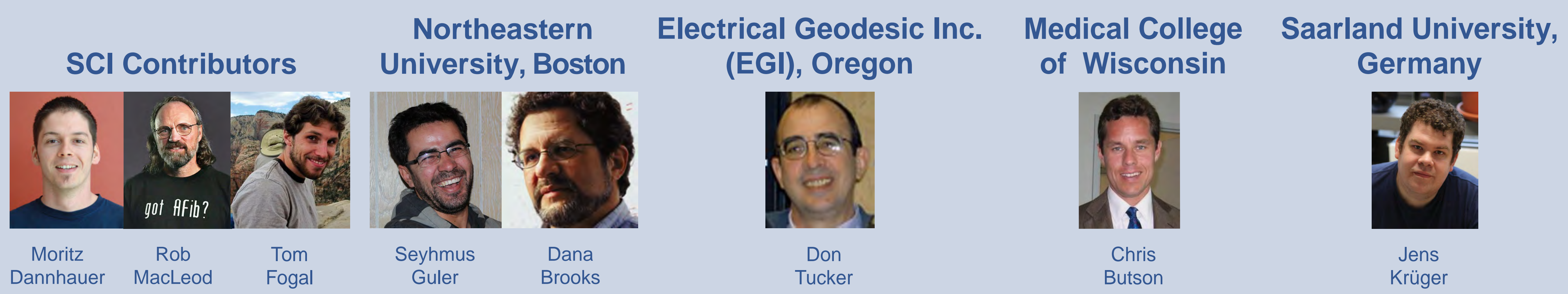


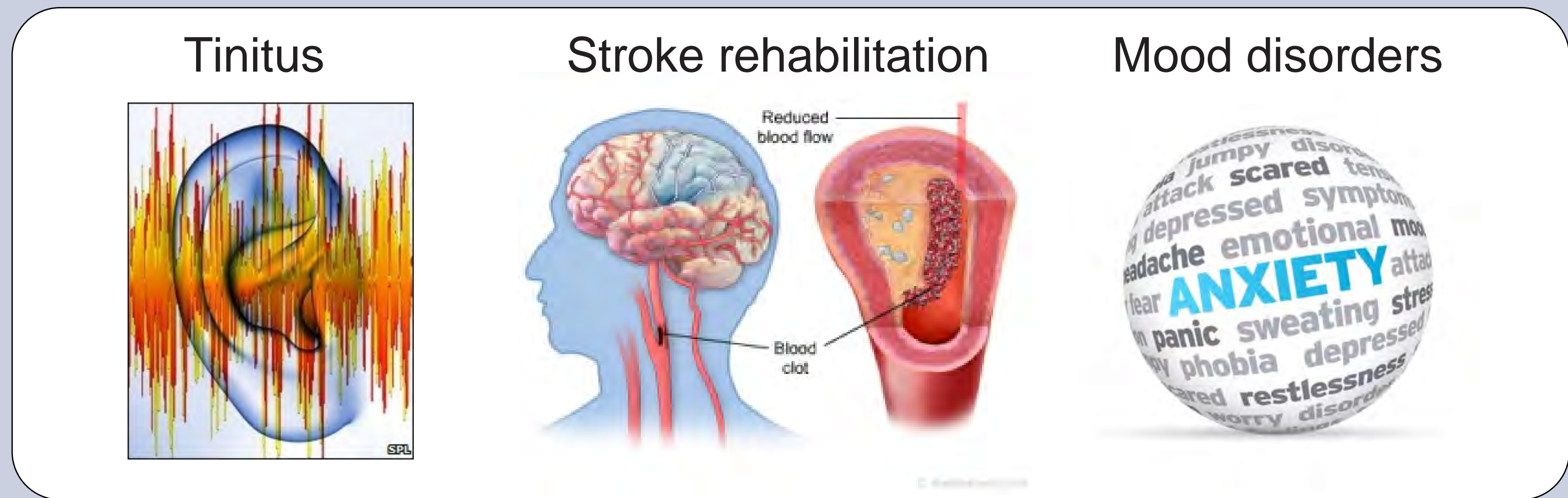
Precise Electrical Stimulation of the Human Brain

Medical Motivation:
Stimulation of the human brain to modulate primary motor function (e.g. Parkinson's disease) and higher cognitive brain function.

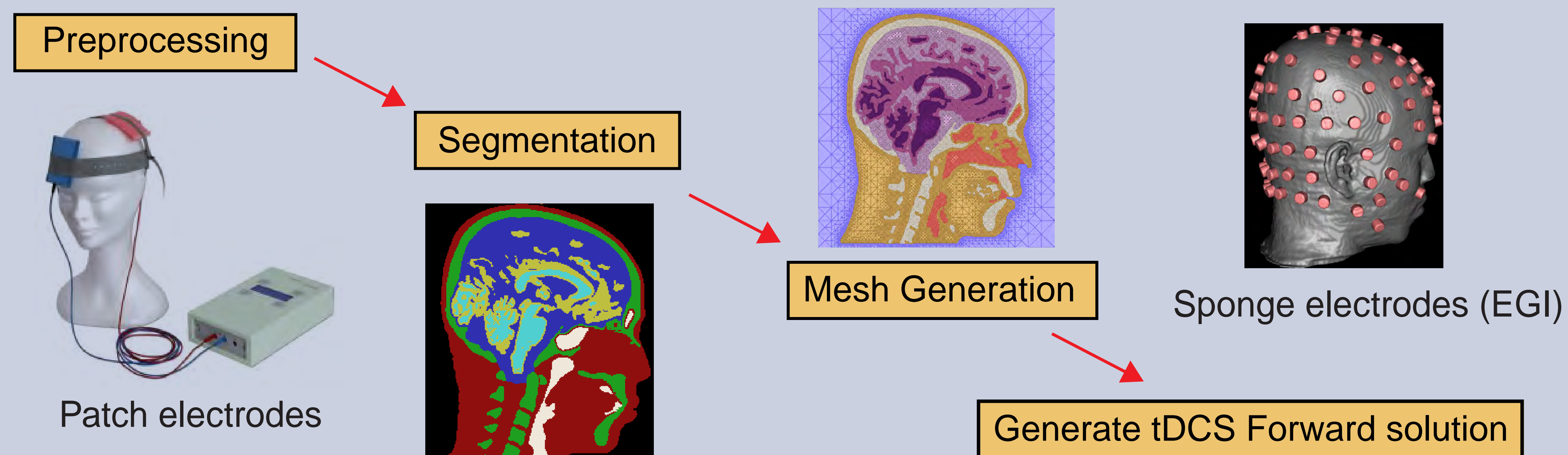


Transcranial Direct Current Stimulation (tDCS)

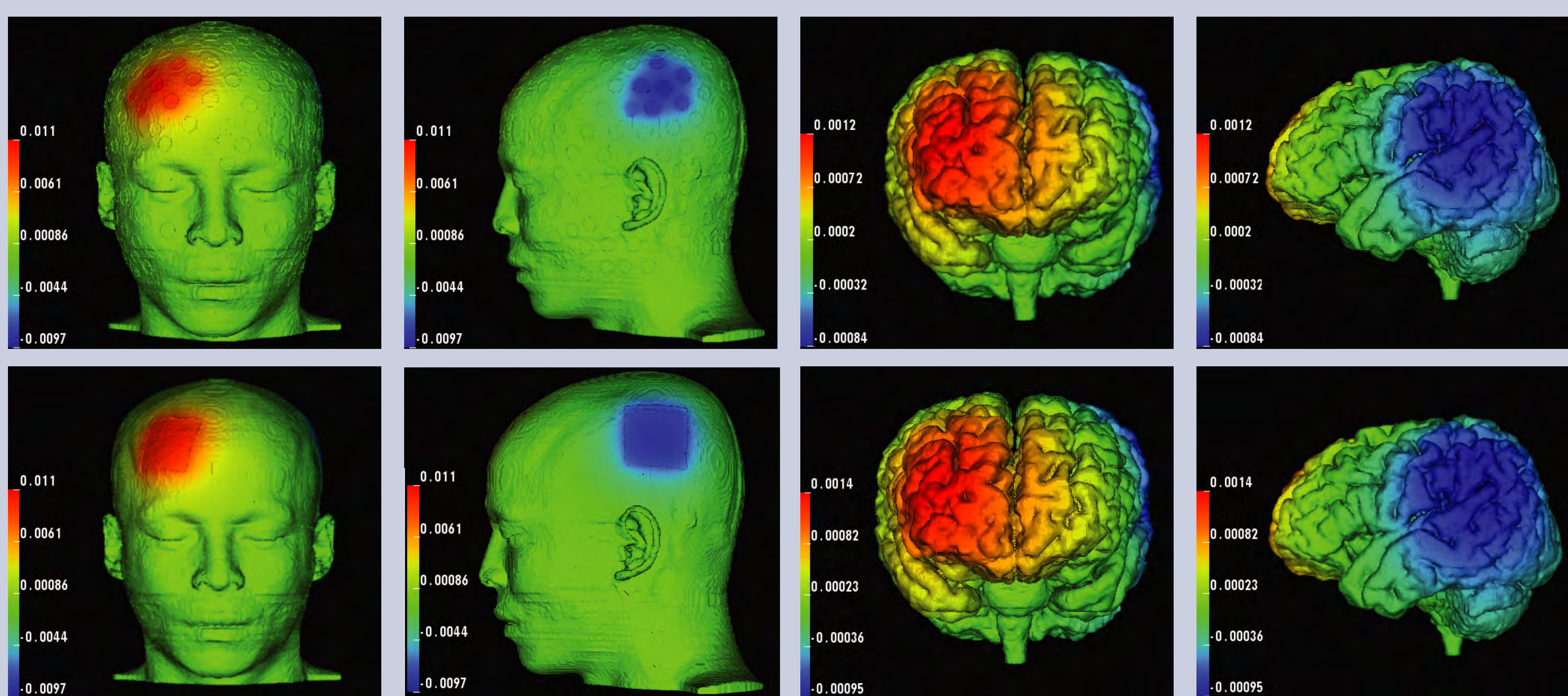
tDCS Applications, e.g.



Project: Optimizing injected current patterns using regular electrode arrays

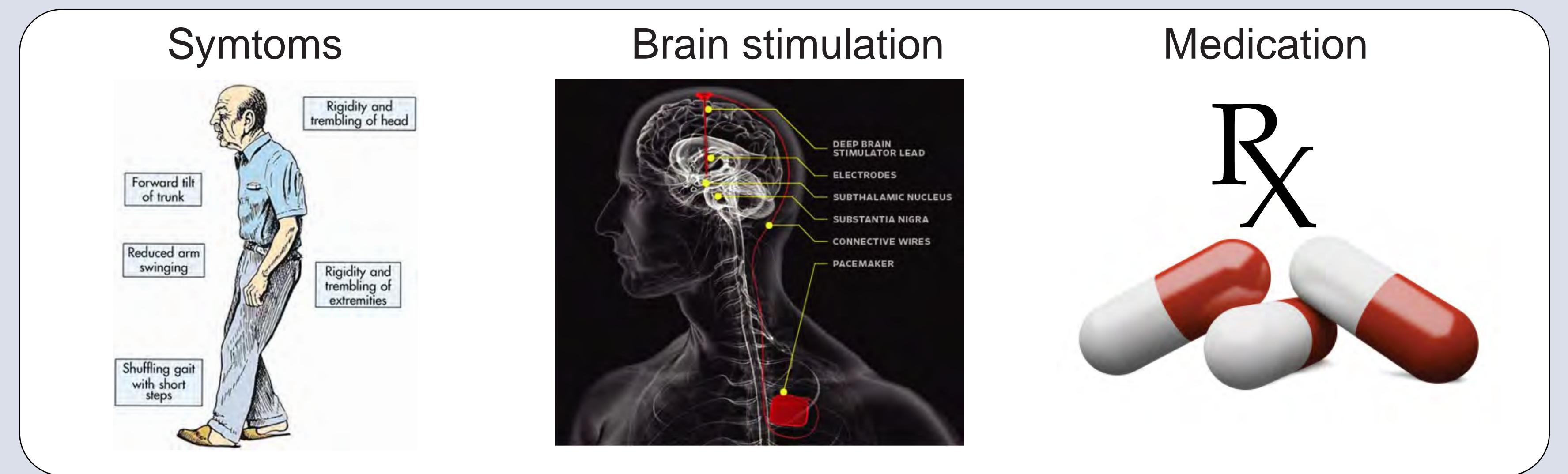


Comparison of EGI and patch electrodes



Potential distribution mapped on anatomical surfaces (V/m*m)

Deep Brain Stimulation (DBS) for Parkinson's Disease



Project: Simulation based programming of DBS device

