

# The Ethics of Memory Implants Expanding the horizon of the human potential

## SCEPS LO Human V.20

The ultimate prize: A non-biological brain Short term:

- We already have implants for various regions of the brain; f.x.:
- "MIT/Harvard: replacing the damaged retina-area with neuromorphics implants
- "Long term: by "treating the circuitry" rather than adding chemicals to suppress neurotransmitters, we can have centers with implants that reverse effects of Parkinson, cerebral palsy, multiple sclerosis

# SCEPS LO Human v.2.0

Cont'd Long term

"Ultimately, we will place sensors in the brain that will be programmed to recognize brain patterns associated with certain activities and then stimulate the appropriate sequence of actions

The result is ...

# Human 120

Cont'd Long term:

- E.g.: they can make paralyzed people walk again
- and if the muscles don't work, we'll use nano-electro-mechanical systems (NEMS) that expand and contract the way muscles operate (designs already underway) based on real or synthetic nerves

# SCEPS CO Human v.2.0

#### - SUMMARY:

- By 2025/2030, Human v. 2.0 will be more nonbiological than biological
- There will be many versions of Human v.2.0
- Technology for various organs and body
- parts will develop at different pace
- according to elimination of constraints

### Humans V. 2.0

- @ Is H v.2.0 something we want?
- o If not, can we avoid it?
- o Who will decide on that?
- Will only the rich have access to H v 2
   or H v. 3?
- @ What will it all do to society?

