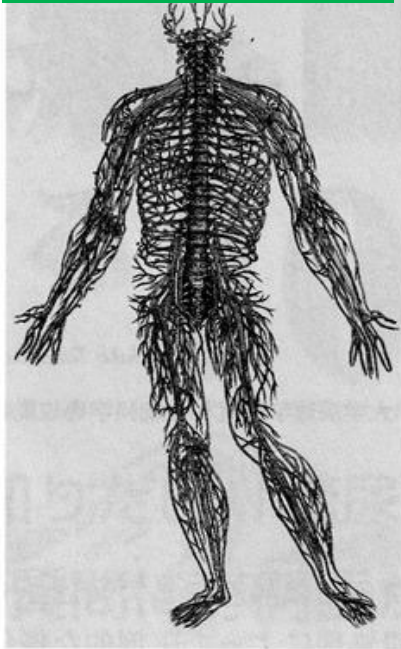


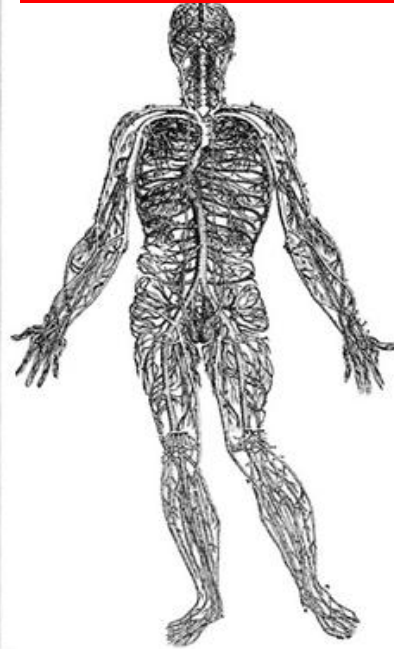
Cyber-Physical Integration of Society and Human Body

- **The Internet became the nervous system of civilization.**
- **The energy system is becoming its vascular system.**
- **MESH aims to achieve societal homeostasis through the coordination of both.**

Nervous network



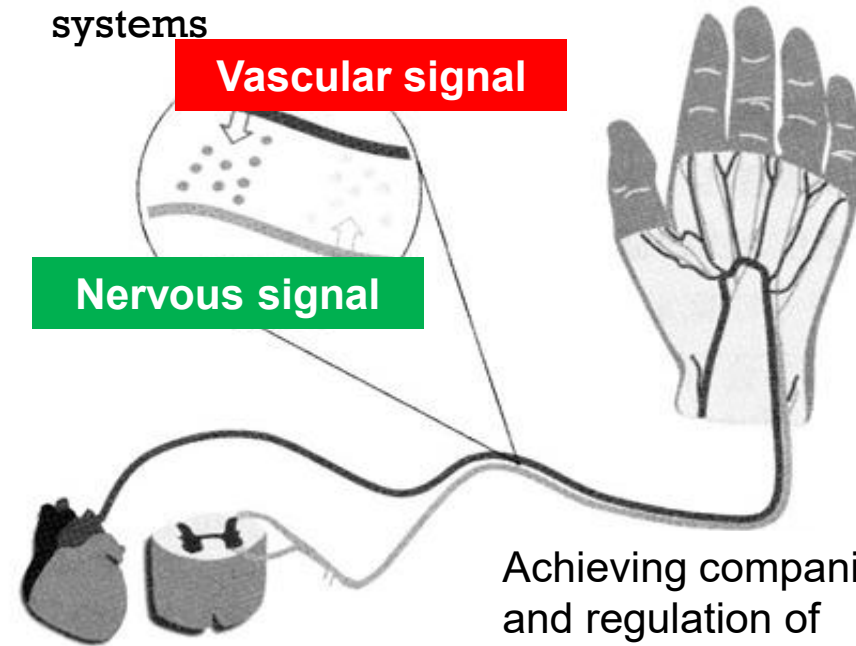
Vascular network



“Neurovascular wiring”
Interdependency between
vascular and nervous
systems

Vascular signal

Nervous signal

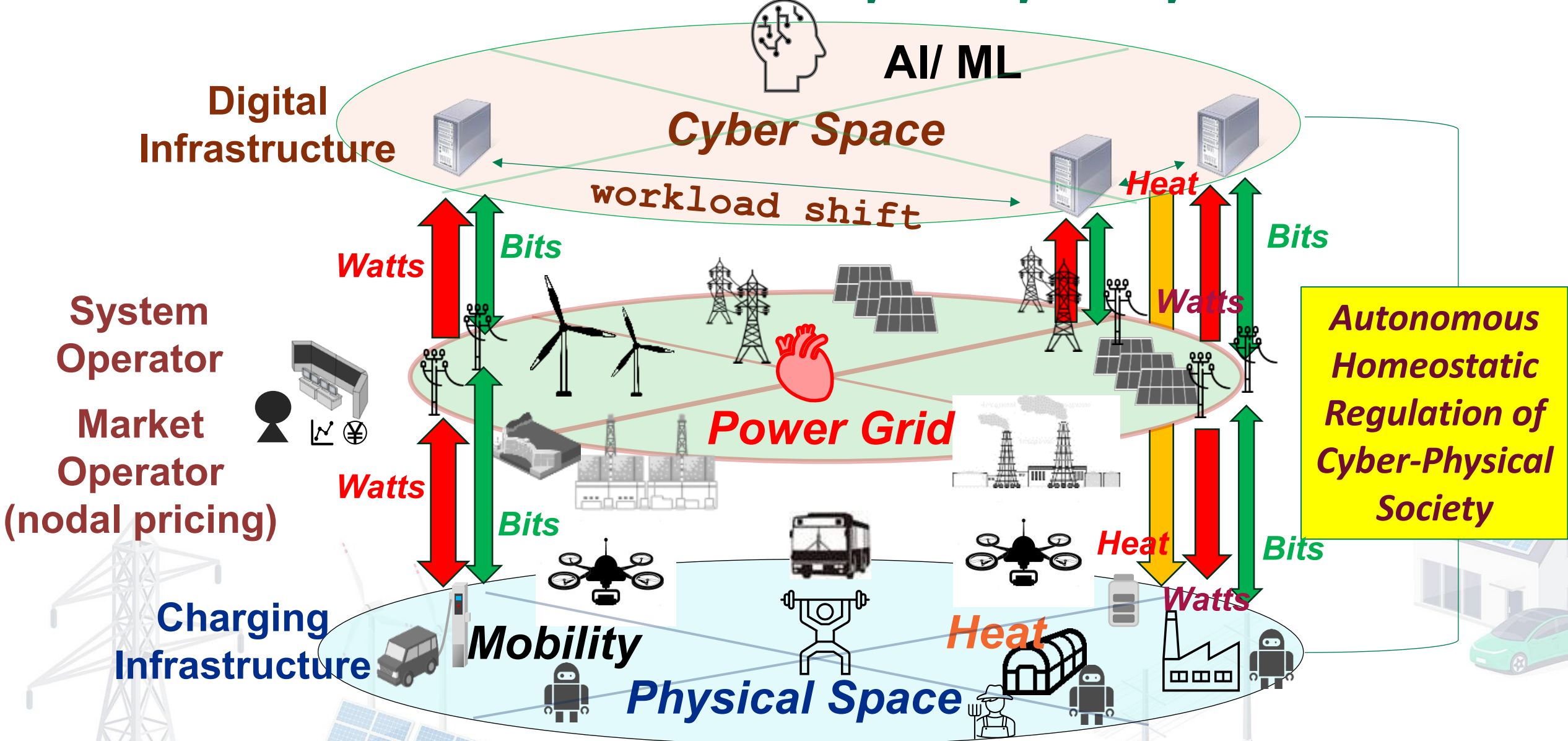


Achieving companionship
and regulation of
Homeostasis

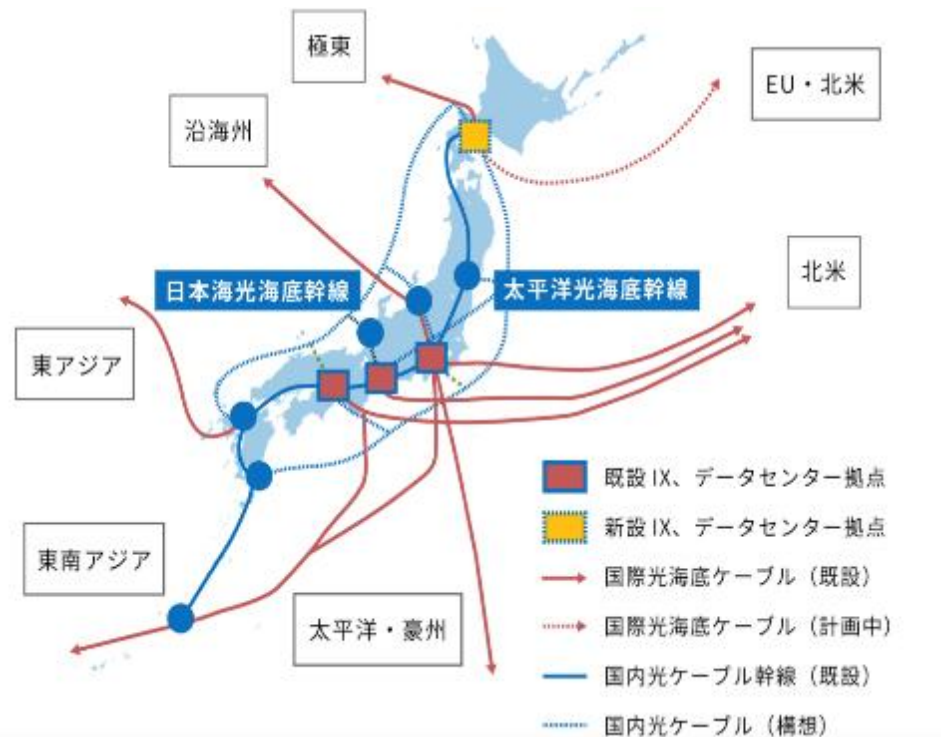
Source: Yoshiko Takahashi, "Regulatory Mechanism of Neuro-Vascular Wiring," Vascular Medicine, Vol. 14, No. 3, September 2013 (in Japanese)

MESH: Homeostatic Regulation in Society

Data-driven Coordination of Autonomous Cyber-Physical Systems



Virtual Power Transmission by Geographical Workload Shifting



Watt Bit Cogeneration (WaBiCo)

- Heat transports heat through self-oscillation.
- A pump-free cooling technology that transfers over 1 MW/m² and recovers semiconductor waste heat as valuable 80°C-grade heat.

