

Co-Emerging Futures

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Philips Experience Design

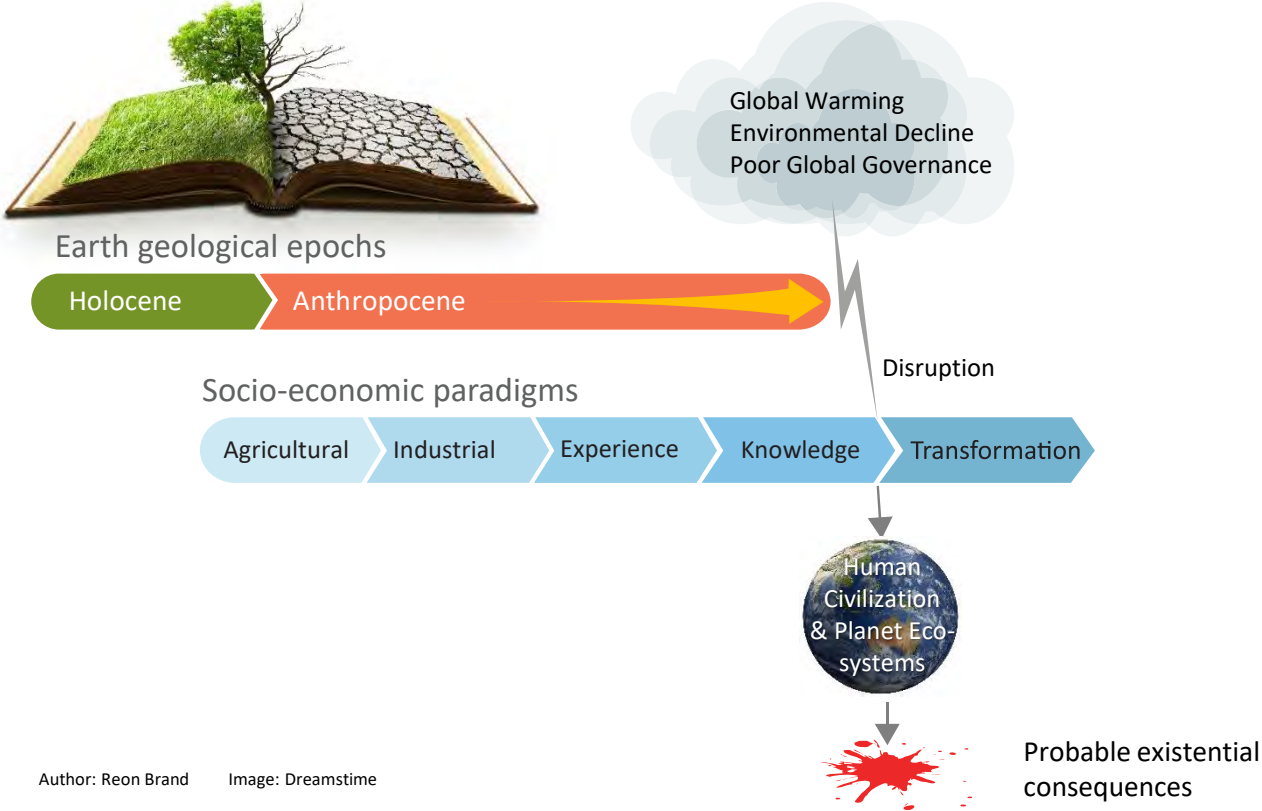
NELL On-line Symposium

27 November 2020

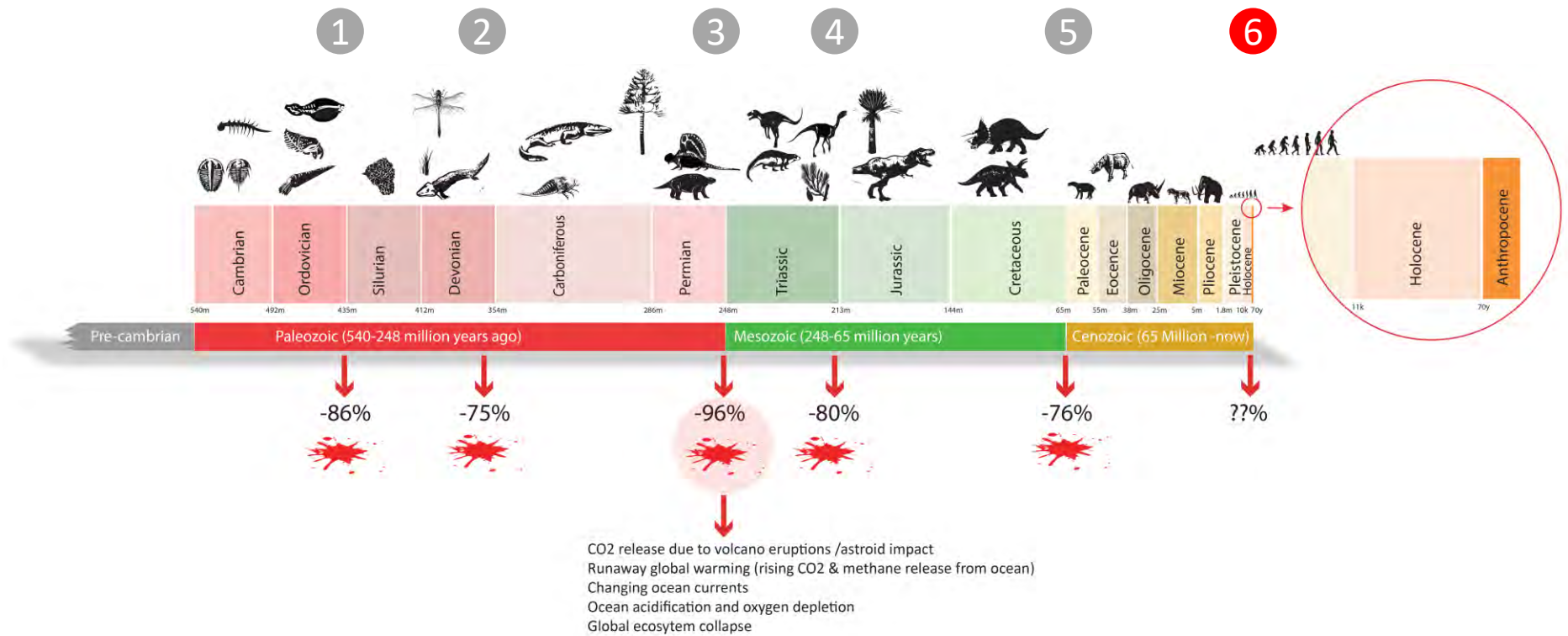


- Reflecting on future change
- Implications for future health
- Digital health innovation

The path of socio-economic progress of humanity



We have entered the 6th major extinction event



Co-Emerging Futures



Guiding philosophies

Pre-modernism

(Western) belief that deities and spirits determine the future and hereafter

Modernism

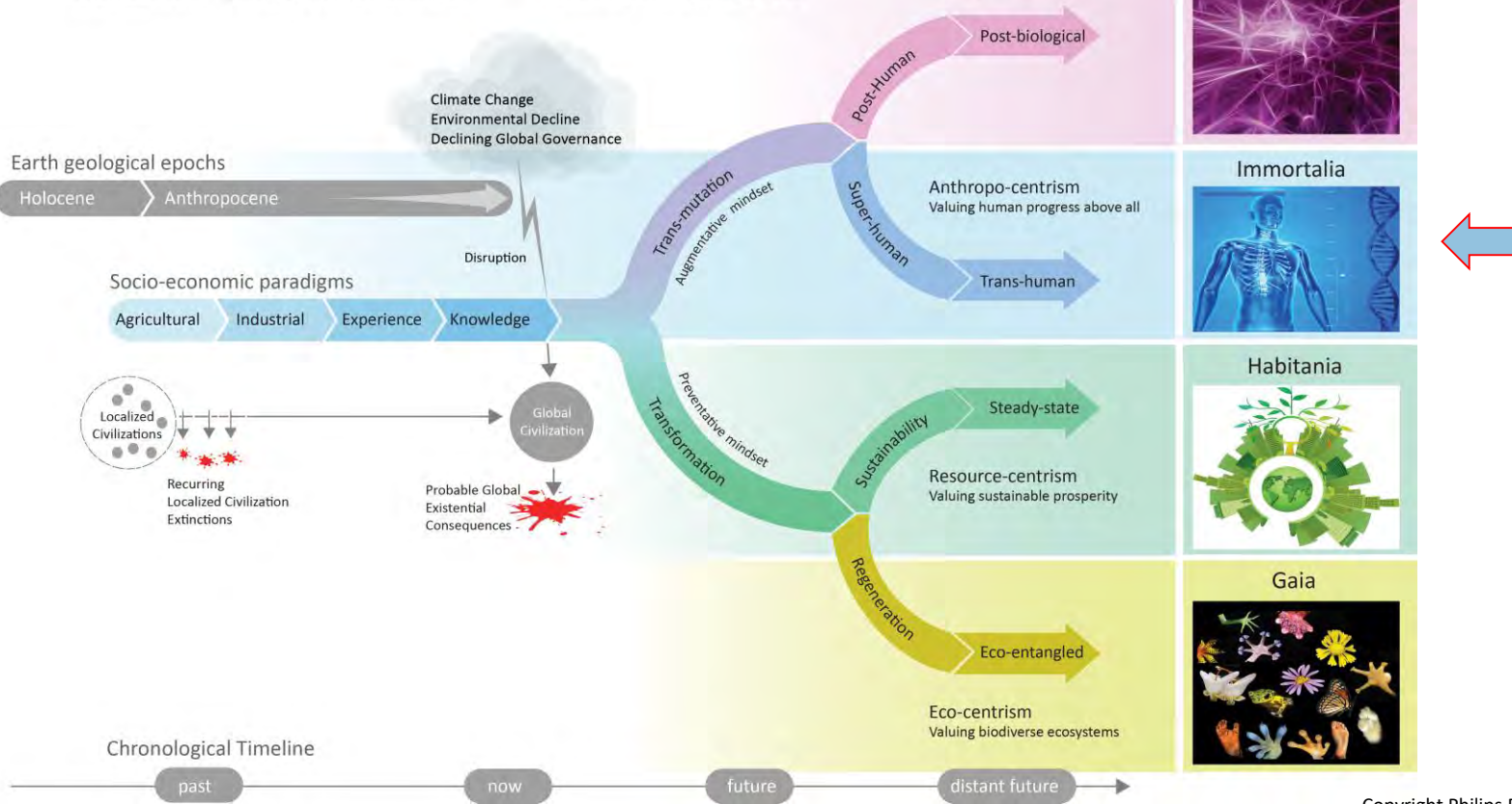
Deterministic utopian visions driven by technological progress

Post-modernism

Relativism and the acceptance of multiple truths - constant try-out and experimentation

Relationalism

Being thoughtful, and increase awareness, knowledge and intuition about the relationships of all phenomena in complex open dynamic systems



Immortalia



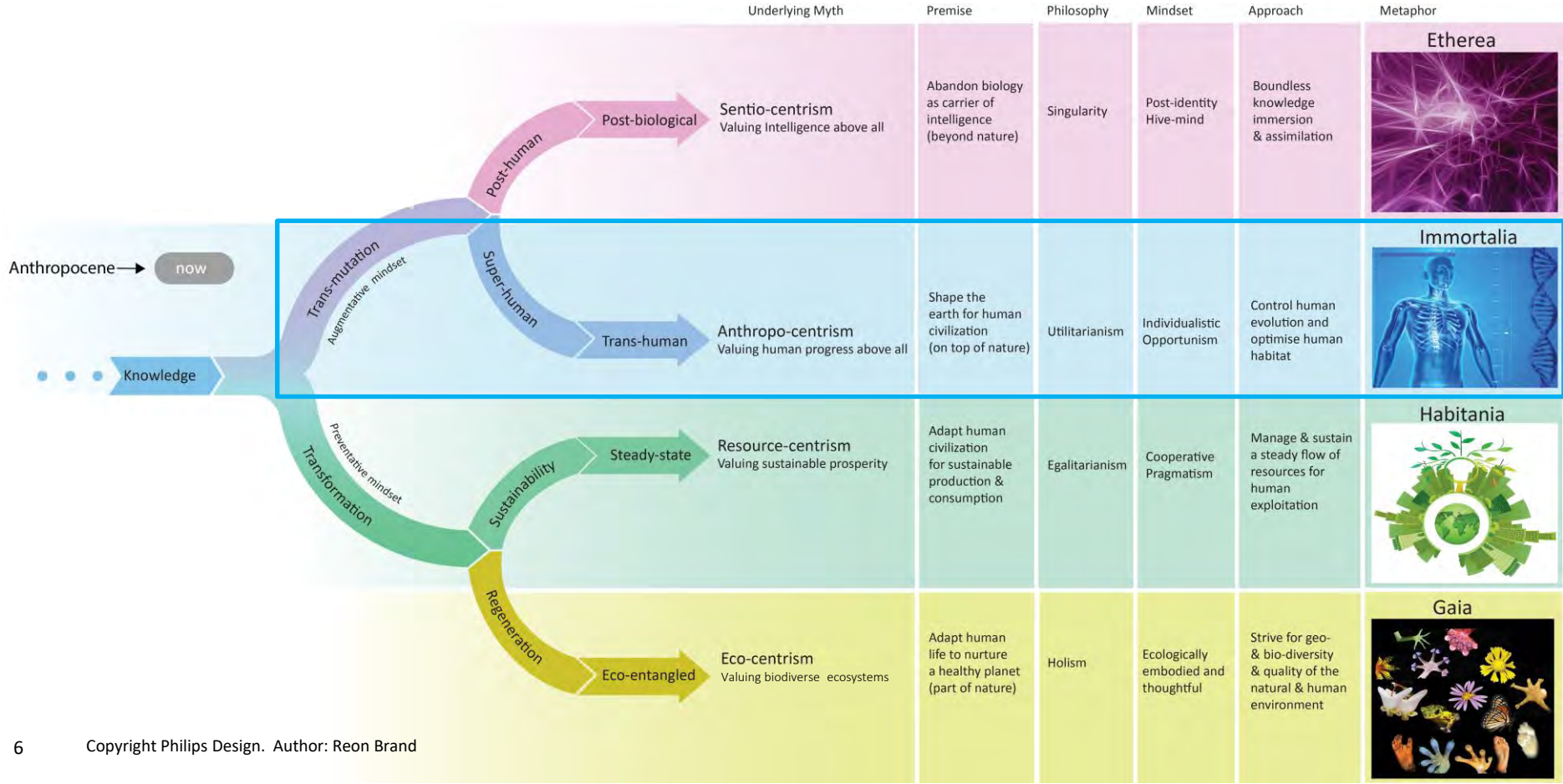
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The quest to transcend *Homo sapiens* through technological progress



Immortalia



Immortalia: the 4th Industrial Revolution

Convergence of

- Nanotechnology
- Biotechnology
- Hyper-connected Internet of things
- Artificial Intelligence & Robotics
- Advanced manufacturing
- Automation of everything

Increasing
reliance on
technology



Towards transhumanism

Cognitive computing



Mind-controlled prosthetics or machines

Biotechnology



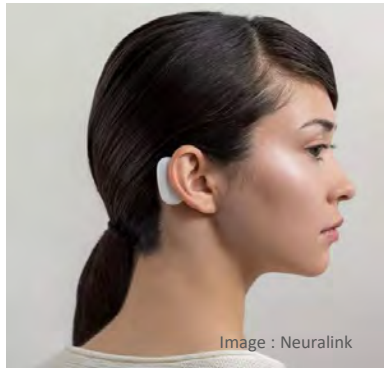
Stem cells and organ bio-printing



Modifying human genes



Digital-to-biological conversion



Hybrid AI/Brains (neuro-economy)

Immortalia – potential digital enablers for health



Health strategy (for the wealthy):
“The body as an ever-improving machine”

Examples:

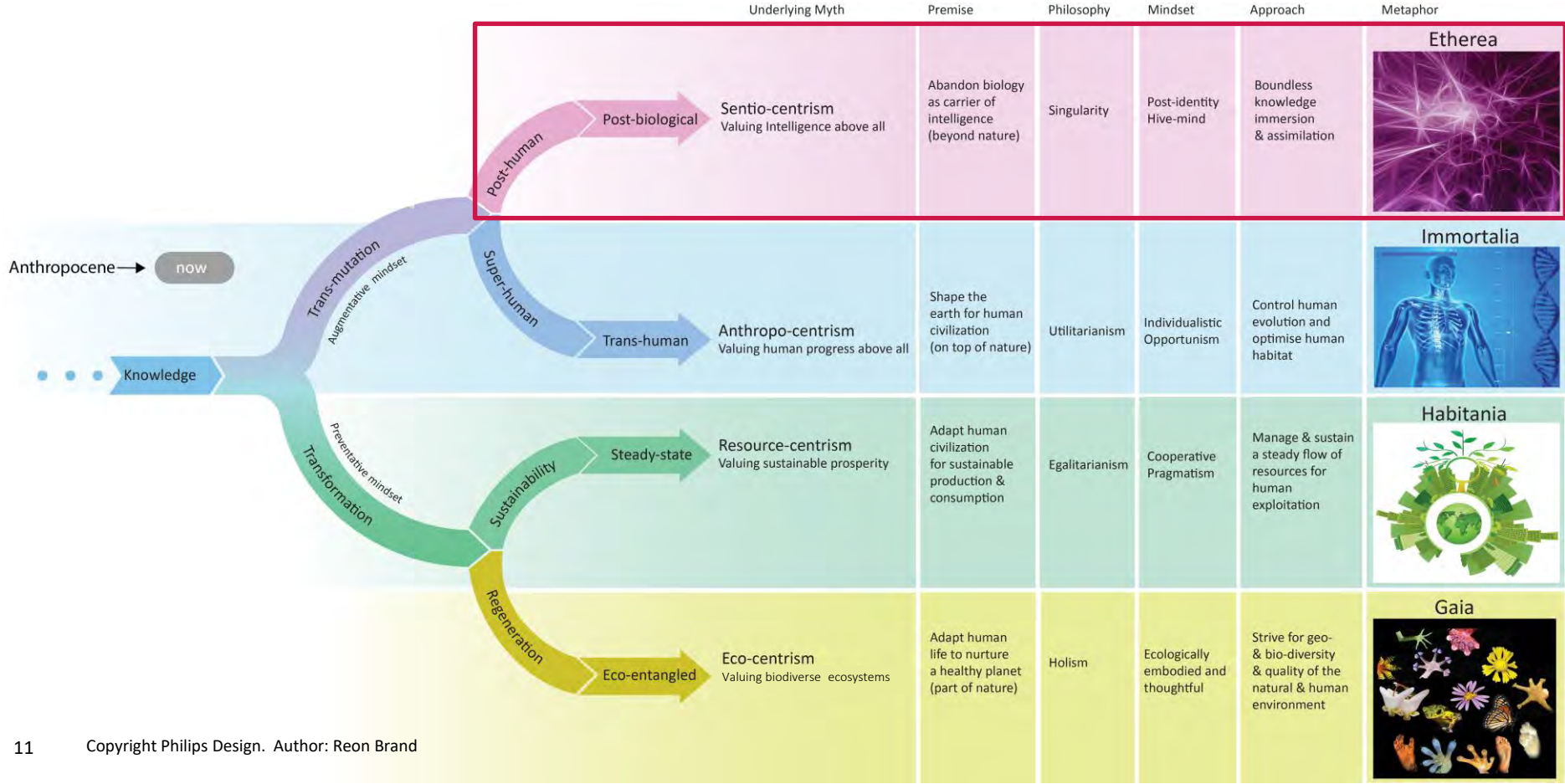
- Personalized health optimization based on **genome and epigenetic analytics**
- AI & biologicals-supported **longevity** enhancement
- **AI-enhanced cognitive function** and mental health (e.g. Neuralink subscription)

Etherea

The background of the slide is a complex, abstract pattern of thin, glowing lines in shades of purple, magenta, and pink. These lines crisscross and overlap, creating a sense of depth and movement, reminiscent of a neural network or a digital data stream. The overall effect is ethereal and futuristic.

Towards boundless
intelligence and post-
biological immortality

Etherea



Enablers of Etherea

Artificial General Intelligence



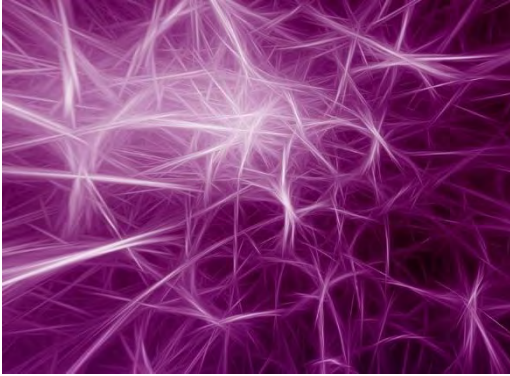
AGI will develop and **learn unsupervised and set own goals (10 years away)**

Substrate-Independent Mind



- The EU Human Brain Project
- The Brain Initiative (US)

Etherea – potential digital enablers for health



Health priority:

“I think therefore I am” (Digitizing the mind)

Examples:

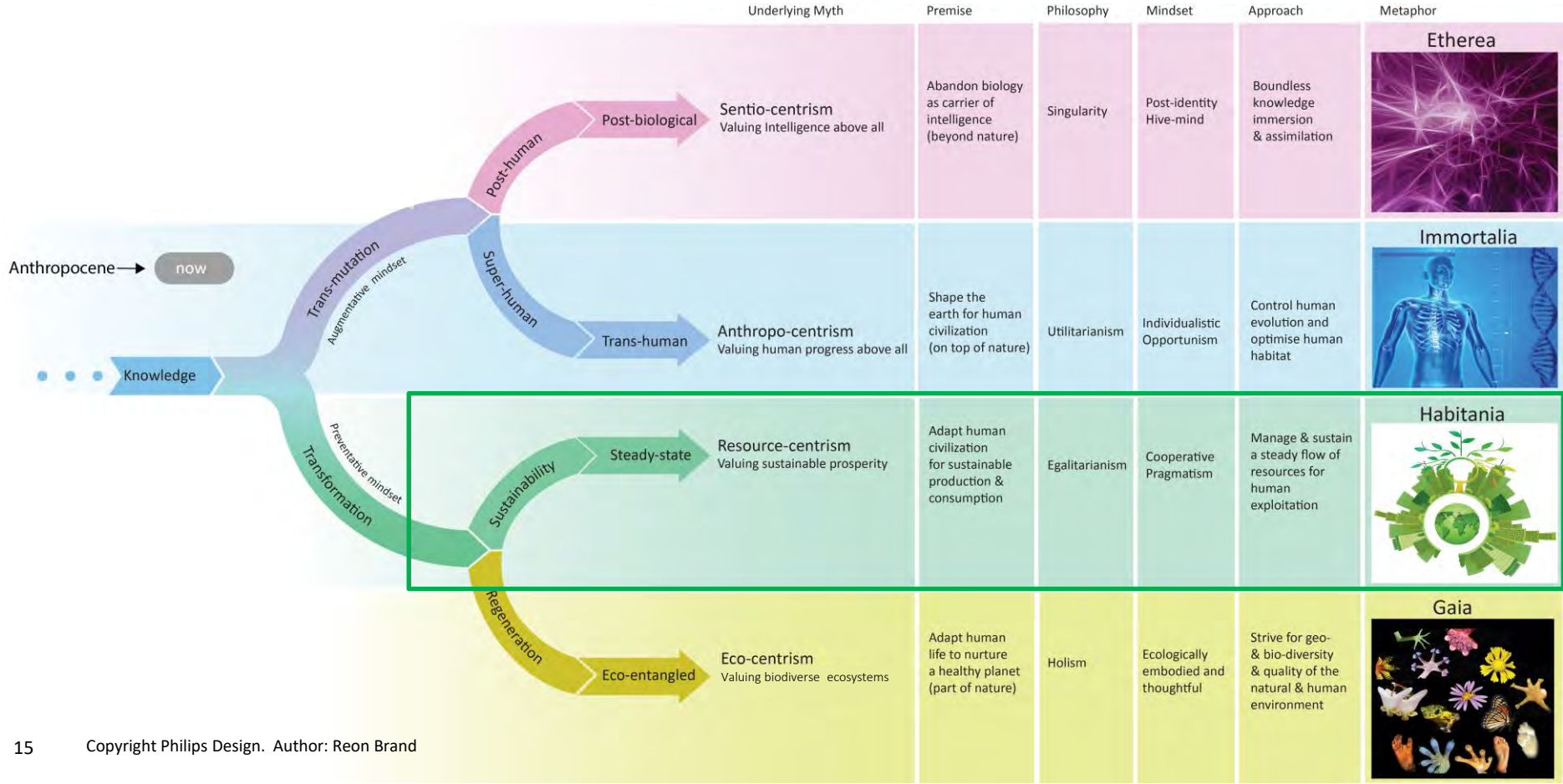
- AI-enabled mental health monitoring and **corrective neural intervention**
- **Mind-uploading** to substrate-independent digital mind platforms
- Crack the holy grail of **digital consciousness** / spiritual machines

Habitania



Ensure sustainable human habitation “within the boundaries of the planet”

Habitania



Habitania – steady-state sustainability

Issues with Sustainability:

- Sustainable Development
- Staying within 'boundaries of the planet'

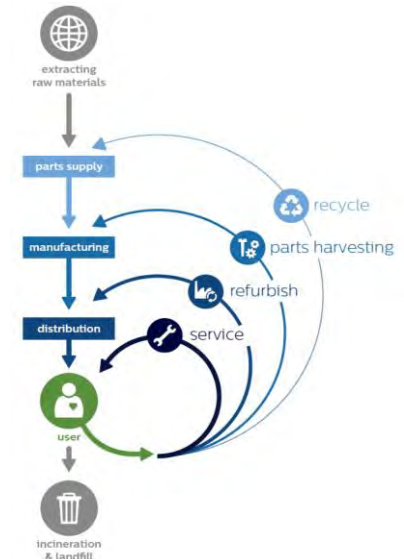
Key initiatives in “Habitania”

UN SDGs



Is “Sustainable Development” an oxymoron?

Circular economy



Is it sufficient?

Habitania – potential digital enablers for health



Key health goal:

“Sustainable access to healthcare care for all”

Examples:

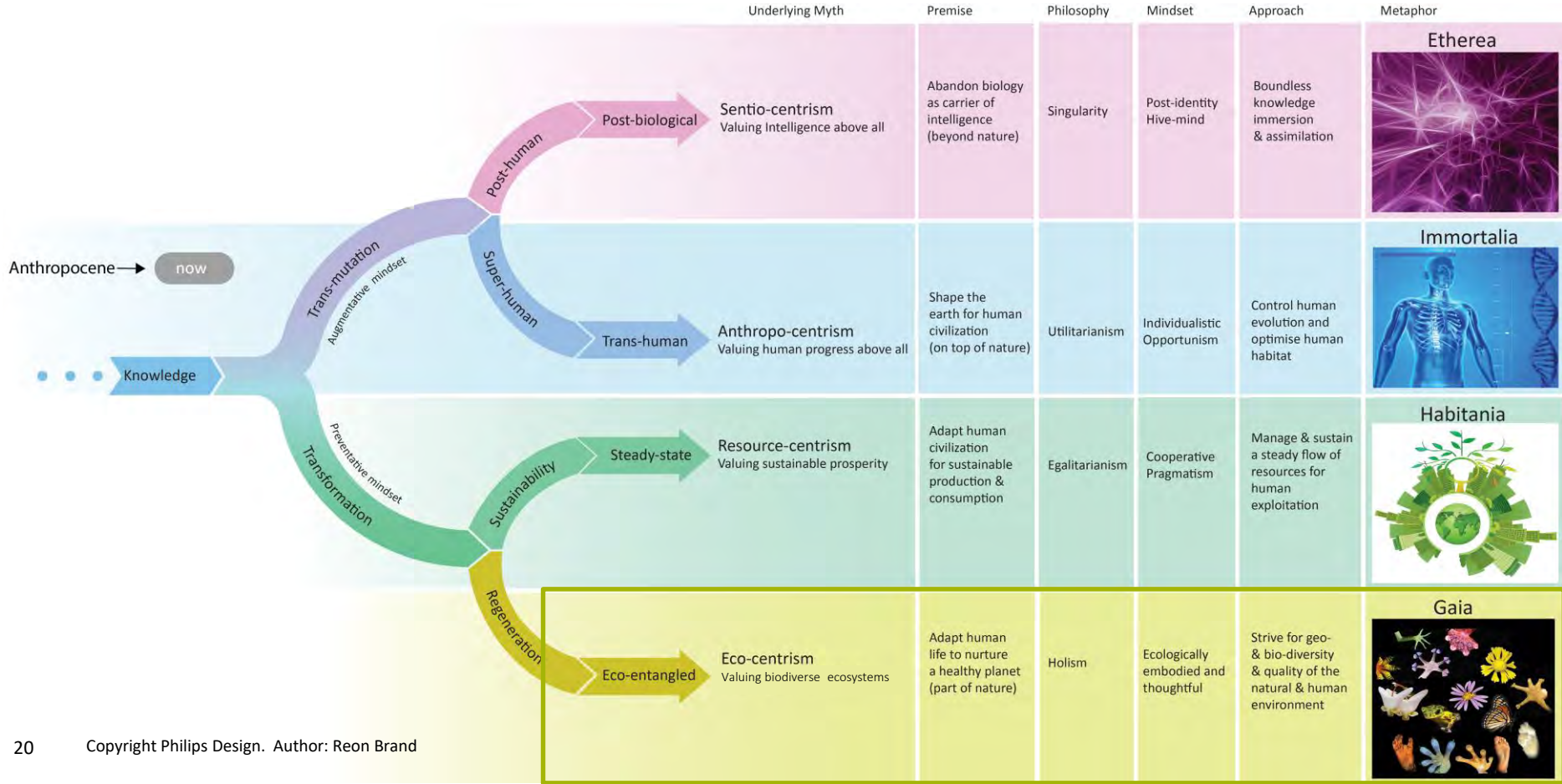
- **AI-supported population health modelling** for health policy development
- **Telemedicine & eHealth** to **improve access to healthcare** and **reduce cost of care**
- Wearables and continuous personal and public monitoring, **self-diagnosis & -treatment**

Gaia



Live as an integral part of
nature and regenerate
biodiverse ecosystems

Gaia



Gaia theory

Ego



Eco

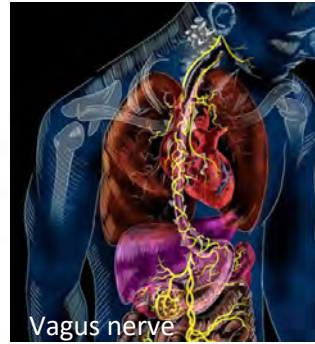
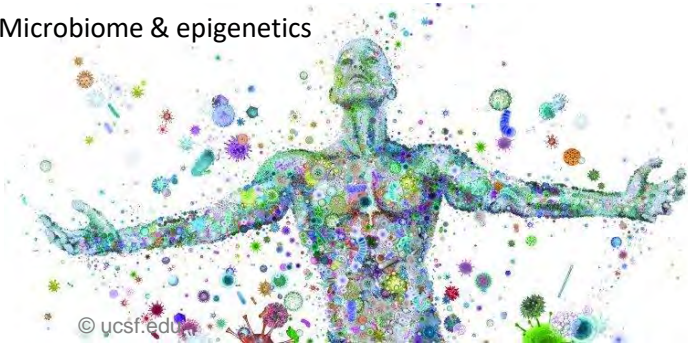


Entangled



Gaia: eco-entanglement and health resilience

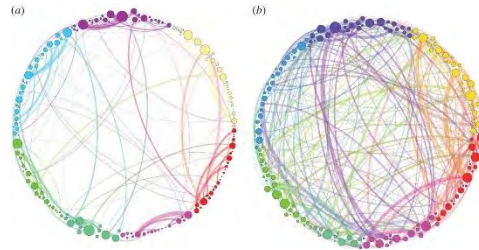
Microbiome & epigenetics



Schumann waves & biological clock



Psychobiological health and meaning



Brain plasticity - connections maps
placebo vs psilocybin



Gaia: eco-entangled planet

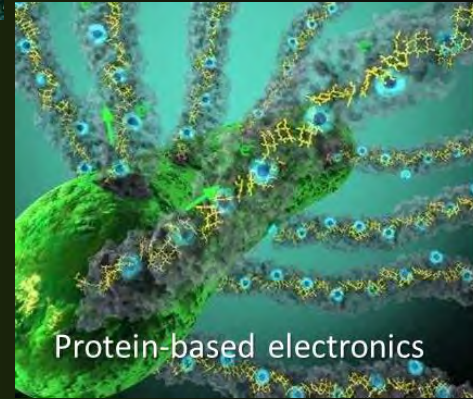
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For nature (earth democracy)



Shift to materials that can seamlessly integrate with nature

+ Transition human civilization towards eco-entangled living



Gaia – potential digital enablers for health



Core health strategy:

“Human health resilience through entanglement with healthy ecosystems”

Examples:

- **AI as “mentor”** to help people to collectively **rediscover, regenerate & connect with** local ecosystems
- digital platform for **local, seasonal and regenerative food sourcing/sharing**
- Tech/creator/user platform for eco-integrated, **non-toxic living/working/public spaces**

