

TRANSFORMATIVE TECHNOLOGIES FOR PLANETARY HEALTH IN 2040

STEEP Forces, Technologies and Insights

TECHNOLOGIES

- Ai** Ambient intelligence sensors
- Ap** Artificial photosynthesis
- As** Agrophotovoltaic system
- Cd** Carbon dioxide removal
- Dd** DNA/RNA discovery
- De** Data-driven epidemiology
- Dr** Drones
- Dt** Digital twin/Modelling
- Er** Energy recovery
- Es** Energy storage systems
- Ge** Genetic engineering
- Hr** Habitat restoration
- Iw** Implantable/Wearable devices
- Mm** Metamaterials
- Ns** Nature-based solutions
- Nv** Next-generation vaccines
- Pm** Plastic metabolisation
- Sf** Synthetic food
- Vf** Vertical farming
- Wc** Walkable city

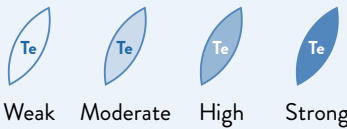
INSIGHTS

-  The materiality of digital health
-  From WEARables to AWAREables
-  Urban equiA(c)tion: health as infrastructure
-  Plan(et) for health
-  Health commons
-  From ego-systems to eco-systems

HOW TO READ IT

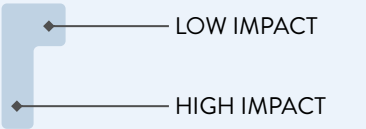
Technologies

Fill style: Insight correlation strength



STEEP Forces

Size: Expected impact



STEEP FORCES

Social

- Ageing
- Non-communicable diseases
- Mental health
- Lifestyles
- Deepening disparities
- Demographic changes
- Beyond gender
- Migrations
- Work from everywhere
- Do it yourself

Technological

- Med(AI)cine
- Autonomous systems
- Hyper-connected
- Human enhancement
- Extended reality
- Robotics
- Digital twin
- Cryonics
- Genetic control
- Avatars

Environmental

- Pandemics
- Antimicrobial resistance
- Global climate changes
- Extreme events
- Environmental degradation
- Permafrost melting
- Pollution
- Food waste
- Circular economy
- Biodiversity loss

Economic

- Privatisation
- E-commerce
- Cost of living increase
- More prevention, less cure
- Insurance market players
- (Un)predictable instability
- New spaces, new relations
- Tech giants' pervasiveness
- Data exploitation
- Lack of skilled workers

Political

- Security
- Collapse of democracy
- Welfare
- (Trans)national identities
- Information and connection
- Geopolitical competition
- Nuclear paths
- Global commons
- The rise of ethical questions
- States like silos