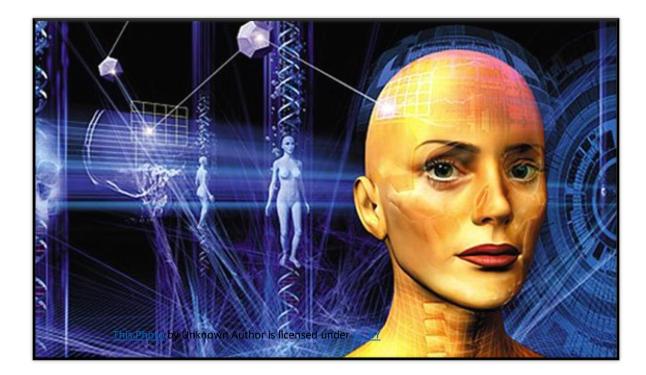
Society 5.0: Advanced Technologies in the Existential Era





Nicholas C. Zingale, PhD EDT, Rijeka June 24, 2022

Last Year Meet the future mayor of Rijeka





Brookings – "Advanced Tech is NOT a futuristic Vision"

- Transportation Autonomous Vehicles
- Finance High Frequency Trading on Exchanges and Robo-advisers
- National Security data and video surveillance and troving, facial recognition, cyber networks, etc.
- Health Care deep learning medical diagnostic systems
- Criminal Justice future perpetrator rankings and profiling based on behaviors, age, arrest records, etc.
- Cities improving services, planning, resource and energy management, smart city hall



Japan's 5.0

- Japan's Basic Science and Technology Plan (2020)
- Focuses on a data-driven, knowledge led, non-monetary society
- Written by a multi-disciplinary group

Title	Industrie 4.0 (Germany)	Society 5.0 (Japan)
Design	 High-Tech Strategy 2020 Action Plan for Germany (BMBF, 2011) Recommendations for implementing the strategic initiative INDUSTRIE 4.0 (Industrie 4.0 Working Group, 2013) 	 •5th Science and Technology Basic Plan (released 2016) •Comprehensive Strategy on Science, Technology and Innovation for 2017 (released 2017)
Objectives, scope	Smart factoriesFocuses on manufacturing	 Super-smart society Society as a whole
Key phrases	 Cyber-physical systems (CPS) Internet of Things (IoT) Mass customization 	 High-level convergence of cyberspace and physical space Balancing economic development with resolution of social issues Human-centered society



Karl Marx (Material Life) Four Stages

- Primitive Communism
- Agrarian Slaves
- Feudalism
- Capitalism



August Comte (Mental Life) Thought in terms Three Stages of Causation and Understanding Theological

• Metaphysical

• Positive

• Gods

- Abstract speculations:
 - Natural rights, social contracts, self-evident truths
- Observations and empirically determined society

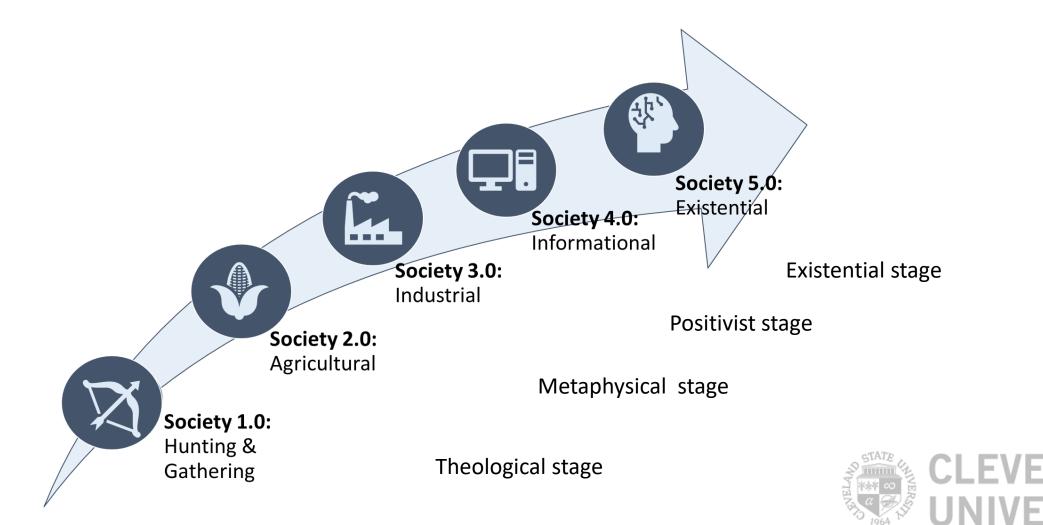


Gerhard Lenski (1924-2015)

- Defined Society in terms of their technological sophistication
- Each advance of technology the relationship between and humans and nature is altered.
 - Rudimentary societies fluctuate with their environment
 - Advanced societies have more control over their environment
- Encompasses all aspects of social life
 - Mental (Comte)
 - Material (Marx)



Society 5.0: Existential Embodied Tech and the Sylicarbon Future



Existential

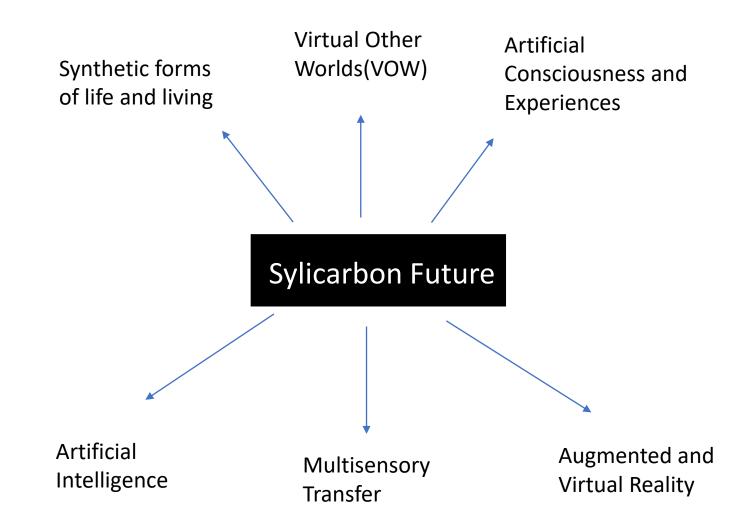
- Mental What does it mean to exist, How do I exist, where do I exist, who am I.
- Material post capitalism
 - State capitalism or stratified capitalism combined with...
 - The Sharing Economy



Case Study: the transfer of touch over distance via neuroreality[™]









Society 5.0's "Sylicarbon Future" : the potential

em Suicide and Sexual Assault, the **NASA 'Holoported' a Doctor Onto** Ained at getting airmen to intervene will succeed wi the International Space Station

We're living in a Star Trek episode, basically.

Monisha Ravisetti April 17 2022 12:27 p.m. PT

Force Dons Headsets

traditional training have failed.

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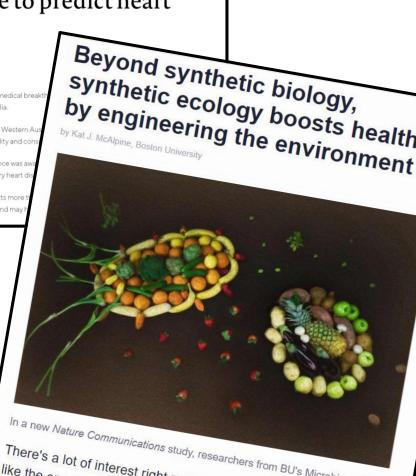
Artificial intelligence to predict heart

disease

31 MAY 2021 | 2 MIN

ody could spell a medical breal cause of death in Australia







What will Society 5.0 Mean

- Unfathomed medical breakthroughs
- Unfathomed experiential opportunities
- Redefined Educational Systems Knowledge Expansion and a hyper-informed Society (AI assistants)
- Redefined Social Structures and Human Connections
- Redefined Work and Economy
- Others??



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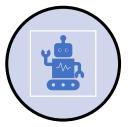
It Could Also Mean

- Post-Modern confusions with reality
- Governmental Misalignment Marginalization
- Strained Democracies
- Societal and Community Confusion
 - Connections, Crime, Capital
- Human-Machine Conflation
- New Physics
- Mental Disorders
- Increased Inequities
- Others ???

Society 5.0's Big Questions



How are these technologies shaping and reshaping our human experience?



How are technologies influencing the ways we interact?





What do we want technologies to do for us/humanity?



What do we want the future of life to look and feel like?





Society 5.0 Situated at CSU



Graduate Certificate and Website

- Society 5.0 Graduate Certificate
 - 4 courses
 - Fall 2022: Transdisciplinary Perspectives or Logic of Inquiry
- urban.csuohio.edu/society5.0

Maxine Goodman Levin College of Urban Affairs > SOCIETY 5.0

Academic Programs Levin Calendar Professional Development Publications Research Centers Site Map: A-Z Index Society 5.0

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Mailing Address

Cleveland State University 2121 Euclid Avenue, UR349 Cleveland, OH 44115

Campus Location Urban Building, Room 349 1717 Euclid Avenue Cleveland, OH 44115 Phone: 216.802.3389

Society 5.0 SOCIETY 5.0



What is Society 5.0?

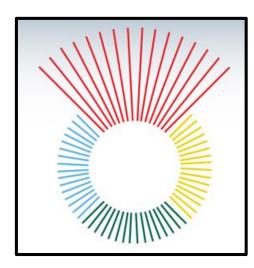
Society is rapidly approaching a fifth stage of development that includes emerging disruptive technologies, such as artificial intelligence, multi-sensory transfer, augmented and virtual realities, advanced robotics, and synthetic forms of life. As in the previous four stages of societal development, (1) hunter-gathering; (2) agrarian; (3) industrial, and (4) informational, the role of technology has shaped everyday

Transdisciplinary City Halls and Governing the Future

Abigail Poeske PhD Student Cleveland State University Levin College of Urban Affairs **EDT June**, 2022 **University of Rijeka** EVELAND STATE

Transdisciplinarity

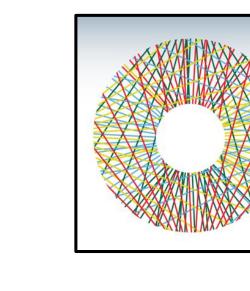
Monodisciplinary

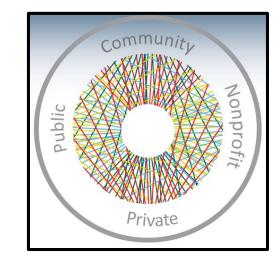




Interdisciplinary

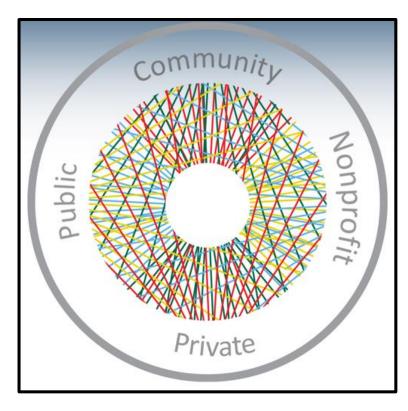
Transdisciplinary







Transdisciplinary City Halls: Collaborative Governance



Violence Prevention in Cleveland

<u>Across City Hall</u>: Public Safety, Education, Youth & Families, Parks & Recreation, Economic Development, Innovation & Technology, Communications

<u>Beyond City Hall</u>: universities, nonprofits, philanthropic foundations, faith community (churches), grassroots orgs, community leaders and members



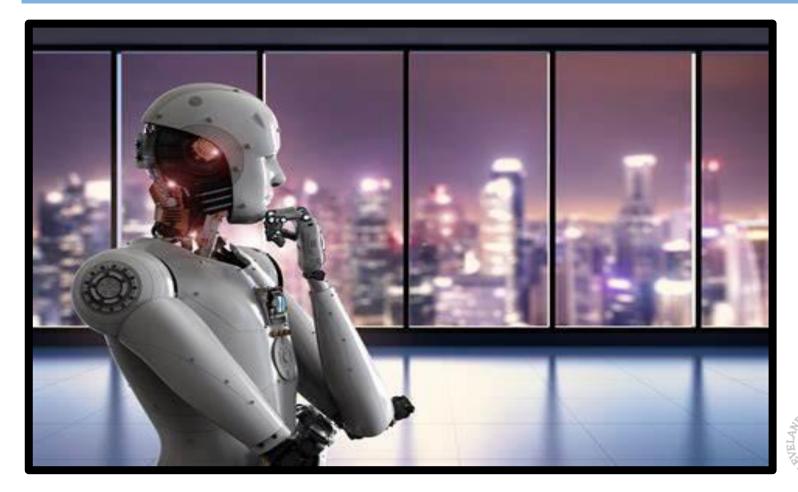
ELAND

Default Approach in Government?





Solving the Wicked Problems of Today and Tomorrow



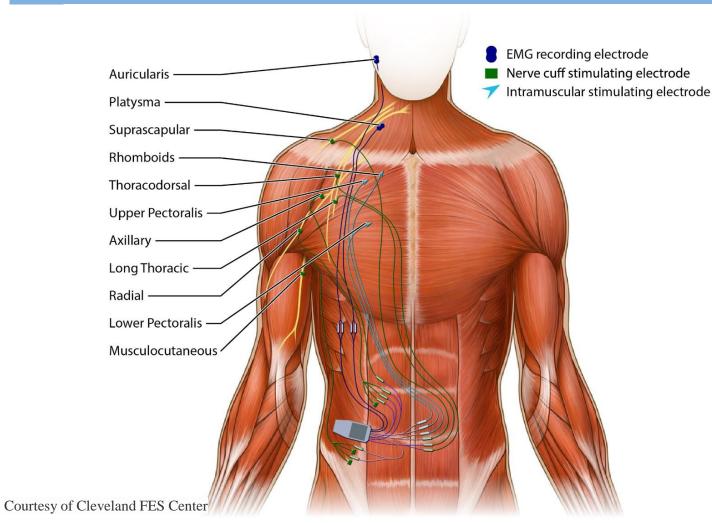


Disability and Society 5.0: a Rehabilitation Engineer's Perspective

Cameron LaMack PhD Student Cleveland State University Washkewicz College of Engineering



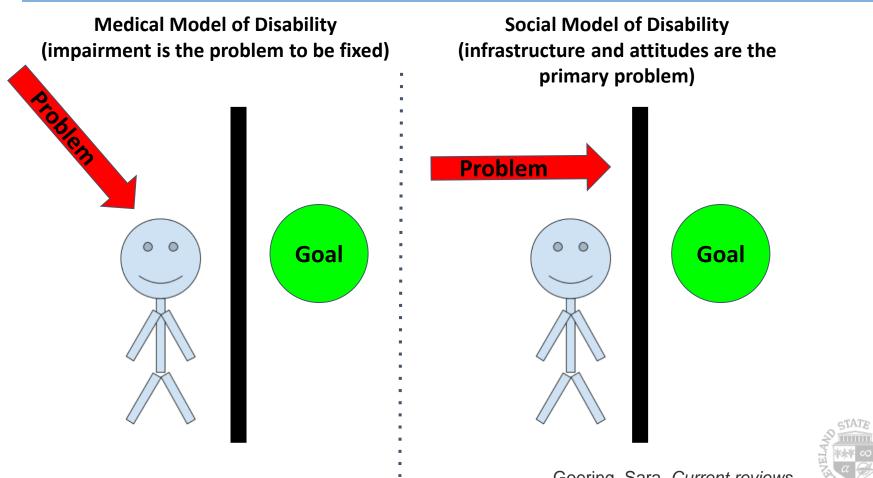
Functional Electrical Stimulation: a possible solution for Spinal Cord Injury







Models of Disability



Goering, Sara. *Current reviews in musculoskeletal medicine*



What might a "city" that minimizes disability look like?

