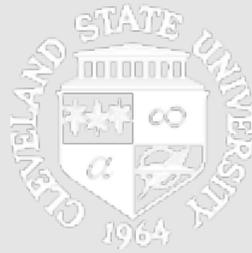


Society 5.0: Advanced Technologies in the Existential Era

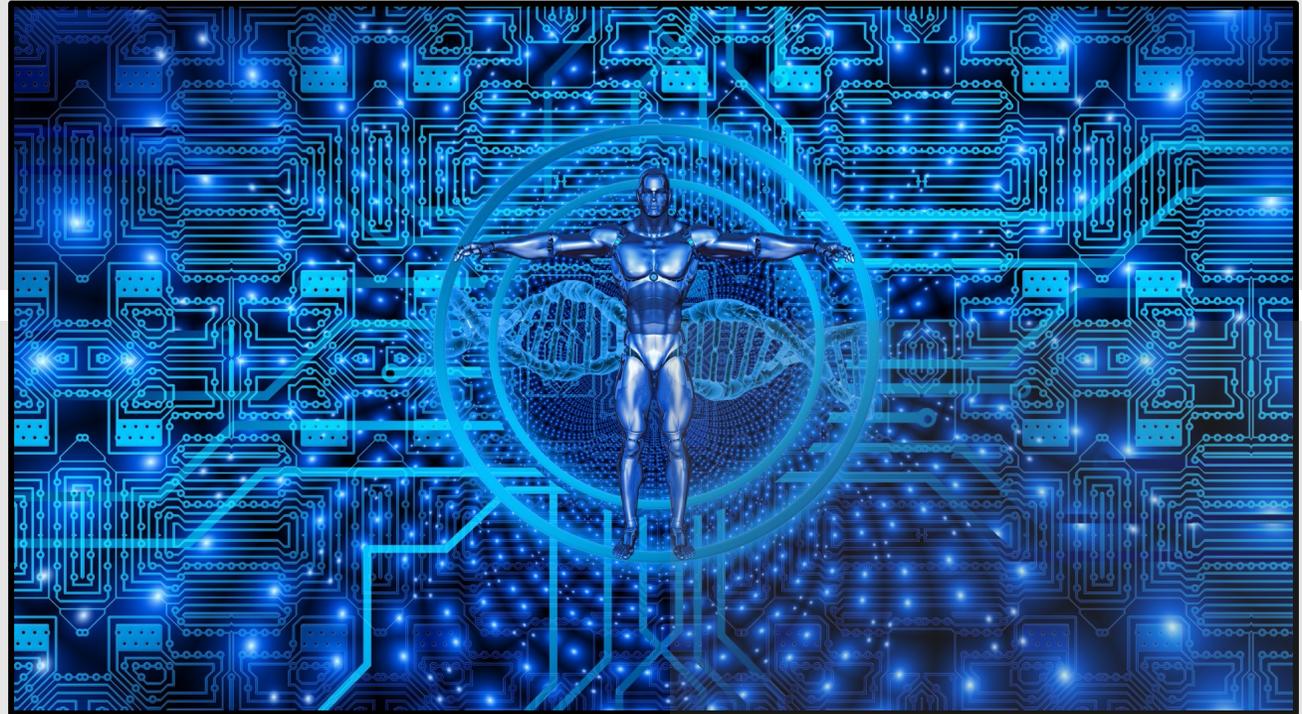
Nicholas C.
Zingale, PhD

Graduate
Student
Roundtable

April 20, 2022



CLEVELAND STATE UNIVERSITY



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



**CLEVELAND STATE
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Society 5.0's "Sylicarbon Trifecta": the potential

The New York Times
System Suicide and Sexual Assault, the Force Dons Headsets
Officials are hoping that an immersive virtual reality experience aimed at getting airmen to intervene will succeed where traditional training has failed.



Artificial intelligence to predict heart disease

31 MAY 2021 | 2 MINS

...technology could spell a medical breakthrough as a leading cause of death in Australia.

...researchers at The University of Western Australia are using AI in healthcare, improving the quality and consistency of care.

...machine learning and artificial intelligence was awarded a grant to predict the risk of coronary heart disease.

...the build-up of plaque affects more than 100 million people worldwide, a burdensome, time-consuming and may be costly.

NASA 'Holoported' a Doctor Onto the International Space Station

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

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



Beyond synthetic biology, synthetic ecology boosts health by engineering the environment

by Kat J. McAlpine, Boston University



 In a new *Nature Communications* study, researchers from BU's Microbiology Department have shown that synthetic ecology can boost health by engineering the environment.

There's a lot of interest right now in synthetic biology, but like the original, it's not just about the organisms themselves.

Society 5.0's "Silicon Trifecta" : the threats

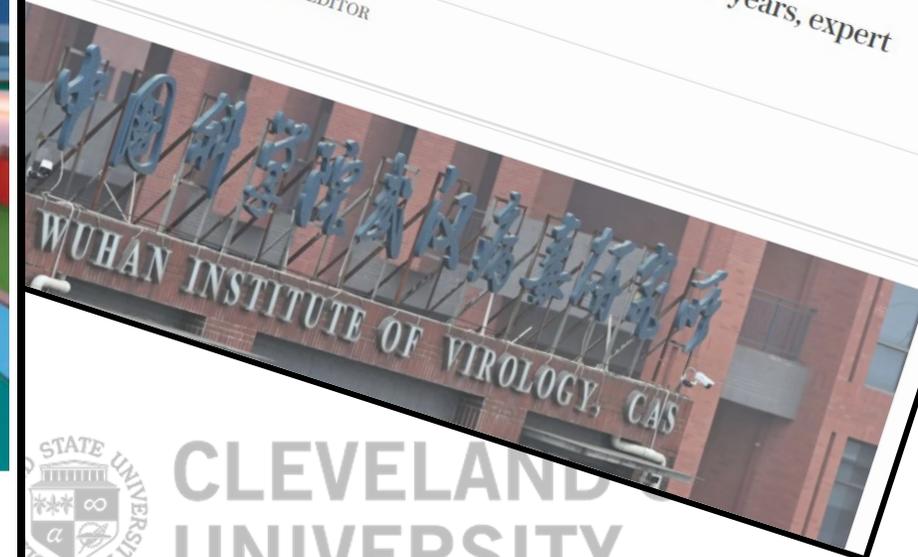
Some people feel threatened': face to face with Ai-Da the robot artist

Self-portraits by ultra-realistic android go on show at Design Museum in London

By Anne Gulland, GLOBAL HEALTH SECURITY DEPUTY EDITOR
2 June 2021

'Engineered pandemic' as big a threat as nuclear war, report warns

One in six chance that a catastrophic event could occur in next 100 years, expert calculates

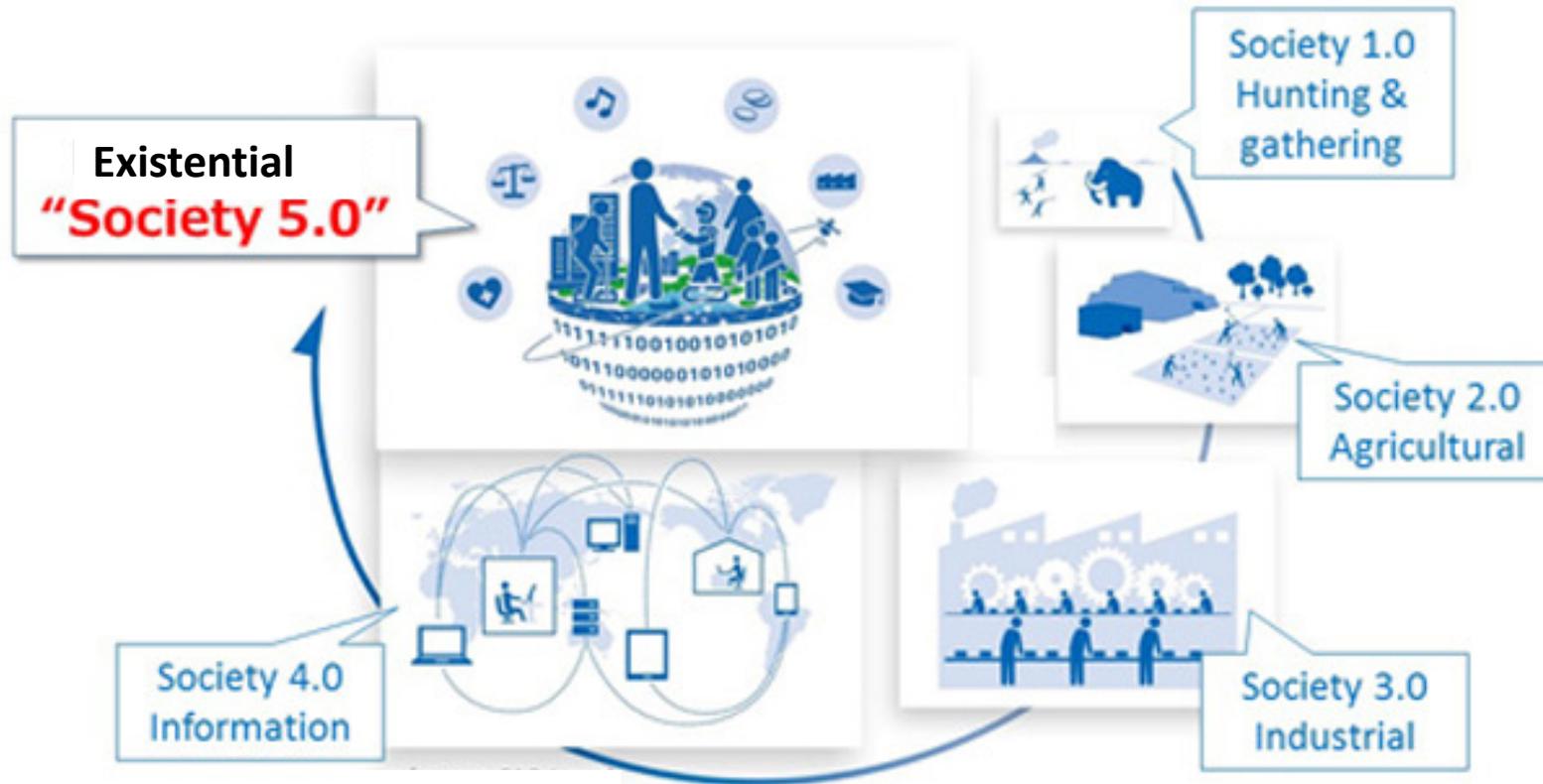


WOMAN RECALLS HORRIFIC VIRTUAL GANG-RAPE INCIDENT WITHIN THE METAVERSE



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Society 5.0: Existential *Embodied Tech and the Sylicarbon Future*



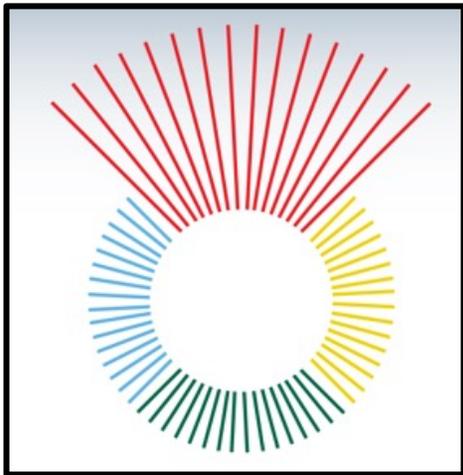
Source: Adapted
from [CAO Japan](#)



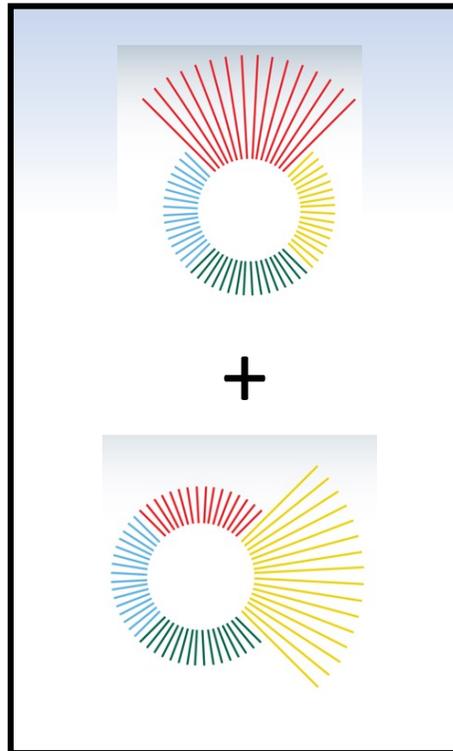
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Transdisciplinarity

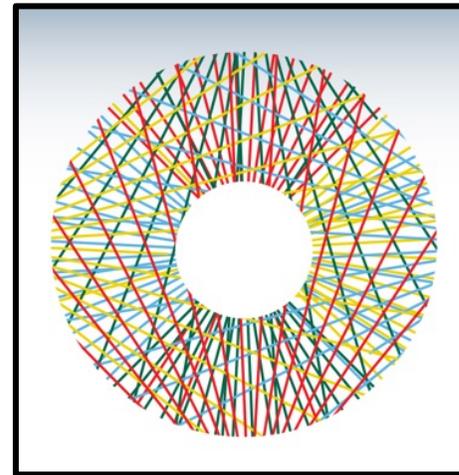
Monodisciplinary



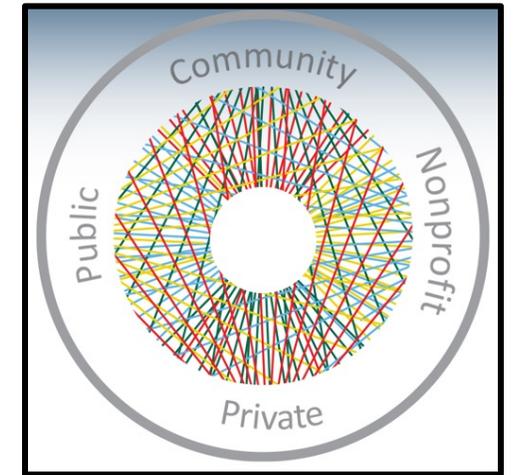
Multidisciplinary



Interdisciplinary

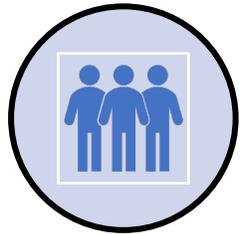


Transdisciplinary

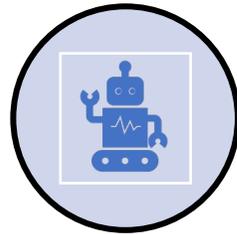


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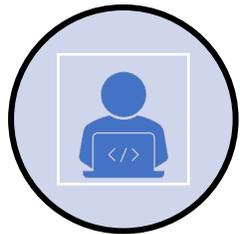
Society 5.0's Big Questions



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?



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Society 5.0 Situated at CSU

Internal
within CSU

Internet of
Things
Collaborative

T.E.C.H. Hub

Center for Human-
Machine Systems

National Science
Foundation Research
Traineeship Program

HELPPS
Consortium

University
Innovation
Fellowship

S5

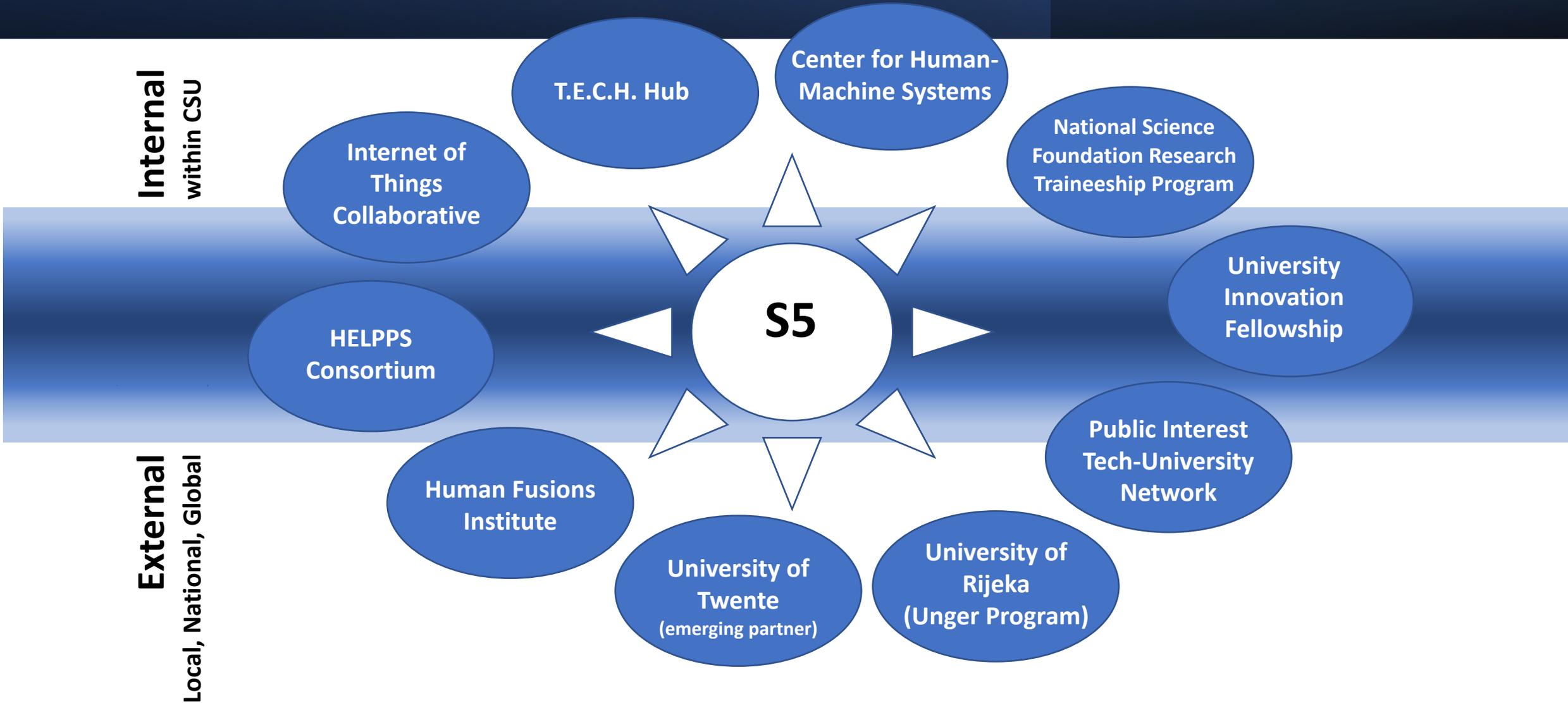
Public Interest
Tech-University
Network

Human Fusions
Institute

University of
Twente
(emerging partner)

University of
Rijeka
(Unger Program)

External
Local, National, Global



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

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Cleveland, OH 44115

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1717 Euclid Avenue

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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,