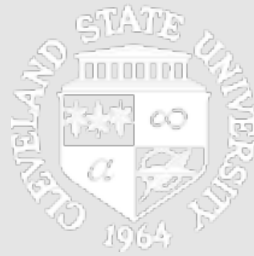


# Society 5.0: Advanced Technologies in the Existential Era

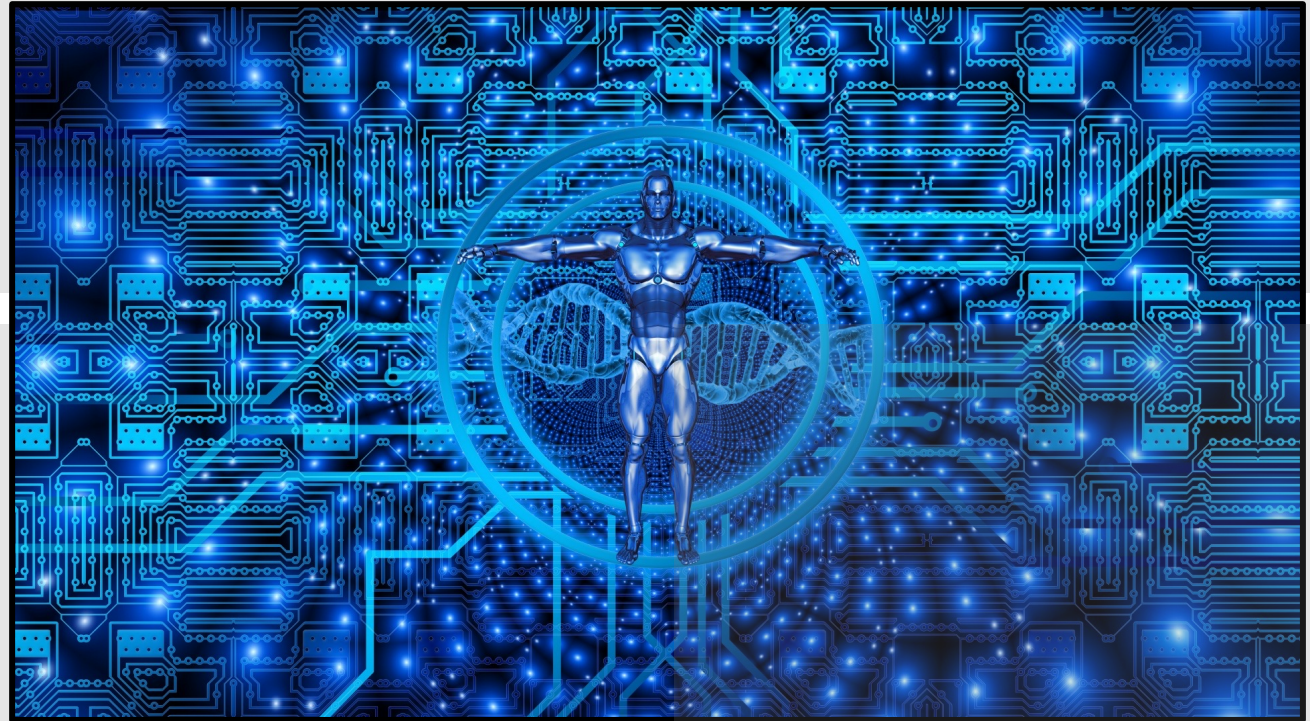
Nicholas C.  
Zingale, PhD

Graduate  
Student  
Roundtable

April 20, 2022



# CLEVELAND STATE UNIVERSITY



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



CLEVELAND STATE  
UNIVERSITY




# Advanced Technology in Society's "Silicarbon 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.



## 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




## Artificial intelligence to predict heart disease

31 MAY 2021 | 2 MINS

...technology could spell a medical breakthrough...  
...cause of death in Australia.  
...researchers at The University of Western Australia...  
...healthcare, improving the quality and consistency...  
...aging and artificial intelligence was awarded...  
...to predict the risk of coronary heart disease...  
...the build-up of plaque affects more than 100 million...  
...person, time-consuming and may be...  
...CLEVELAND STATE UNIVERSITY

## 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...  
There's a lot of interest right now in...  
like the...



# Advanced Technology in Society's "Silicarbon 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



▲ Ai-Da, described as the world's first ultra-realistic robot, at the Design Museum in London. Photographed by [unreadable] can be called a she, began [unreadable] can be called [unreadable]

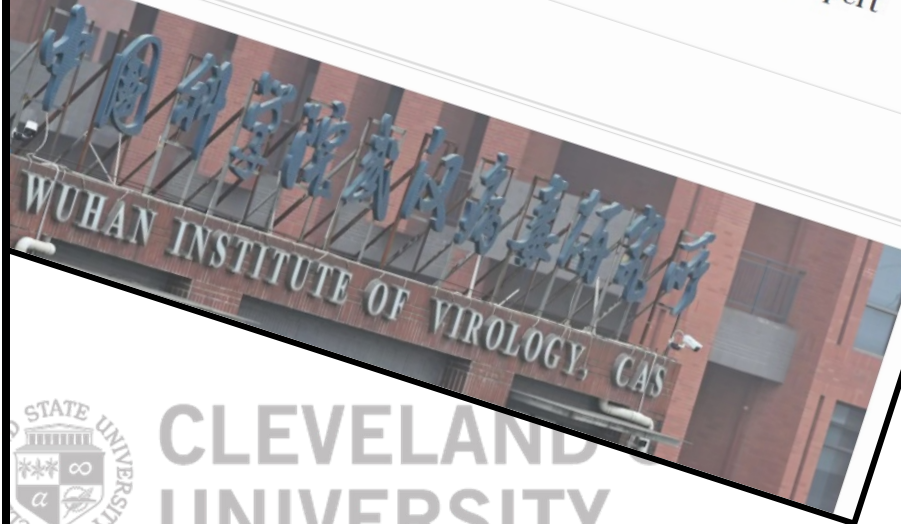
'Engineered pandemic' as big a threat as nuclear war, report warns

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

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

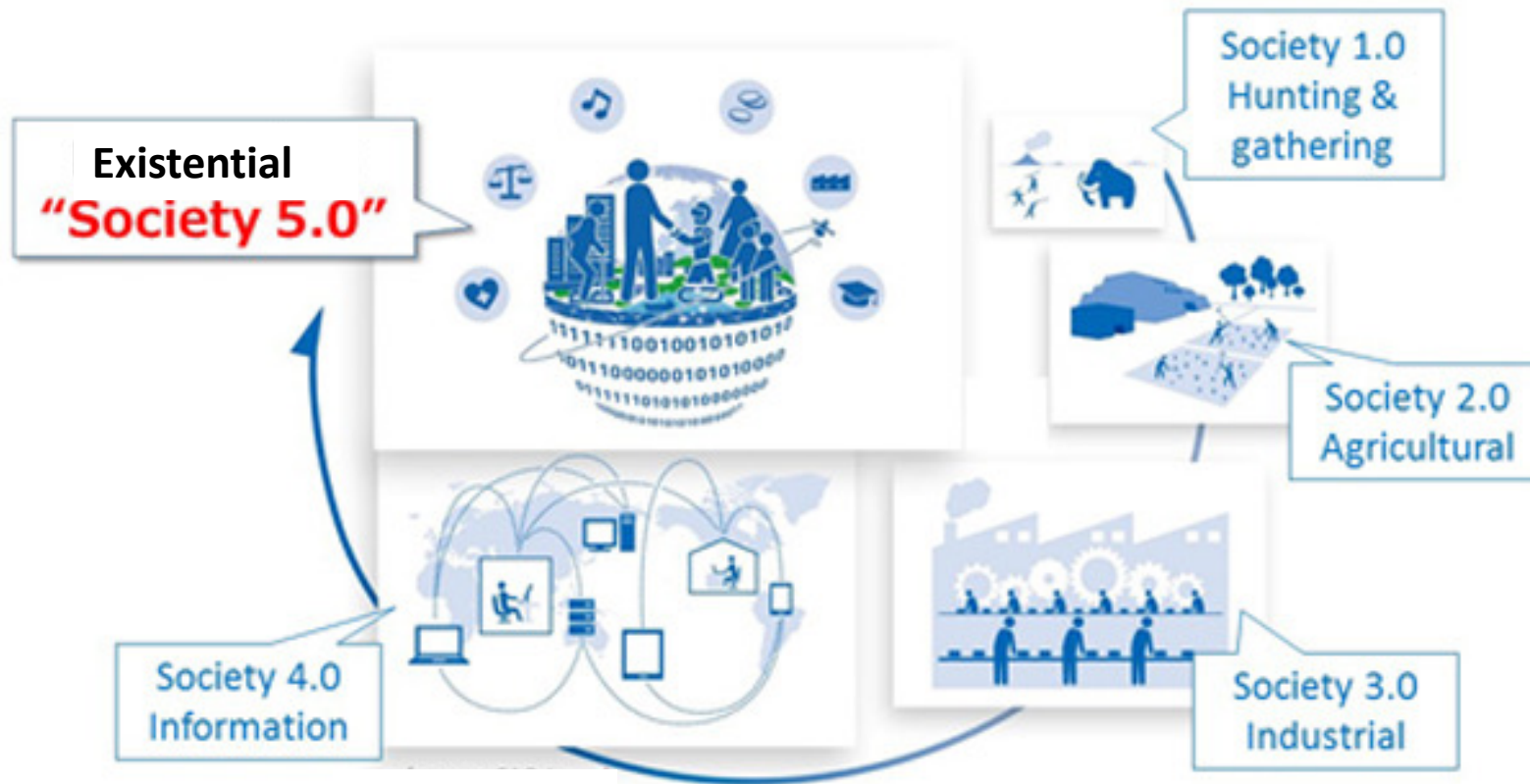


WOMAN RECALLS HORRIFIC VIRTUAL GANG-RAPE INCIDENT WITHIN THE METAVERSE



CLEVELAND UNIVERSITY

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



Source: Adapted  
from [CAO Japan](#)

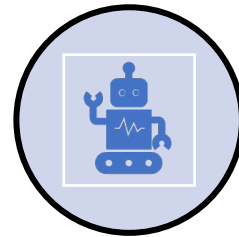


CLEVELAND STATE  
UNIVERSITY

# Advanced Technology in Society's Big Questions



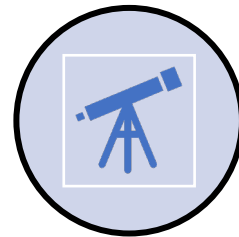
How are these technologies shaping and reshaping our human experience?



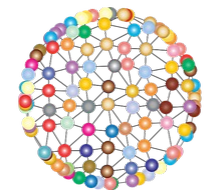
How are technologies influencing the ways we interact?



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



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

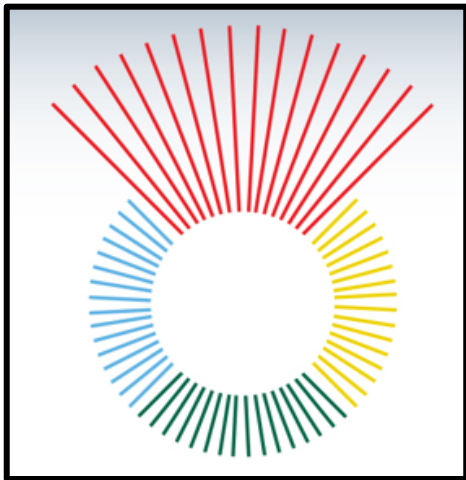


CLEVELAND STATE  
UNIVERSITY

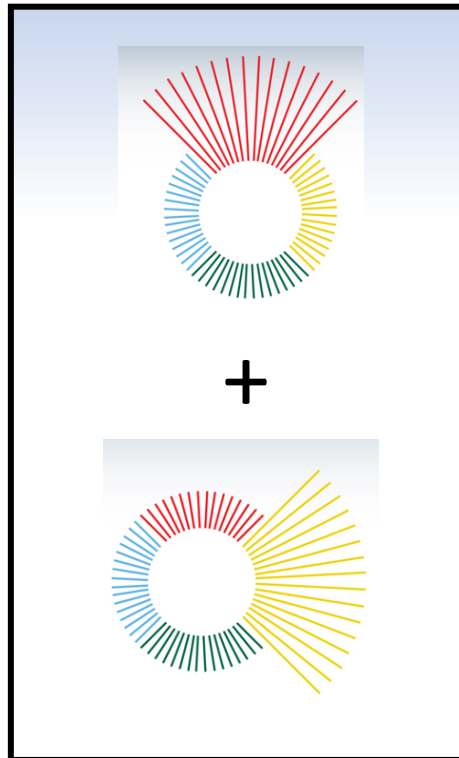


# Transdisciplinarity

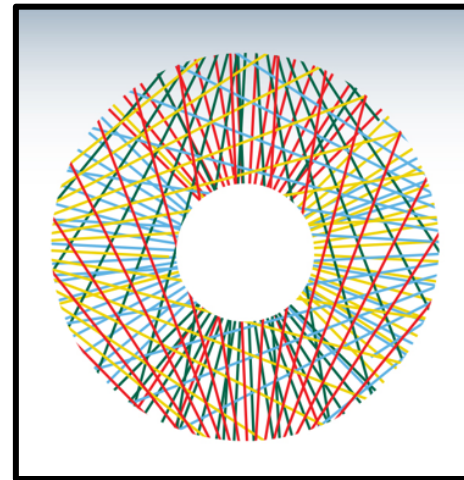
Monodisciplinary



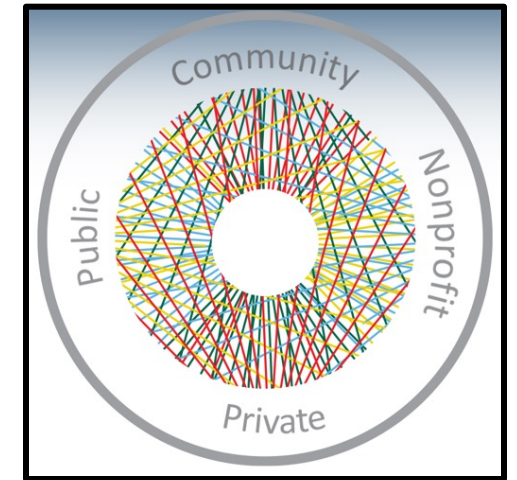
Multidisciplinary



Interdisciplinary



Transdisciplinary



CLEVELAND STATE  
UNIVERSITY

# 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

University Innovation Fellowship

HELPPS Consortium

**S5**

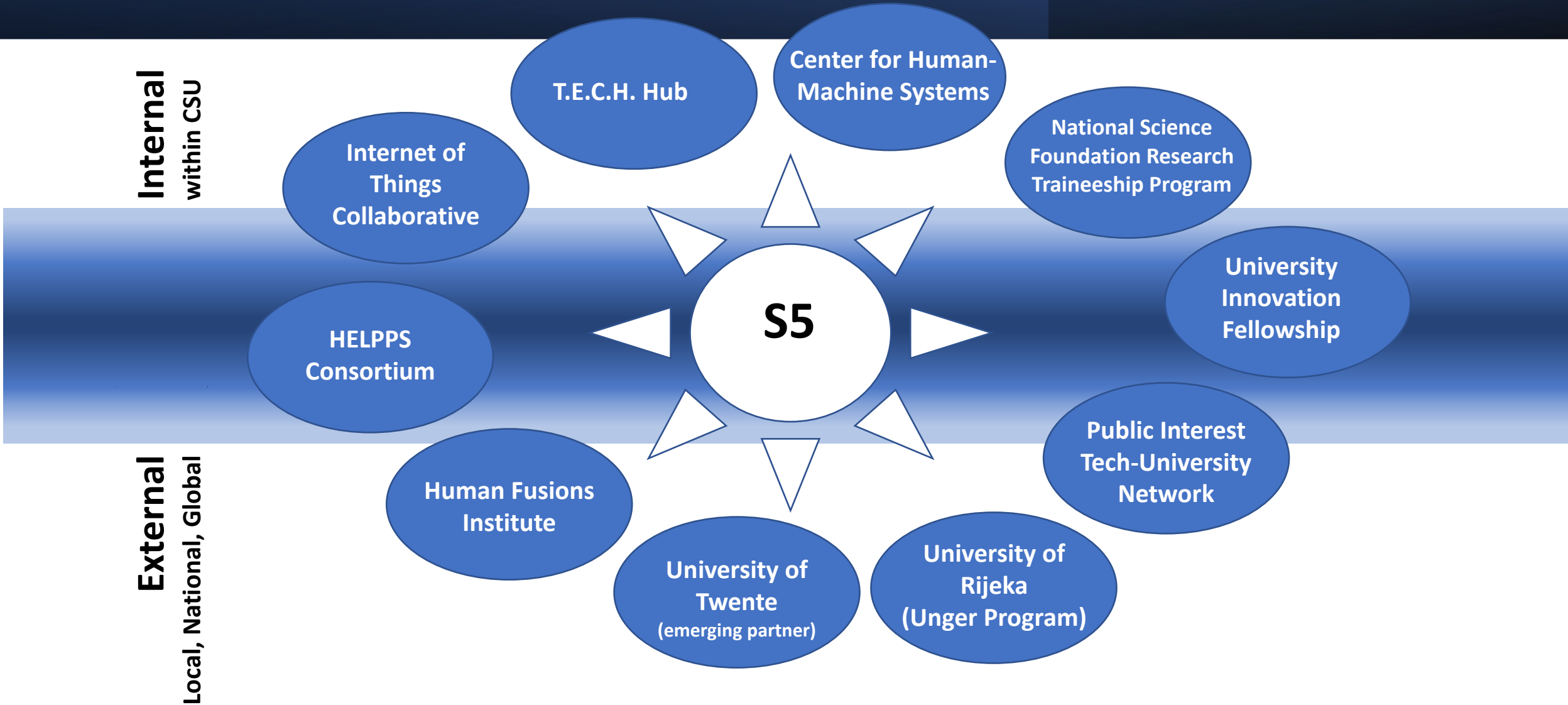
Public Interest Tech-University Network

**External**  
Local, National, Global

Human Fusions Institute

University of Twente  
(emerging partner)

University of Rijeka  
(Unger Program)





# Graduate Certificate and Website

- Society 5.0 Graduate Certificate
  - 4 courses
  - Fall 2022: Transdisciplinary Perspectives or Logic of Inquiry
- [urban.csuohio.edu/society5.0](http://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](#)

- » About Our Work
- » Certificates and Courses
- » News and Events
- » Research
- » Connect with Us

---

### Mailing Address

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

### Campus Location

Urban Building, Room 349  
1717 Euclid Avenue

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,