Cleveland State University
Maxine Goodman Levin School of Urban Affairs
Bonda Room, UR 254 (second floor) ~ or join us on Zoom

Society 5.0 – Advanced Technologies & the Future
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Introductory Topic and Moderator
Associate Professor, Levin College of Public Affairs and Education
Cleveland State University

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Human Centered Design Group
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Society 5.0:
Advanced Technologies in the Existential Era

CLEVELAND STATE UNIVERSITY

Nicholas C. Zingale, PhD

March 30th, 2023

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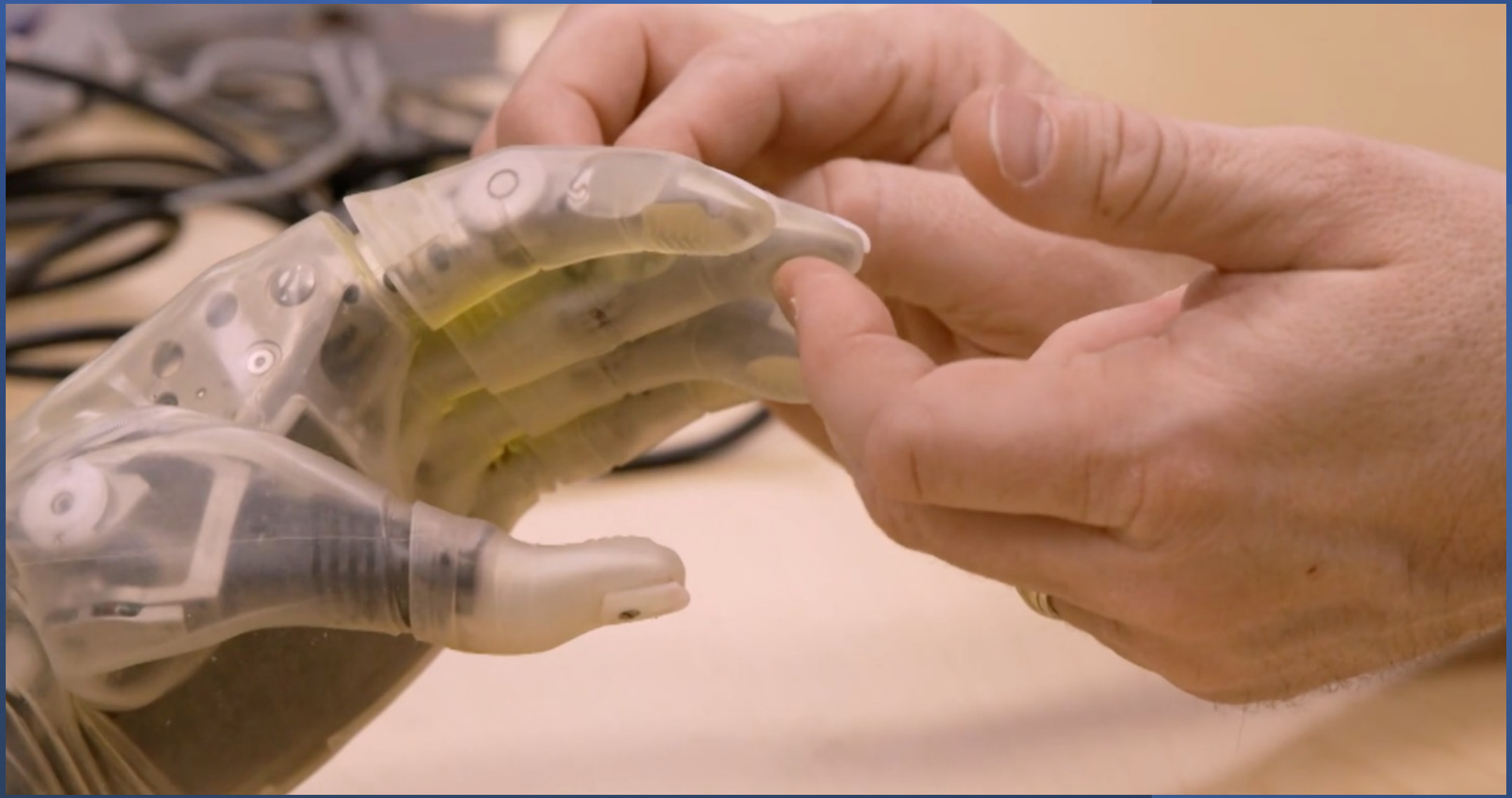

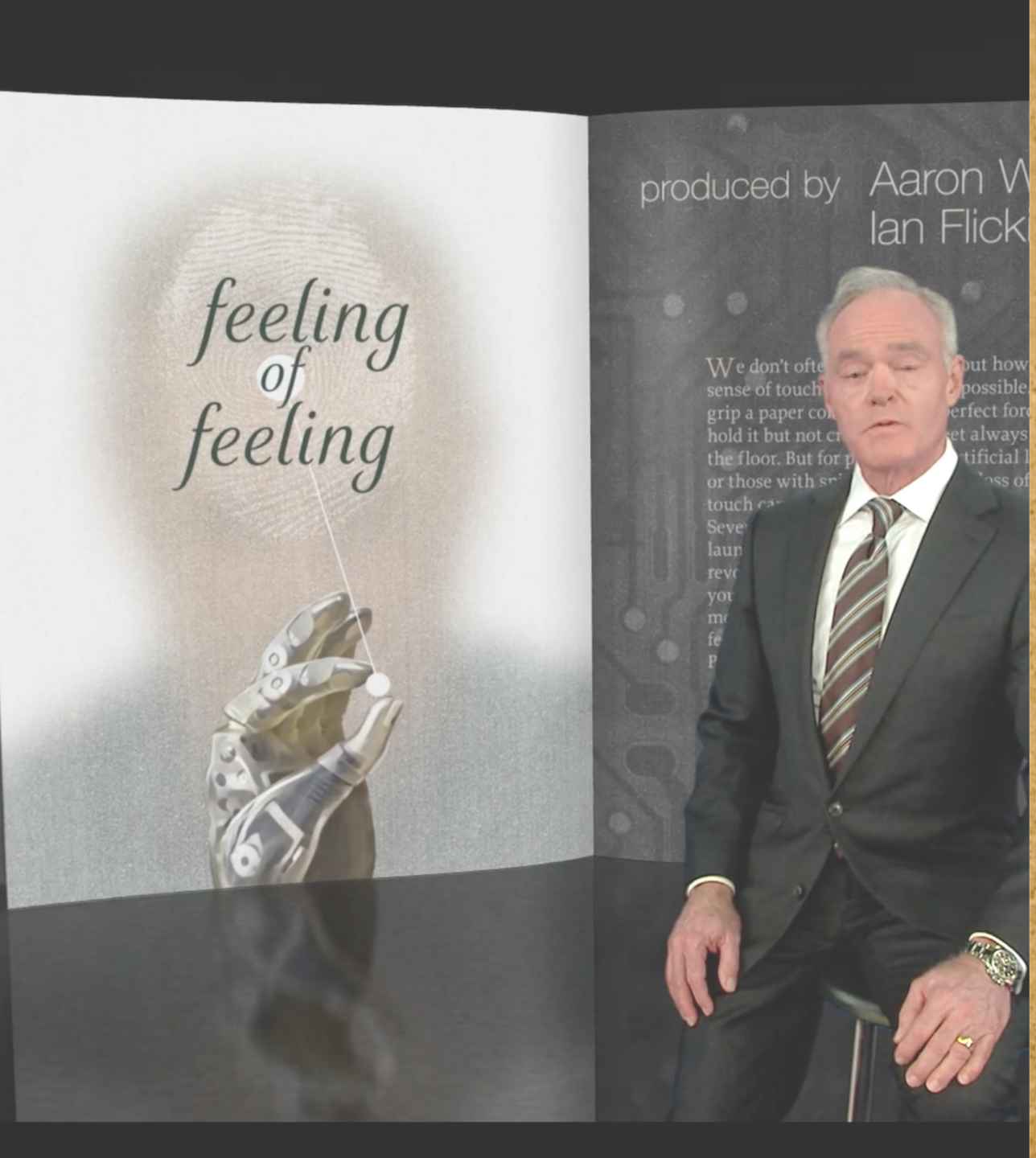
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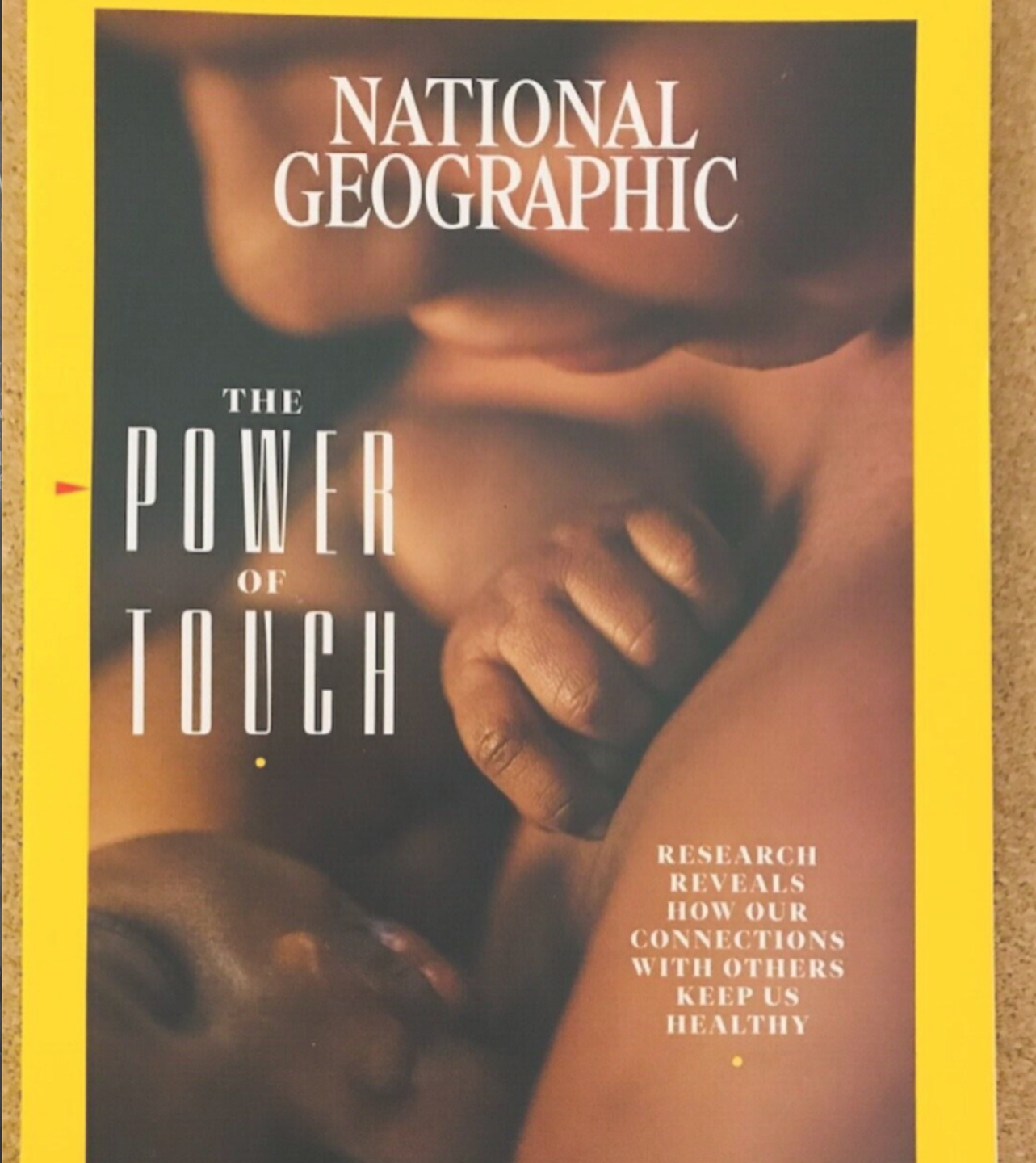
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REVEALS
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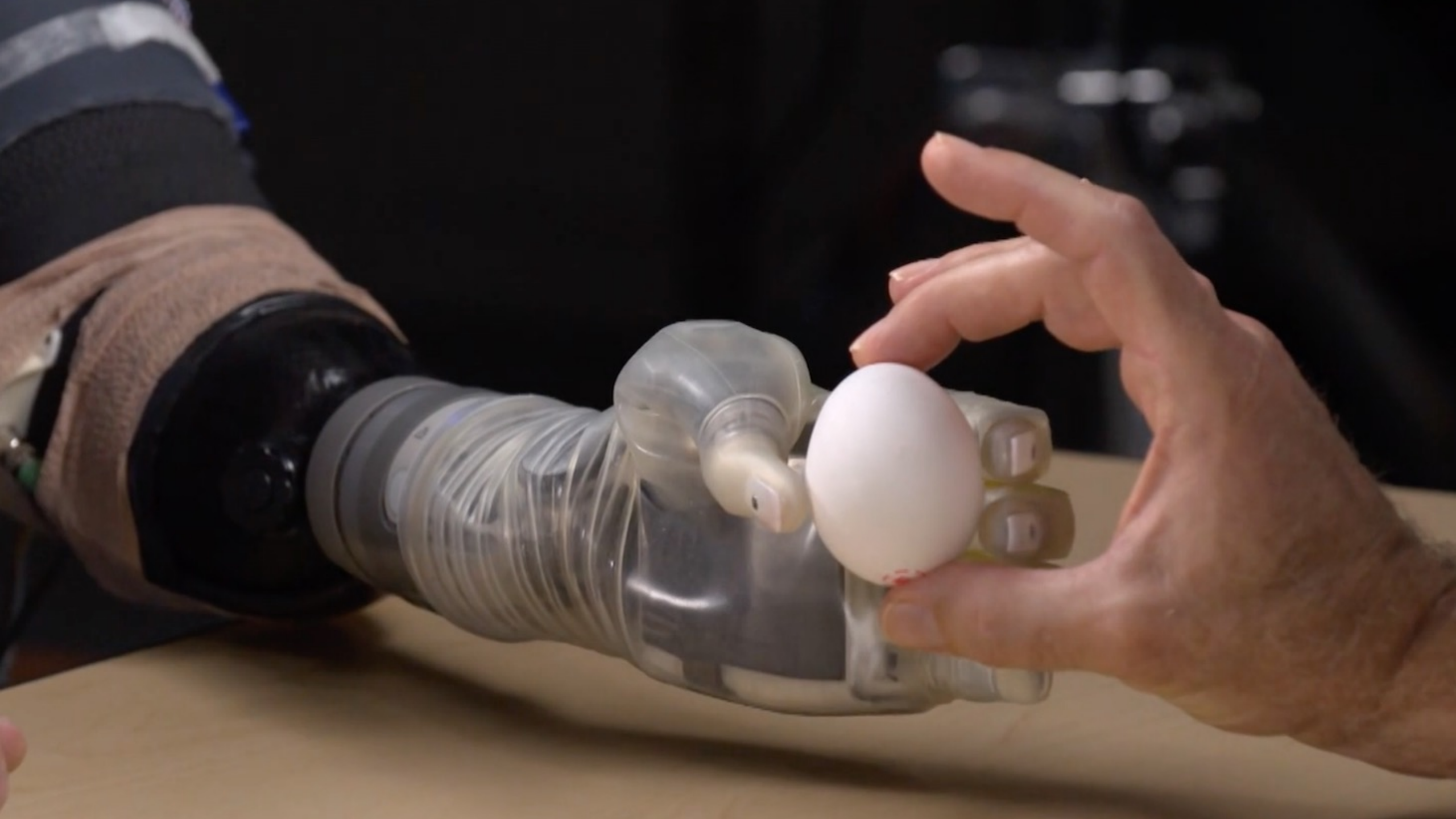
HEALTHY



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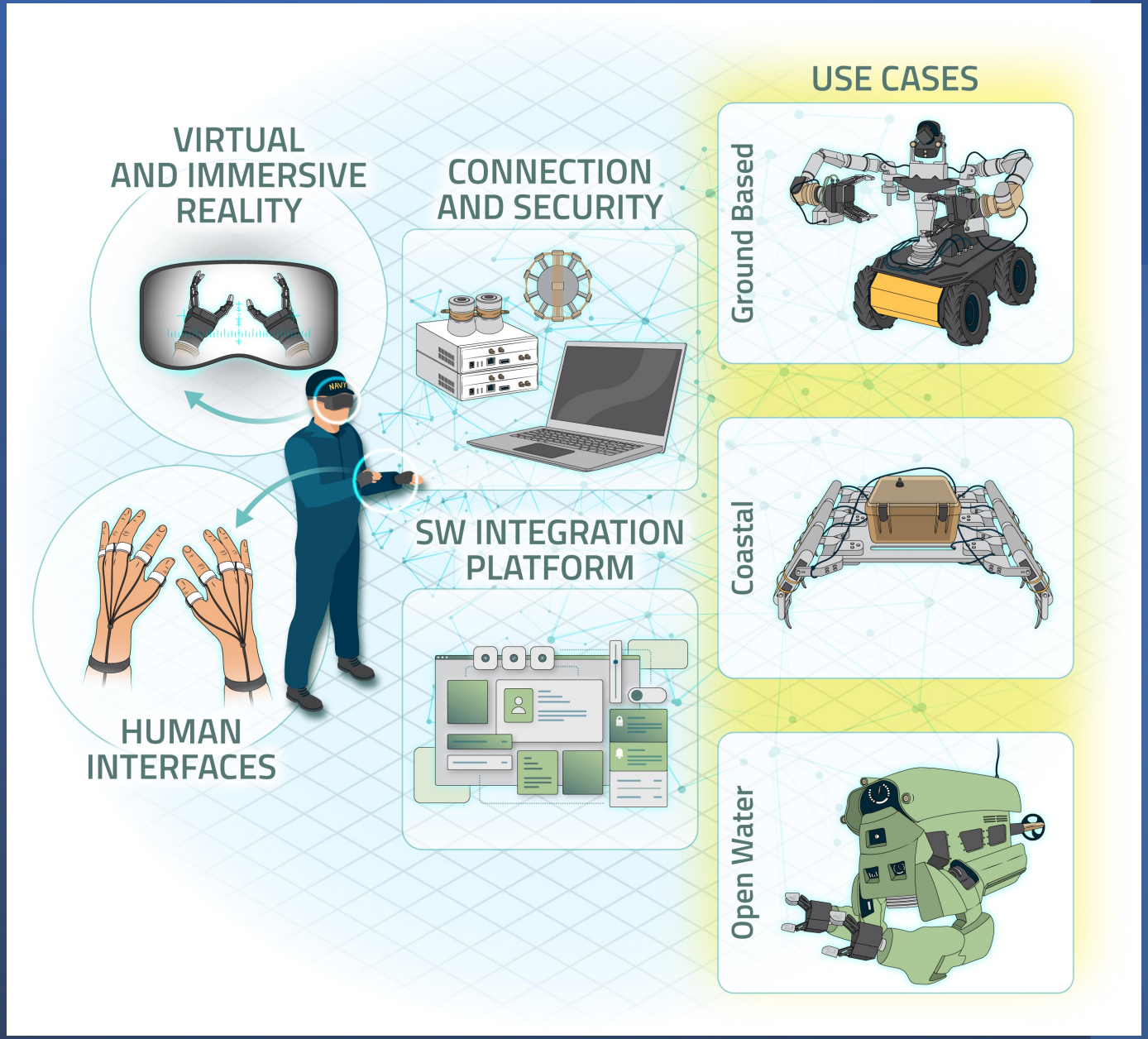
VIRTUAL
AND IMMERSIVE
REALITY
CONNECTION
AND SECURITY
SW INTEGRATION
PLATFORM
HUMAN
INTERFACES
USE CASES
Ground Based
Coastal
Open Water

Artificial Intelligence in action

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

AY 2021 | 2 MINS

ew project using artificial intelligence technology could spell a medical breakthrough for people suffering from, or at risk of, onary artery disease, the single leading cause of death in Australia.

approach being developed by researchers at The University of Western Australia could allow for more accurate diagnosis and er reporting across all aspects of healthcare, improving the quality and consistency of patient care.

UWA team of experts in cardiac imaging and artificial intelligence was awarded $896,606 through a Medical Research Future d Frontiers grant to develop a tool to predict the risk of coronary heart disease from heart computed tomography (CT) scans.

onary artery disease resulting from the build-up of plaque affects more than 1.2 million Australians; however traditional methods g CT imaging of the heart are cumbersome, time-consuming and may have limited accuracy.

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 Microbiome Init…

There's a lot of interest right now in how different microbiomes—like the one made up of all the bacteria in our guts—could be harnessed to boost human health and cure disease. But Daniel Segrè has set his sights on a much more ambitious vision for how the microbiome could be manipulated for good: "To help

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Researchers claim to have seque entire human genome
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A framework to simulate the same using two different Hamiltonians
JUN 07, 2021

'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 artist, at the opening of the exhibition Ai-Da: Portrait of the Robot, at the Design Museum in London. Photograph: David Parry/PA

She, if it can be called a she, began her career with abstract art but has now moved to self, if they can be called self, portraits and they are alarmingly good.

"She is getting better all of the time," said Aidan Meller, the force behind Ai-

In a world of pixels and code, Where reality's boundaries erode, The future lies in a virtual realm, Where nothing is quite what it seems.

Imaginary landscapes unfold, As new horizons are untold, Where our minds can roam free, And our imaginations can be.

In this world of endless creation, We'll build new nations and civilizations, And explore the vastness of space, With a virtual reality interface.

The limits of time and space are gone, As we traverse new worlds beyond, Where anything is possible, In a world that's truly unstoppable.

We'll escape the monotony of life, And experience new sensations with delight, In a world that's more than just a game, Where we can be whoever we want to claim.

Our future lies in a virtual world, Where our imaginations can unfurl, And the possibilities are endless, In a world that's truly boundless.

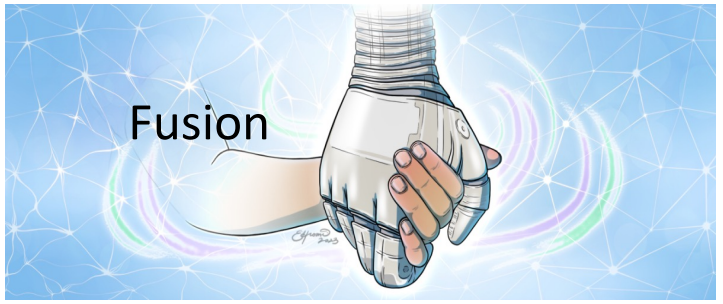
Convergence

Experience

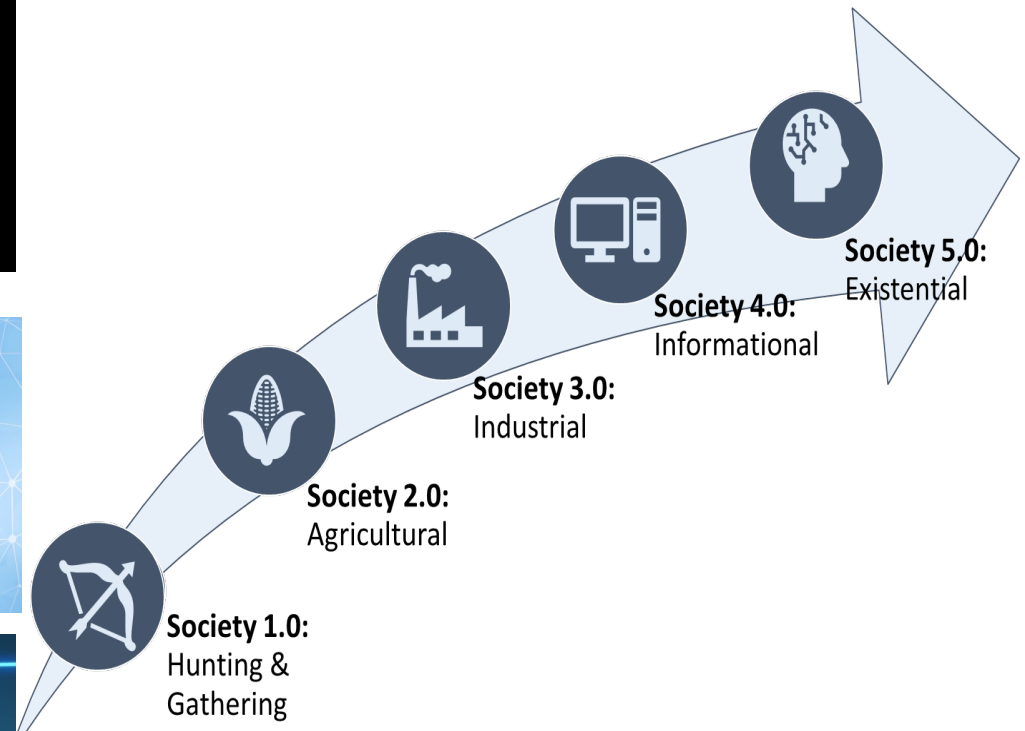
Society Change

Artificial Intelligence

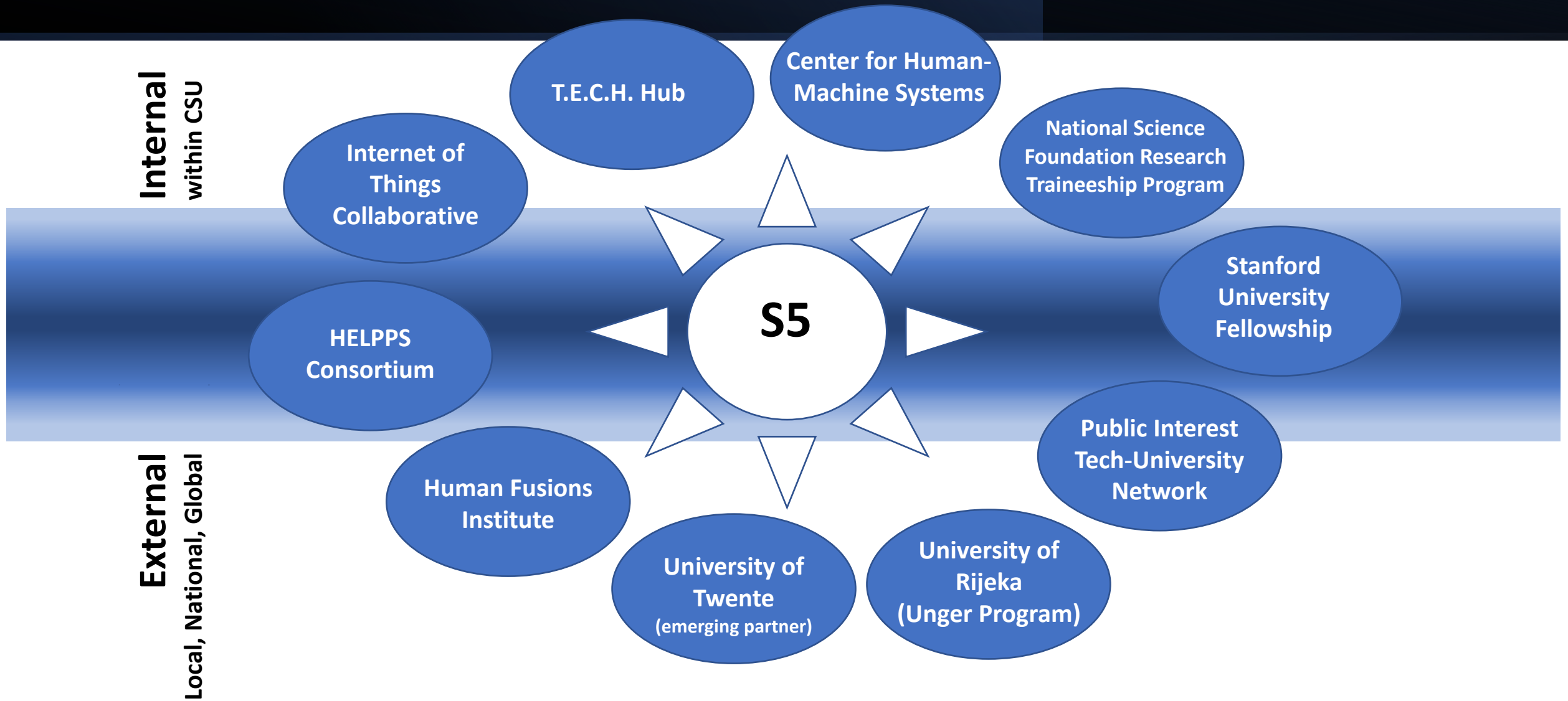
Human-machine Connect
Multi-Sensory Transfer



Extended Reality



Society 5.0 Situated at CSU



Graduate Certificate and Website

- Society 5.0 Graduate Certificate
  - 4 courses
  - Fall 2023: Empathy, Disabilities
- urban.csuohio.edu/society5.0

Maxine Goodman Levin College of Urban Affairs >

SOCIETY 5.0

Academic Programs
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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

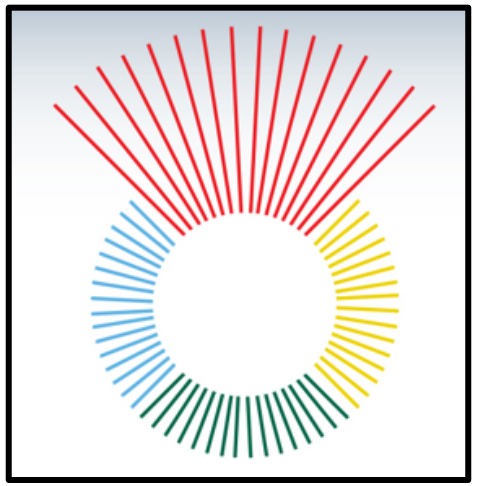
SOCIETY 5.0

What is Society 5.0?

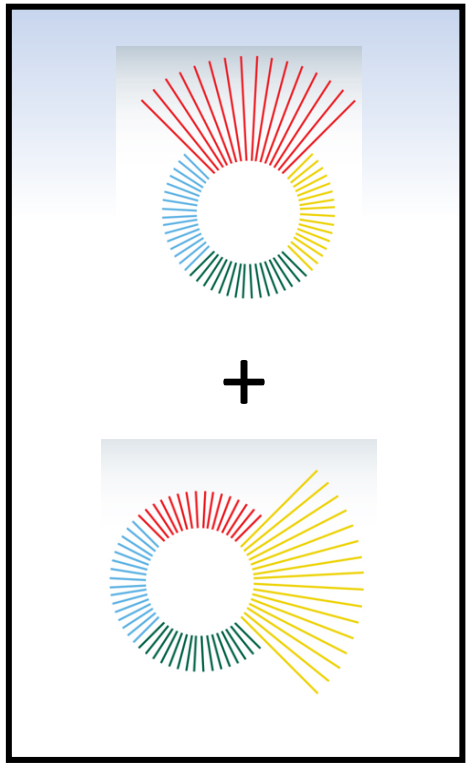
Society is rapidly approaching a fifth stage of development that includes emerging disruptive technologies, such as artificial intelligence, multi-sensory transfer, augmented and virtual realities, advanced robotics, and synthetic forms of life. As in the previous four stages of societal development,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

Transdisciplinarity

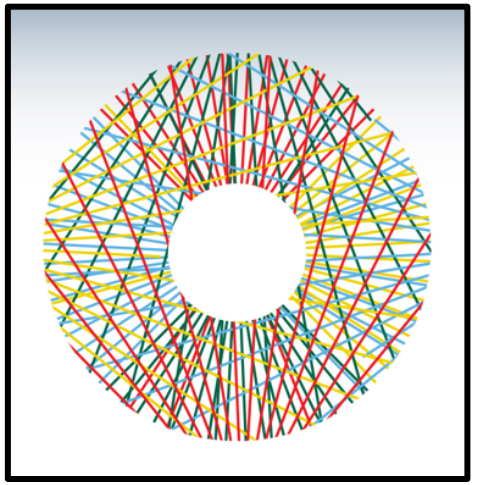
Monodisciplinary



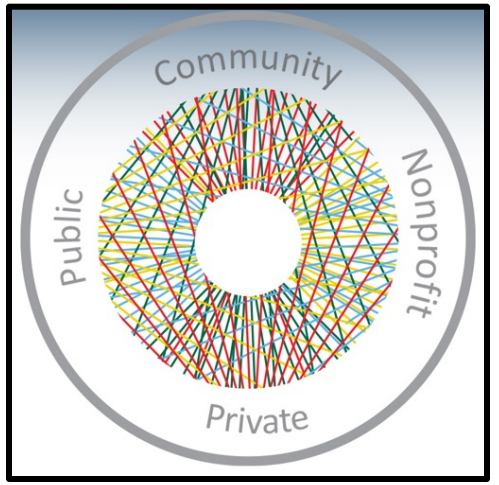
Multidisciplinary



Interdisciplinary



Transdisciplinary



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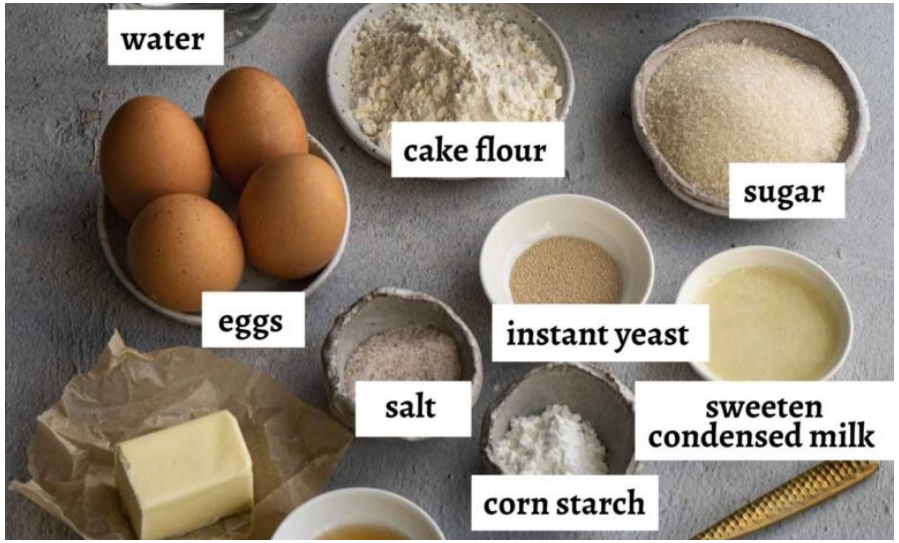
water
cake flour
sugar
eggs
instant yeast
salt
sweeten condensed milk
corn starch

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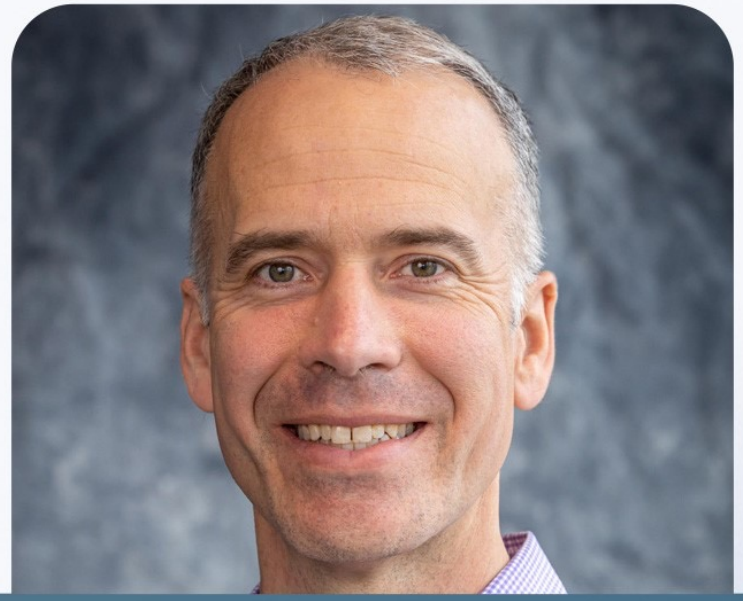

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