

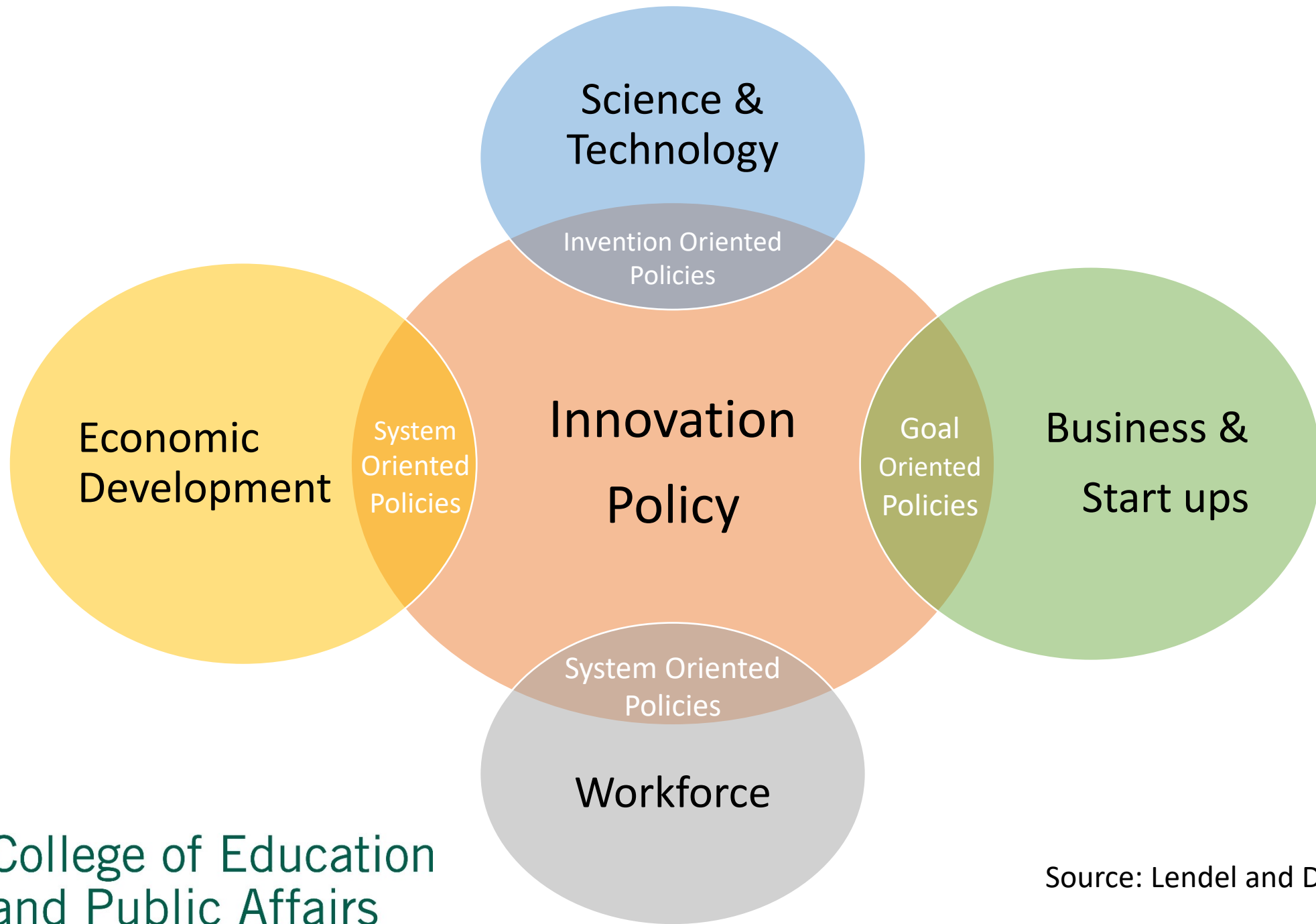
Society 5.0: The Future of Work and Life in the Existential Era

Nicholas C.
Zingale, PhD
CIPPO
July 14, 2022



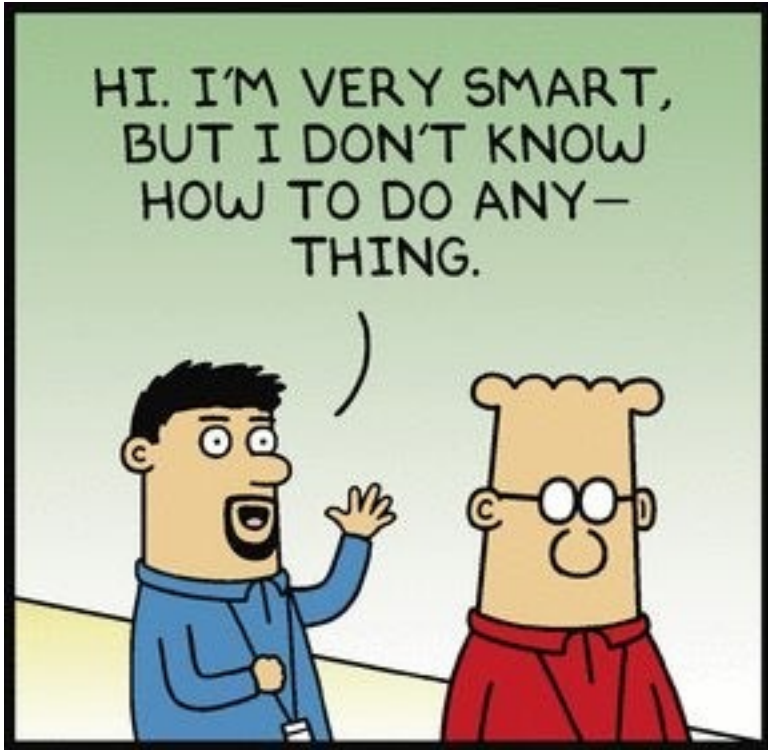
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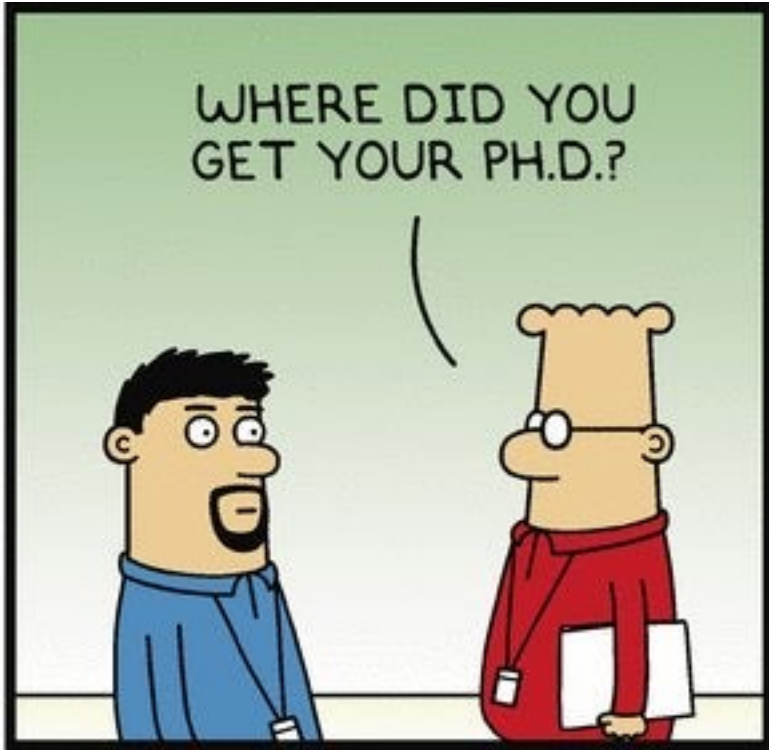
Source: Lendel and Driscoll





HI. I'M VERY SMART,
BUT I DON'T KNOW
HOW TO DO ANY-
THING.

DILBERT.COM @SCOTTADAMSSAYS



WHERE DID YOU
GET YOUR PH.D.?

1-21-19 2019 Scott Adams, Inc./Dist. by Andrews McMeel



I DIDN'T
SAY I HAVE
A PH.D.

YOU
KINDA
DID.

Japan's 5.0

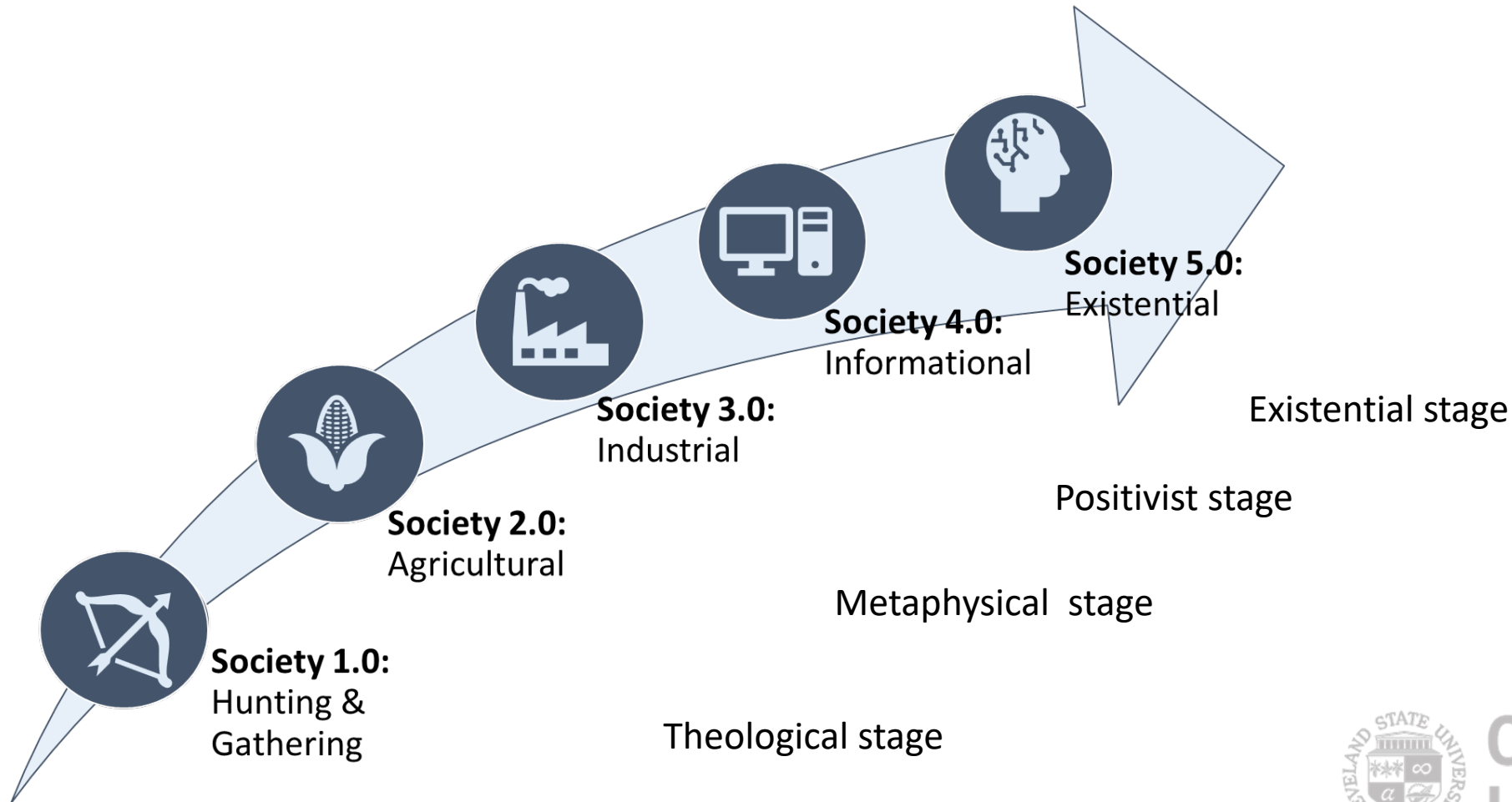
- Japan's Basic Science and Technology Plan (2020)
- Focuses on a data-driven, knowledge led, non-monetary society
- Written by a multi-disciplinary group

Title	Industrie 4.0 (Germany)	Society 5.0 (Japan)
Design	<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 5th Science and Technology Basic Plan (released 2016)• Comprehensive Strategy on Science, Technology and Innovation for 2017 (released 2017)
Objectives, scope	<ul style="list-style-type: none">• Smart factories• Focuses on manufacturing	<ul style="list-style-type: none">• Super-smart society• Society as a whole
Key phrases	<ul style="list-style-type: none">• Cyber-physical systems (CPS)• Internet of Things (IoT)• Mass customization	<ul style="list-style-type: none">• High-level convergence of cyberspace and physical space• Balancing economic development with resolution of social issues• Human-centered society



Society 5.0: Existential

Embodied Tech and the Sylicarbon Future

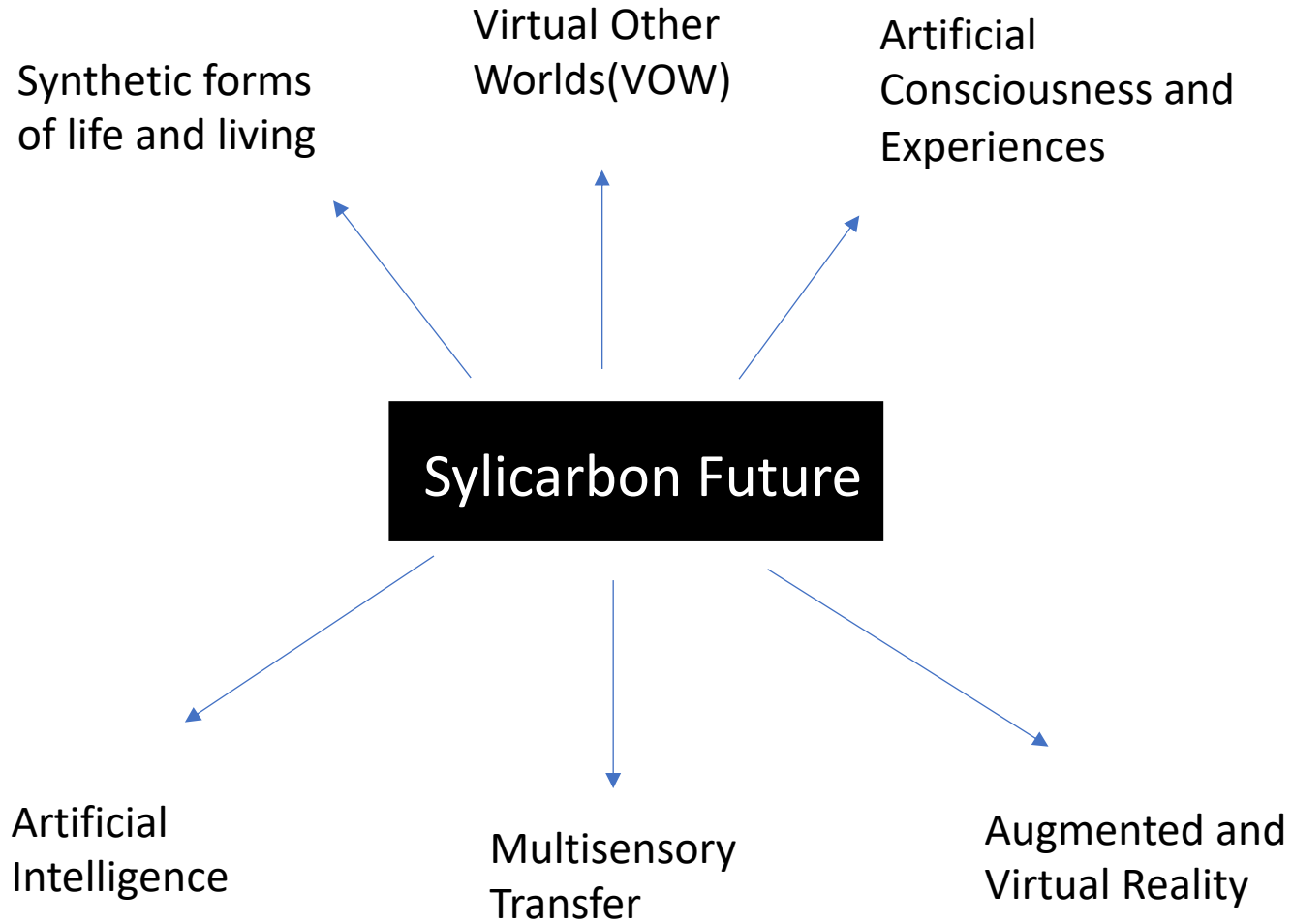


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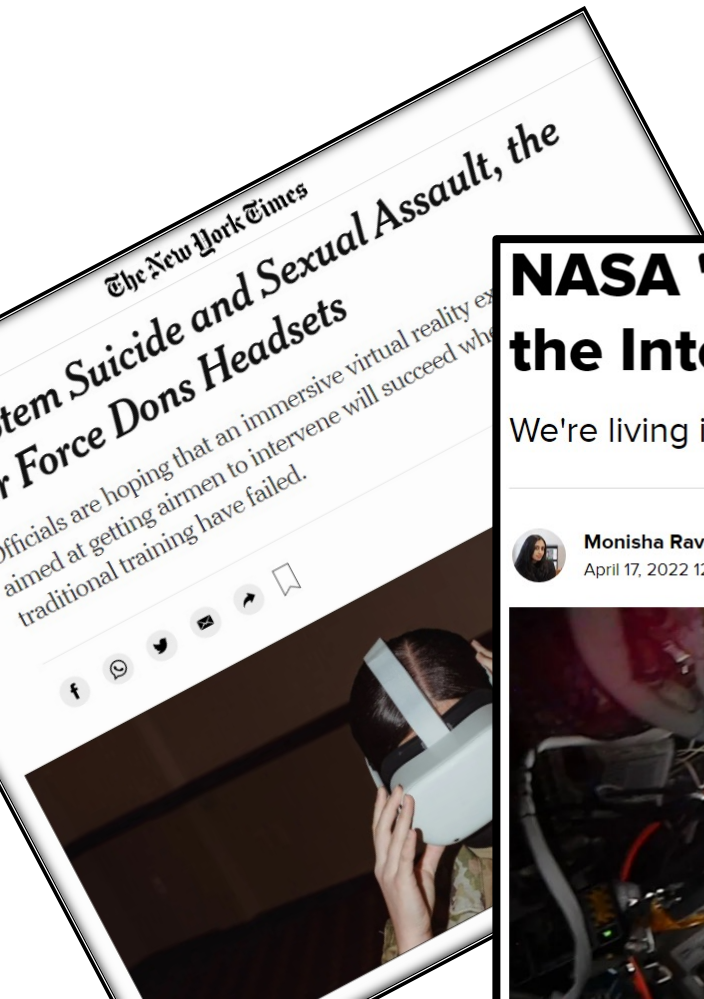
Case Study: the transfer of touch over distance via neuroreality™



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Society 5.0's "Sylicarbon Future" : the potential



Artificial intelligence to predict heart disease
31 MAY 2021 | 2 MINS

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

technology could spell a medical breakthrough...
cause of death in Australia.
Researchers at The University of Western Australia...
thcare, improving the quality and consistency of...
ing and artificial intelligence was awarded...
predict the risk of coronary heart disease...
ne build-up of plaque affects more than 100 million...
ersome, 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...
Cleveland State University

Society 5.0's "Silicon Future" : 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 artist, at the Design Museum in London. Photographed by [unreadable] can be called a she, began [unreadable] can be called [unreadable]

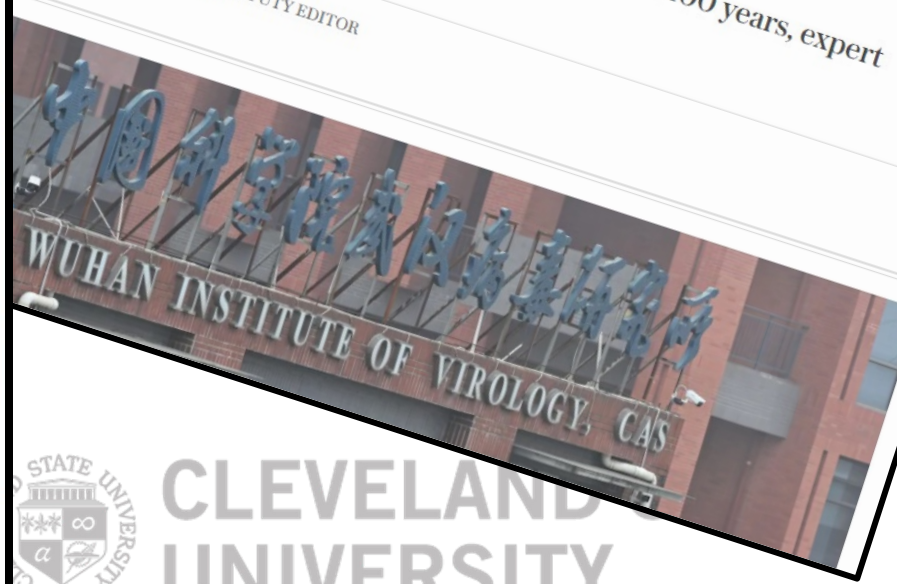
'Engineered pandemic' as big a threat as nuclear war, report warns

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



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Source: Saturday Evening Post

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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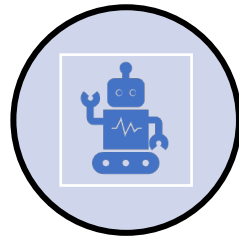
It Could Also Mean

- 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



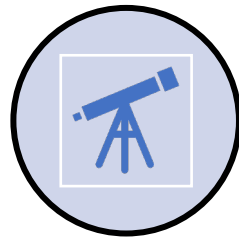
How are these technologies shaping and reshaping our human experience?



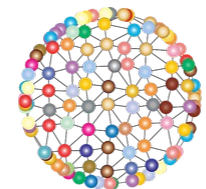
How are technologies influencing the ways we interact?



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



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



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Society 5.0 Situated in Ohio and Beyond

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

External
Local, National, Global

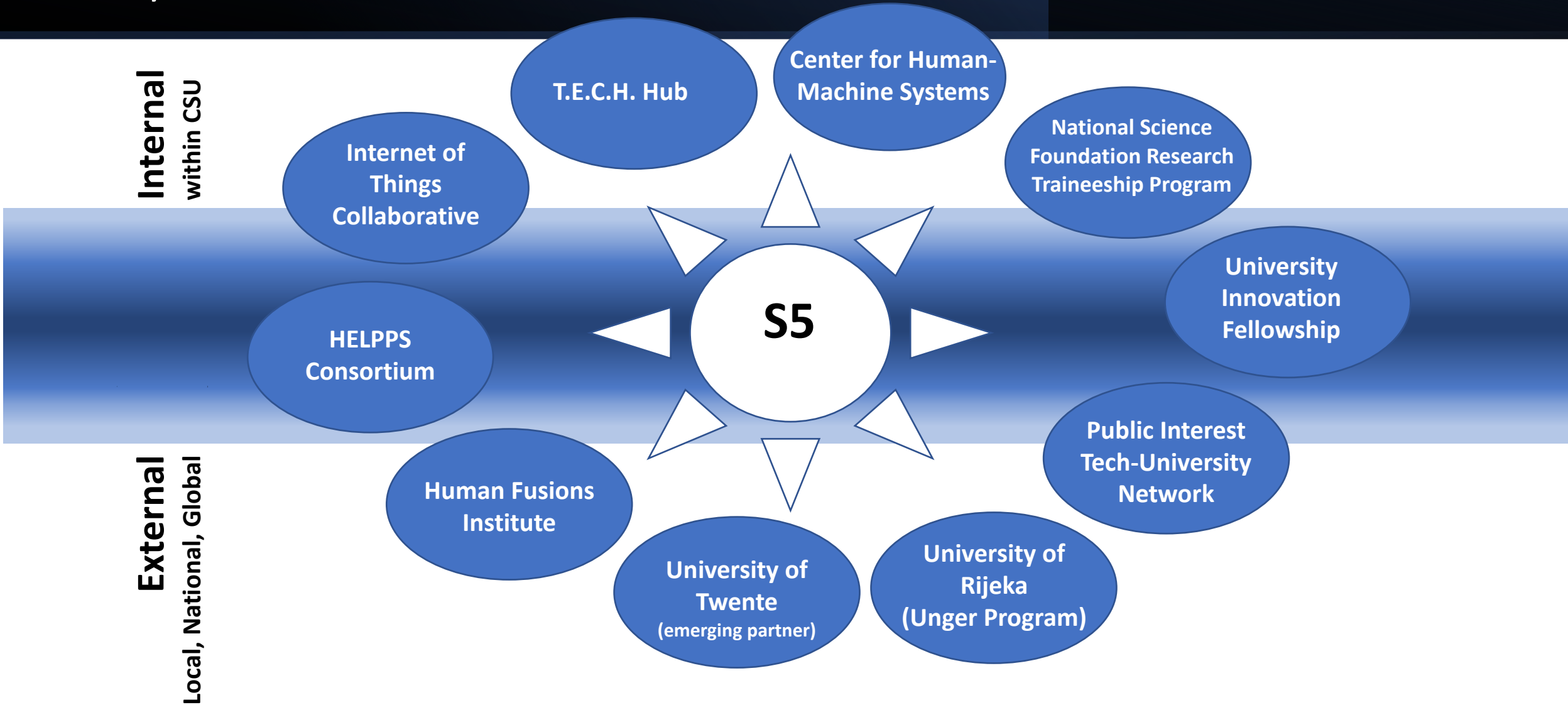
Human Fusions Institute

University of Twente
(emerging partner)

University of Rijeka
(Unger Program)

Public Interest Tech-University Network

S5



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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Research Centers
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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