MIT-Singapore Symposium on Embodied and Scalable AI

Jinhua Zhao

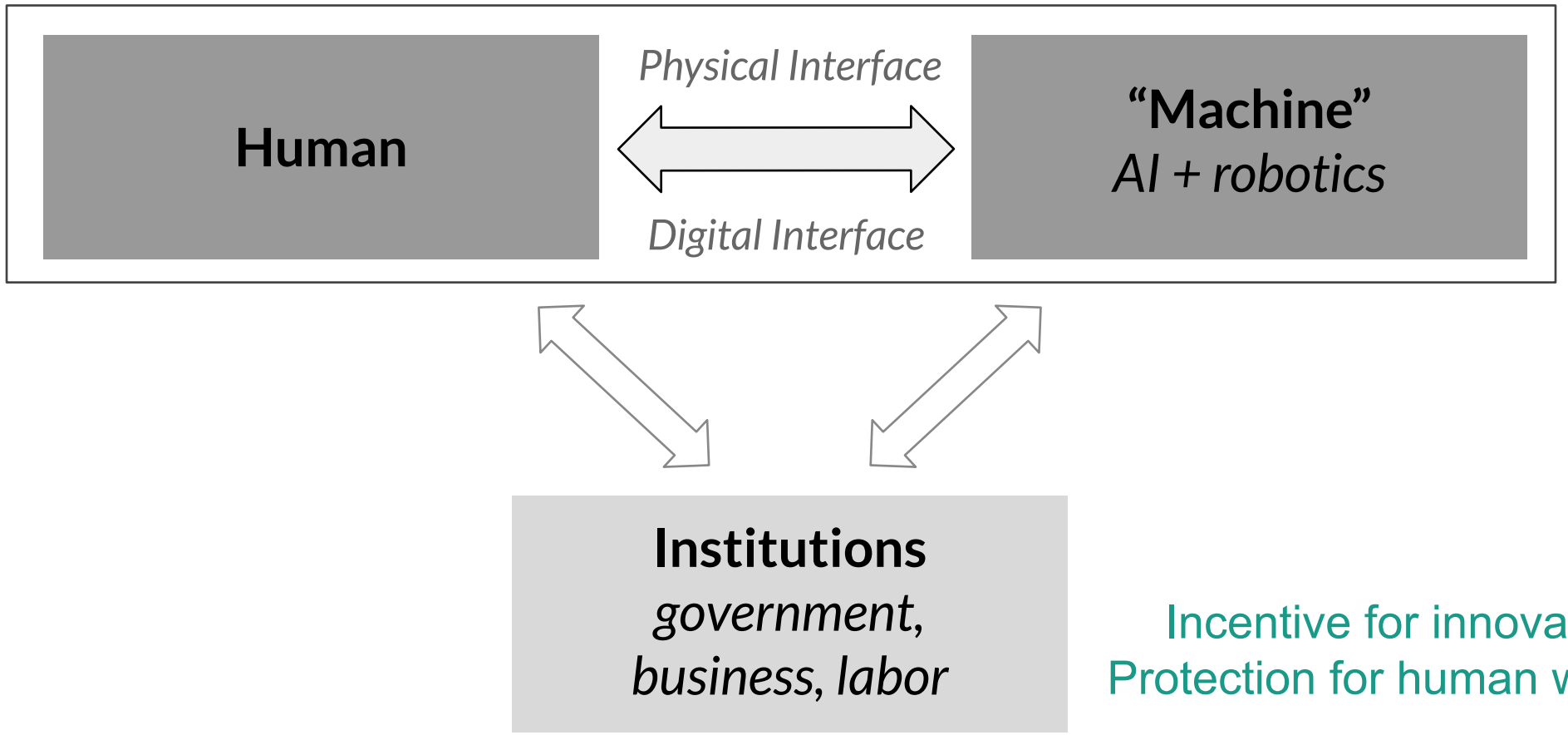
Professor of Cities and Transportation, MIT

Monday, July 28, 2025

Mens, Manus and Machina (M3S)

Enhance human capability
Team with machines

Improve the machine:
intention and collaboration



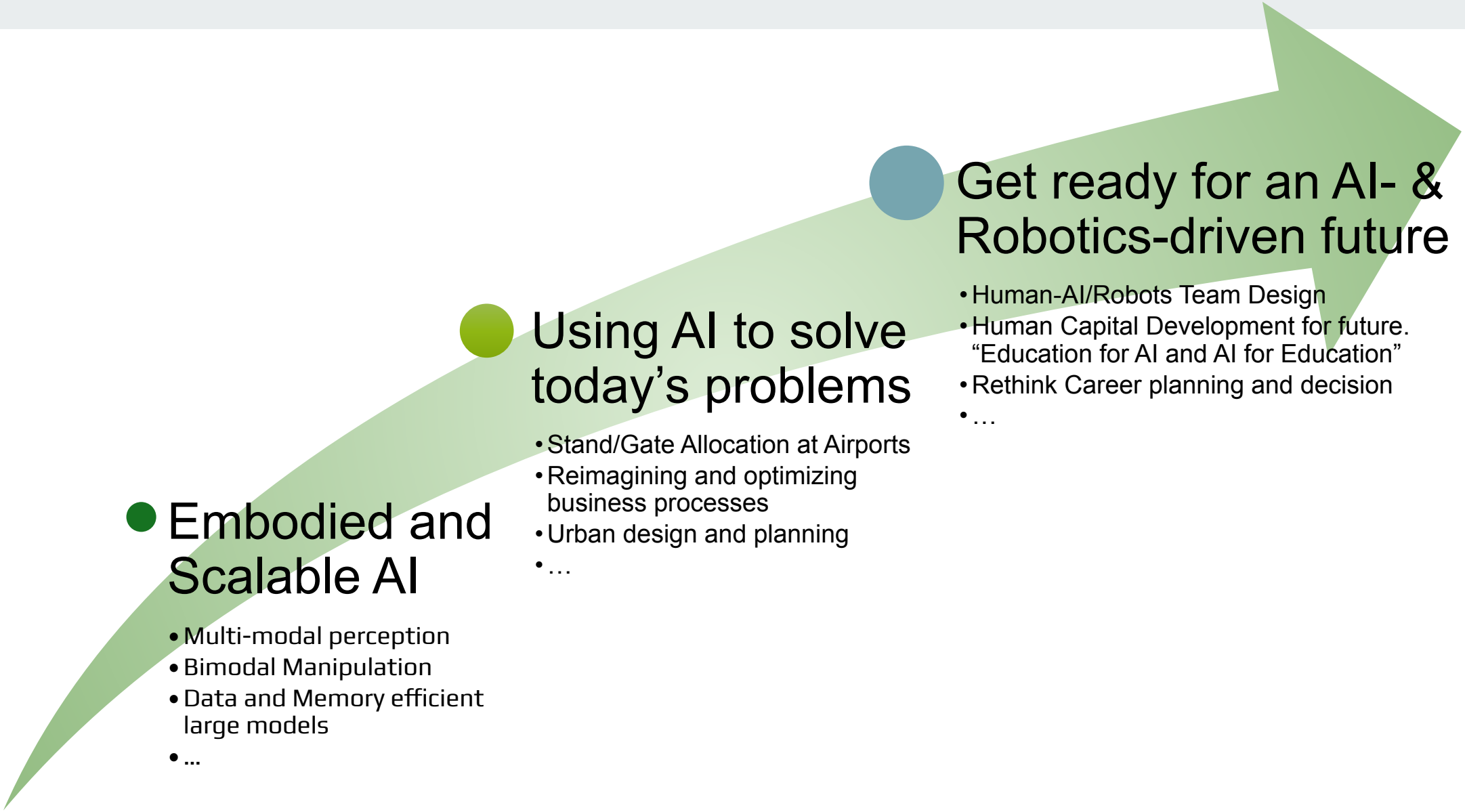
Incentive for innovation
Protection for human welfare

Mens, Manus and Machina (M3S)

How AI Empowers People, Institutions and the City in Singapore

1. How will we design technology and train humans to build the skills and habits for human success in a AI and robotics-heavy environment?
2. How will we adapt our social and business institutions to create the incentives and protections for innovation and human welfare?

Mens, Manus and Machina (M3S): Evolving Vision



Why Embodiment in AI?

#1: Two way process

1. AI enables robotics
2. Embodiment deepens AI

#2

Embodiment as a scientific instrument

#3

Embodiment brings A.I. closer to humans

PROJECT TEAMS

LEAD PIs

Zhao Jinhua
Lead Principal Investigator

Daniela Rus
Co-Lead Principal Investigator

Archan Misra
Co-Lead Principal Investigator

M3S Management

Kakali Basak

Alok Prakash

Jackson Thong

Principal Investigators

T1 Towards an Immersive Workplace

Sanjay Sarma

Archan Misra

Zhao Jinhua

Daniela Rus

Andres Salazar

T2 Intuitive Interfaces between Humans and Machines

Daniela Rus

Marcelo Ang

Cecilia Laschi

Carlo Ratti

Fabio Duarte

T3 Resource Efficient Machine Learning: Towards Sustainable AI

Daniela Rus

Bryan Low

Alex 'Sandy' Pentland

Armando Solar-Lezama

T4 AI for Human Capital Development in Future of Work

Zhao Jinhua

Archan Misra

Alex 'Sandy' Pentland

Wang Shenhao

Andres Salazar

T5 Integrated Human-Machine Intelligence for Economic Growth

Alex 'Sandy' Pentland

Simon Chesterman

Zhao Jinhua

Zheng Siqi

Wang Shenhao

T6 Designing Human-AI Teams

Thomas Malone

Marcelo Ang

Bryan Low

Daniela Rus

Sanjay Sarma

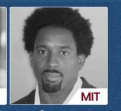
T7 Human-Machine Dynamics in Task Allocation

Zhao Jinhua

Hai Wang

Hamsa Balakrishnan

Amedeo Odoni



Jason Jackson

M3S Researchers

Ila Gokarn

Dulanga Weerakoon

Dulaj Weerakoon

Dharshana Rathnayake

Do Van Minh

Alexandre Urpi

Hemanth Sabbella

Luis Hernandez

Cheng Yanchun

Tang Zhiqiang

Nikalas Hagemann

Dongen Li

Wang Haozhe

Wang Peiyi

Wong Zhi Cong

Zhaoxuan Wu

Arun Verma

Zhou Zijian

Noel Loo

Qiao Rui

Zheng Yunhan

Junyi Li

Teresa Yeo

Xinyu Chen

Dingyi Zhuang

Yuebing Liang

Ambra Amico

Baoshen Guo

Kailai Sun

Tobin South

Robert Mahari

Donghang Li

Sun Shuo

Soe Min Thant

Dicle Uzunyayla

Robert Laubacher

Steven Rick

Iman YeckehZaare

Vicky Charisi

Dingtong Yang

Liu Yubin

Sohyeong Kim

Scientific Advisory Committee

Edmund Lin
SAC Chair, Chairman of Southeast Asia Bain & Co.

Quek Tong Boon
Chief Executive, National Robotics Programme

Gaurav Sukhatme
Professor at the University of Southern California

Tan Kok Yam
Chief Executive, Skills Future Singapore

Frank Pasquale
Professor at Cornell Tech and Cornell Law School