

APAIE 2024



PERTH, AUSTRALIA 4-8 MARCH 2024

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Collaborating for sustainable impact: partnerships across the Asia Pacific

APAIE Perth 4 - 8 March 2024

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Session 11F: Weds 6th March, 16:15 – 17:00

Unleashing the Potential of Partnerships for Achieving Sustainable Goals

Min Li
Zhejiang University, China

Hanh Bui
VinUniversity, Vietnam

Amanda Sayan
University of Sydney, Australia

Chair
Min Li
Zhejiang University, China

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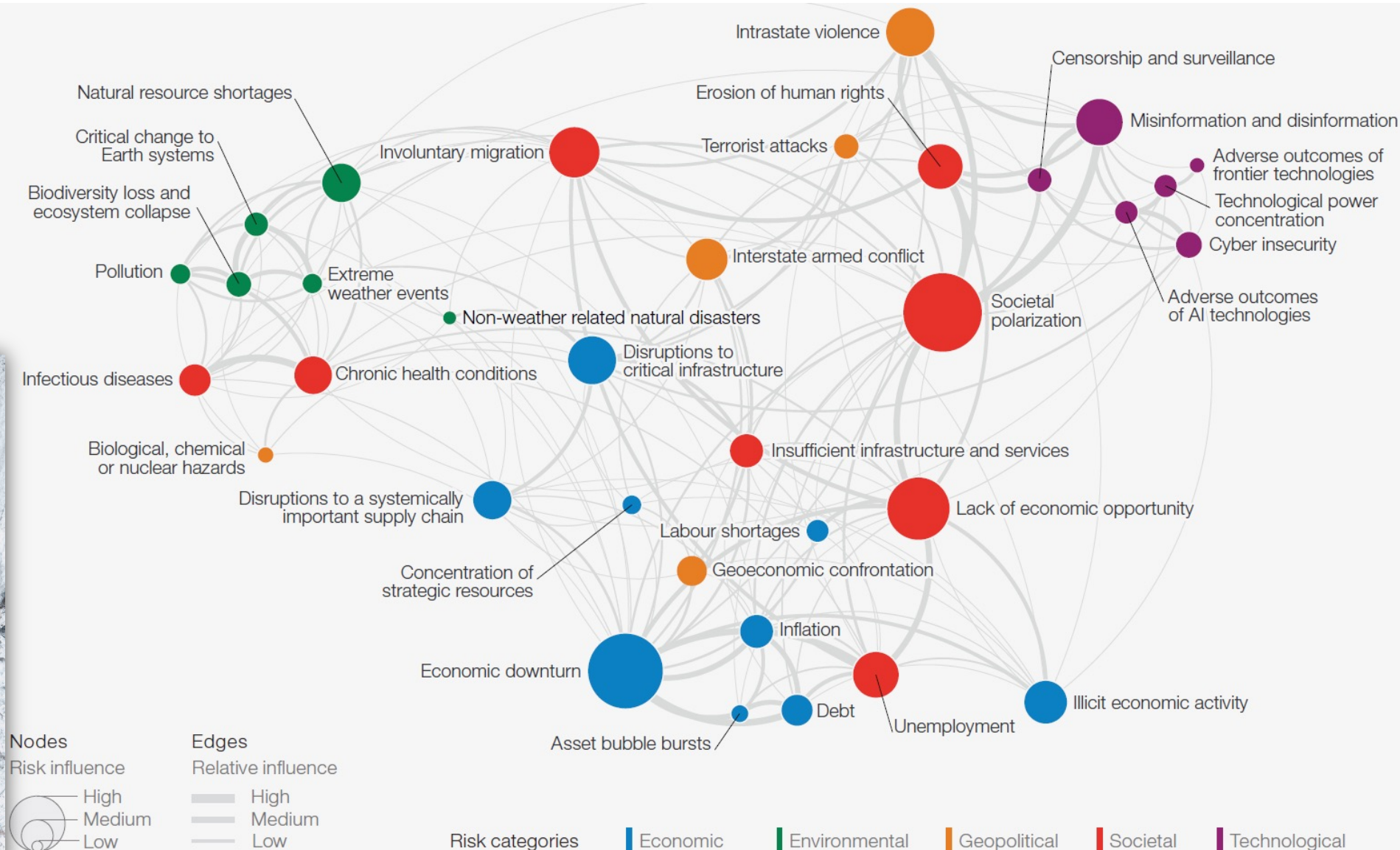
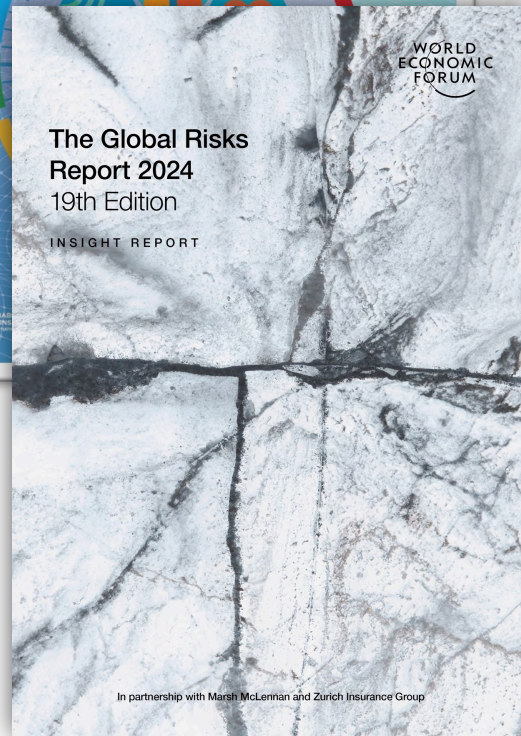


浙江大學
ZHEJIANG UNIVERSITY

Multilateral Multi-stakeholder Engagement: Thoughts & Practices

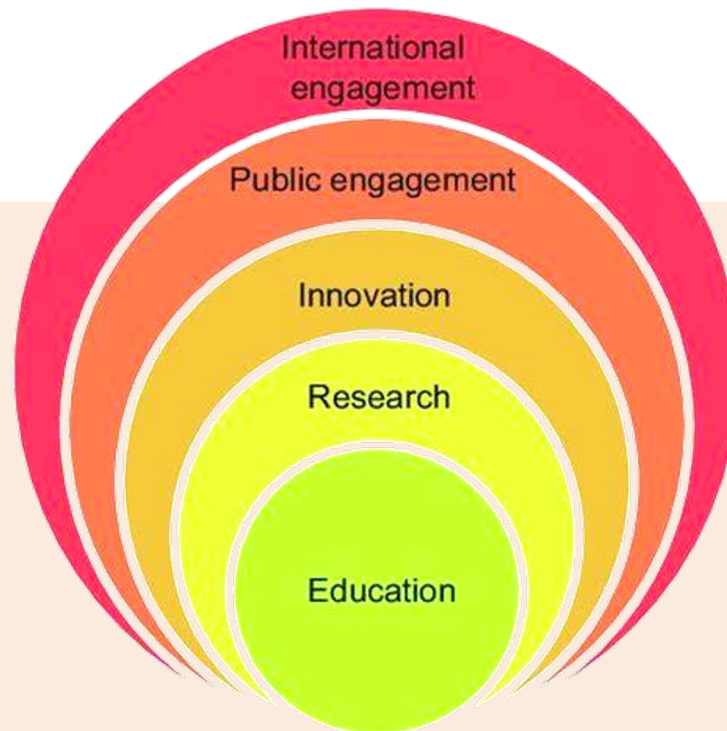
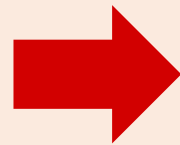
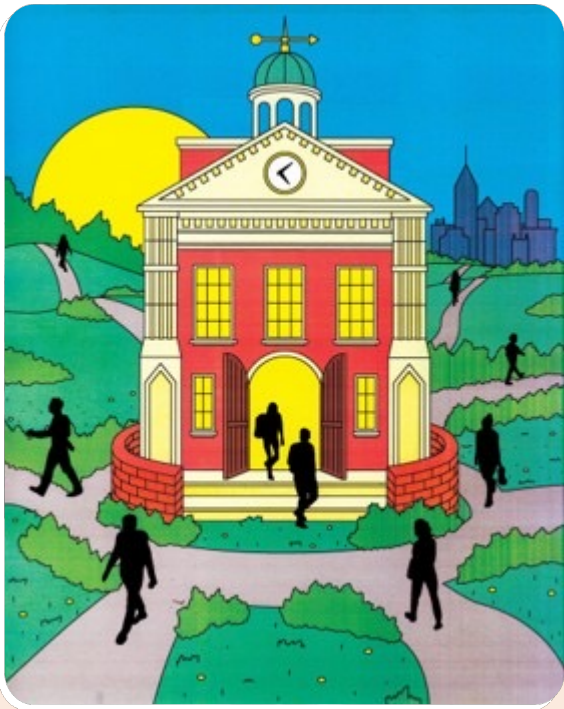
Prof. Min Li
Director, Office of Global Engagement
Dean, International College
Zhejiang University
minli@zju.edu.cn

Interconnected challenges call for collective actions

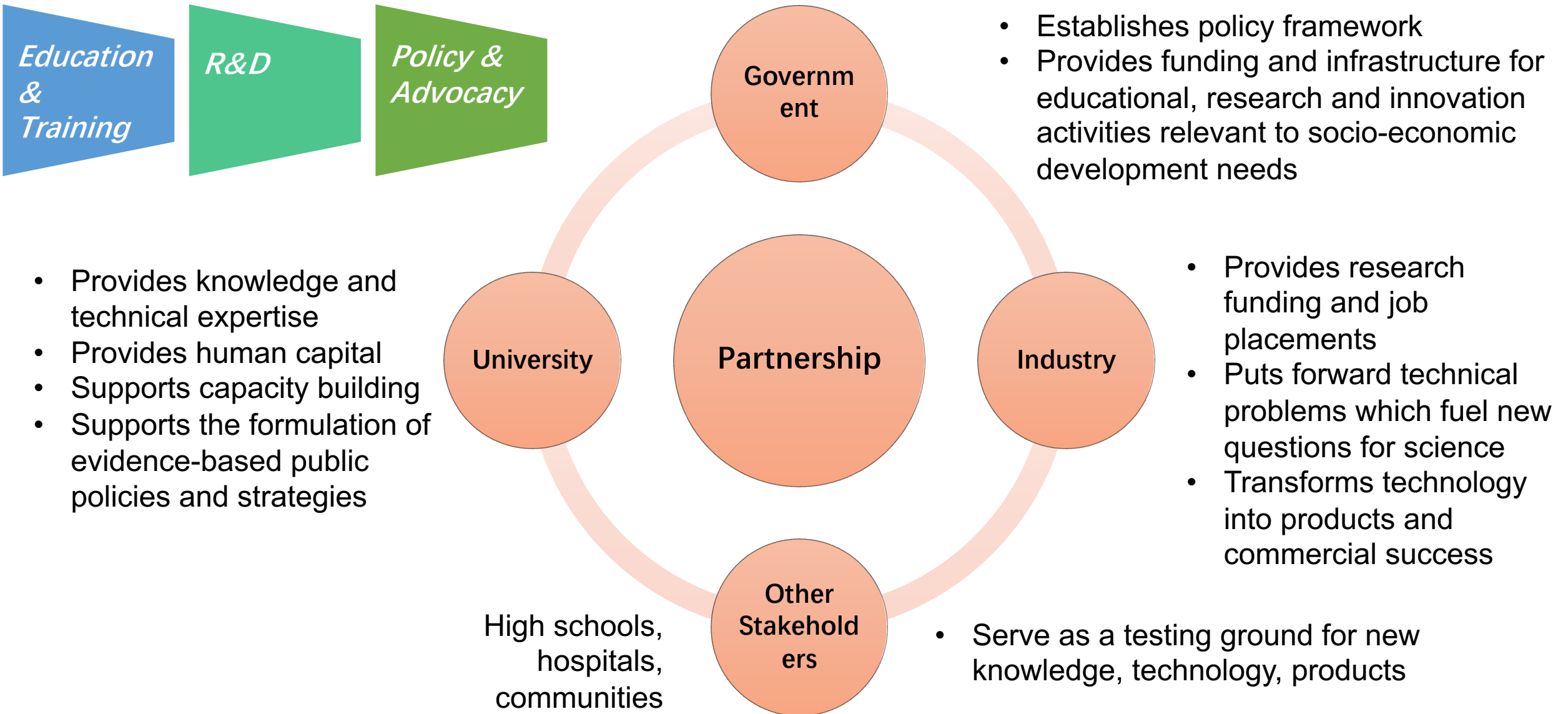


University as increasingly important stakeholder

- Universities are not ivory towers. Their role has extended beyond traditional academic pursuits to help address societal needs by leveraging their expertise, resources and networks in collaboration with external stakeholders.



Engagement among stakeholders



Strategies and initiatives

Global Strategy 2030

- Advance a broad range of meaningful global partnerships and networks
- New focus on multilateral/multi-stakeholder cooperation

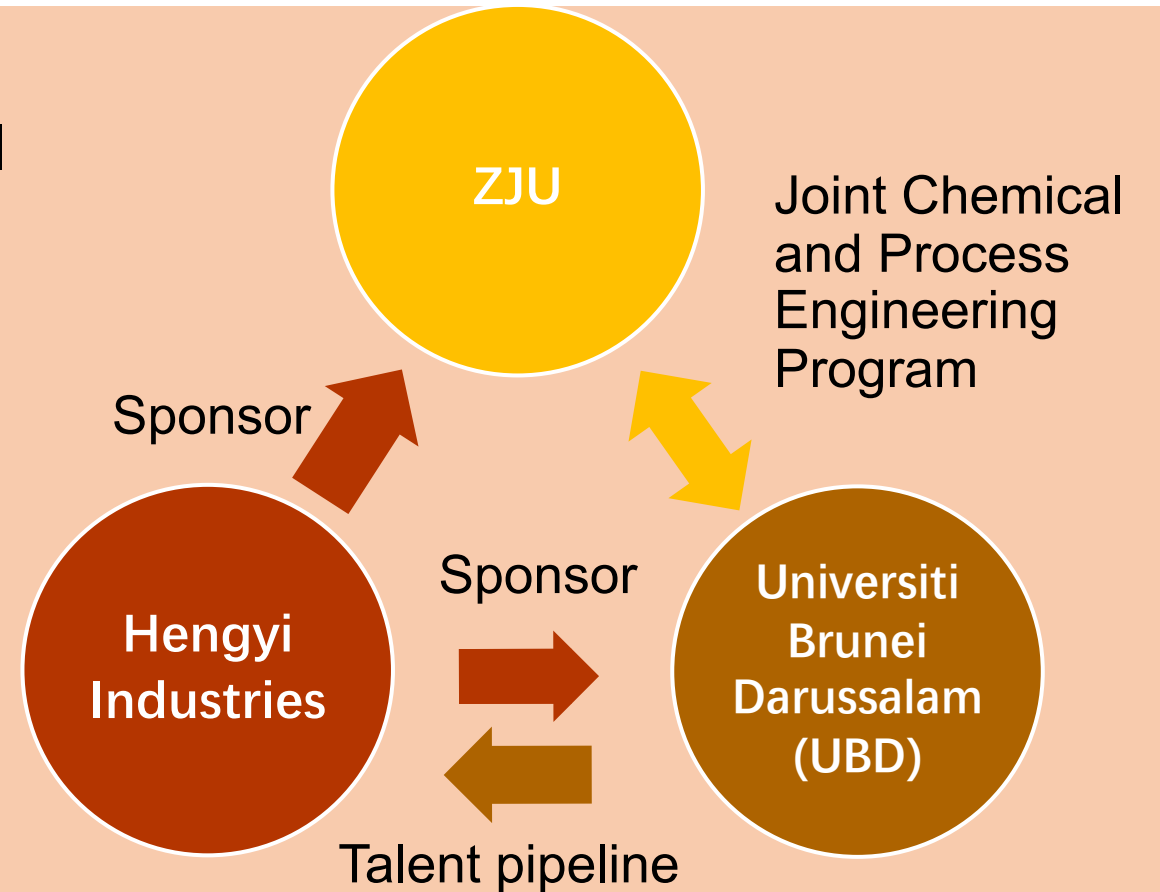
Sustainability Action Plan: A Global ZJU for Social Good (Z4G)

- Partnering for Collective Well-Being



ZJU-UBD-Hengyi joint chemical and process engineering program

A tailored training program underpinned by a U-U-C trilateral model for quality education and decent work



Graduates with professional skills and knowledge of Chinese language and culture

ZJU-UBD-Hengyi joint chemical and process engineering program

- 200~ students admitted from UBD.
- 100+ already joining the Hengyi Industries in Brunei.

The program contributes to:

- Quality education
- Job opportunities
- Localization of Chinese enterprises
- Cultural understanding



ZJU's poverty alleviation practices in southwest China

Creating a productive model that addresses the unique challenges facing rural communities.



“One of the global best poverty reduction practices”

- Jingdong lifted out of poverty with an average annual growth rate of per capita GDP of 12.8% (2012-2021)



The program contributes to:

- Poverty alleviation and long-term economic growth of local communities
- Quality education for local students
- Learning to be socially responsible citizens.

Queen's & Université Joseph Ki-Zerbo

Global Partnerships for Local Solutions



Queen's & Université Joseph Ki-Zerbo



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Unleashing the Potential of Partnerships for Achieving Sustainable Goals

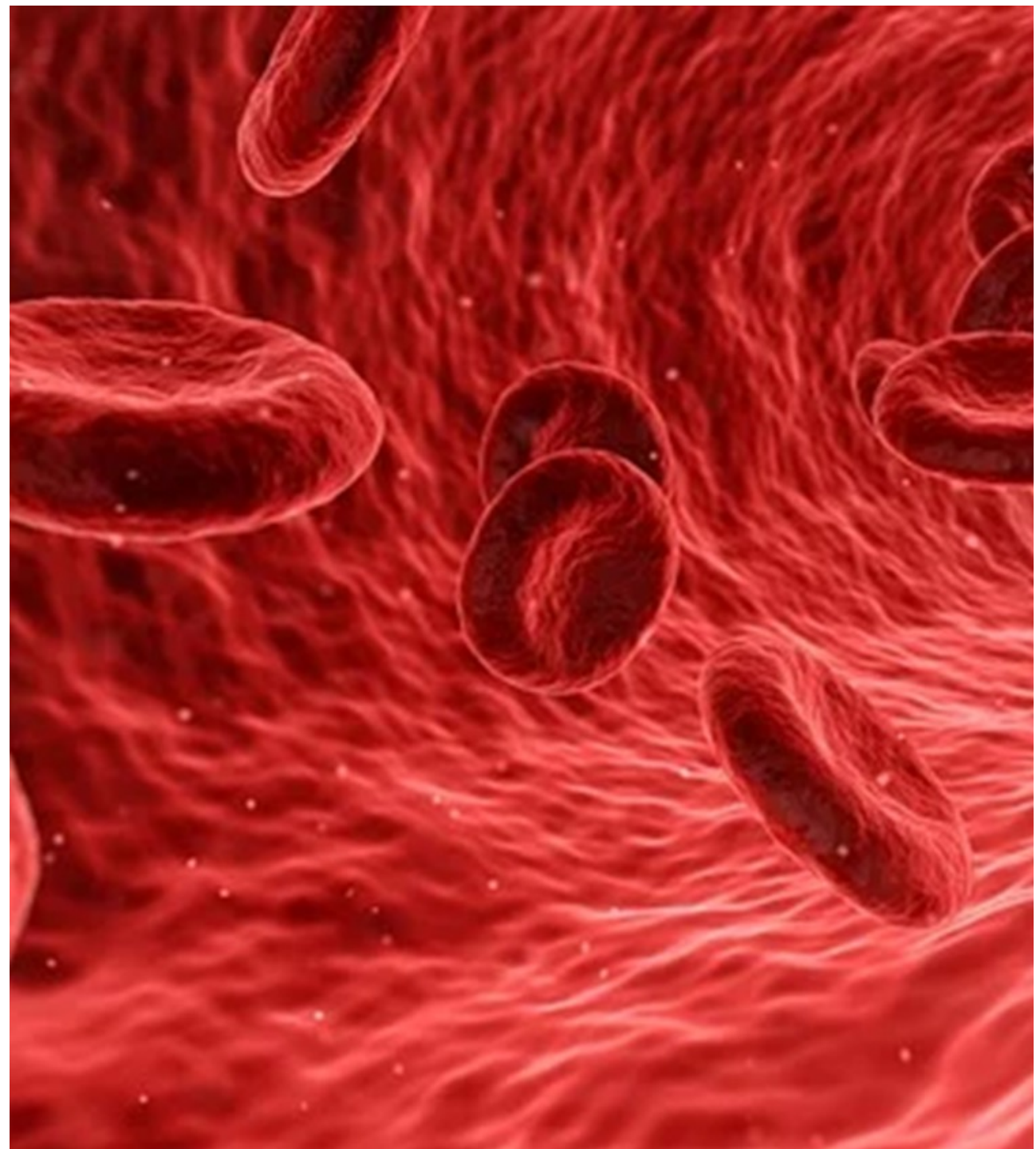
Amanda Sayan, Director Global & Research Engagement



THE UNIVERSITY OF
SYDNEY

Sydney 2032 strategy

Leverage our
comprehensiveness and
partnerships to drive
multidisciplinary problem
solving



The value of international partnerships

Scholarly Output	International publications 2020 – 2023 (percentage of total)	Citations per publication (all partners)	Citations per publication (with Australian partners)	Citations per publication (with international partners)
University of Sydney	29,164 (56.0%)	12.5	7.0	17.1
All Australian universities	269,923 (60.4%)	11.0	6.7	13.9

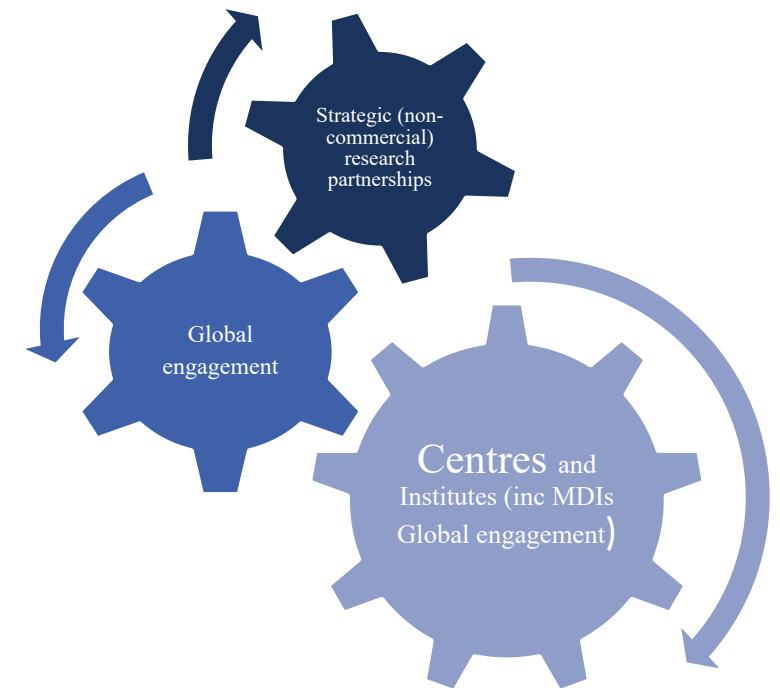
Source: scival.com
March 2024

Research Ecosystem

To align with the new 2032 strategy, from 2023 onwards the University aims to build **strong research ecosystem** that contributes to **tackling global challenges** and **Sustainable Development Goals**.

We will partner with

- **individual researchers,**
- **strategic partners**
- **university networks i.e APRU, U21**
- **research centres & multidisciplinary institutes,**
- **industry partners,**
- **government,**
- **funding bodies** and many more partners to align our research priorities with the SDG agenda



University of Sydney strategic global partnerships

The Americas



Cornell University
University of California, Davis
University of California, San Diego
University of Toronto

Europe



Sorbonne University
University College London
University of Edinburgh
University of Glasgow
Heidelberg University

Asia

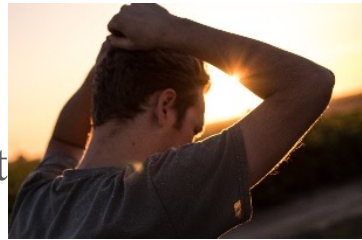


Chinese University of Hong Kong
University of Hong Kong
Fudan University
Shanghai Jiao Tong
Zhejiang University
Yonsei University
National University of Singapore
National Taiwan University
Indian Institute of Technology,
Madras

Our multidisciplinary institutes

Brain and Mind Centre

brings patients, support groups, carers, scientists, clinicians together to address mental health & neurological diseases



Charles Perkins Centre

addresses lifestyle diseases to find solutions that will inform and reform human health



Sydney Policy Lab

creates unique collaborations for lasting policy change



Sydney Environment Institute

extends and amplifies the scope of engagement on environmental issues



Sydney Nano Institute

takes nanoscience to new levels combining multidisciplinary expertise & purpose-built facilities



Sydney Southeast Asia Centre

supports research, education & Partnerships on critical real-world Southeast Asia issues



Supporting SDG collaborations through internal grants

Ignition grants



- **Reciprocal** seed funding to facilitate and support joint initiatives with priority partners
- Teams which include PhD or masters by research students, postdocs, early- and mid-career researchers, and researchers on Sabbatical Leave
- **Multidisciplinary**
- Sustainable projects – i.e., **able to leverage external funding**
- Projects address **SDGs**

Compact agreements



- Develop **multi-year contract** between our global partners and our multidisciplinary institutes for academic staff to **engage in collaborative research** on nominated SDGs i.e. climate action etc
- Further funding is dependent on meeting milestones
- Funding criteria includes **leveraging external funding** above 250,000

Supporting SDG collaborations through internal grants

SDG Collaboration awards



- **Funding** of 150,000 per project to facilitate and support collaborative initiatives that develop multi-disciplinary research which addresses the SDGs
- Preference is for international partners which are **University strategic partner universities or network partners.**
- **Multidisciplinary**
- Sustainable projects – i.e., **able to leverage external funding**
- Successful USyd teams are expected to **submit external grant applications** (to the value of AUD 300,000) within 18 months.
- Projects must address **SDGs and teams are encouraged to use the impact tracker**

Tripartite agreement – Fudan & University of Hong Kong

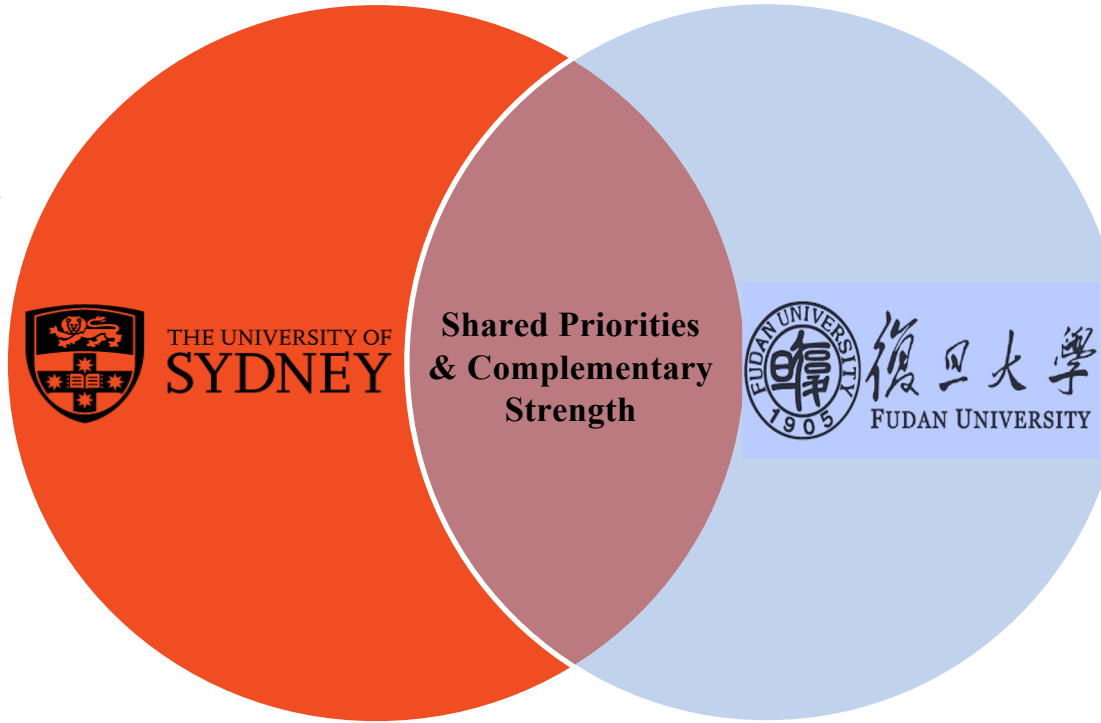
- Signed our **first tripartite agreement** focussed on the SDGs
- **Sustainability and carbon neutrality initiatives** in the Asia Pacific Region
- Establish a **joint research hub** on sustainability and neutrality initiatives
- **Developing** university wide carbon neutrality targets in advancing research and educational programs in the Asia Pacific Region



Shared Priorities & Complementary Strength

Multidisciplinary collaboration

Brain and Mind Centre
Charles Perkins Centre
Matilda Centre
Faculty of Medicine and Health
Faculty of Engineering
Faculty of Science



Multidisciplinary collaborations

Institute of Science and Technology
for Brain-Inspired Intelligence
Zhangjiang International Imaging
Centre
Huashan Hospital
School of Life Science
School of Basic Medical Sciences

Research
Themes

Computational Neuroscience
& Neuroimaging

Cognitive Neuroscience &
Brain Disorders

Digital Healthcare

Indian Institute of Technology, Madras partnership

- Sydney and IIT Madras have signed a strategic partnership under the broad theme of ‘**Energy**’
- Both Institutions committed **50,000 a year** over 3 years to seed fund projects.
- The Consortium will be a **research hub** for researchers conducting collaborative projects in fields related to energy
 - Facilitate academic mobility with an emphasis on HDR students and early career researchers
 - Facilitate joint conferences, meetings, and/or workshops on the Research Themes.
 - Facilitate participation to **large research funding calls**
 - Facilitate a **visiting Fellowship** program
 - Identify complementarity of labs, develop sister labs
- **Next steps**
 - Joint Ph.D. agreement
 - Virtual research centre on ‘Energy’



Amanda Sayan

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<https://www.sydney.edu.au/engage/global-engagement.html>



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VINUNIVERSITY

University of Excellence

VINUNIVERSITY

Unleashing the Potential of Partnerships for Achieving Sustainable Goals

Hanh Bui

Director of Academic Engagement and Global Exchange

VinUniversity

The Vingroup Ecosystem



Technology & Industry



Real Estate & Services



Social Enterprises



Established in 2020, VinUniversity - the first private, not-for-profit Vietnamese university- is built according to international standards, incorporating the finest models of global higher education. Its objective is to create a breakthrough in the quality of higher education in Vietnam and achieve global recognition within 10 years of its establishment.



Our Vision



Our Mission

The mission of VinUniversity is to develop talents for the future.



University of **excellence**, developing talents for the future



Core value

International Academic Partners and Collaborators

United States



Switzerland



Spain



Netherlands



France



Italy



Australia



Hong Kong



South Korea



Germany



Israel



United Kingdom



Singapore



Malaysia



Japan



South Africa



Portugal





VinUni Strategic Development towards Achieving SDGs

- Pioneering in Impactful Research and Innovation: promoting impactful research and innovation at all colleges and centers
- Implementing projects that positively impact the community and society, aligned with the 17 SDGs



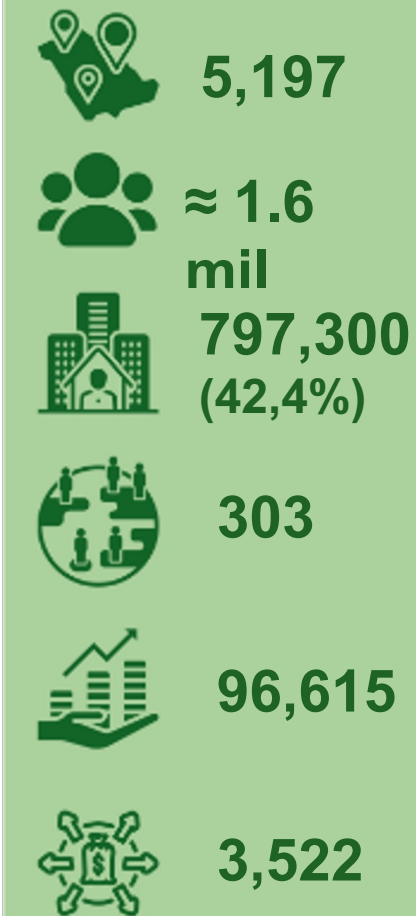
Partnerships towards Achieving Sustainable Goals in Action

- 1. Transformation, Green Growth for Nha Trang City and Khanh Hoa Province**
- 2. Projects of Center for Environmental Environment Intelligence**

Green Transformation, Green Growth for Nha Trang City and Khanh Hoa Province



Overview of Khanh Hoa Province



Natural area (km²)

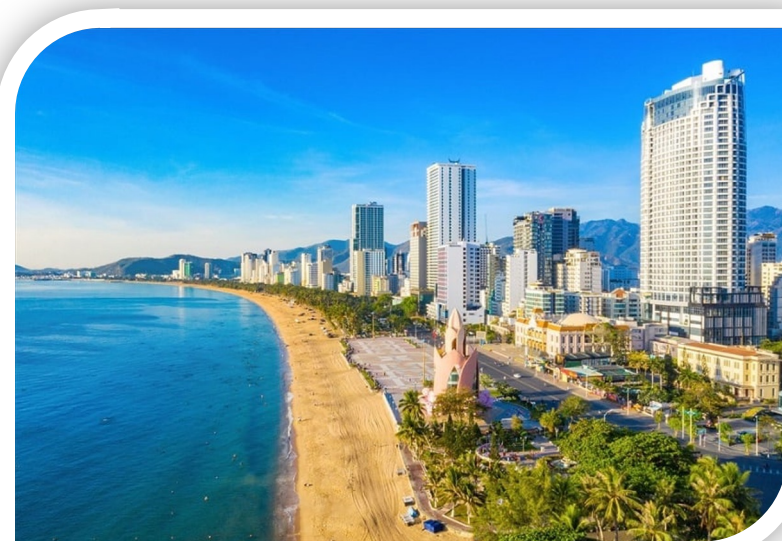
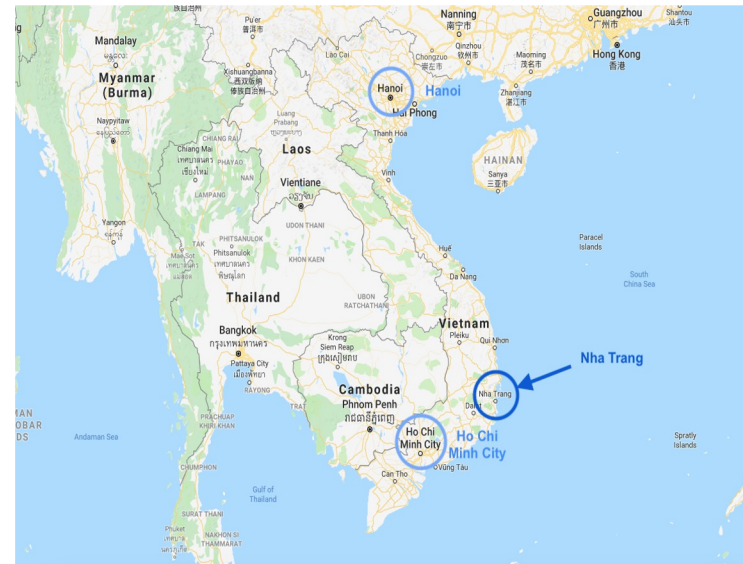
Population

Urban population
(% of total population)

Population density
(people/km²)

Total budget revenue (billion VND)

GDP/ capita of Khanh Hoa Province (USD)





Green Growth, Green Transformation Nha Trang – Khanh Hoa Vision 2030

Objective:

VinUni to provide advice and support for Nha Trang – Khanh Hoa's transformation into a green, modern, and sustainable urban development—a city that offers a high quality of life and a conducive environment for both living and working for people.

Partnership between University – Industry – Local Authority:

VinUni – Experts from Oxford, UPenn, Duke, UC Berkeley - Companies from Vingroup ecosystem – Provincial Authority

PROJECT **TEAM** - UNIVERSITIES



Dr. Le Mai Lan

Vice Chairwoman of
Vingroup, President of
VinUniversity



**Prof. Soumitra
Dutta**

Peter Moores Dean of
Saïd Business School,
University of Oxford



**Prof. David
Reibstein**

Professor in Marketing,
Wharton School,
University of Pennsylvania



**Prof. Edmund
Malesky**

Director of the Duke Center for
International Development,
Duke University



**Prof. Alexandre
Bayen**

Associate Provost for Moffett
Field Program Development, UC
Berkeley



Prof. Laurent El Ghaoui

Vice Provost, Dean of College of
Engineering & Computer Science,
Scientific Director of Center
for Environmental Intelligence,
VinUniversity



Prof. John Evans

Dean of College of
Business & Management,
VinUniversity



**Assoc. Prof. Phan T. Thuc
Anh**

Director of Agile and Innovation Center,
VinUniversity



Dr. Phung T. Viet Bac

Head of Research Administration
cum Executive Director of Center
for Environmental Intelligence,
VinUniversity



Dr. Pham Huy Hieu

Assistant Professor, College of
Engineering and Computer Science,
Scientific Director, Entrepreneurship
Lab, VinUniversity

CENTER FOR ENVIRONMENTAL INTELLIGENCE AT VINUNI



Mission: Promote urban and rural development in harmony with environmental and public health protection, through technology integration and social co-design

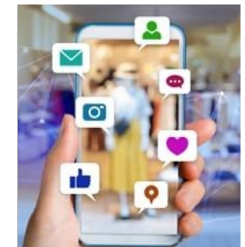
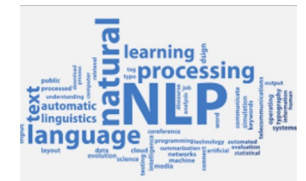
KEY TECHNOLOGY BLOCKS:

NATURAL LANGUAGE PROCESSING

SATELLITE IMAGE ANALYSIS

AERIAL DRONE SURVEYS

**OPTIMIZATION, RESOURCE ALLOCATION,
SYSTEM INTEGRATION**




Website: <https://cei.vinuni.edu.vn/> Email: cei@vinuni.edu.vn

THEME 1: ENVIRONMENTAL MONITORING

NLP

NLP

NLP



Extreme events monitoring & response



360° Air Quality Analysis


NLP

NLP

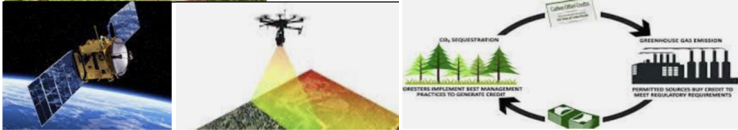




Curating knowledge from indigenous / rural communities



Carbon stock & biodiversity analysis



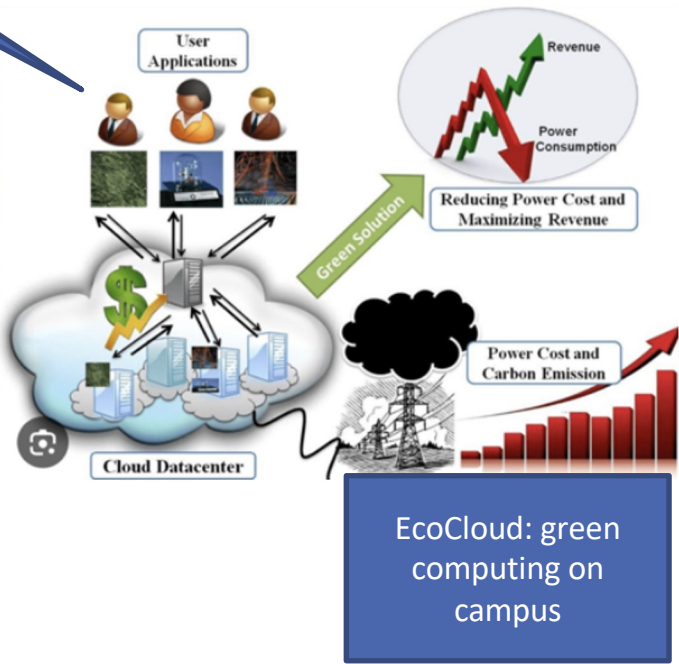
THEME 2: ENVIRONMENTAL LIVING LAB ON VINUNI CAMPUS



Cam Ranh Smart Green Ocean City
To be built by Vingroup
Located on the coast near Nha Trang
325ha, 500K inhabitants
SD, low-carbon town goals



NLP



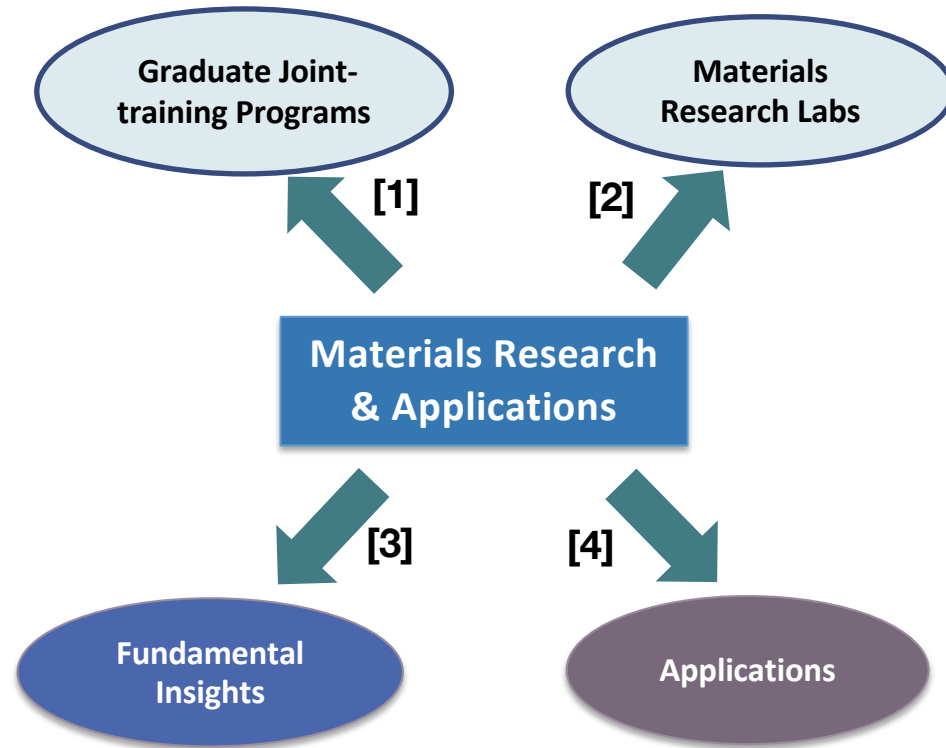
NLP

Smart Charging of EVs

A composite image for 'Smart Charging of EVs'. It includes a photograph of a blue car at a charging station, a schematic diagram of a power system showing the flow from 'Grid' and 'Solar Power' through 'AC Bus', 'DC Bus', and 'Chargers' to 'Lighting' and 'Batteries', and a line graph showing 'Average frequency and power in the transmission power system'.

THEME 3: AI-POWERED DISCOVERY OF NEW MATERIALS

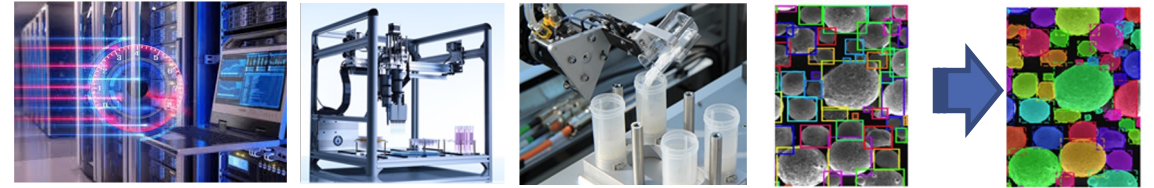
General Framework



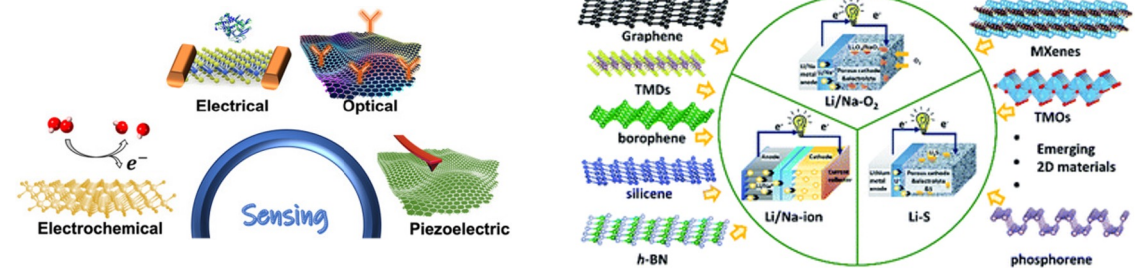
Specific aims: Advanced Materials for Sustainability

[1] Joint-training Programs in Machine Learning, AI, and Data Driven Materials Development and Design

[2] High Performance Computer Systems and Materials Experiments Laboratory Automation, High-throughput Robotic Synthesis



[3] Fundamental Insights



[4] Applications



Partners

Core partners



Other partners



Vietnamese partners



- Local governments
- Communities

Industry partners



Funding Mechanism

- \$12.5M over five years from Vingroup
- \$3.6M over 4 years from IBM-UIUC center
- Part of a large \$48M USAID proposal (~\$2.8M over 3 years)

Thank you!



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