Yokohama City University

(University Functions to be Enhanced: 1. Boost academic excellence in specific areas of the university's strength, 2. Generate innovation than can help solve global issues and advance societal reform, 3. Take a lead in resolving regional issues through collaboration with regional communities.)

Participators: Kanagawa University; Kanagawa University Human Services; Kanto Gakuin University; Keio Research Institute at SFC, Keio University; Graduate School of Media Design, Keio University; Research Center for Advanced Science and Technology, The University of Tokyo, Central Institute for Experimental Medicine and Life Science; Institute of SCIENCE TOKYO; Asia Health Policy & Education Center, Stanford University; Faculty of Social Science, Ruhr University Bochum University

Summary

University Vision for the Next Decade

To establish the "Yokohama Data Cycle," a system that accelerates co-creation and realizes a high level of health and well-being in future societies.

Diversity and Excellence

Organizational Enhancement to Strategically Accelerate Outstanding Research in the Field of Health and Well-being

Target 1: Research
● Strengthen the Research Capabilities of the COI-NEXT Center
● Establish a Research Capability Evaluation Organization and Promote Innovative Interdisciplinary Research
● Promote International Collaboration to Strengthen Outstanding Research
● Establish and Operate an AI and Data Hub While Developing a Skilled Workforce

Action Plan 1
Accelerate Research and Development at Strategic Research Hubs

Action Plan 2
Establish a Research Capability Evaluation Organization and Promote Interdisciplinary Research Led by Distinguished Faculty

Action Plan 3
Strengthen International Research Capabilities through Collaboration with Leading Global Institutions

Action Plan 4
Build Scientific Evidence for Regional Issues through Data-Driven Approaches

Action Plan 9
Secure Research Time and Enhance the Research Environment

Research Priorities and Structure

- Global Well-Being Research Unit
- Promote Innovative Interdisciplinary Research
- Research Capability Evaluation Organization
- International Research Board

Provide Scientific Evidence through Integrative Research across the Humanities, Sciences, and Medicine

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Social Implementation and Innovation

Fostering Innovation that Connects Academic Research with Solutions to Societal Agendas

Target 2: Development
● Acquire data through collaboration among industry, academia, government, and civil society
● Extract Research Seeds and Enhance Social Implementation
● Strengthen collaboration among industry, academia, government, and civil society for Regional Revitalization

Action Plan 5
Establish an Extensive Demonstration Field by Enhancing Clinical Research Networks

Action Plan 6
Establish a Next-Generation Co-Creation Hub by Strengthening Industry–Academia–Government Collaboration and Aggregating On-Campus Research Seeds

Development: Social Implementation and Innovation

Open Innovation Lab

横浜市立大学 共創イノベーションセンター YCU CO-CREATION INNOVATION CENTER
横浜市立大学附属病院 Y-NEXT 次世代臨床研究センター YCU Center for Novel and Exploratory Clinical Trials

3rd Floor: Space for Cutting-Edge Research
2nd Floor: Space for Industry-Academia Collaboration
1st Floor: Space for Social Implementation

Solution Development Based on Scientific Evidence

Inter-University Consortium

Develop 開発
AI・データハブ AI
Research 研究
Implement 実装
共創を加速する よこはまデータサイクル

Yokohama Clinical Research Network

Social implementation in collaboration with local governments and engaged citizens

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Solving Regional Challenges

Fostering a Knowledge-Driven Society through Cross-Sector Collaboration among Industry, Academia, Government, and Civil Society

Target 3: Implementation
● Foster Entrepreneurship Education
● Foster and Strengthen University-Based Startup Support
● Develop a Citizen Science Platform

Action Plan 7
Integrate Entrepreneurship Education and Support University-Based Startups

Action Plan 8
Promote Social Implementation through the Development of a Citizen Science Platform

Implementation: Solving Regional Challenges

- Citizen Science Platform
- City of Yokohama
- Comprehensive Partnership Agreement with the City of Yokohama on Data Utilization
- Support Hub for the Growth of Technology-Based Startups

Social Agendas Collaborated with the City of Yokohama
・Youth Mental Health (Longitudinal Cohort Studies on Adolescents)
・Public Health Issues Centered on "Healthy Yokohama 21" (Yokohama Health Study)
・Challenges Faced by Child-Rearing Generations and Countermeasures Against Declining Birthrate(Hama Study)
・Shortage of Healthcare Service Delivery Systems

● We aim to become a leading regional university that contributes to enhancing health and well-being in future society, by advancing outstanding interdisciplinary research clusters that integrate the humanities, sciences, medicine, and nursing, and by accelerating university reforms under strong presidential leadership.

● The Yokohama Data Cycle will use AI and data hubs to create a sustainable cycle of research, development, and implementation, bringing societal reforms by driving innovation, generating value, and solving social challenges through broad collaboration.

Framework

Participating Institutions
Keio Research Institute at SFC
Keio University (KMD)

Participating Institutions
Kanto Gakuin University

Participating Institutions
Kanagawa University Human Services

Participating Institutions
Kanagawa University

Strengthening the Utilization of Research Outcomes through Intellectual Property and Promoting Societal Implementation

Public-Private Collaborative Research and Development in Epidemiological Studies in the Fields of Healthcare, Medicine, and Social Welfare

Hub function within an inter-university consortium, Integration of human sciences and medical research

Strategic Collaboration Clusters with Institutional Strengths

Development of Advanced Digital Content-including Metaverse and Virtual Reality through Strategic Collaboration with the Medical Research Sector

Clinical Research Network
- University-affiliated Hospitals
- Health Screening Centers
- Clinics

Participating Institutions
Tokyo University (RCAST)

Medical-Engineering Collaboration Utilizing VR, Augmented Reality, Wearable Devices, and Robotics Technologies

Proposing University Yokohama City University

戦略

Executive Board
- Chair, Board of Trustees
- President (Vice Chair, Board of Trustees)
- Vice President for Research

Identification, Assessment, and Resolution of Societal Challenges through Data Integration

Director, University Hospital (Board Member)

Vice President (Board Member; Medical Sciences and Global Studies Clusters)

Executive Director for Finance and Administration (Secretary-General)

Strategic Collaboration Clusters with Institutional Strengths

Participating Institutions
Stanford University (America)

Research Promotion Framework

Research Capability Evaluation Office

Research and Institutional Reform Promotion Council

Collaborating Industry Partners
- Drug Discovery & Healthcare
- Application Development
- Service Development

Collaborative Research and Program Development on Well-being and Mental Health in Europe, North America, and Asia

University Hospital

Undergraduate and Graduate Schools

Organizational Reform and Management Strategy Office Project Management Office(PMO)

Participating Institutions
Ruhr University Bochum(Jaman)

Yokohama City University Hospital

Clinical Research Center (Y-NEXT)

5 Undergraduate Schools and 6 Graduate Schools

Advanced Medical Research Center (Affiliated Institute)

Accelerating the Social Implementation of Research Outcomes through Industry-Academia-Government-Civic Collaboration

Center for Co-Creation and Innovation

横浜市立大学
Y共創イノベーションセンター
YCU CO-CREATION INNOVATION CENTER

YCU Medical Center

Kihara Institute for Biological Research (Affiliated Institute)

実行

AI & Data Hub

Strategic Collaboration Clusters with Institutional Strengths

Citizen Science Platform

Collaborative Research and Program Development on Well-being and Mental Health in Europe

Open Innovation Laboratory (to be completed in FY2025)

Facilitating Research through Regional Collaboration

International Partner Institutions

グローバルウェルビーイング研究ユニット

ヘルシンキ大学
VNU ハノイ国家大学
ジョンズ・ホプキンズ大学
RUB ボーフム大学
スタンフォード大学
RMIT ロイヤルメルボルン工科大学

City of Yokohama

Bureau of Children and Youth Affairs	Health and Social Welfare Bureau	Board of Education
Policy and Management Bureau	Economic Affairs Bureau	Medical Care Bureau

TECH HUB YOKOHAMA(Deep Tech Startup Growth Support Hub)

Participating Institutions
Central Institute for Experimental Medicine and Life Science

Participating Institutions
Institute of SCIENCE TOKYO

Advancing translational research based on insights from basic and clinical sciences

Social implementation of research outcomes through product development via Medical-Engineering collaboration

Extract societal issues from diverse field data and generate, select, and evaluate optimal solutions
Collaborate on industrial development and regional revitalization, with a focus on startup support

Toward Realizing the University's 10-Year Vision with Enhanced Research Capabilities

Target 1: Research

Organizational Enhancement to Strategically Accelerate Outstanding Research

Target 2: Development

Fostering Innovation that Connects Academic Research with Solutions to Societal Agendas

Target 3: Implementation

Fostering a Knowledge-Driven Society through Cross-Sector Collaboration among Industry, Academia, Government, and Civil Society

Action Plan 8	2025	2026	2027	2028	2029~ 2033
1 Accelerate Research and Development at Strategic Research Hubs	Strengthen the Research Capabilities of the COI-NEXT Center / ●Establishment of the Open Innovation Lab	●Collaboration with Academic Societies		●Pilot Certification System / ●Develop Indicators	
	Enhance the Research Capacity of the Advanced Medical Science Research Center (Disease Genomics, Neuropsychiatric Disorders, Behçet's Disease, Fatty Liver Disease, Proteomics)				
2 Establish a Research Capability Evaluation Organization and Promote Interdisciplinary Research Led by Distinguished Faculty	Promote a Research Capability Evaluation Organization / ●Establish a Research Capability Evaluation Organization	●Select Distinguished Faculty Members		● Tenure Review for Distinguished Faculty Members	
	Promote Interdisciplinary Research Led by Distinguished Faculty	●Initiate Innovative Interdisciplinary Research / ●Strengthen University Functions through Inter-University Collaboration		●Hold a Symposium on Outstanding Research	
3 Strengthen International Research Capabilities through Collaboration with Leading Global Institutions	Promote International Collaboration to Strengthen Outstanding Research / ●Sign MOUs with Overseas Universities	●Establish an International Research Board		●Launch of International Health and Wellbeing Cohort	
4 Build Scientific Evidence for Regional Issues through Data-Driven Approaches	Establish and Operate an AI and Data Hub / ●Recruit Data Scientists	●Establish an AI and Data Hub	●Launch an Educational Program on AI and Data Utilization		
	Develop Data Science Talent (Faculty and Students) / ●Provide Data Science Education for Faculty	●Increase the Number of Data Science Faculty	●Expansion of New Faculty of Data Science	●Complete of Data Science Training for 80% of the Faculty	
5 Establish an Extensive Demonstration Field by Enhancing Clinical Research Networks	Acquire regional data through collaboration among industry, academia, government, and civil society / ●Implement and Expand Cohort Studies	●Connect Research Data to the AI and Data Hub		●Attract Domestic and International Industry-Sponsored Clinical Trials	
6 Establish a Next-Generation Co-Creation Hub by Strengthening Industry–Academia–Government Collaboration and Aggregating On-Campus Research Seeds	Extract Research Seeds and Enhance Social Implementation / ●Extract Internal Research Seeds				
	Strengthen Industry-Academia-Government-Civil Collaboration for Regional Revitalization / ●Establish a Consortium of neighboring universities	●Provide Data Science Education for municipal staff and local businesses / ●Identify Regional issues in collaboration with the City of Yokohama			
7 Integrate Entrepreneurship Education and Support University-Based Startups	Provide Entrepreneurship Education	●Launch of the Acceleration Program			
	Foster University-Based Startups / ●Establish Incubation Facilities	●Launch a Joint Venture Fund			
8 Promote Social Implementation through the Development of a Citizen Science Platform	Develop a Citizen Science Platform / ●Establish a Regional Collaboration Center	●Develop a Citizen Science Platform			