

Osaka Metropolitan University (OMU) (University Functions to be Enhanced: 2. Generate innovation that can help solve global issues and advance societal reform, 3. Take a lead in resolving regional issues through collaboration with regional communities.)

Collaborator : Nagaoka University of Technology

Participators : Tohoku University, Nara Women's University, Tokushima University,
Osaka Metropolitan University College of Technology,
University of New Mexico, Brown University, Royal University of Phnom Penh,
National University of Tainan, Panyapiwat Institute of Management

Summary

Center for a well-being city creation with multi-scale think tank functions by promoting the Innovation Academy project

University Vision

Towards urban think tank for the future Asia, University will lead the resilient and smart urbanization of Osaka, a compact city with the population size and economic zone comparable to those of a nation and will disseminate a model of well-being society with gaining the trust from the local community.

➤ Accelerate co-creation research through the Innovation Academy (ia) project

ia project: Living lab for co-creation among industry, academia, government, and private sector / Innovation ecosystem with intercampus network

○ Promotion of Co-Creation Research among Industry, Academia, Government and Private Sector

- ✓ Strategic allocation of funds to *ia* project (Corporate version of hometown tax, Co-creation research quota for indirect cost)
- ✓ Strategic staff allocation to *ia* project (Utilization of President's discretionary personnel points, Restructuring of high-incentive tenure-track faculty system, Social collaboration-oriented faculty)
- ✓ Securing research time (Development of research infrastructure sharing center, Enhancement of education and research support personnel, Promotion of business DX)

○ Reinforcement of Strategic Technology Transfer System

- ✓ Formulate technology transfer policy in collaboration with overseas institutions, accompany technology transfer based on IP strategy, and establish start-up support system
- ✓ Inter-Universities collaboration of URA function/research seeds
- ✓ Solving social issues in collaboration with local governments and consultants, and applying these know-how into administrative policies
- ✓ Establishment of an agility-operated external organization for technology transfer (OMRI) on a pay-for-performance basis



Concentration of University Resources to *ia* Co-Creation Research Units

○ Proper Support for Each Co-Creation Research Unit

- ✓Industrialization of domestic technology that can compete with the world (all solid-state batteries)
- ✓Strengthening industry-academia collaboration in basic research necessary for industrial application of technology (equipment manufacturers and enterprise consortiums based on the NanoTerasu)
- ✓Establishment of demonstration test fields and utilization of data in GX
- ✓Creation of social infrastructure for sustainable and renewable circulation of food, agriculture, and energy, and overseas development of the system
- ✓Social impact-oriented evaluation of project/faculty
- ✓Demonstration experiments in Asia and feedback on the results to Osaka



○ Promotion of Global Research in Collaboration with Overseas Centers

- ✓Global development of the social implementation of solutions to issues in Osaka
- ✓Accelerating the commercialization
 - in collaboration with Boston start-ups in the healthcare field
 - in collaboration with University of New Mexico in the material science and energy fields
- ✓Fundraising through marketing in collaboration with overseas offices
- ✓Global expansion of convergence knowledge healthcare research in collaboration with Osaka International Research Center for Infectious Diseases and Research Center for Medical Sciences in Health and Longevity

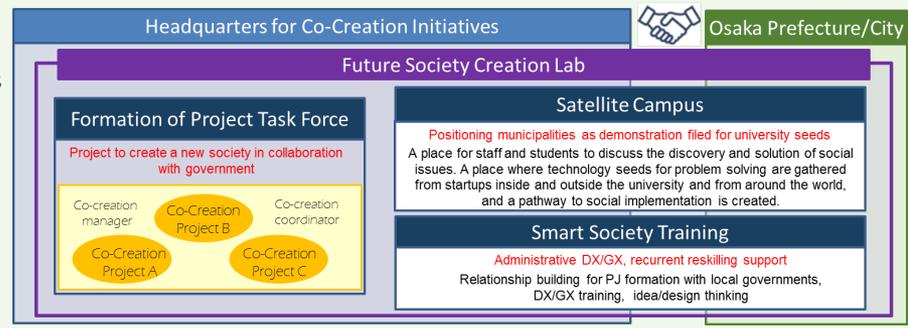
“OMU think tank” will be trusted by society as the brain of administration

○ Three Tiers for a Sustainable Urban Policy/Technology Think Tank

- ✓Summit meeting by the governor, mayor, chancellor, and president
- ✓Planning discussions by executive staff and the university’s executive members
- ✓Communication by younger generations

○ Future Society Creation Lab

- ✓Identification of current and future issues in the region and efforts to resolve them (PJ task force, satellite campus, smart society training)
- ✓Seamless social implementation of technological seeds through co-creation research
- ✓Proactive application and development of university research seeds to resolve regional issues
- ✓Collaboration with domestic and international start-ups



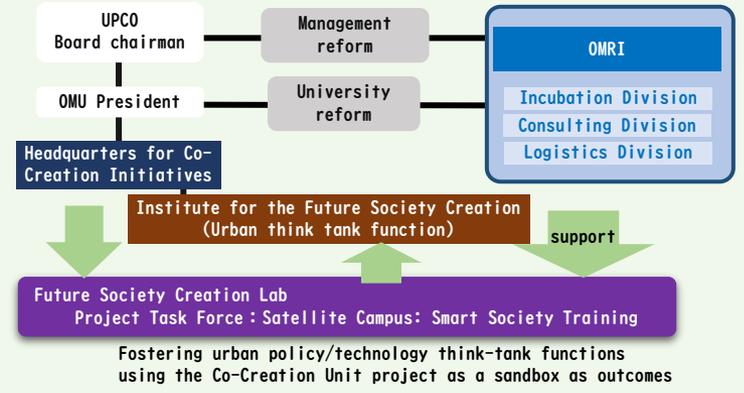
○ Asia Roundtable

- ✓Adaptation of solutions to issues in Osaka to Asia and the world
- ✓Deepening of cooperation with international organizations
- ✓Promotion of Social Impact Co-Creation Project utilizing the Liveable Well-Being City (LWC) index and the Well-Being Index by the United Nations

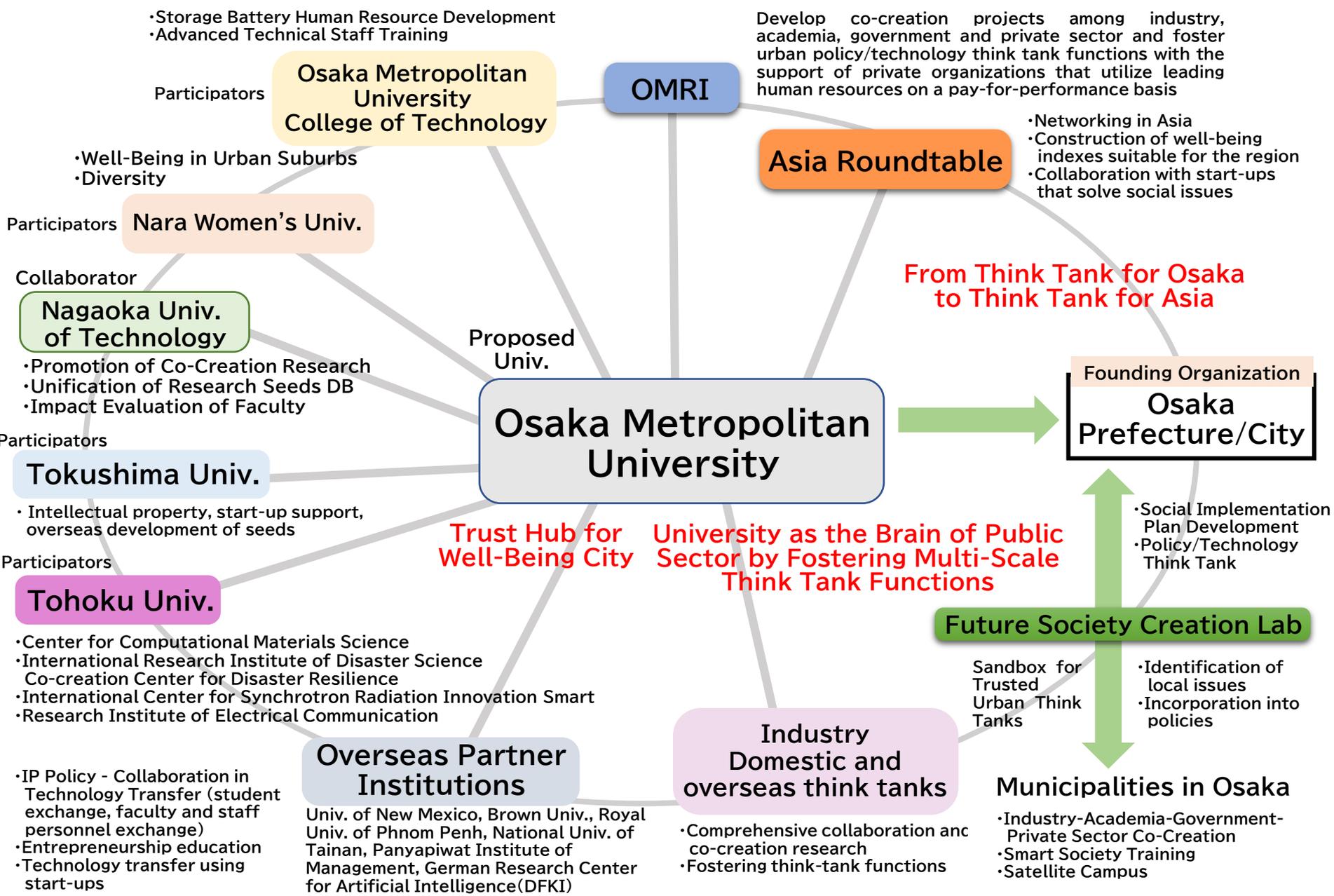
○ Fostering Think Tank Functions with Osaka Metropolitan Research Institute

- ✓Development of agile industry-academia-government co-creation projects
- ✓Management and organizational reforming of OMU
- ✓High value-added technology based on intellectual property strategy
- ✓Policy-making and -planning by the Future Society Creation Lab
- ✓Formation of a research institute that fosters urban think tank functions
- ✓Establishment of social impact-oriented project/faculty evaluation criteria
- ✓Fostering reliable urban policy/technology think tank functions
- ✓Sustainable small organization management using student interns

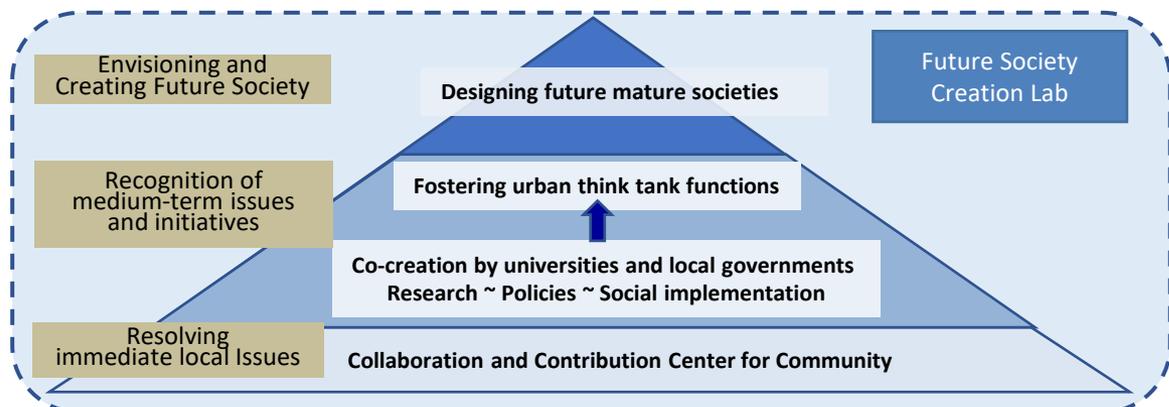
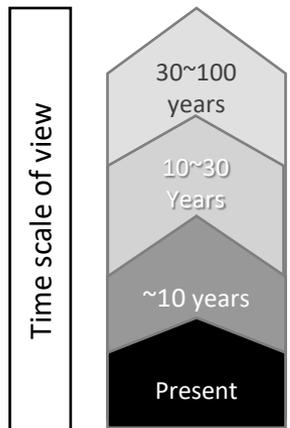
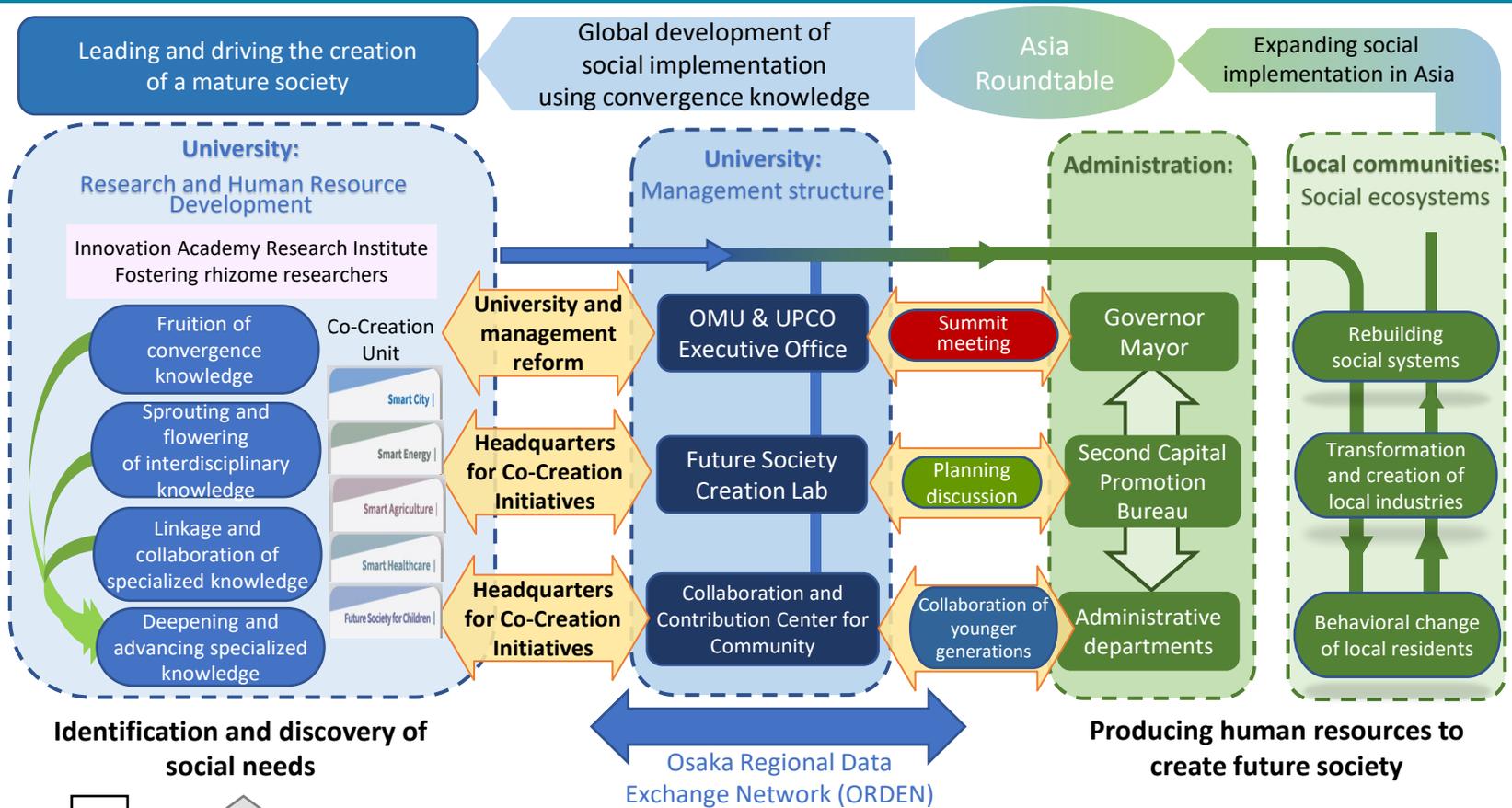
Administrative structure of OMU



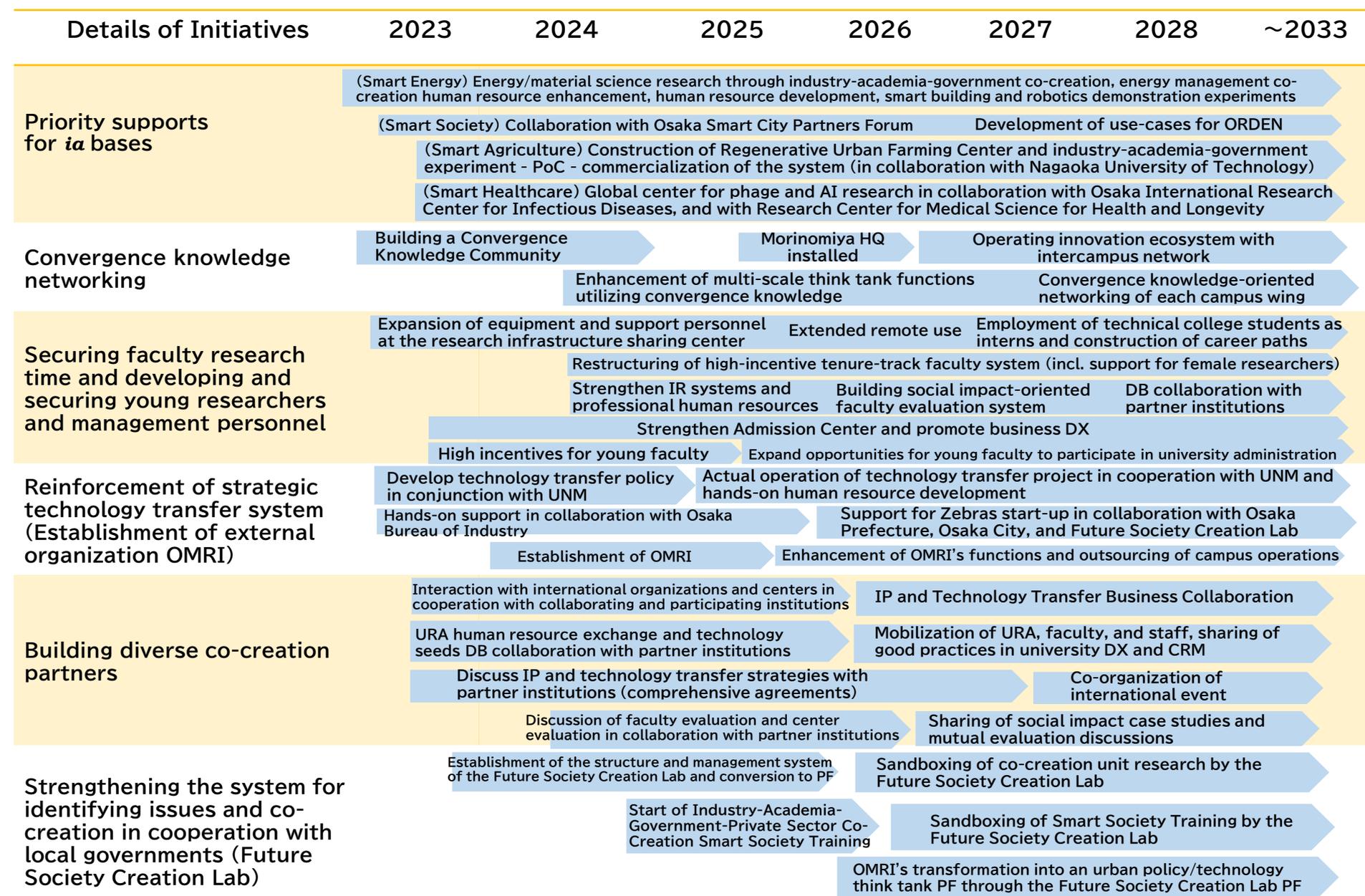
Framework



Framework



Timeline



Asia Roundtable

Establishment of the structure and operation of the Asia Roundtable

Organizing the Asia Roundtable

Building the Osaka Model and Social Impact Indicators

Travel to Asia to build a trust hub and hold lectures by government officials from various countries

Identification of Asian regional issues using regional science, Social implementation by start-ups

Utilization of Osaka Regional Data Exchange Network (ORDEN)

(Future Society for Children) Consortium establishment, ORDEN usage started Building a center for the creation of a well-being future society through the co-creation of "data" and "people"

ORDEN linkage of prototype research results (Development of data linkage policy)

Visualization of ORDEN use-cases

The ideal state in 10 years

(shared and created by industry, academia, government, and the private sector)

- ✓ Commercialization of technology is accelerated with *ia* co-creation units as the core, and basic research is also progresses.
- ✓ Student interns hired through *ia* projects are advancing their careers as human resources to support the next generation.
- ✓ A center for high-level researchers to conduct demonstration experiments and new challenges for creation of future society.
- ✓ Universities are "proactively" involved in the administrative process and can present solutions based on convergence knowledge.
- ✓ Diverse stakeholders stay at the campus on a daily basis, and human resources from all over the world gather there.
- ✓ The municipality itself becomes a university campus, a place to discover issues and learn.
- ✓ Start-ups are established in the vicinity of the university, and PhDs come and go from the lab on a daily basis.
- ✓ A trust hub is formed as a technology and urban think tank for Asian countries.
- ✓ Social impact-oriented evaluation is established, and agile project management is possible in collaboration with OMRI.

【The Position of University in the Future Society Creation】

- ✓ University is opened to local governments as a "reliable center of knowledge".
- ✓ University can design cities from a bird's eye view and a big picture perspective, and to provide long-term forecasts and visions for cities and society.
- ✓ University is neutral and independent, without being dependent on any specific stakeholder.
- ✓ University can show how society should be from the perspective of social systems, ethics, philosophy, and jurisprudence, without being biased toward technology or profit.

【Initiatives in J-PEAKS】

- ✓ Strengthening the system that seamlessly links the industrialization of technology and the basic research.
- ✓ Future Society Creation Lab, a place of continuous learning for local governments and sustained co-creation to solve social issues.
- ✓ Development of co-creation research center through sustainable human resource development and relationship building with government officials.
- ✓ A center for sharing problem-solving practices widely and attracting excellent human resources who will lead urban design in Japan and abroad.
- ✓ Establish a CPS infrastructure to be practiced on the digital campus and deployed by local governments through the Urban OS.