

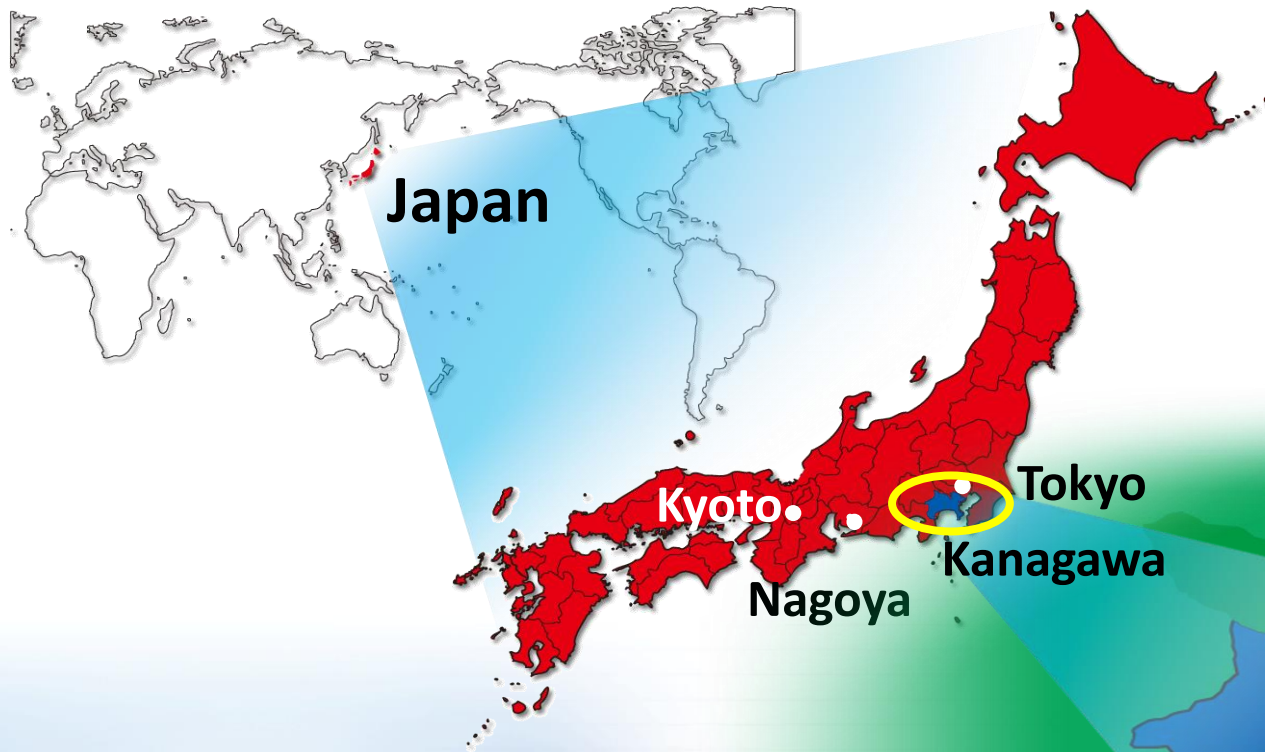


For the promotion of Regenerative Medicine in Kanagawa Prefecture



**November 25, 2020 Kenichi Oki
Executive Director of International Strategy,
Healthcare New Frontier Promotion Headquarters Office,
Kanagawa Prefectural Government**

KANAGAWA : Gate to the world



The Tokyo Metropolitan area has **over 40 mil people**, 1/3 of Japan's total population

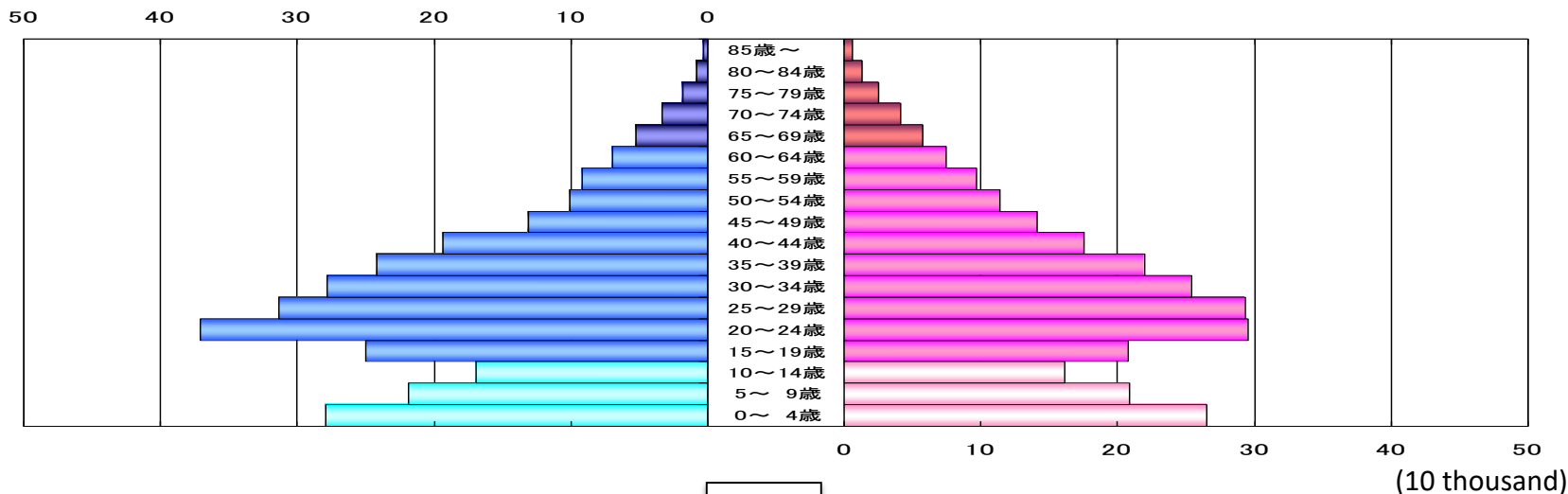
Kanagawa Prefecture

- > Population: 9.1 mil
- > GDP: US\$ 307.6 bil (2015)
- > Integration of industry and research functions
- > Three Strategic Special Zone

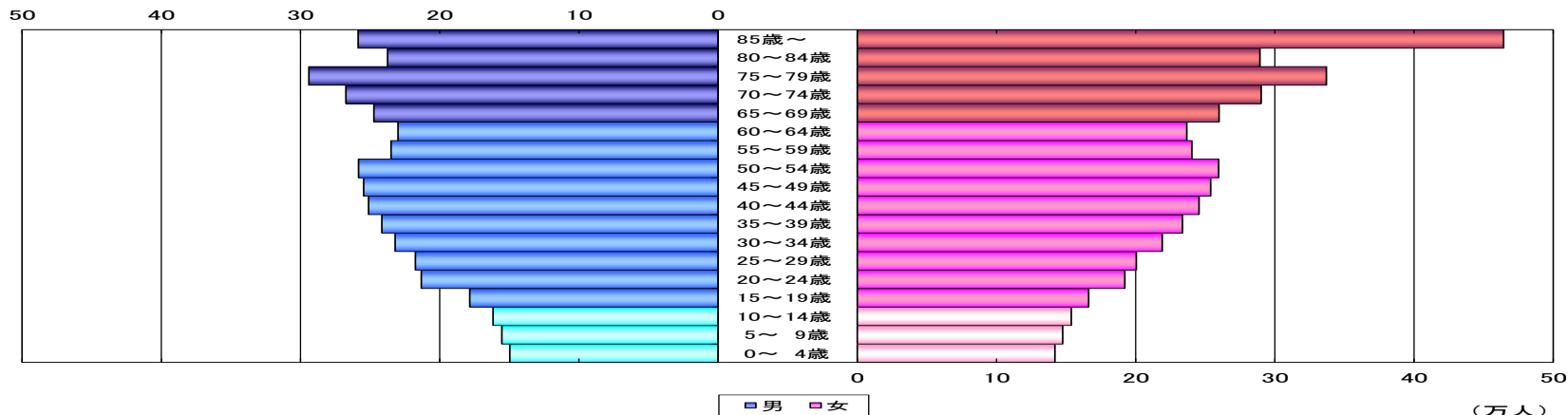
Super-Aging Society of Kanagawa

(1970)

Population Pyramid of Kanagawa



(2050)



(10 thousand)

Healthcare New Frontier Policy

Integration of the two approaches

Advanced Medical Technologies

iPS cell research



Life supporting robot



Personal health record



Managing ME-BYO

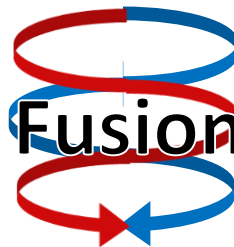
Daily foods



Exercise habit



Realization of personalized medicine



Lifestyle change

Healthy longevity & New Markets / Industries

What is ME-BYO?

Healthy

Sick

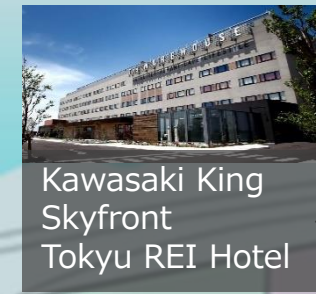
Healthy

ME-BYO

Sick

ME-BYO is the physical and/or mental condition between being healthy and being sick. Human condition goes forward and back between the two, instead of being defined as either of the two health states.

Tonomachi – Open Innovation Hub of Life Science



Kawasaki King Skyfront
Tokyu REI Hotel

Tokyo International Airport

Connecting Bridge in FY 2021

Life Innovation Center

National Institute of Health Science (NIHS)

● in operation
▲ under construction

Life Innovation Center (LIC)

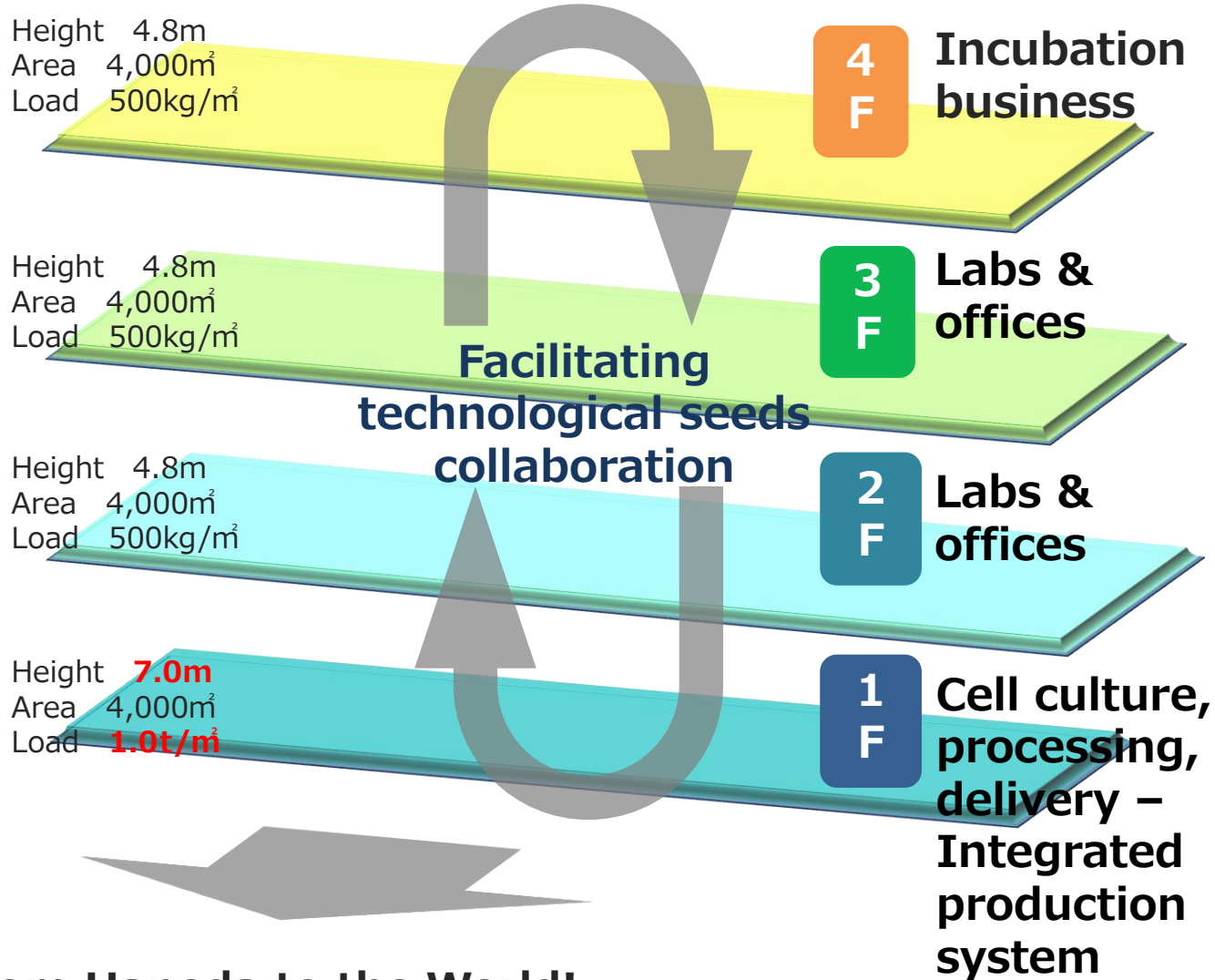
Center for Industrialization of Regenerative Medicine & Cell Therapies (Opened in April 2016)

Joint project
between Kanagawa
Gov. and private
sectors

26 tenants
(as of Nov. 2020)



LIC – Floor Map



From Haneda to the World!

LIC – Strategies for Industrialization of Regenerative

3 Strategies

Strategic base

3 exit strategies

1
Fostering
start-up companies

2
Construction of
Value Chain

3
Global business
promotion



LIC
Kanagawa

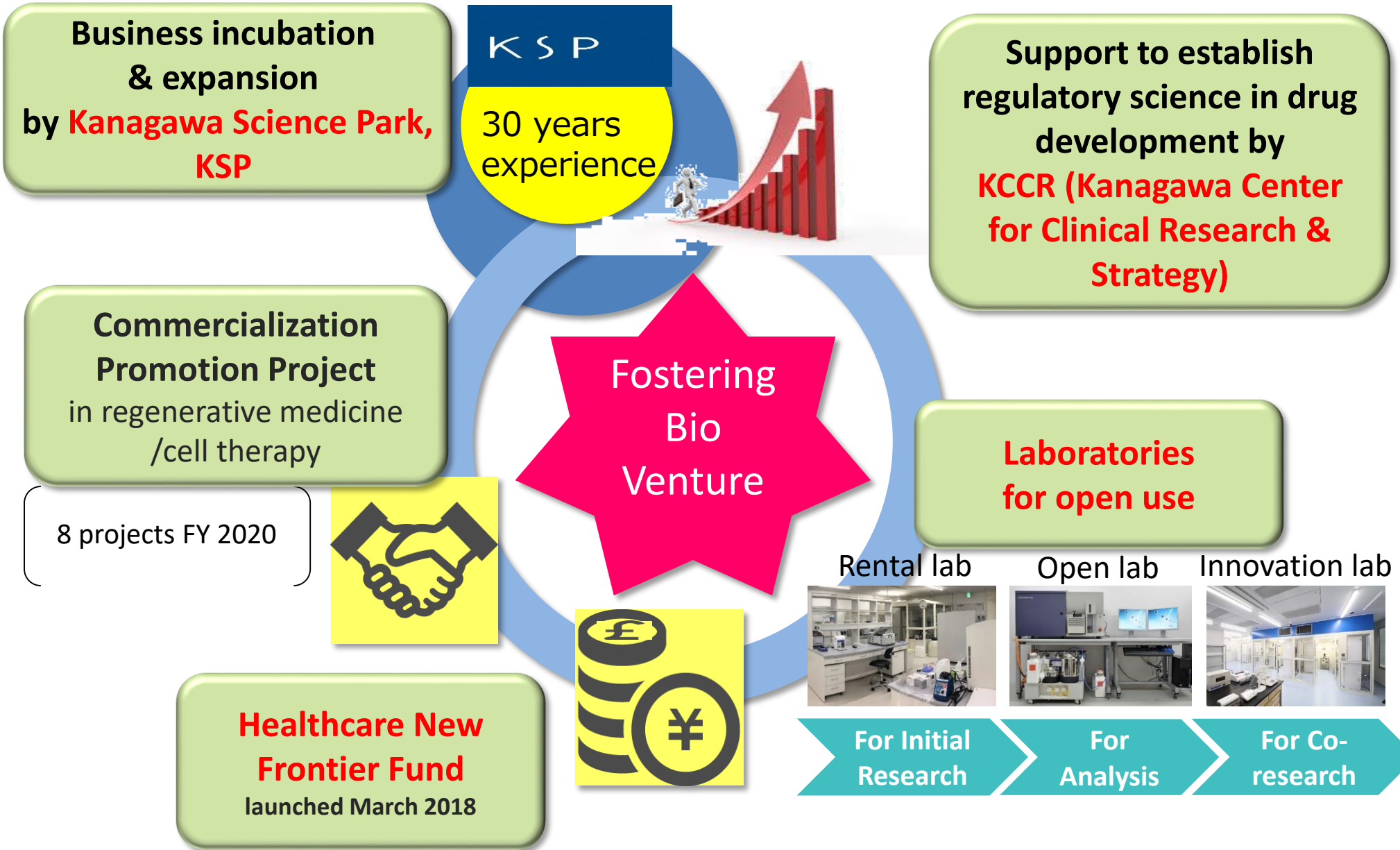
Drug
Development

Regenerative
medicine
support

Medical
treatment

Creation of
Regenerative
Medicine &
Cell Therapies
Industry

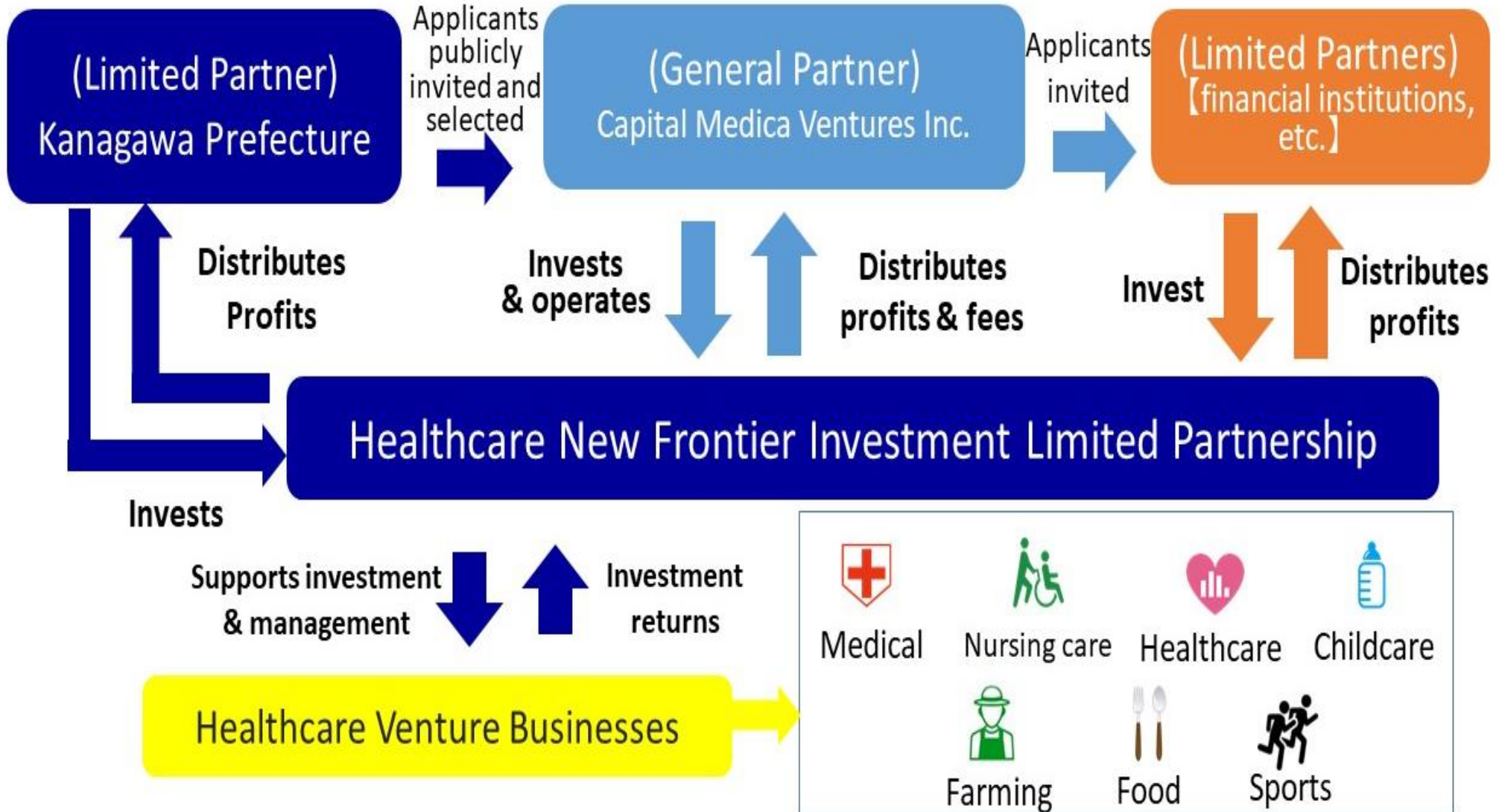
LIC Strategy 1: Fostering Start-up companies



LIC Strategy 1: Fostering Start-up companies

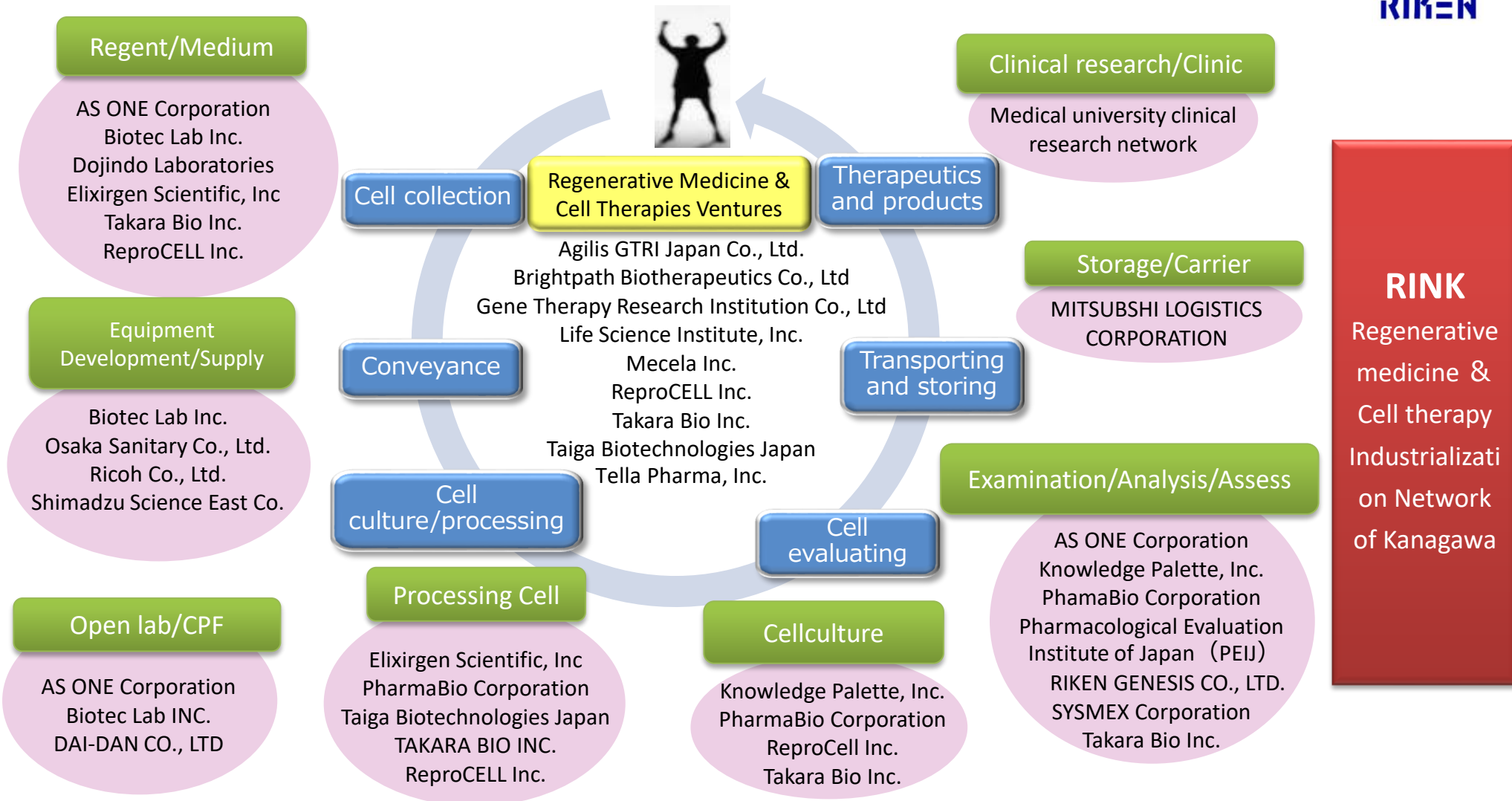
Healthcare New Frontier Fund

<Scheme>



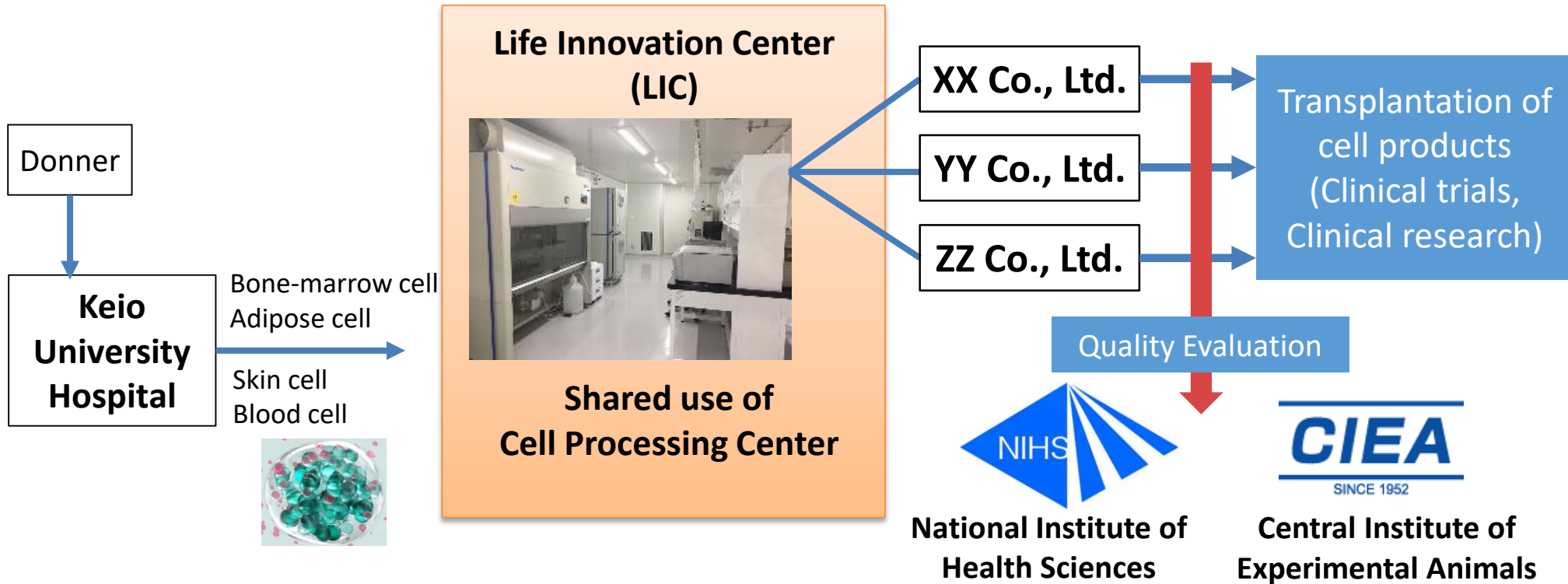
LIC Strategy 2: Construction of value Chain

“Tonomachi”, Quality and Safety Evaluation Base for Regenerative Medicine and Cell Therapy Products



LIC Strategy 2: Construction of value Chain

**Global expansion of “Tonomachi Quality”
(De-facto standardization by early realization)**



Cell Procurement

Effective cell production

Integration of Production
and Quality Evaluation

LIC Strategy 3: Global business promotion



EUROPE

- UK
- Finland
- Germany
- WHO

ASIA

- Singapore
- India
- China

KANAGAWA

U.S.A.

- Massachusetts
- Maryland
- Stanford University



Cell Therapy Catapult,
UK



Oulu City, Finland



Singapore



Stanford University



Commonwealth of
Massachusetts



Baden-Württemberg,
Germany



WHO



Ministry of AYUSH,
India



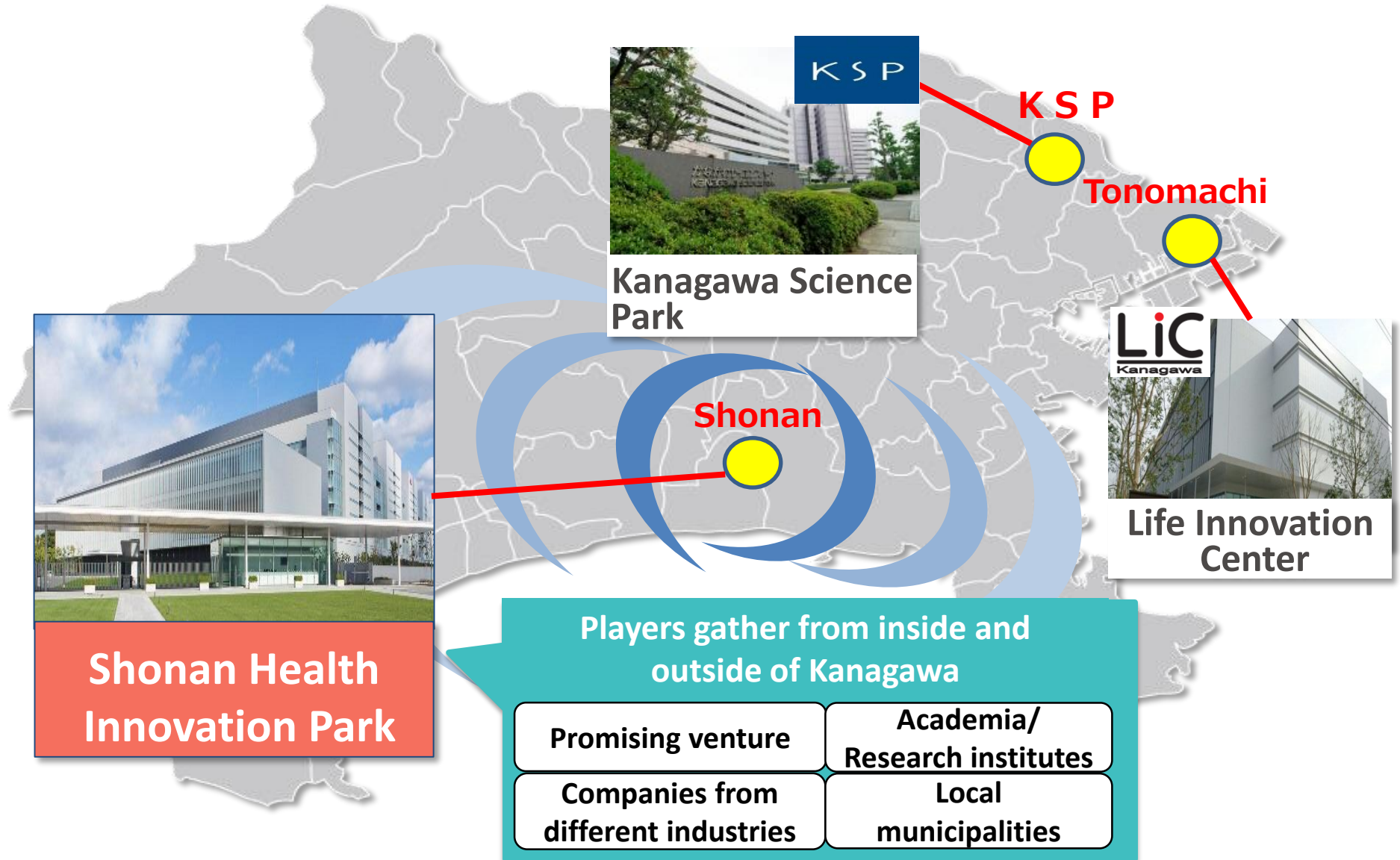
Liaoning, China



State of Maryland

Collaboration with Shonan Health Innovation Park

Open innovation for advanced medical industry



Education: Health Innovation School

(Graduate School of Health Innovation)

- ✓ Graduate School of Health Innovation, Kanagawa University of Human Services was opened in April 2019 in **Tomomachi area**.
- ✓ The doctoral program will begin in 2021.



Academic Program	Master of Public Health (MPH)	2-years degree course	Offered both in English and Japanese	Public Health + Innovation
	Doctor of Public Health (Ph.D.)	3-years degree course		

Student Life	Tuition Approx. USD 5,000 /year	Approx. 15 students (MPH) 2 students (Ph.D.) /year	Class open in Saturday and night-time of weekday	Business persons with full-time work are welcome
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Courses (example)	ME-BYO concept Data science Human services	Public Health Core-5	Health tech. Regenerative medicine Human nutrition Risk management Accounting & finance	Field work Entrepreneurship Bio-design Leadership
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