

Kawasaki INnovation Gateway at SKYFRONT

# KING SKYFRONT

Kawasaki set to change the world and the future



**KING SKYFRONT: one of the most advanced R&D zones for life science fields in the world.**



# What is KING SKYFRONT?

KING SKYFRONT is an open innovation hub that creates new industry from the world's highest standard R&D. It is located in Tonomachi district of Kawasaki City, south west of Haneda Airport on the opposite shore of the Tama River.

In this area of approximately 40ha, KING SKYFRONT plays an important role in Japan's growth strategy by contributing solutions to a variety of issues including health, medicine, welfare, and environment while also creating global businesses in these fields.

The area has been designated as a National Strategic Special Zone, an International Strategic Comprehensive Special Zone, and a Specified Priority Development Area for Urban Renaissance. Using preferential treatment systems – easing restrictions, financial support, taxation support, etc. – are also possible in this area.

\*"KING" is an acronym for "Kawasaki INnovation Gateway" and reflects the name of the town "Tono-machi" with "Tono" meaning "feudal lord".  
In addition, "SKYFRONT" is a reference to its close location to Haneda Airport, which connects Japan to the rest of the world, and is just across the Tama River.

## Redevelopment of KING SKYFRONT

After relocation of the Isuzu Motors Ltd. Kawasaki Factory, a redevelopment plan of this area was launched.

1970 (Isuzu Motors Ltd. Kawasaki Factory)



Current KING SKYFRONT



Regarding the Urban Planning Zones A and B – which consist of land owned by the Urban Renaissance Agency, Yodobashi Camera Co., Ltd., Kawasaki City and so on – the Urban Renaissance Agency and Kawasaki City are acting together as executors of a land readjustment project (Tonomachi 3-chome Land Readjustment Project, approx. 23ha; approval received for project commencement in March 2010 and completion in September 2013) that has been implemented in stages since 2011 to promote land utilization and facility establishment.

### Roads

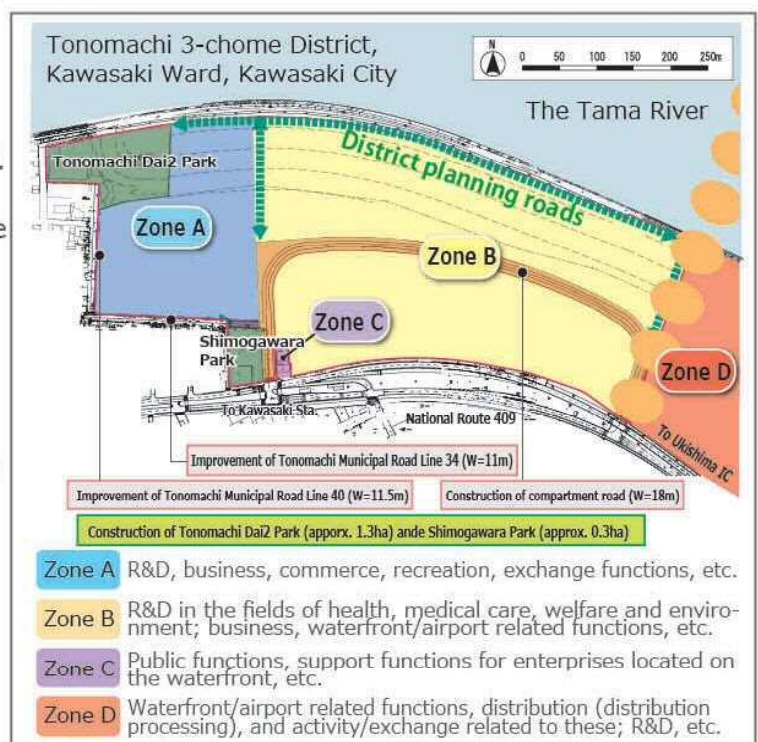
An 18-meter-wide compartment road was redeveloped to connect to National Route 409 and cross over the east and west sides of KING SKYFRONT. At the same time, existing roads have been improved to create a townscape in harmony with the surrounding urban areas.

### Parks

To enable the creation of open space zones along the Tama River, the Tonomachi Dai2 Park (approx. 1.3ha) has been redeveloped. Shimogawara Park (approx. 0.3ha), which acts as the gateway to KING SKYFRONT, has also been redeveloped.

### Super levees

In zones along the Tama River, high-standard levees (super levees) have been constructed by the Ministry of Land, Infrastructure, Transport and Tourism to strengthen KING SKYFRONT against flooding.



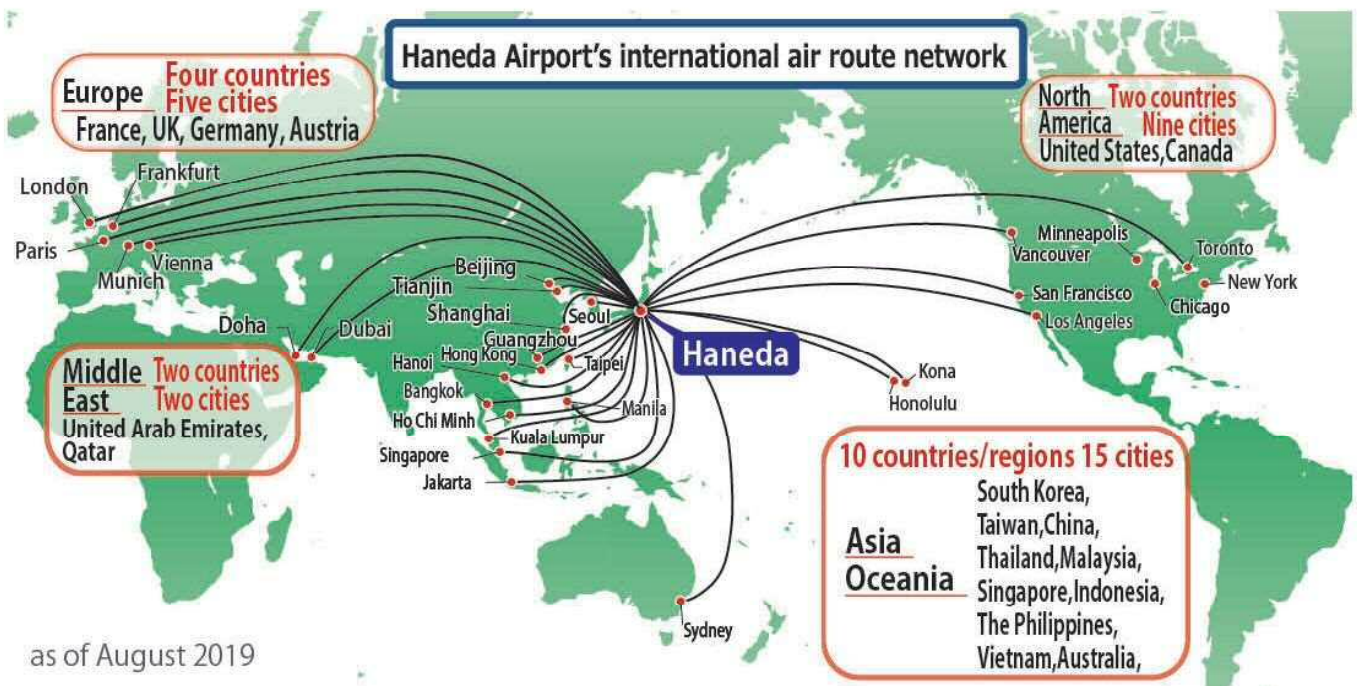
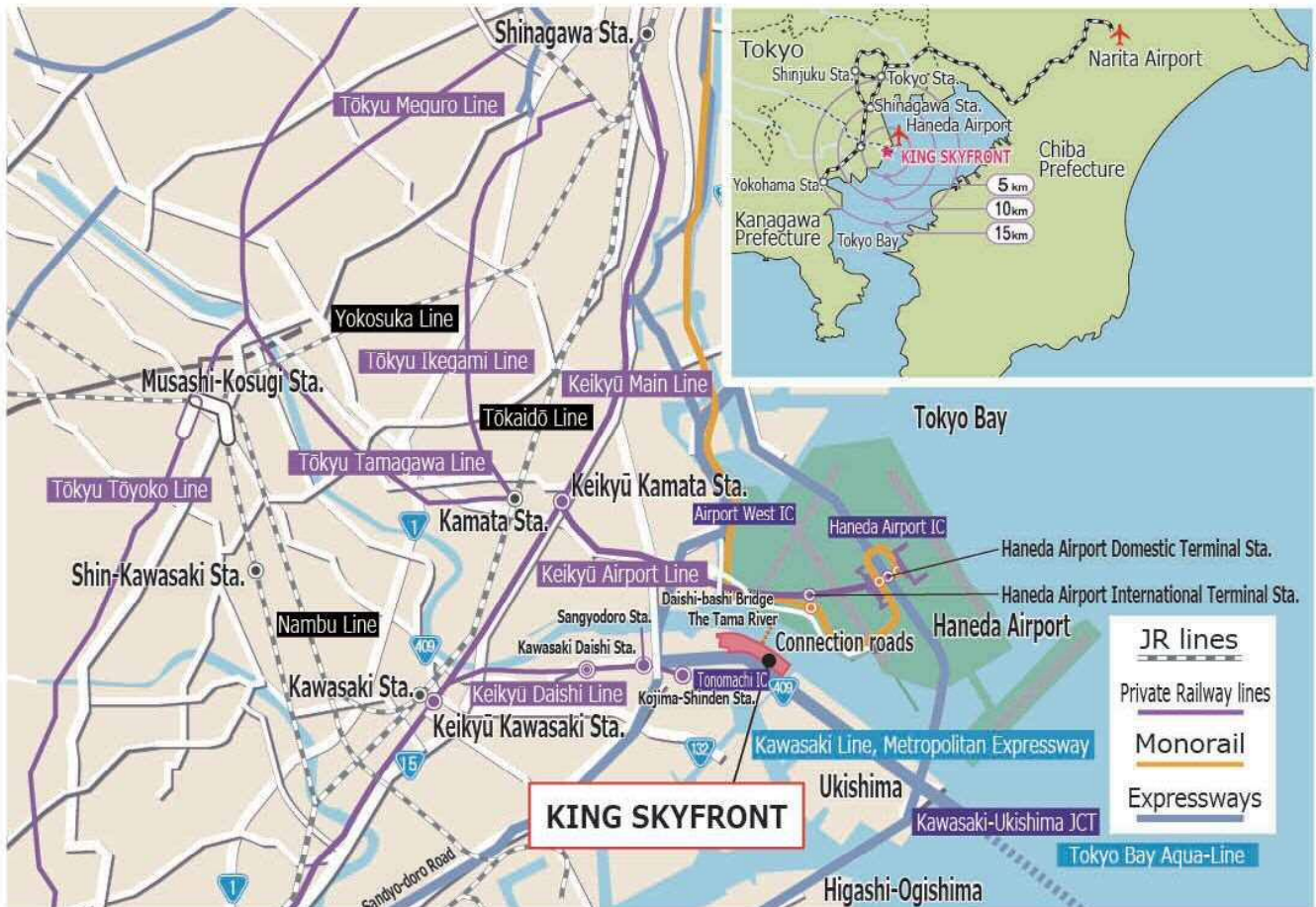


# An amazing site and international air route network

Neighboring Haneda Airport, which boasts having flights to 31 cities in 18 countries/regions, there is nearly as much speedy access internationally as there is domestically (as of August 2019).

KING SKYFRONT is connected to both the Metropolitan Expressway and the Tokyo Bay Aqua Line. It also neighbors a wide-reaching truck road network that includes the Tomei Expressway and National Route 1. Accordingly, KING SKYFRONT boasts a very convenient and robust transportation network for central Tokyo and many other locations.

KING SKYFRONT is located in the Keihin Industrial Area, which has accumulated outstanding manufacturing industry, and is near the Keihin Port (an international trading harbor); it plays an important role in vigorous urban industry developments.



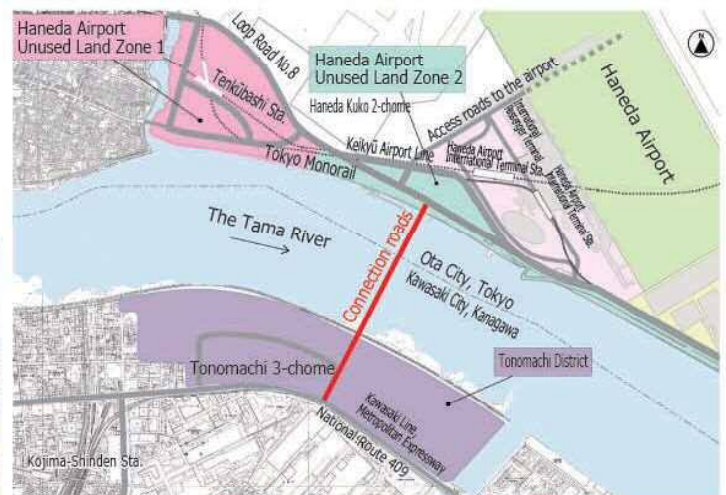
as of August 2019



# Construction of connection roads

Kawasaki City is now constructing connection roads (comprising one bridge with two lanes) in collaboration and cooperation with the national government, the Tokyo Metropolitan Government and other related organizations. The roads are intended to help strengthen collaboration between KING SKYFRONT and Haneda Airport Unused Land, and will serve as infrastructure that supports the formulation of a hub for strategic integrated growth for fiscal 2020. Furthermore, improvement of the National Route 357 Tamagawa Tunnel, connecting a wide-ranging metropolitan area network between the two banks of the Tama River, is being carried out.

Image of the connection road bridge (view from Haneda Airport side looking upstream along the Tama River)



# Redevelopment of Haneda Airport Unused Land

## Haneda Airport Unused Land Zone 1 (approx. 16.5ha)

Land readjustment project (roads, parks, station square, etc.) >>> Urban Renaissance Agency

Project Phase 1 (approx. 5.9ha) >>> Haneda Mirai Development Co., Ltd. (founded by 9 investor companies)

<Soft opening in 2020, Grand opening in 2022>

Total floor space >>> approx. 125,400m<sup>2</sup>

Major uses >>> R&D facilities (laboratories and large-scale offices), leading-edge medical research center, conference hall, event hall, facility offering Japanese cultural experiences, dining establishments, training accommodation facilities, hydrogen filling station, etc.

Designers and Builders >>> Kajima Corp., Daiwa House Industry Co., Ltd.

## Haneda Airport Unused Land Zone 2 (approx. 4.3ha)

Opening by June 2020

Developer >>> Haneda Airport Urban Development Inc.  
(Sumitomo Realty & Development Co., Ltd., etc.)

Major uses >>> Accommodation facilities (approx. 1,700 rooms); banquet room (capacity of approx. 600 persons); commerce facilities for food and drink, sales of goods, etc.; and bus terminals, etc.

Redevelopment Image as of March 2016



# Support system for zone creation

## International Strategic Comprehensive Special Zone (designated in December 2011)

Designated by the national government as a zone with high potential for carrying out and realizing pioneering endeavors related to the creation of bases bringing together functions and industries that will act as engines for Japan's economic growth.

- special regulatory provisions
- taxation-related support measures
- financial support measures
- monetary support measures

## Specified Priority Development Area for Urban Renaissance (designated in January 2012)

Designated by the national government from amongst area that need priority development in the Urban Renaissance as "an area that is especially effective for strengthening the international competitiveness of a city."

- implementation of development projects through government-private sector collaboration
- financial support measures
- acceleration of approval for private-sector urban development projects
- taxation-related support measures

## National Strategic Special Zone (designated in May 2014)

Designated by the national government as "a zone that strengthens the international competitiveness of Japanese industry and promotes the creation of international bases for economic activities."

- special regulatory provisions
- taxation-related support measures
- monetary support measures



# Companies and organizations accumulated in KING SKYFRONT – over 60 institutions -

## A KAWASAKI KING SKYFRONT TOKYU REI HOTEL (started operation in June 2018)



The first hydrogen-hotel in the world that, supplied by a pipeline, utilizes low-carbon hydrogen derived from used plastic produced by Kawasaki Plant of Showa Denko K.K.

## B Research Gate Building TONOMACHI 2 (RGB2) (started operation in October 2017)



- Keio University Tonomachi Town Campus
- Middle Molecule IT-based Drug Institute of Technology
- Kanagawa University of Human Services Graduate School
- Sumitomo Dainippon Pharma Co., Ltd.
- KING SKYFRONT Management Center, Kawasaki City

## C Medtronic Innovation Center Japan, Medtronic Japan Co. Ltd (started operation in September 2017)



A facility for medical workers that provide a program geared towards diversified medical equipment safety techniques and usage including technical training, simulation training, and every kind of seminar.

## D Research Gate Building TONOMACHI 1 (RGB1) (Completed in February 2018)



- Gene Therapy Research Institution Co., Ltd.
- 7-Eleven (convenience store)
- KAWASAKI TONOMACHI Post Office

## E Kawasaki Life Science & Environment research center (LiSE) (started operation in March 2013)



A facility complex into which research organizations, enterprise, etc. – that own state of the art technology and aim to innovate with industry-academic-government collaborations – can move.

- Kawasaki Environment Research Center (KERI)
- Kawasaki City Institute for Public Health
- Kanagawa Institute of Industrial Science and Technology (KISTEC)
- Café Forte
- ALBA Corp.
- SRL, Inc.
- Material Research Center Co., Ltd.
- LabPMM LLC

Not yet constructed

- ① CYBERDINE, Inc. (Decision to move is finalized in August 2014)
- ② JSR Corp. (Decision to move is finalized in January 2017)
- ③ Kawasumi Laboratories, Inc. (Decision to move is finalized in January 2017)
- ④ Shimadzu Corp. (Decision to move is finalized in January 2019)

## F Central Institute for Experimental Animals (started operation in July 2011)

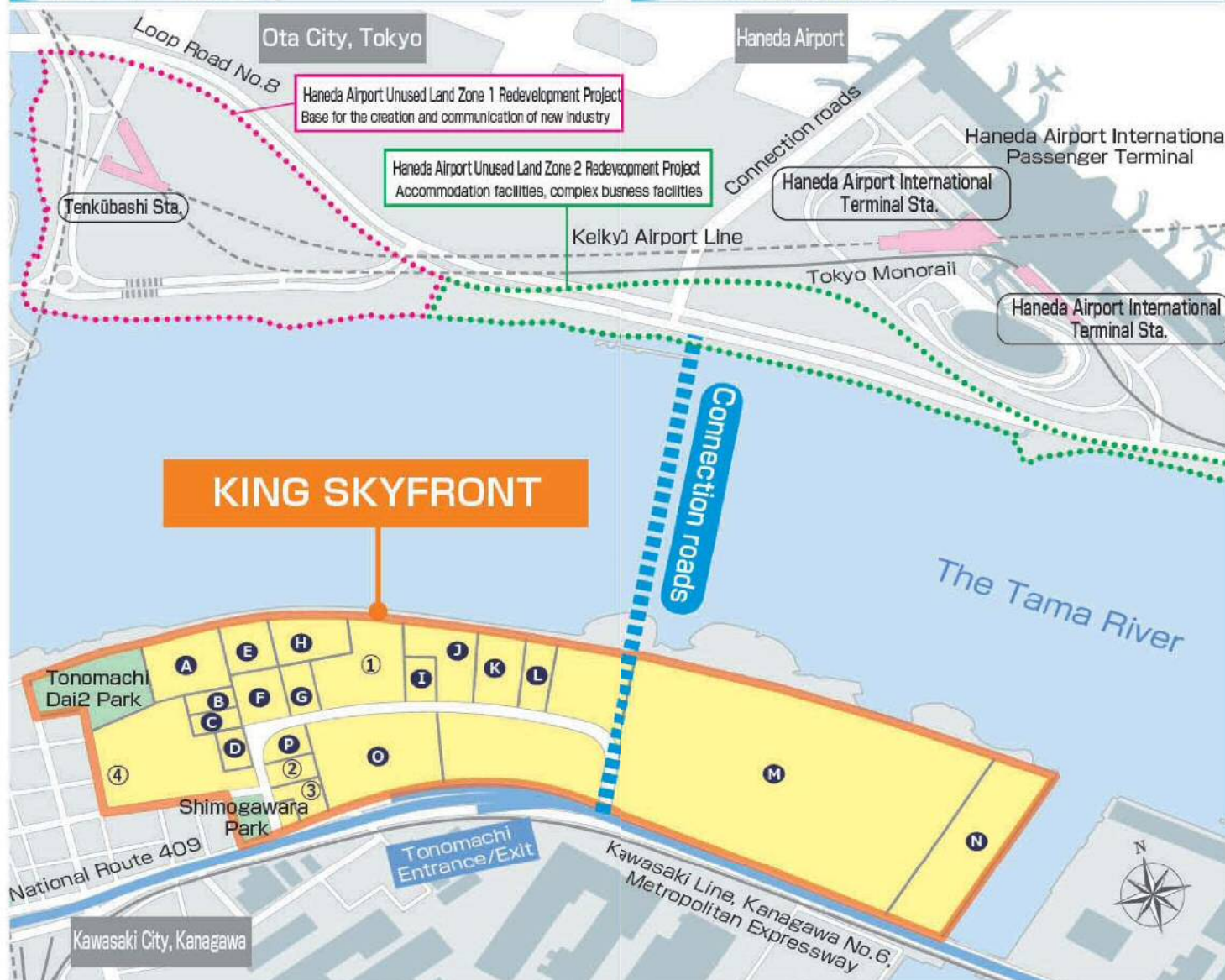


Contributing to the improvement of people's health and welfare as well as medical development, and promoting disease research and breakthroughs through the use of high quality, homogenous and reproducible test animals such as humanized mice and the world's first genetically modified primates.

## G KAWASAKI LABORATORY, FUJIFILM Toyama Chemical Co., Ltd. (started operation in June 2017)



Implementing R&D in and supply of radiopharmaceuticals for diagnostic purposes especially in cancer and Alzheimer's diseases.



## P R&D Center, Create Medic Co., Ltd. (started operation in June 2016)



Carrying out R&D for all kinds of medical equipment materials, mainly for silicon catheters, and developing original products for medical treatments and technology.

## O National Institute of Health Sciences (started operation in March 2018)



A core research institute for regulatory science; science for assessing the quality, safety and efficacy of medical supplies, medical equipment, food, living environment materials, etc., and making alterations to truly suit the interests of Japanese consumers.

## N ANA Tonomachi Business Center, ALL NIPPON AIRWAYS CO., LTD. (started operation in July 2014)



A facility complex consisting of a manufacturing and shipping site (for inflight meals for Haneda Airport's domestic and international lines) and ANA Group offices.

## H Innovation Center of NanoMedicine(iCONM), KAWASAKI INSTITUTE OF INDUSTRIAL PROMOTION (started operation in April 2015)



Implementing R&D geared towards medical treatments and diagnoses in intractable diseases such as cancer and Alzheimer's by having a system that gathers industry-academic-government under one roof to have normally divergent fields work together.

- AccuRna, Inc.
- SBI Pharmaceuticals Co., Ltd.
- Kowa Company, Ltd.
- NANOEGG® Research Laboratories, Inc.
- Gene Therapy Research Institution Co., Ltd.
- NanoCarrier Co., Ltd.
- Nitto Boseki Co., Ltd.
- Braizon Therapeutics, Inc.
- Kao Corp.
- AnGes, Inc.

## I Johnson & Johnson Institute(Tokyo Science Center), Johnson & Johnson K.K. (started operation in August 2014)



A facility that provides training related to safe usage of state of the art medical equipment for medical workers, and support safety and advanced medical treatments by conducting practical training in recreated hospital surgery and laboratory rooms.

## J Kawasaki Technology Development Center, Japan Radioisotope Association (started operation in June 2017)



Conducting isotope trials and R&D, supply related services, public awareness, etc.

## K Life Innovation Center (LIC) (started operation in April 2016)



A facility into which both domestic and international companies related to R&D, manufacturing, etc. that is geared towards the industrialization of cell regeneration treatments can move.

## L PeptiDream Inc. (started operation in August 2017)



Carrying out with domestic and international drug industry "Specialty Peptide" drug development R&D that utilizes proprietary PDPS (Peptide Discovery Platform System).

## M Yodobashi Camera Assembly Center, Yodobashi Camera Co., Ltd. (started operation in 2005 and extended in February 2017)

Large scale distribution facilities conducting the shipping, mail order packaging, temporary storing and sending of commodities handled at all Yodobashi Camera Co., Ltd. store locations.



# Projects in R&D and societal implementation using national programs

## The Center of Innovation (COI) Program (2013-2021) >>> Kawasaki Institute of Industrial Promotion

### Center of Open Innovation Network for Smart Health (COINS)

COINS thinks that an answer is development of dream-like smart nanomachines that patrol around the body 24 hours a day, detect sign of a disease, treat the disease, and immediately communicate the information to the outside body. Cutting-edge nanomedical research institutes have joined from all parts of Japan and the world to facilitate industry-academia-government collaboration toward development of nanomachines.

## Research Complex Program (2015-2019) >>> Keio University etc.

**Wellbeing Research Campus that creates new industry with societal systems and technology innovation that Japan can boast to the world.**

The activities at this pioneering Wellbeing Research Campus will address the unprecedented global challenges associated with "super aging societies" by playing a leading role in improving the wellbeing of people all over the world.

Notably, the major goal of this program is to establish a global research complex hub to create knowledge and services for attractive and rich lives.

## Program for Building Regional Innovation Ecosystems (2017-2021) >>> Tokyo Institute of Technology, Kawasaki Institute of Industrial Promotion etc.

### Program to Industrialize an Innovative Middle Molecule Drug Discovery Flow through Fusion of Computational Drug Design and Chemical Synthesis Technology.

The goal of this program is to develop an innovative middle molecule drug discovery business flow through the fusion of core technologies such as IT drug discovery technologies, and synthesis technologies for artificial peptides and nucleic acids by utilizing an accumulation of knowledge in computer science, life science, and supercomputing technology at Tokyo Institute of Technology.

## Cooperation with domestic and international life science hubs

Undergoing collaboration with industry hubs and business hubs centered on domestic and international bio/life sciences.

### BioM Biotech Cluster Development GmbH (Germany)

With Germany München's Bio Clusters Management Organization (BioM), signed a memorandum of understanding related to economic exchanges focused on the fields of health, medicine and welfare. Serve as a bridge between companies and research institutes in both regions, and aim for international innovation creations by means of collaborating.

### Life Science Innovation Network Japan, Inc. (LINK-J)

Signed a memorandum of understanding on mutual collaboration related to the life sciences domain with LINK-J: a corporation based in Nihon-Bashi, Tokyo, where medical related enterprises gather and promotes open innovation and supports new industry creation. Undergo vigorous exchanges by means of joint sponsorship of events, programs, etc.; exchange of various information and transmissions; and mutual sharing of facilities.

## KING SKYFRONT Networking Council

Consists of companies and research institutes located in KING SKYFRONT as well as related municipalities, etc. Makes efforts in the continuous growth of this hub by industry-academia-government collaboration (established in February, 2018).

- Objectives
- 1.Strengthen attractive areas as a R&D hub and improve operating environments (i.e. area management functions).
  - 2.Invigorates research and project activities (i.e. cluster development and coordination).

## Support exposing children to science

### Make children feel familiar with science

Hold an event every year at KING SKYFRONT called "Summer Science Event". Companies and research institutes in the area set up display booths, and while focused on children, both kids and adults can become more familiar with science.

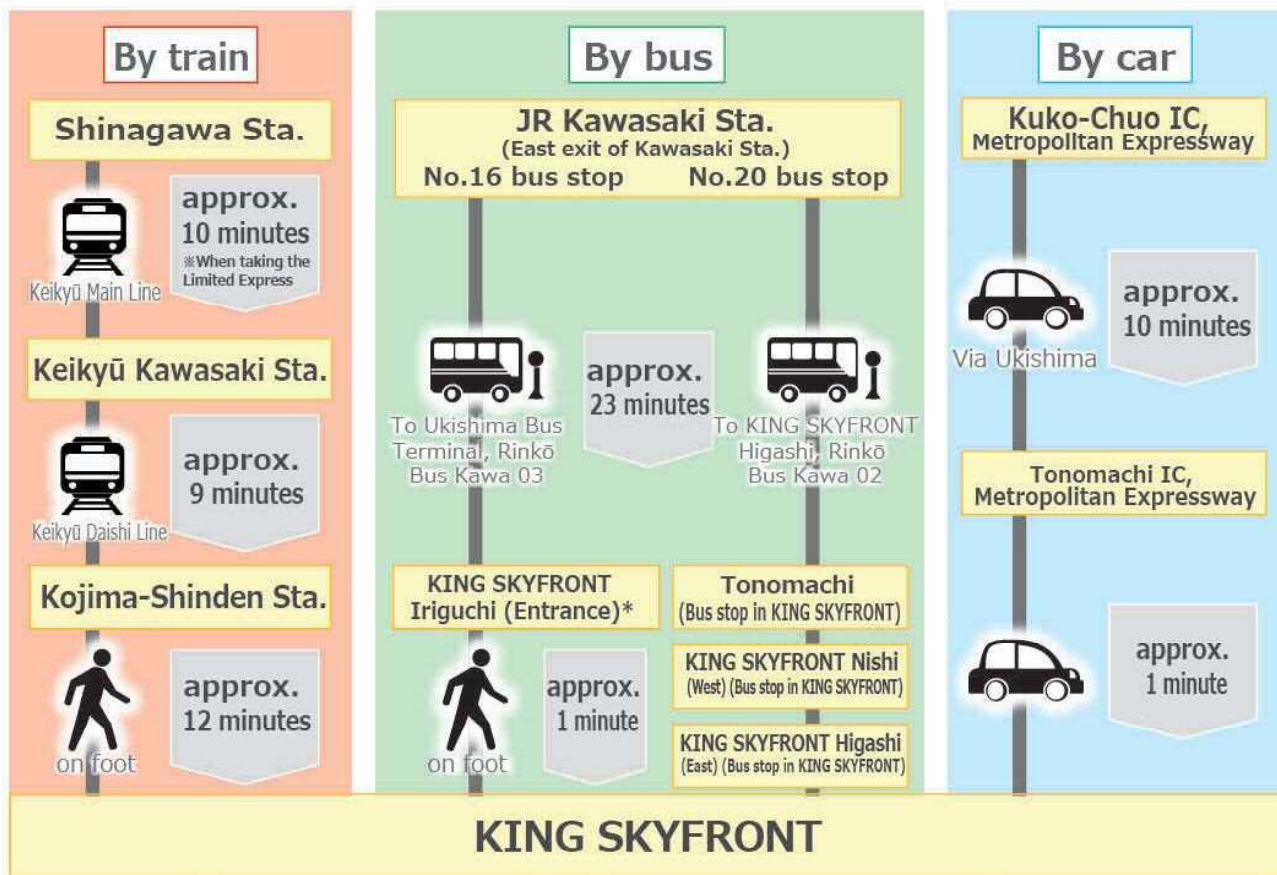


### Hope to develop future scientists here at KING SKYFRONT

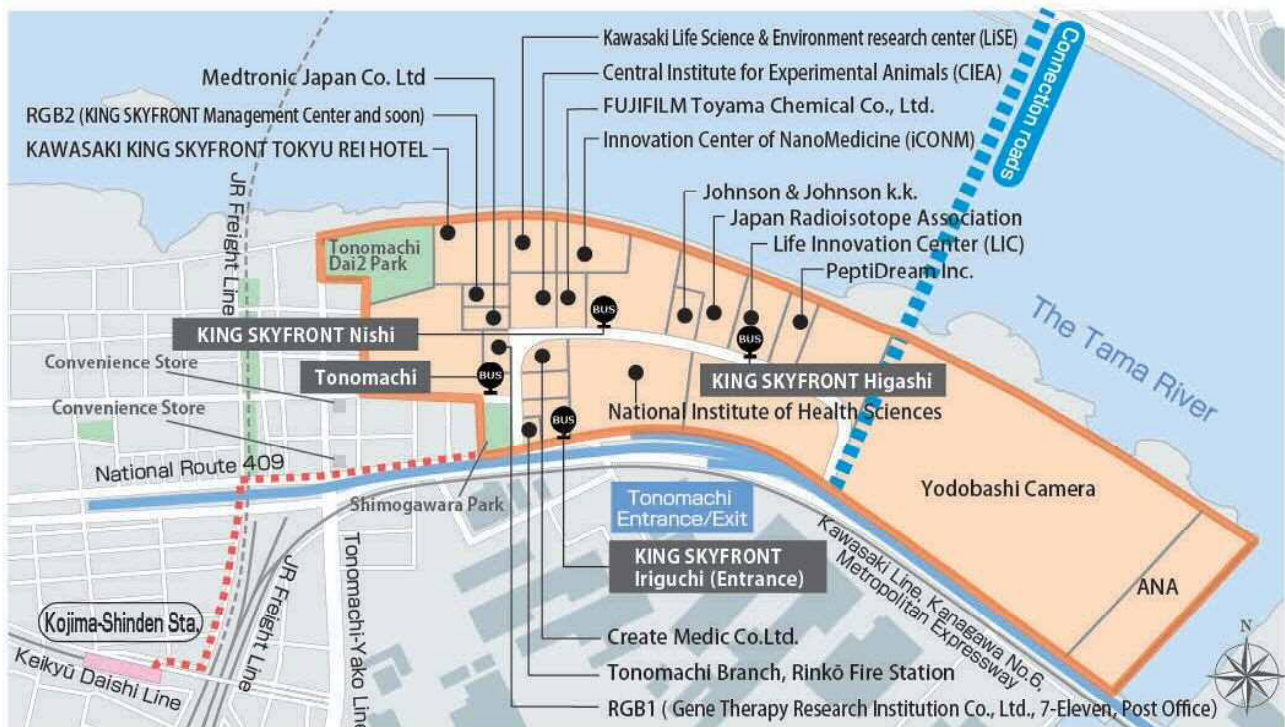
Implement various efforts in order to make children such as junior high school and high school students discover the attractiveness of science, including exchange sessions with young researchers and foreign researchers who conduct cutting edge research and extracurricular lessons.



# Access



\*Rinkō Rapid Express Bus bound for Ukishima-bashi also stops at "KING SKYFRONT Iriguchi (Entrance)". It leaves from the number 20 bus stop at Kawasaki Station's East Exit.



## Inquiries



**Coastal Area International Strategy Headquarters, Kawasaki City**  
 RGB2 1A, 3-25-10, Tonomachi, Kawasaki-ku, Kawasaki-City, 210-0821  
 Tel. +81-44-276-9209

**2nd Project Promotion Division, Project Promotion Department, East Japan Urban Renaissance Office, Urban Renaissance Agency**

13F, Shinjuku I-Land Tower, 6-5-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo, 163-1313

Tel. +81-3-5323-0525

(2019.8)