

February 9th, 2015

Hiroyasu Akiyama Mayor of Kashiwa City

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(Partnership between public and private sectors and resident participation)

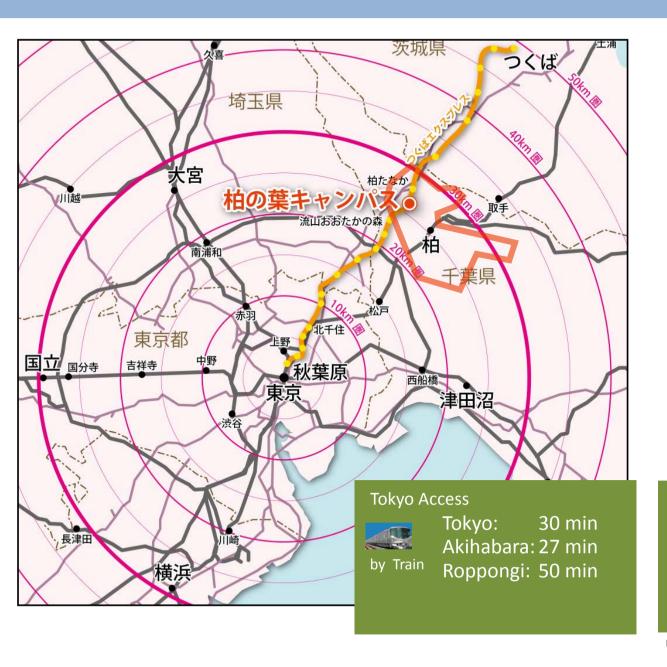
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(A New Vision for the Cities of Tomorrow)



### 1. The Environs

### Location



25 km

from central Tokyo

27 minutes

by Tsukuba Express from Akihabara

**Airport Access** 

by Train

Haneda: 58 min

Narita: 62 min

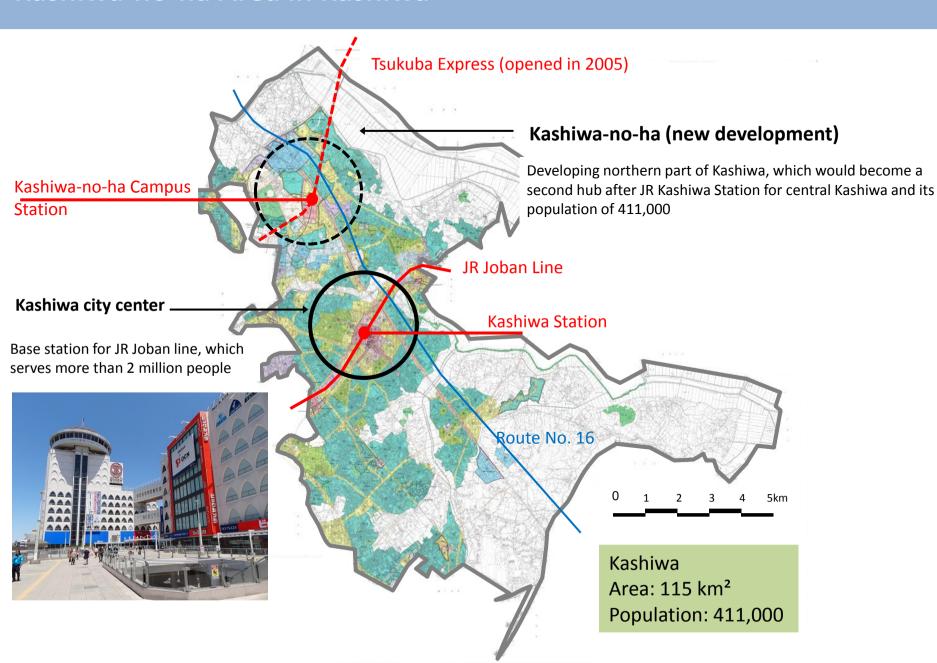


Haneda (54km): 60 min

by Car Narita (48km): 60 min\*

Note: Excluding transfer and waiting times

### Kashiwa-no-ha Area in Kashiwa



# **Area under Development**



### Kashiwa-no-ha Campus



A land readjustment project area covering roughly 273 hectares and with a planned population of 26,000

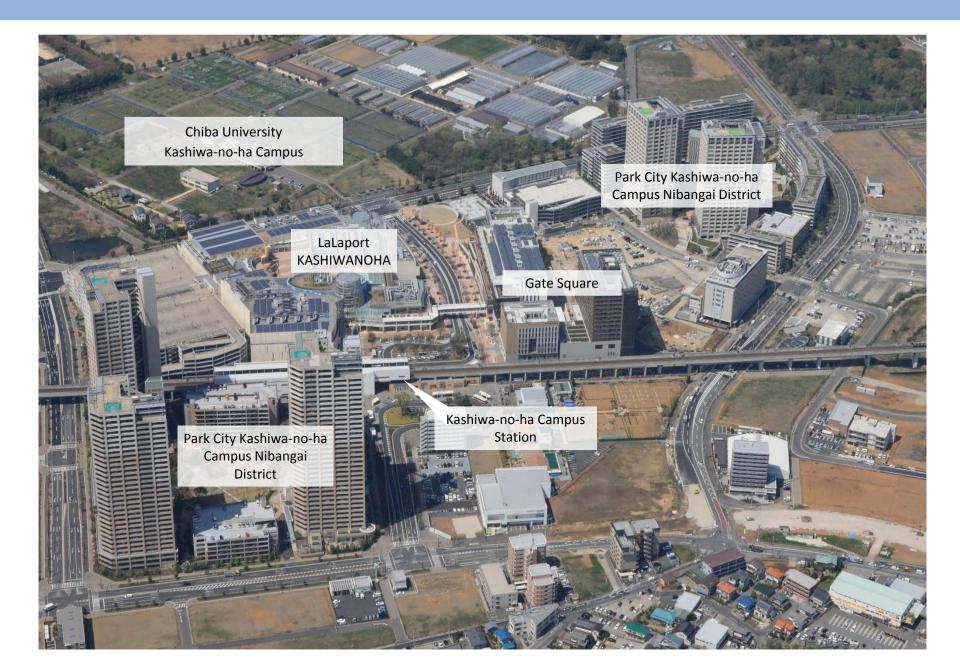


- Leveraging advanced knowledge and technologies
- A social experiment in which residents are participating





# The Leading-Edge Kashiwa-no-ha Campus Station Area



### 2. Urban Development Framework

(Partnership between public and private sectors and resident participation)



# **Area Potential**

Some of Japan's leading universities, research institutions, and industrial support facilities are here



# Basic Urban Development Approach at Kashiwa-no-ha





Leverage universities as the area's greatest resource and create an entirely new city that is a model for resolving social issues



Formulate a new urban development paradigm that eschews the traditional centralized administration approach

### **Kashiwa-no-ha International Campus Town Initiative**

In 2008, Chiba Prefecture, Kashiwa City, the University of Tokyo, and Chiba University formulated this initiative, with Mitsui Fudosan and the Urban Renaissance Agency also taking part

They presented the eight objectives shown below and 27 policies as priority measures







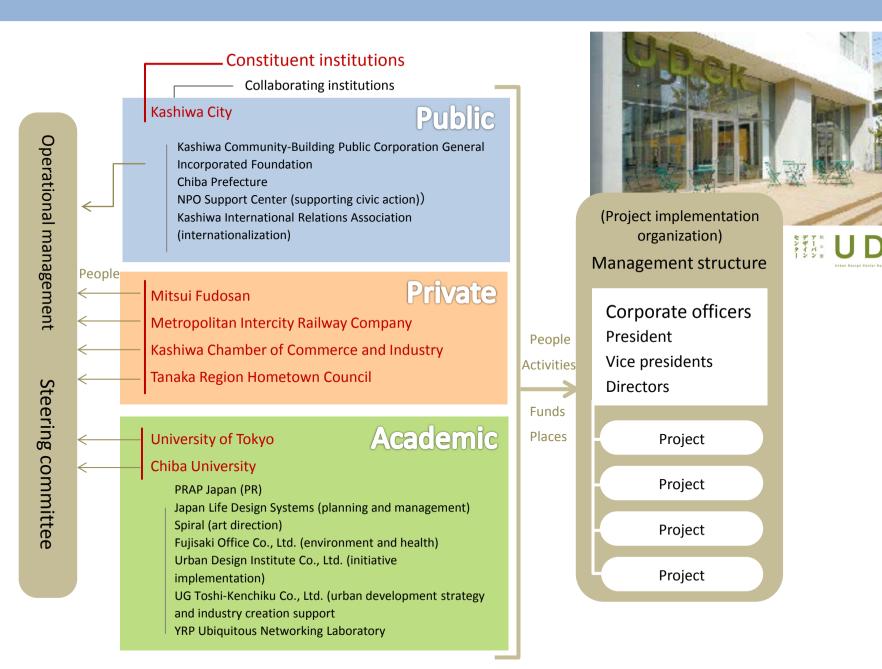


- Goal 1: Develop a garden city coexisting in harmony with the environment
- Goal 2: Deploy creative industrial and cultural spaces
- Goal 3: Create international academic, educational, and cultural spaces
- Goal 4: Maintain a sustainable transportation system
- Goal 5: Undertake a Kashiwa-no-ha approach that fosters

health

- Goal 6: Manage the area
  through a partnership between the public,
  private, and academic sectors
- Goal 7: Design high-quality urban spaces
- Goal 8: Develop a city that supports innovative fields

### Public, Private, and Academic Sectors Partnering to Operate UDCK



# **Functions Connecting UDCK and Initiative**

Collaborative urban development institution

# Urban Design Center Kashiwa-no-ha (UDCK)

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#### **Shared vision**

Kashiwa-no-ha International Campus
Town Initiative

Committee established to follow up with Initiative, with UDCK functioning as secretariat to continuously monitor progress

Chiba Prefecture, Kashiwa City,
University of Tokyo, Urban Renaissance
Agency, and Mitsui Fudosan

Kashiwa-no-ha International
Campus Town Initiative Committee

Follow-up secretariat: UDCK

Basic research conducted in fiscal 2006

Initiative formulated in fiscal 2007

Follow-up research in fiscal 2008 through 2012

Explored bolstering Initiative in fiscal 2012



Follow-up research in fiscal 2013

Bolstered Initiative in fiscal 2013

- 1. Spatial Design Subcommittee
- 2. Area Management Subcommittee
- 3. Mobility Subcommittee
- 4. Location Subcommittee
- 5. Agriculture and Food Subcommittee
- 6. Community Education Subcommittee
- 7. Area Promotion Subcommittee
- 8. UDC Deployment Subcommittee

# **UDCK's Vital and Open Facilities**

### **UDCK** Usage

Purpose	Fiscal 2013 gatherings (Previous year numbers in parentheses)
Town planning meetings	371(449)
University lectures, seminars, and research meetings	54 (43)
Forums and events	57(76)
Tours from Japan and abroad	184 (308)
Public lectures and workshops	51 (89)
Civic activities, preparations and work	36(29)
Total	753 (994)

 In fiscal 2013, UDCK limited usage during around one month owing to relocation preparations









- Functioning as multipurpose facility for everything from university lectures to town planning meetings and civic activities
- Number of event bookings in fiscal 2013:
   Around 750

### **Diverse Community Activities**

#### Town club activities



- Number of club activities: Around 26
- Number of registered people: Around 1,100 at end-March 2014
- Creating a local communities that brings residents together through their interests

Gardening near station





Citizens draw on tips from instructors of the Faculty of Horticulture, Chiba University to plant and care for flowers, vegetables, and herbs in front of Kashiwanoha Campus Station.

### **Diverse Community Activities**

#### **Marche Couleur**



Local stores and producers set up booths around the station with assistance from students. There are also events featuring artists and presentations about town development.

### **Community points program**





People can use community points they accumulate by participating in the town's activities or in field tests for local programs or activities. The points link Kashiwanoha residents and cultivate their awareness of the environment and health, creativity, and interaction.

### **Diverse Community Activities Involving Academia and Citizenry**

### **College link program**



Chiba University created this lifelong learning program, which positions the entire community as an educational vehicle. As well as offering systemic, the program it aims to create an interactive teaching and learning approach that shares the experiences and expertise of people from diverse backgrounds.

#### Kashiwa-no-ha Science Education Lab



A group from the University of Tokyo aims to revitalize the community by communicating through science. The group shares noteworthy achievements through the Science Café and runs traveling science classes for children and adults.



### 3. Urban Development Concept

(A model for resolving city issues)

### **Kashiwa-no-ha Urban Development Concepts**

# A new vision for the cities of tomorrow



Formulated three urban development concepts to help Japan fulfill its commitment to tacking challenges for the future of the world

Environmental-Symbiosis

A city that is people- and environment-friendly and fully disaster-prepared

Health and Longevity

A city in which people of all ages can enjoy healthy and secure living

New Industry Creation

Fostering growth fields that become sources of new vitality for Japan

# Designated as Comprehensive Special Zone and Future City

Two systems to materialize Japan's growth strategy

Comprehensive Special Zone for regional revitalization

Japanese government offering deregulation and tax incentives for advanced regional vitalization initiatives



**Future City** 

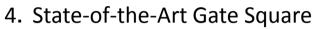
Japanese government providing financial assistance for advanced initiatives to tackle environmental and social aging issues in creation of cities as models for the world



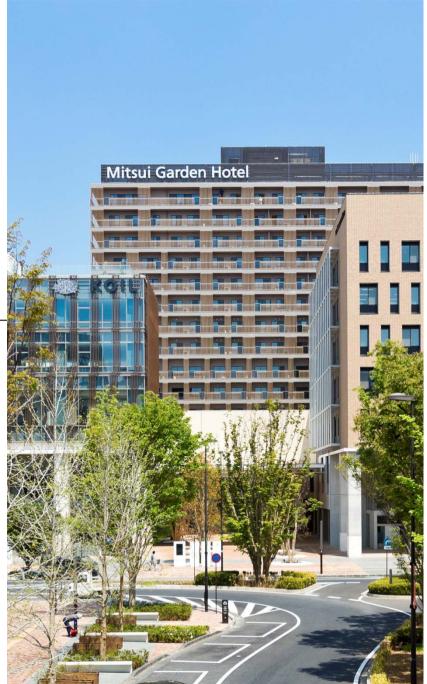
### December 2011

Kashiwa City received both designations, centering on the Kashiwa-no-ha Campus

Japanese government is providing comprehensive support to swiftly materialize the world-class Kashiwano-ha Smart City Model



(Demonstration to Implementation)

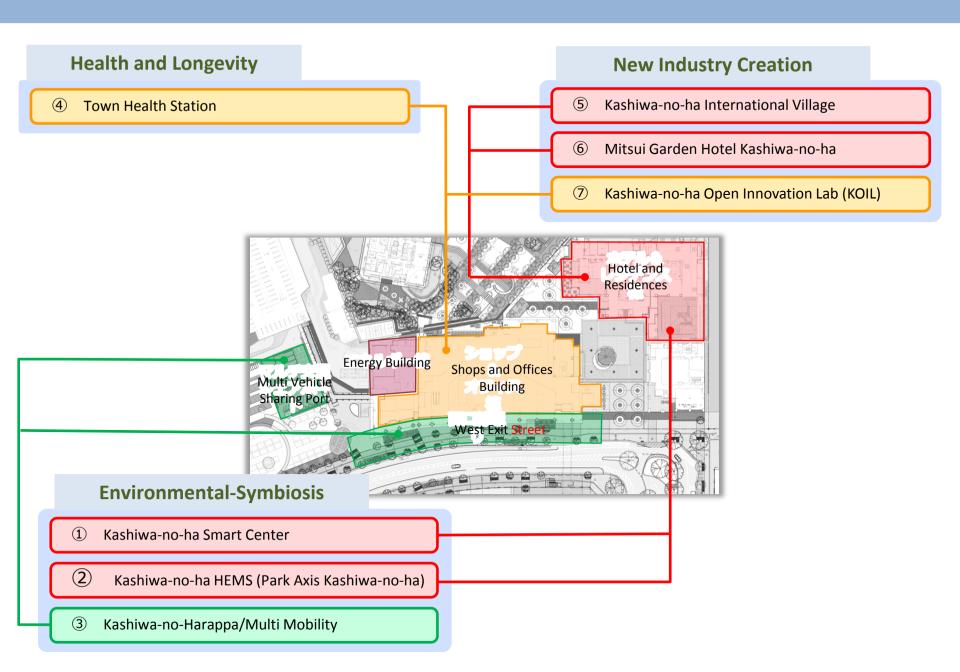


### State-of-the-Art Gate Square

July 2014 saw the grand opening of Gate Square, which integrates the environmental, healthcare, and new industry creation components of a smart city.



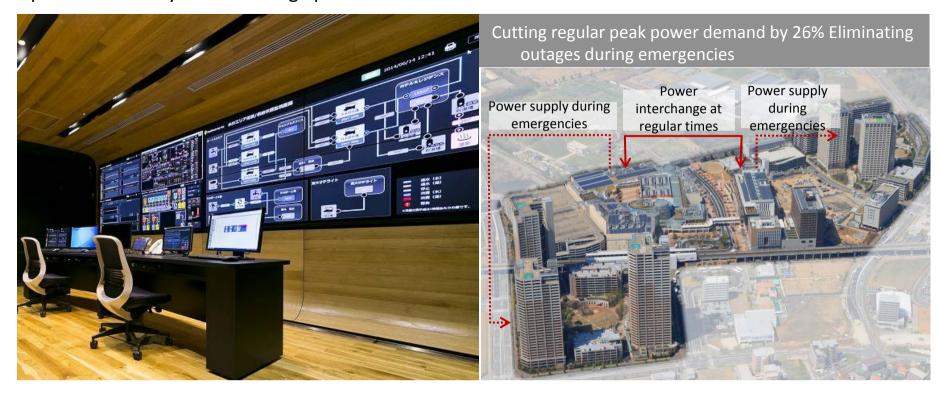
### **Key Facilities**



### **Urban Energy Operations, Monitoring, and Control Centers**

### Kashiwa-no-ha Smart Center

Leveraging the Kashiwa-no-ha Area Energy Management System to operate a smart grid that was Japan's first facility to interchange power between districts



Key points

- Managing and controlling energy for entire region
- Power interchange setup for emergencies

### Residences Employing Kashiwa-no-ha HEMS

### Kashiwa-no-ha HEMS (Park Axis Kashiwa-no-ha)

Residences equipped as standard with the Kashiwa-no-ha Home Energy Management System (HEMS), drawing on energy conservation advice to control air-conditioning and lighting



Key point

Conserves energy while supporting disaster prevention and community involvement

### **Floor Offering Preventing Healthcare Services**

### **Town Health Station**

12 medical facilities and health services shops that emphasize preventive care





Shops that are fun and provide healthy lifestyle experiences



Free health support facility that University of Tokyo oversees

Key points A-shi-ta Health Support Lab

**Town Health Station** 

- Health measurement services drawing on fruits of advantage research
- Framework in which citizens collaborate in facilities operations
- Each store offering unique health methods and services

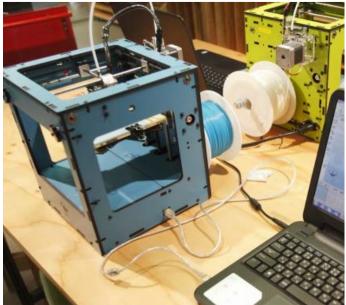
### Office Environment to Encourage Innovation

# **KOIL** (Kashiwa-no-ha Open Innovation Lab)

Encourages innovation through interactions between diverse people, helping to create new industries through startup assistance from experts and networking events



KOIL Park: Japan's largest coworking space



KOIL Factory: A digital manufacturing workshop complete with 3D printers and other systems

### Key points

- Diverse facilities create a one-stop innovation site
- Encouraging reactions through events and startup support programs

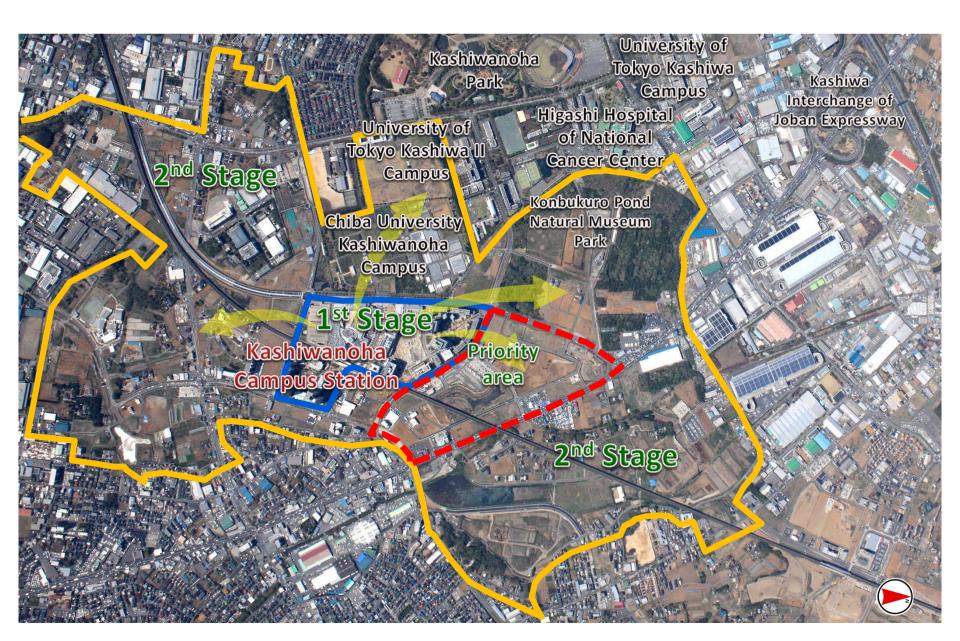


### 5. Collaboration between Portland and Kashiwa-no-ha

(A New Vision for the Cities of Tomorrow)



### Overall Kashiwa-no-ha Smart City Concept (Future Areas)



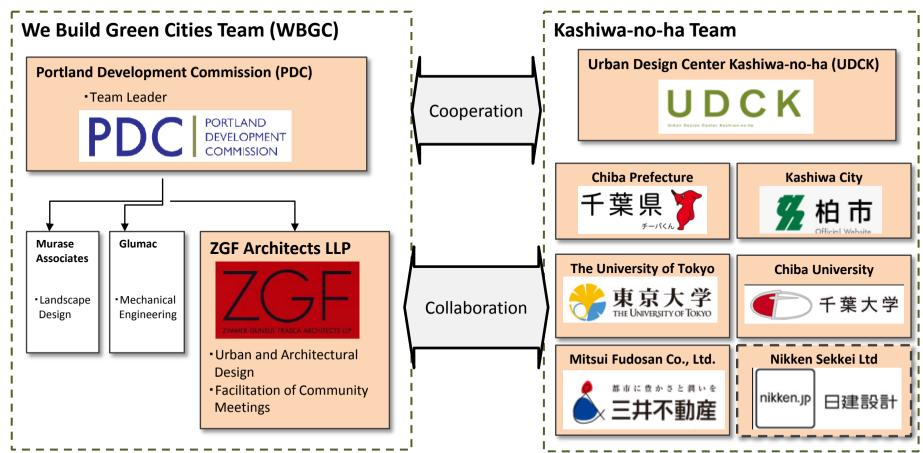
### Collaborative Structure between Portland and Kashiwa-no-ha



Provide Community-based Urban Design, Know-Hows, Experiences, and Sustainable Development

Provide Opportunities to Participate in Innovative Community Organization in Kashiwa-no-ha





# Vision proposed for Kashiwa-no-ha Smart City Innovation Campus

