

GTB Bio-innovation Promotion Areas

5. Kawasaki Area

The Open Innovation City with Direct Access to Haneda Airport



3. HOTS HILL

(Hongo/Ochanomizu/Tokyo Station Area)
The Largest Concentration of Academia in GTB



From Press Release

4. Nihonbashi Area

Global life science business hub in the heart of Tokyo



From LINK-J HP

1. Tsukuba Area

The Biggest Science City with Various Institutions

From brochure



6. Yokohama Area

Innovative City Focusing on Health and Medical Care



7. Shonan Area

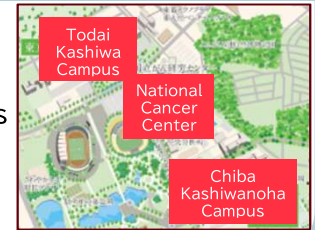
An Innovation Hub with the Largest Wet Lab, in Collaboration with Neighbouring Hospitals



Shonan Health Innovation Park

2. Kashiwanoha Area

The Smart City with Top-Tier Universities and the National Cancer Center



From Kashiwanoha Smart CityHP

8. Chiba/Kazusa Area

The Research Base of Plant, Immunological Medicare and Biomannufacturing



Kazusa DNA Research Institute

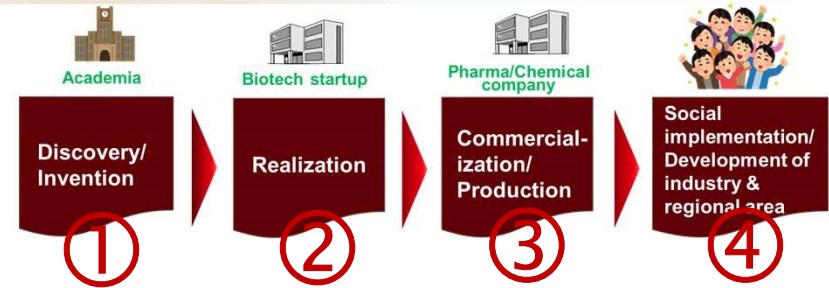
Chiba University

NITE Biological Resource Center

Note 1) In addition to areas above, Shinjuku, Shinanomachi, Waseda, Tsukiji, Daiba, Tokorozawa, and Wako are emerging areas.

Note 2) As new areas are developed, area definition maybe restructured.

Facts & Figures (As of June, 2024)



① R&D:

24 Government-funded projects

Total max. **~1.6 Bil. USD** / 10 years (2021-2030)

② Startup Support:

Supported by Government

~1.4 Bil. USD (Estimated) / 7 years (2023-2030)

③ Bio manufacturing:

20 Biologics manufacturing sites or headquarters

Subsidies of **~1.8 Bil. USD**

④ Private investment:

Total **>5.5 Bil. USD** / ~3 years (2021-2024)

R&D: Government-funded Projects (As of June, 2024)

25 Government funded projects
Total max. ~1.6 Bil. USD / 10-yr (2021-2030)

Tsukuba



Tsukuba Digital-Bio International Center (Univ. of Tsukuba)



Promotion of Innovation in Medical-engineering Collaboration (Tsukuba Global Innovation Promotion Agency)



Green Innovation (Sekisui Chemical)

Kashiwanoha



Innovative Next Generation of Oligonucleotide Therapeutics (Tokyo Univ. of Sci.)



Implementation of regenerative, cell and gene therapies (J-TEC, Univ. of Tokyo, National Cancer Center, etc.)



Cooperation among regional core and distinctive research universities (Chiba Univ.)

HOTS HILL



Co-JUNKAN Platform (Univ. of Tokyo)



Flagship area for Vaccine Development (Univ. of Tokyo)



Project to Accelerate Biomanufacturing Revolution (Zacrosi)



Implementation of regenerative, cell and gene therapies (TMDU)

Recycling-oriented Society (Tokyo Univ. } of Agr. & Tech.)



Kawasaki



Resilient Healthy Aging Society (iCONM)



Green Innovation (Chitose)



Support Org. for Vaccine Development (CIEA)



Implementation of regenerative, cell and gene therapies (Fujita Med. Univ., Keio Univ., CIEA, RINK)

Shonan Area



Innovative Shin-Shonan (Yokohama Nat'l Univ.)



Implementation of foodtech (Integriculture)



Green Innovation (Fuji Film)

Yokohama



Metacare City (Yokohama City Univ.)



Wellbeing (Keio Univ.)



Manufacturing protein raw materials (Utilization of Carbon Dioxide Institute)



Green Innovation (Sojitsul)

Chiba-Kazusa



Bio Foundry (GEI)



Synergy Org. for Vaccine Development (Chiba Univ.)



Green Innovation (NITE)

USD is converted from JPY by average exchange rate (\$1 = ¥128) through 2021-2023.

Incubation: Facilities (As of June, 2024)

Total floor area of ~569,000 m²



5. Kawasaki Area 71,499 m²

1. Life Innovation Center (LIC) 16,105
2. Life Science & Environment Research Center (LiSE) 2,000
3. iCONM in Collaboration with BioLabs 335
4. Research Gate Building III (RGBIII) 10,000
5. Kawasaki Business Incubation Center (KBIC) 34,959
6. Kanagawa Science Park (KSP) 7,535
7. Kawasaki-NEDO Innovation Center (K-NIC) 565

3. HOTS HILL 10,621 m²

1. TIP (TMDU Innovation Park) 664
2. The University of Tokyo Entrepreneur Lab 3,816
3. The University of Tokyo Entrepreneur Plaza 3,642
4. HIRAKU GATE 2,246

4. Nihonbashi Area 63,696 m²

1. Nihonbashi Life Science Buildings (12 facilities) 18,037
2. Mitsui Link Lab Shinkiba 1 11,170
3. Mitsui Link Lab Shinkiba 2 18,240
4. Mitsui Link Lab Shinkiba 3 14,000
4. Mitsui Link Lab Kasai 2,249

1. Tsukuba Area 17,683 m²

1. Tsukuba Center, Inc. (TCI) 11,200
2. Tsukuba Start Up Plaza - Start Up Office 265
3. Tsukuba Startup Park 1,852
4. Astellas SakuLab-Tsukuba 916
5. X/S Worksite 3,450

6. Yokohama Area 39,128 m²

1. Tokyo Tech Industry-University Collaborative Research Building J3 Rental Laboratories 1,527
2. Tokodai Yokohama Venture Plaza 2,795
3. Yokohama Bio Industry Center 6,000
4. Yokohama Leading Venture Plaza 5,552
5. Yokohama Joint Research Center 8,363
6. Yokohama Kanazawa High-Tech Center Techno-Core 14,891

7. Shonan Area 300,000 m²

1. Shonan Health Innovation Park 300,000

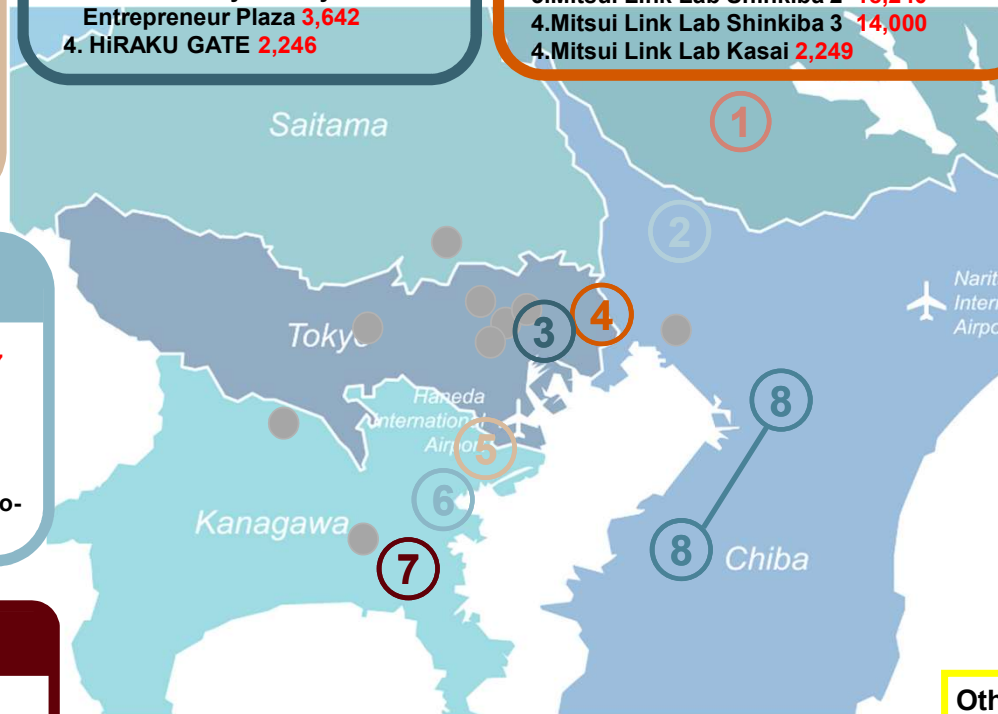
2. Kashiwanoha Area 49,049 m²

1. Tokatsu Techno Plaza 11,881
2. Todai-Kashiwa Venture Plaza 2,856
3. The University of Tokyo Entrepreneur Hub (Kashiwa II Campus Industry-Academia-Government-Private Collaboration Building) 1,825
4. Mitsui Link-Lab Kashiwa-no-ha 1, 10,978
5. Kashiwa-no-ha Open Innovation Lab (KOIL) 9,794
6. KOIL TERRACE 11,715

8. Chiba/Kazusa Area 4,184 m²

1. Kazusa Incubation Center, Kazusa Akademia Park 1,449
2. Chibadai Inohara Innovation Plaza 2,735

Others within GTB area 18,076 m² in total



* Numbers in Red: square meters (m²) <1 m² = ~10.8 ft²>

Incubation: Acceleration activities (As of June, 2023)

5. Kawasaki Area

K-NIC: Consultation, business matching
iCOMN: Collaboration with BioLabos
King Skyfront: Tonomachi connect
RINK: Tonomachi-based regenerative therapy network
KSP: Support for entrepreneurship and growth

3. HOTS HILL

TIP: Innovation Idea Contest
Univ. of Tokyo: FoundX
Univ. of Tokyo IPC: 1stRound
Beyond Next Ventures: BRAVE
PLUG and PLAY JAPAN: Plug and Play Program

4. Nihonbashi Area

INDEE Japan: X-DOJO
Beyond Next Ventures: BRAVE
DCI Partners: Venture creation investment
National Cancer Center: Accreditation system for certified ventures
LINK-J: Out of Box Consultation

1. Tsukuba Area

Univ. of Tsukuba: Research Studio
TGI: Support for medical device business
TLSK: Pitch events, Young people's networking
Tsukuba City: Startup ecosystem consortium
TCI: Support for drug discovery and financing arrangements, innovation matching

6. Yokohama Area

LIP Yokohama: Support for overseas expansion and development of human resources
YOXO: Startup support by Yokohama City
Tokyo Inst. of Tech.: START (Support for startup ecosystem creation), entrepreneurship education organization
Tokyo Inst. of Tech./Beyond Next Ventures: BRAVE

2. Kashiwanoha Area

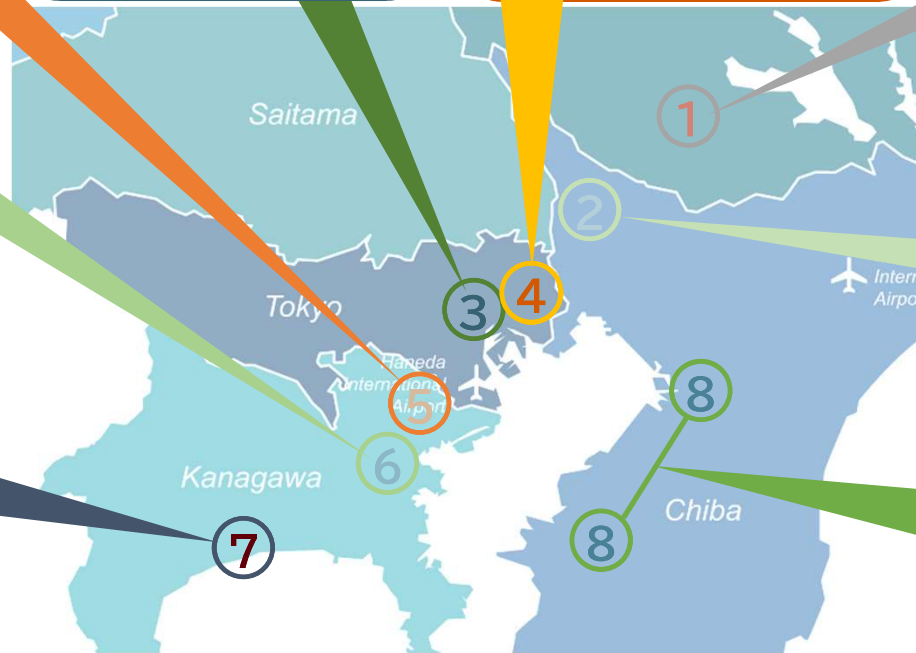
Asian entrepreneurship award (AEA)
National Cancer Center/UTEC/Beyond Next Ventures: NCC Incubation Program
Mitsui Fudosan/Kashiwa City: KOIL startup Program
Kashiwa City/TX Entrepreneur Partners: Startup Concierge Business

7. Shonan Area

iPark: SAMURAI (Consultation), Venture Mentoring Service, Incubation Program

8. Chiba/Kazusa Area

Chiba Pref.: Acceleration program of innovative venture enterprise growth, Chiba entrepreneur support business
Chiba Univ.: JETRO's desk for industry-academy collaboration
NITE: DBRP, Consultation for Cartagene Law



Starup Support: Certified VC for Drug Discovery Ecosystem (As of June, 2024)

3. HOTS HILL

-  Fast Track Initiative, Inc.
-  DCI Partners Co., Ltd.
-  UTokyo Innovation Platform Co., Ltd.
-  The University of Tokyo Edge Capital Partners Co., Ltd.

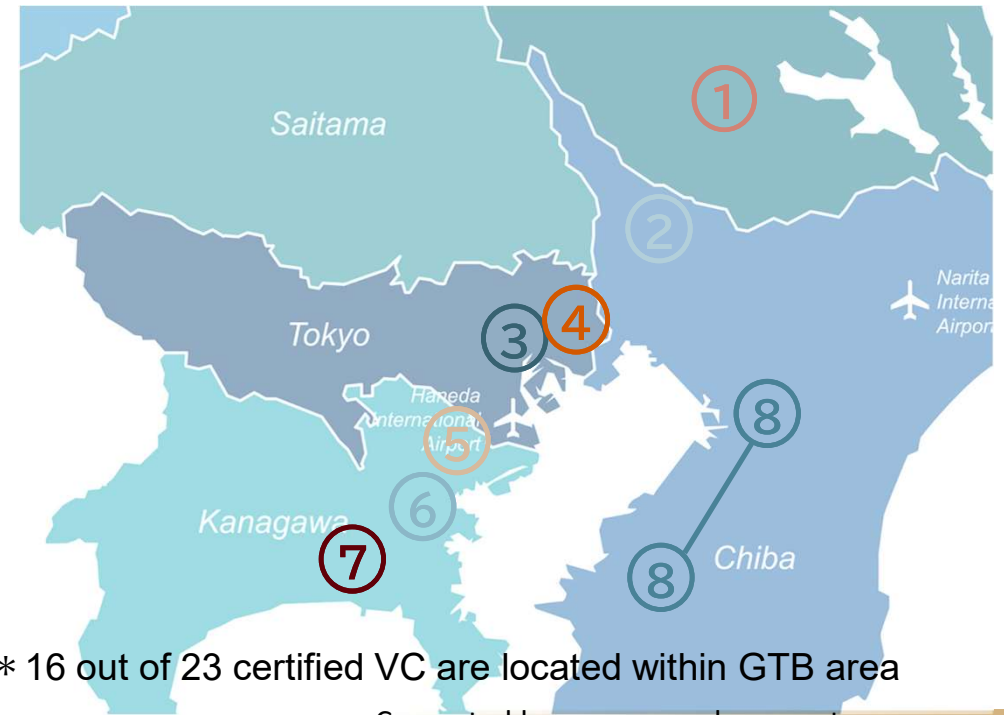
4. Nihonbashi

-  Remiges Ventures, Inc.
-  Newton Biocapital Partners
-  Mitsubishi UFJ Capital Co., Ltd.
-  Beyond Next Ventures Inc.
-  DBJ Capital Co., Ltd.

Others

-  Catalys Pacific, LLC (Minato-ku)
-  D3 LLC (Shibuya-ku)
-  Eight Roads Capital Advisors Hong Kong Limited (Minato-ku)
-  Saisei Ventures LLC (Shinagawa-ku)
-  JIC Venture Growth Investments (Minato-ku)
-  JAFCO Group Co., Ltd. (Minato-ku)
-  ANV Management, LLC.

Total support for GTB area by government:
1.4 Bil. USD (domestic, estimated by JBA)
 50% of Startups are located within GTB area.



* 16 out of 23 certified VC are located within GTB area

Converted by average exchange rate through 2021-2023: \$1 = ¥128

Starup Support: Adopted Projects of Drug Discovery Startups (As of June, 2024)

4. Nihonbashi

- Phase II study of gene therapy for visual restoration (**Restore Vision**)
- Development of a small molecular KATP channel inhibitor for Alzheimer disease (**Neusignal Therapeutics**)
- Development of a novel cancer immunotherapy by TLR stimulators carried on the nano-particle drug delivery system selective to M2-like macrophage in the tumors (**United Immunity**)
- R&D of autologous novel CAR-T therapy incorporated with GITRL against GD2-positive intractable solid tumors (**T Cell Nouveau**)

Total support for GTB area by government:
1.4 Bil. USD (domestic, estimated by JBA)

50% of Startups are located within GTB area.

* 11 out of 19 adopted projects are conducted by startups located within GTB area

6. Yokohama Area

- Development of small molecular drug SFG-02 for the application of underactive bladder (**Juro Sciences**)
- Development of a novel LAT1 inhibitor for multiple sclerosis (**j-pharma**)

7. Shonan Area

- Global clinical study of human iPS-derived cardiomyocyte OZTx-556 for the application to patients with severe heart failure (**Oizuru Therapeutics**)

Others

- Development of RSV vaccine with a novel antigen and adjuvant targeted to TLR9 in pDC (**Immunohelix**)
- Global development and P1/P2 study of iPS-derived corneal endothelial substitute cells CLS001 (**Cellusion**)
- Development of human adipocyte-derived platelet-like cells as an allogeneic regenerative medicine for the treatment of intractable skin ulcer (**AdipoSeeds**)
- Development of a novel oral lipid metabolism modulator PRD001 for dyslipidemia (**PRD Therapeutics**)

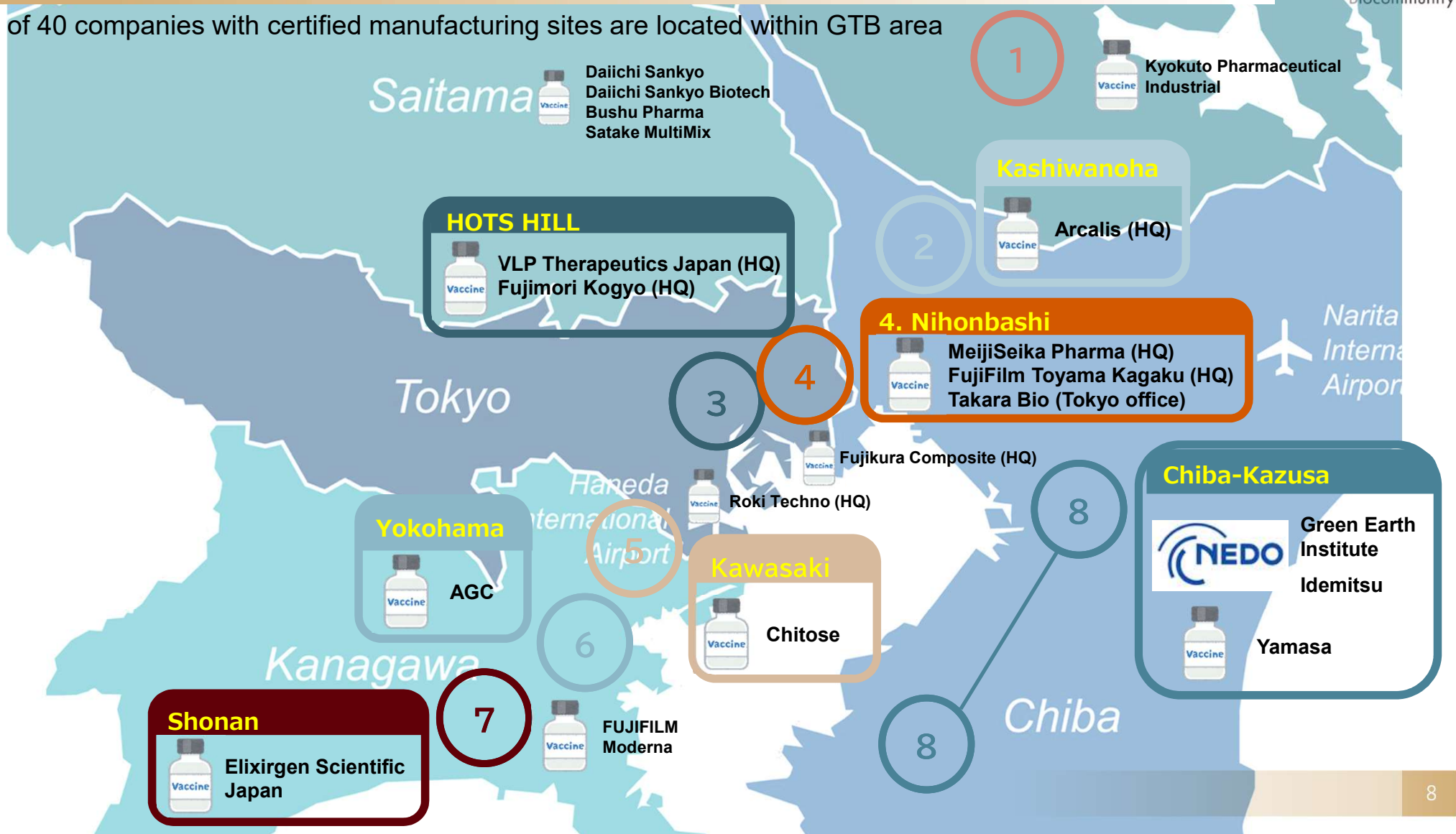


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Bio manufacturing: Facilities/HQ (As of June, 2024) Subsidies: ~1.6 Bil. USD



* 20 out of 40 companies with certified manufacturing sites are located within GTB area



Private Investment (Apr., 2021 to Jun., 2024) Total 5.5 Bil. USD /~3 years

5. Kawasaki Area

Peptidream will construct laboratories (152M).
Shimadzu opened "Shimadzu Tokyo Innovation Plaza" (16M).
Fujita Medical Univ. opened "Innovative Medical Research Center" (-).
Toagosei will construct a research center (-).

>168 Mil. USD

6. Yokohama Area

Hoop Partners opened rental lab. (12.1M incl. 1.8M of R&D related).
AGC introduced biopharmaceutical manufacturing site (390M).
Chugai Pharmaceutical opened research center (1325M).
Univaleo opened research center (92.8M).
Resonac opened research center (50M).

>1528 Mil. USD.

7. Shonan Area

Takasago International acquired old Chugai's research center (-).
Raised funds: Chordia Therapeutics (71M), PRISM (43.2M), Fimecs (26.1M), Reborna Biosciences (13.2M), Orizuru Therapeutics (10.3M), GexVal (9.9M), GenAhead Bio (1.2M), SEEDSUPPLY (1.4M)
Noile-Immune Biotech (172M), K Pharma (78M), Chordia Therapeutics (125M) and PRISM BioLab (133M) were listed.

>353 Mil. USD

3. HOTS HILL

Univ. of Tokyo and Kubota agreed to collaboration (78M/10 yr.).
JR East, Cannon/Canon Medical Systems and TDMU agreed to collaboration (-)
Green Earth Institute (90.4M) and Cyfuse (95.9M) were listed.
Moderna acquired OriCiro Genomics (85M).

>349 Mil. USD

4. Nihonbashi Area

Mitsui Fudosan opened Mitsui Link Lab Shin-Kiba 2 & 3 (-).
Eurofin acquired Repertoire Genesis (-).
Medikit acquired Bolt Medical (-).
Perseus Proteomics was listed (81.3M).
Renaissance was listed (81.3M).
Susmed was listed (227.8M).
CUORIPS was listed (79.7M).
Others (23 companies, total of 360M)

>1049 Mil. USD

1. Tsukuba Area

Eisai renovated Tsukuba Research Center (66.3M).
Prologis constructed logistic center with incubation facility (-)
Nisshin Foods acquired real estate for manufacturing facility (101.4M)
Tokuyama opened the 2nd Research Center (-).
Hitachi High-Tech and Eppendorf established development/manufacturing facilities (-).
Joyo Bank, JCP and TCI jointly associated "Tsukuba Exceed 2nd Fund" (7.8M).
Nocturne Capital was established as Tsukuba-based seed VC (-).

>203 Mil. USD

2. Kashiwanoha Area

Teijin opened CDMO for regenerative medicine (-).
Astellas opened open innovation site (-).
H.U. Group opened a research center (-).
Mitsui Fudosan constructed rental labs/offices and hotel cooperative for NCC East Hospital (-).

>117 Mil. USD

8. Chiba/Kazusa Area

Startup companies originated from Chiba Univ. raised funds (total of 23M).
Green Earth Institute opened "Satellite Research Labs" and "Biofoundry Research Labs" (-).
Idemitsu will construct SAF manufacturing site (356M) and "Innovation Center" (390M).

>770 Mil. USD

Others

Japan Lyophilization Laboratory will establish a manufacturing site for diagnostic medicines (-)
Toso will construct a research facility (56M)
Chugai Pharmaceutical will construct manufacturing site (94M).

>150 Mil. USD.



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