GSC: Core Activities and Catalyzer Impact

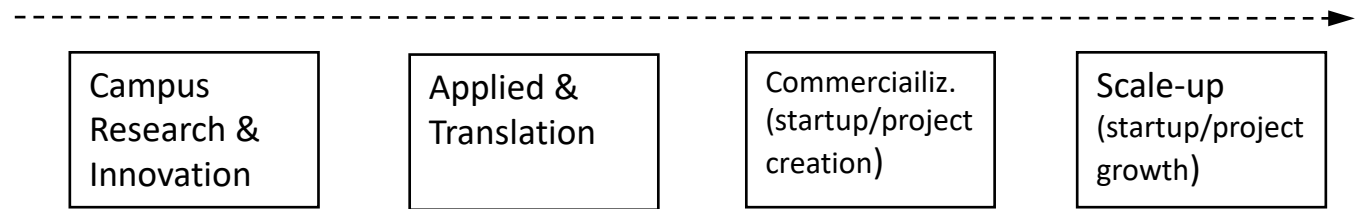## Startup Ecosystem, Partners and Global Links

** Ideas for Discussion **

GSC connectivity with startup ecosystem

Drive to market/societal impact

To support the creation of outcomes and tangible market/societal impact from research and innovation (R&I), the campus project will need to consider the flow of innovation to commercialization.
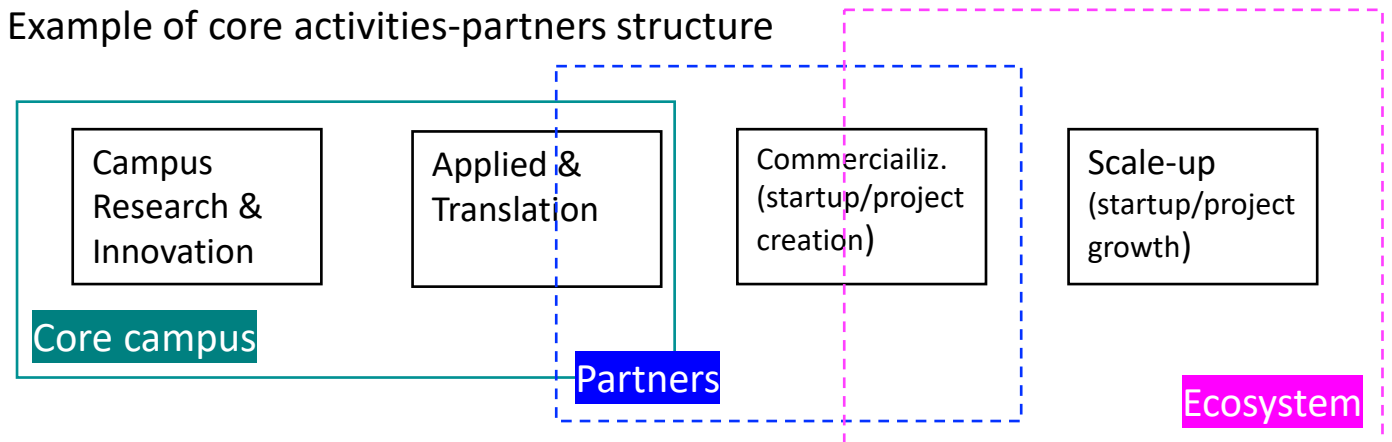
Example of R&I-to-commercialization flow

| Campus Research & Innovation | Applied & Translation | Commerciailiz. (startup/project creation) | Scale-up (startup/project growth) |

Core activity, partners & ecosystem

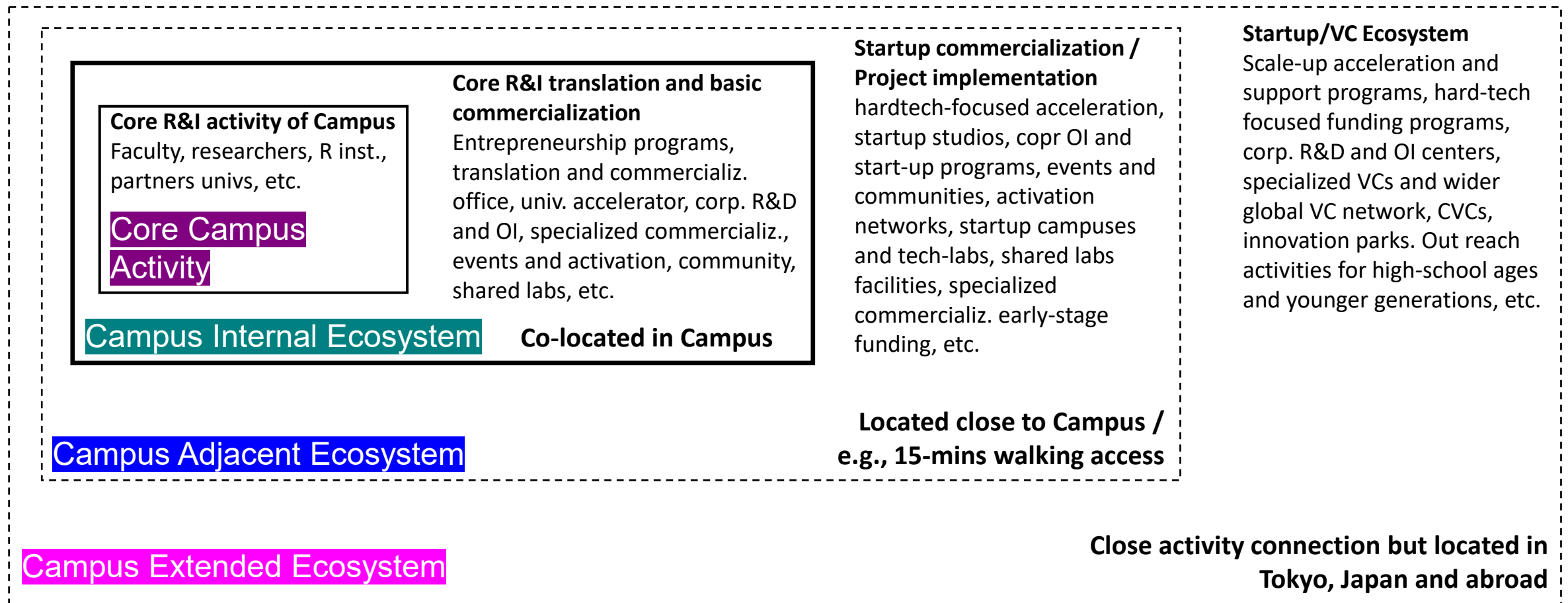The core of the campus will need to assess which layers it will cover directly and which layers it will partner with other actors, and the extent/closeness of these partnerships (e.g., levels and position of partners).

Example of core activities-partners structure

| Campus Research & Innovation | Applied & Translation | Commerciailiz. (startup/project creation) | Scale-up (startup/project growth) |

Core campus

Partners

Ecosystem

Campus ecosystem will require close connectivity with a diverse set of actors, some of which will need "interaction proximity"

Proposed layer model of campus wider ecosystem

Startup/VC Ecosystem
Scale-up acceleration and support programs, hard-tech focused funding programs, corp. R&D and OI centers, specialized VCs and wider global VC network, CVCs, innovation parks. Out reach activities for high-school ages and younger generations, etc.

Startup commercialization / Project implementation
hardtech-focused acceleration, startup studios, copr OI and start-up programs, events and communities, activation networks, startup campuses and tech-labs, shared labs facilities, specialized commercializ. early-stage funding, etc.

Core R&I translation and basic commercialization
Entrepreneurship programs, translation and commercializ. office, univ. accelerator, corp. R&D and OI, specialized commercializ., events and activation, community, shared labs, etc.

Core R&I activity of Campus
Faculty, researchers, R inst., partners univs, etc.

Core Campus Activity

Campus Internal Ecosystem   **Co-located in Campus**

Located close to Campus / e.g., 15-mins walking access

Campus Adjacent Ecosystem

Campus Extended Ecosystem   **Close activity connection but located in Tokyo, Japan and abroad**

Layer 1: Core programs and organizations to complement commercialization readiness from campus

This will be similar to commercialization office and programs from leading universities like MIT or Stanford, and internal programs for commercialization (e.g., the Engine, StarX)

** Examples of programs/partners for discussion **

Core R&I activity of Campus
Faculty, researchers, R inst., partners univs, etc.

Core Campus Activity

Core R&I translation and basic commercialization
Entrepreneurship programs, translation and commercializ. office, univ. accelerator, corp. R&D and OI, specialized commercializ., events and activation, community, shared labs, etc.

Campus Internal Ecosystem   **Co-located in Campus**

-> Japanese Universities and Research Institutes partners:
E.g., U of Tokyo, Keio U., Tsukuba U., U of Kyoto, Kyushu U., etc.
E.g., AIST, JAXA, NIMS, QST, RIKEN, JAEA, etc.

-> Corporate research labs/partners:
E.g., NEC, Takeda, MCG, etc.

-> Translation and commercializ.
E.g., Translation specialized office, WySS Inst.,

-> Seed funding programs*
E.g., SBIR, Massachusetts Life Science Center
E.g., University grants to R&D startups,

-> Share labs*
E.g., LabCentral,

-> Acceleration & Early-Stage funding program*
E.g., Stanford StartX, MIT The Engine, MIT delta v, UCB Sky Deck
E.g., JBLabs, Illumina, etc..

-> Corporate OI programs
E.g., MIT Industry Liaison Program,

* Can be public support

Layer 2:   Partners needed to locate within "proximity connection"

This will be similar to Kendal Square key partners in Boston, next to MIT – e.g., CIC, LabCentral, etc.

** Examples of programs/partners for discussion **

Startup commercialization / Project implementation
hardtech-focused acceleration, startup studios, events and communities, activation networks, startup campuses and tech-labs, shared labs facilities, specialized commercializ. early-stage funding, etc.

-> Bio/Hardtech acceleration*
E.g., Alchemist, INAM Berlin, IndiBio

-> Activation and community
E.g., MaRS, CIC, StationF

-> Shared Labs*
E.g., BioLAbs, EpiCenter, LasbCentral, CIC Labs Pennsylvania University

-> Early-Stage funding programs
E.g., Massachusetts Life Science Center

-> Corporate OI programs
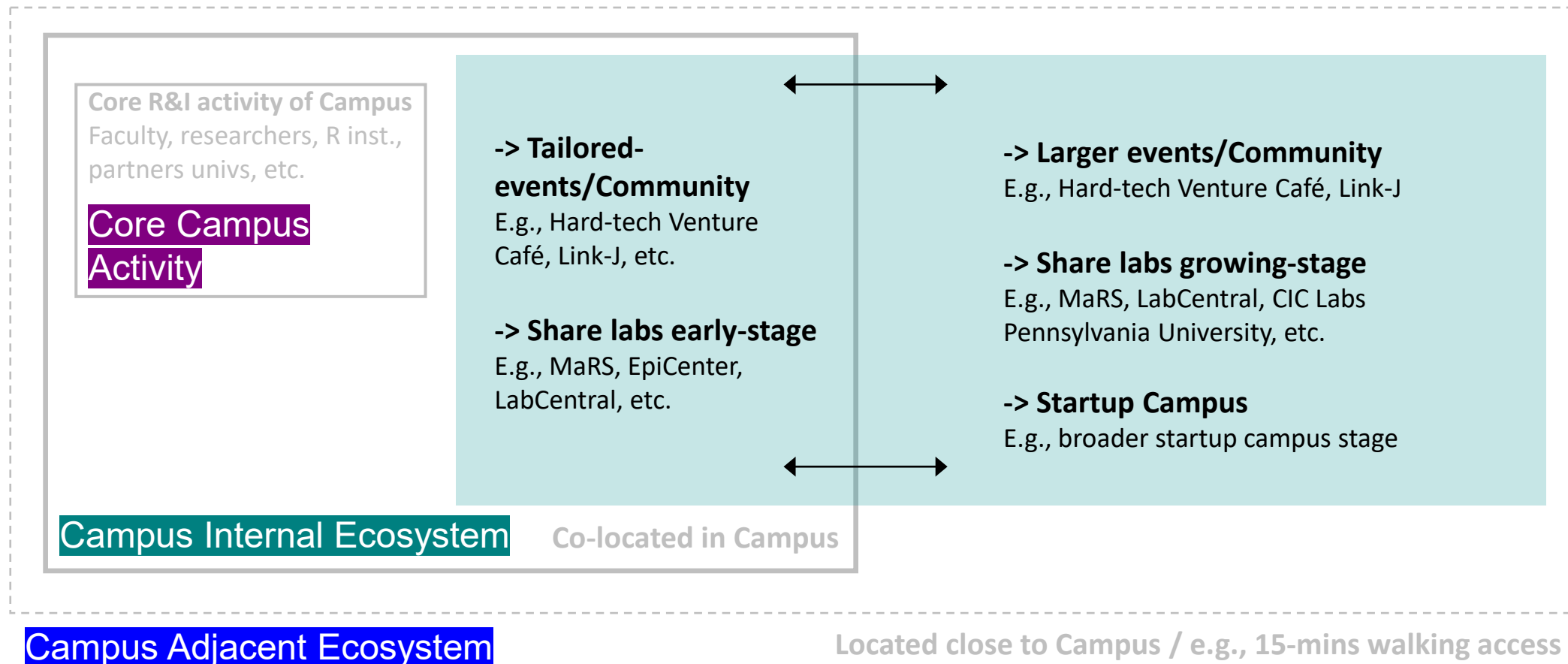E.g., NewLab studio programs,

* Can be public support

Campus Adjacent Ecosystem   Located close to Campus / e.g., 15-mins walking access

[In-Between L1 and L2]

Campus will need some key components/programs with strong connection with the larger ecosystem

Core R&I activity of Campus
Faculty, researchers, R inst., partners univs, etc.

Core Campus Activity

-> Tailored-events/Community
E.g., Hard-tech Venture Café, Link-J, etc.

-> Share labs early-stage
E.g., MaRS, EpiCenter, LabCentral, etc.

-> Larger events/Community
E.g., Hard-tech Venture Café, Link-J

-> Share labs growing-stage
E.g., MaRS, LabCentral, CIC Labs Pennsylvania University, etc.

-> Startup Campus
E.g., broader startup campus stage

Campus Internal Ecosystem   **Co-located in Campus**

Campus Adjacent Ecosystem   **Located close to Campus / e.g., 15-mins walking access**

Layer 3:　Extended ecosystem with in-depth activity and network connections

This will be similar to the larger ecosystem in Greater Boston, including connected VCs and accelerators, and larger network of connections with global VCs in NY, Bay area, etc.

** Examples of programs/partners for discussion **

Startup/VC Ecosystem
Scale-up acceleration and support programs, hard-tech focused funding programs, specialized VCs and wider global VC network, etc.

-> Specialized VCs*
E.g., Breakthrough Energy, Lowercarbon Capital, Arch Ventures, etc.

-> Global VCs & Scale stage funding programs*
E.g., Andreesen Horowitz, Lightspeed Venture Capital, Accel, General Catalyst, New Enterprise Associates, etc.

-> Scale-up / Hard-tech acceleration
E.g., Deeptech Labs

-> Hospital research commercialization programs
E.g., MGH, Shonan Health Park (Takeda)

-> Larger Hard-Tech communities / hubs
E.g., MassRobotics, Yokohama Hard-Tech Hub

-> Out reach activities*
E.g., MLSC's intern program and workshops

* Can be public support

Campus Extended Ecosystem　　　　　**Close activity connection but located in Tokyo, Japan and abroad**