



Tech Startup HOKURIKU (TeSH) Overview

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The industry-government-academia collaboration system in the three Hokuriku prefectures was recognized and selected for the national “University-Based New Industry Creation Fund Project”.

■ Nov. 2022 Government “Startup Development Five-year Plan”

— Increase investment 10x by FY2027 —

New Industry Creation Fund for University Startups (2023-2027) *Supplementary budget (98.8 billion yen)*

【Program 3】 Mr. KUBOTA Kiichi Governing board’s chairperson / President, KSP Inc.

1) D-Global

2) Startup Ecosystem Co-creation program (Aug. 2, 2023 Open call)

Base-city Platform Co-creation Support

Regional Platform Co-Creation Support



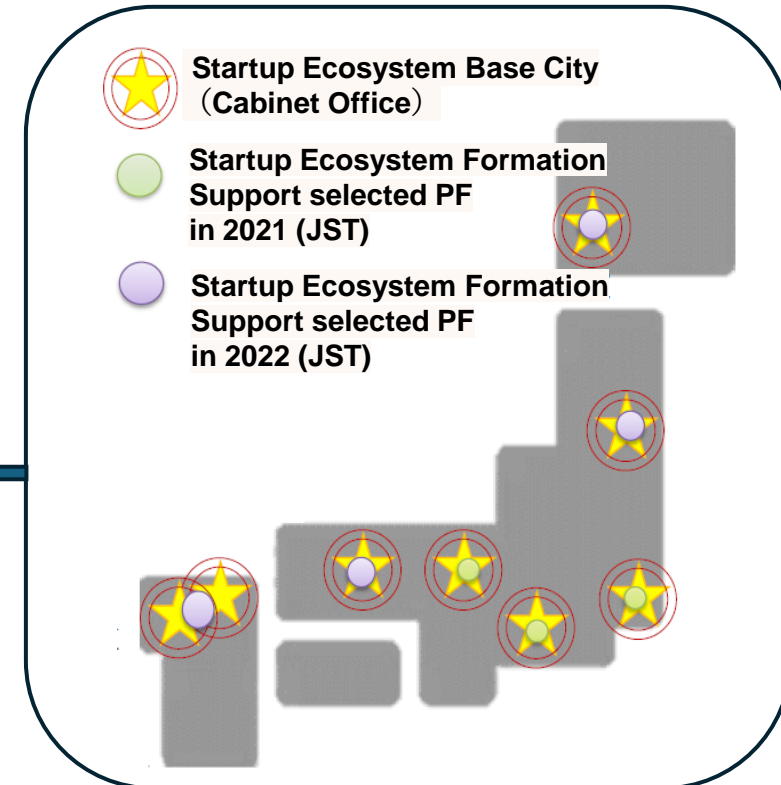
Tech Startup HOKURIKU(TeSH)

From Feb. 1, 2024

Selection reasons

- Collaboration in Hokuriku
- Application addresses startup creation challenges

• Allocation (Direct + Indirect expenses(30%)) 3.4150 billion yen (2023-2027)

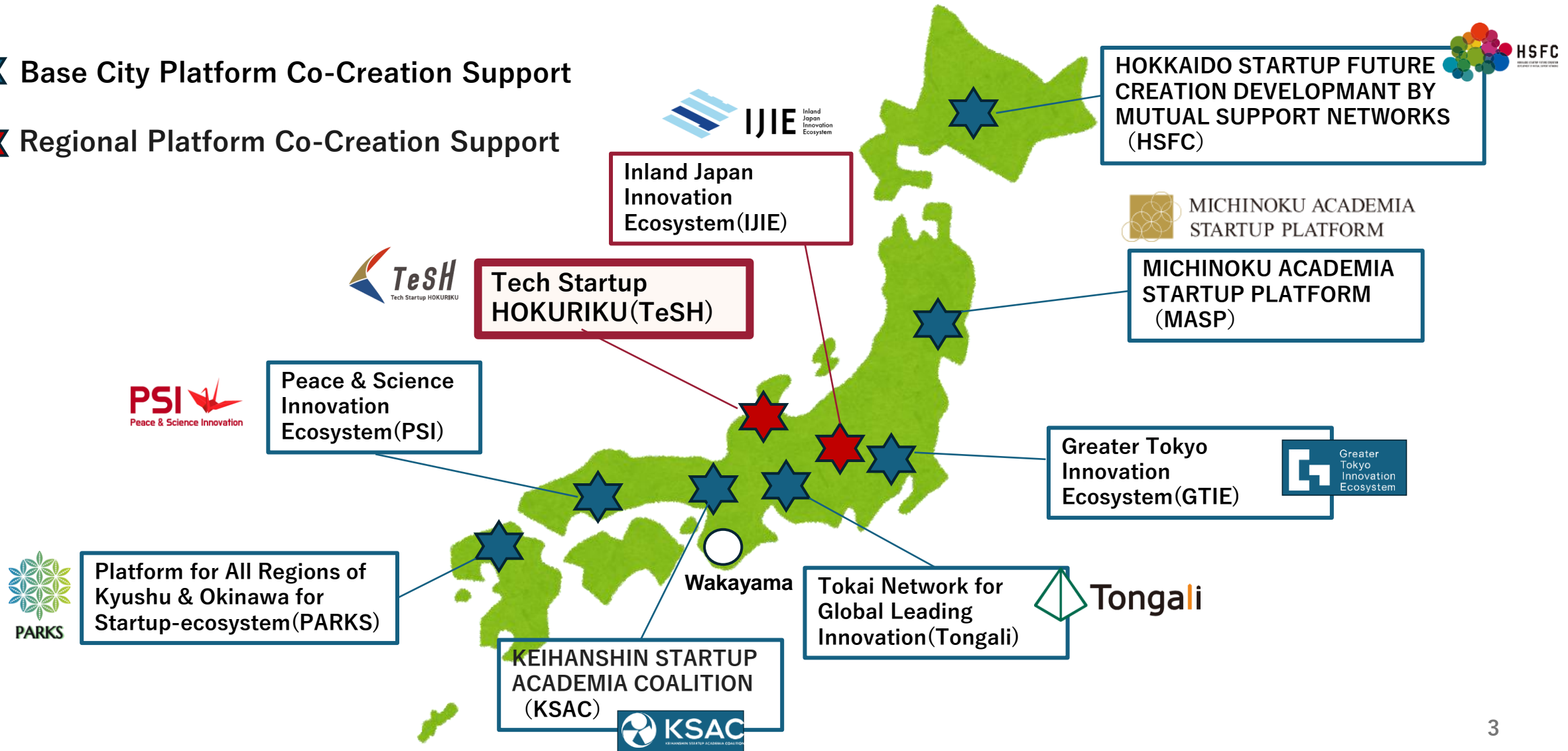


Supplementary budget New Industry Creation Fund for University Startups
(98.8 billion yen) (2023-2027)



Startup Ecosystem Co-Creation Program 9 Platforms

- ★ Base City Platform Co-Creation Support
- ★ Regional Platform Co-Creation Support



Dramatically improve the quality and quantity of startups from universities and technical colleges in the Hokuriku

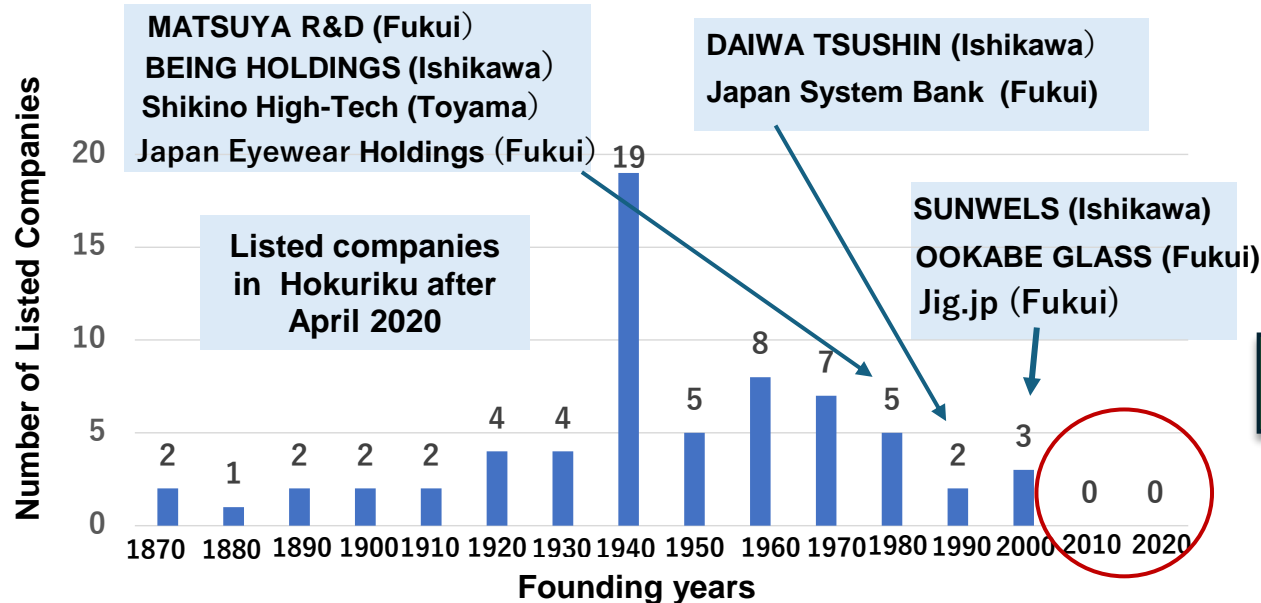
Hokuriku Industrial Region: Rank 7th in Japan for Industrial Shipments

Materials / Precision equipment / Plant / Manufacturing, AI / IT, Pharmaceutical / Medical device industries, Chemistry / Traditional crafts, etc.

Strong Research Capabilities

- ◇Life Sciences
 - Molecular Biology/Genetics (Kanazawa Univ. 10th)
 - Neuroscience (Kanazawa Univ. 5th)
 - Pharmacy (Univ. of Toyama 9th)
- ◇Technology
 - Engineering (Toyama Univ. 7th)
 - Materials Science (JAIST 8th)
 - Computer Science (Kanazawa Univ. 7th)
 - Chemistry (JAIST 3rd)
- ◇Agriculture (Kanazawa Univ. 3rd)

Few Listed Startup Companies



Founding years of 70 companies with headquarters in Hokuriku and Listed companies after 2020

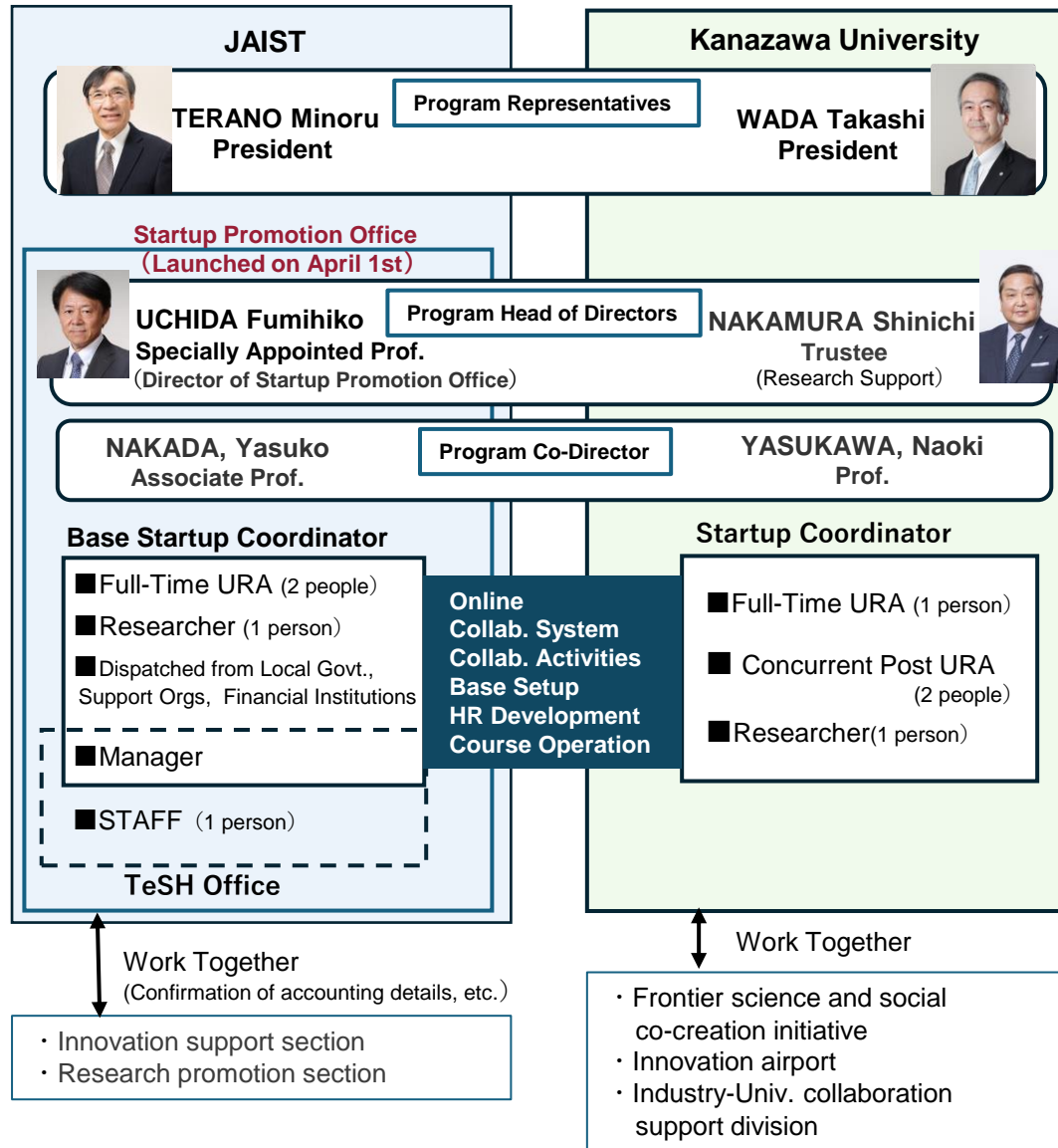


Academia Steering Toward Startup Development

Enhance Quality & Quantity of University & Technical College-Launched Startups in Hokuriku

Implementation Structure

Host Organizations



Joint Organization for Creating Startups

Univ. of Toyama
Toyama Prefectural Univ.
Toyama College

Ishikawa Prefectural Univ.
Komatsu Univ.
Kanazawa Institute of Tech
Kanazawa Medical Univ.
Hokuriku Univ.
Ishikawa College

Univ. of Fukui
Fukui Prefectural Univ.
Fukui Univ. of Tech
Fukui College

12 Universities & 3 Technical Colleges

4 National Universities
4 Public Universities
4 Private Universities
3 Technical Colleges

Platform Steering Committee

Chairperson : JAIST, Kanazawa Univ.

- Host Organization : Program Representatives, Program Head of Directors, Program Co-Director
- Joint Organization : General manager, Program Co-Director
- Startup Promotion Office : TeSH Office

SU Creation Program Selection Committee

Seeds Discovery Subcommittee

Environment Improvement Subcommittee

Intellectual Property Strategy Subcommittee

JAIST : GAP Fund
Kanazawa Univ. : Environment & Patents

Team TeSH (As of September 20, 2024)



Academia

12 Universities &
3 Tech Colleges

Host Organizations

JAIST
Kanazawa Univ.

Joint Organization for Creating Startups

Univ. of Toyama
Toyama Prefectural Univ.
Toyama College

Ishikawa Prefectural Univ.
Komatsu Univ.
Kanazawa Institute of Tech
Kanazawa Medical Univ.
Hokuriku Univ.
Ishikawa College

Univ. of Fukui
Fukui Prefectural Univ.
Fukui University of Tech
Fukui College

Cooperative Organizations

33 Organizations

Prefecture, Municipality, etc.

Toyama Prefectural Govt.
Ishikawa Prefectural Govt.
Fukui Prefectural Govt.
Toyama New Industry Organization
ISICO
Fukui Industrial Support Center

Economic Organization

Hokuriku Economic Federation
SME SUPPORT JAPAN
Chubu Bureau of Economy, Trade
and Industry
Chubu Bureau of Economy, Trade
and Industry-Electricity and Gas
Business Hokuriku Branch
Hokuriku Industrial Advancement Center

Private Company

NIHONKAI Lab.
K D D I
Asian Bridge
HOKURYO DENKO
BEING HOLDINGS
I-O DATA
ACTREE
HOKUDEN Business Investment

Finance

HOKURIKU BANK
BANK of Toyama
First Bank of Toyama
DBJ Hokuriku Branch
Fukui Bank
Sumitomo Mitsui Trust Bank
SMBC
SMBC Venture Capital
JP Bank

Other

JETRO Kanazawa
JETRO Toyama
JETRO Fukui
Mitsubishi Research Institute

Commercialization Promotion Organizations

22 Organizations

VC, Kanazawa University

Vision Incubate

VC,CVC, Hokuriku

Hokuhoku Financial Group
Fukui C&C
QR INVESTMENT
Carbon Ventures
HED

VC, Outside of Hokuriku

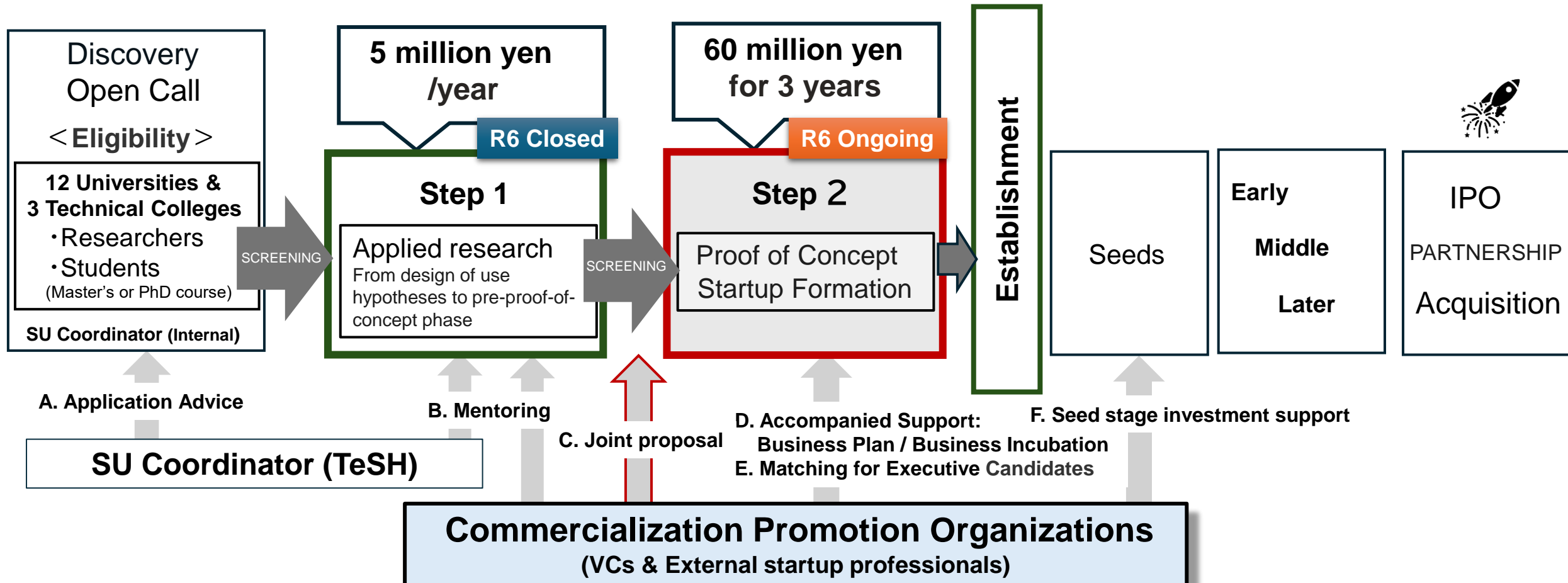
KSP
U TOKYO IPC
INCUBATE FUND
Beyond Next Ventures
JAFCO
ANRI
SAMURAI INCUBATE
Fast Track Initiative
QB Capital
Bio-Sight Capital
DEFTA Capital
MIRAISOZO INVESTMENTS
Mitsubishi UFJ Capital
HACK VENTURES

Private Accelerators

RICH
Sojitz Institute of Innovative Technologies

TeSH GAP FUND

(1) Gap Fund Support



(2) Human Support for Business Development

Portfolio

Field	%	Details
A. Medical	50%	Medical care, Drug discovery, Nursing care, Welfare, etc.
B. Technology	30%	Mobility, Green tech, IT technology (including AI applications), etc.
C. Environment	10%	Environment, Food, Biotechnology, etc.
D. Region, Other	10%	Regional (Tourism, Transportation, etc.), Arts, Education, Social sciences, etc.

Basic Structure

	Step	Eligibility	Subsidy amount	Adoption	Period
Step 1	KAGAYAKI	Researchers	5 million yen (Indirect expenses: 1.5 million yen)	15 to 20	1 year
	KAGAYAKI Young	Students (Master's or PhD course)		5	
Step 2	KAGAYAKI Plus	Researchers	60 million yen (Indirect expenses: 18 million yen)	A Few	About 3 Years
	KAGAYAKI Plus Young	Students (Master's or PhD course)	*Total limit with KAGAYAKI Young 5 million yen (Indirect expenses: 1.5 million yen)		

Based on probability of Grants-in-Aid for Scientific Research, patents, startups, etc.

Designed on scale of 15-20 adopted cases: Reference to base-city platform results in 2022

○Grants-in Aid: Equivalent to Hokkaido, Hiroshima

○Number of Sole patent application: “

○Number of startups:1.1% of the nation

Number of Adoptions of 7 Base Platforms in 2022

	Hokkaido	Tohoku	Hiroshima	Kyushu	Tokyo	Nagoya	Kyoto-Osaka-Kobe
Number of Adoption(2022)	17	29	19	27	17	22	27

Scale of SU Creation Program for 2024-2027

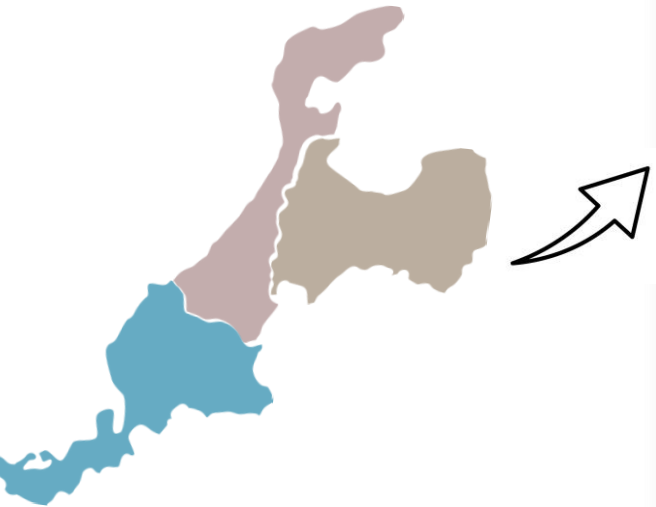
Group	2024				2025				2026				2027			
	Application	Step1 Adoption	Step2 Adoption	SU Creation	Application	Step1 Adoption	Step2 Adoption	SU Creation	Application	Step1 Adoption	Step2 Adoption	SU Creation	Application	Step1 Adoption	Step2 Adoption	SU Creation
I:Innovation	20	10	3	0	22	11	3	0	24	12	3	2	30	13	3	2
B:Breakthrough	10	5	0	0	10	5	1	0	10	5	1	1	13	5	1	1
T:Transformation	0	0	0	0	3	1	0	0	5	2	0	0	5	2	1	1
Total	30	15	3	0	35	17	4	0	39	19	4	3	48	20	5	4
Adoption rate(%)		50	10			49	11			49	13			46	10	

54

21

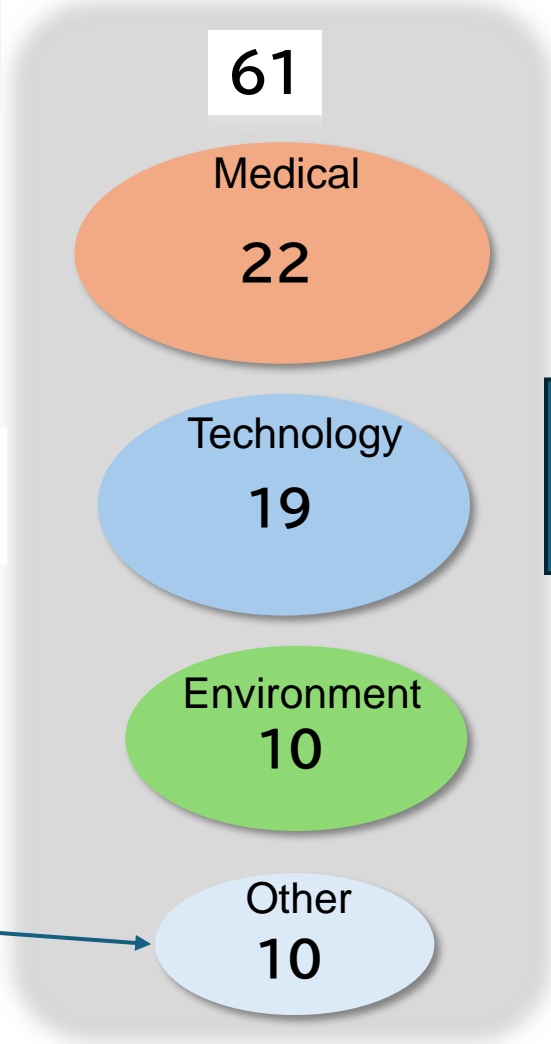
Progress on Step 1 in 2024

61 seeds discovered from Hokuriku academia
21 selected from **48** applications, 1.6x the expected number

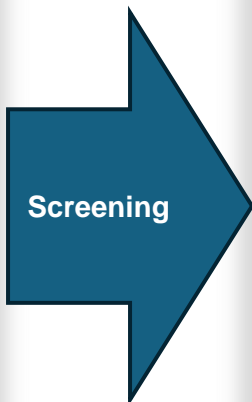
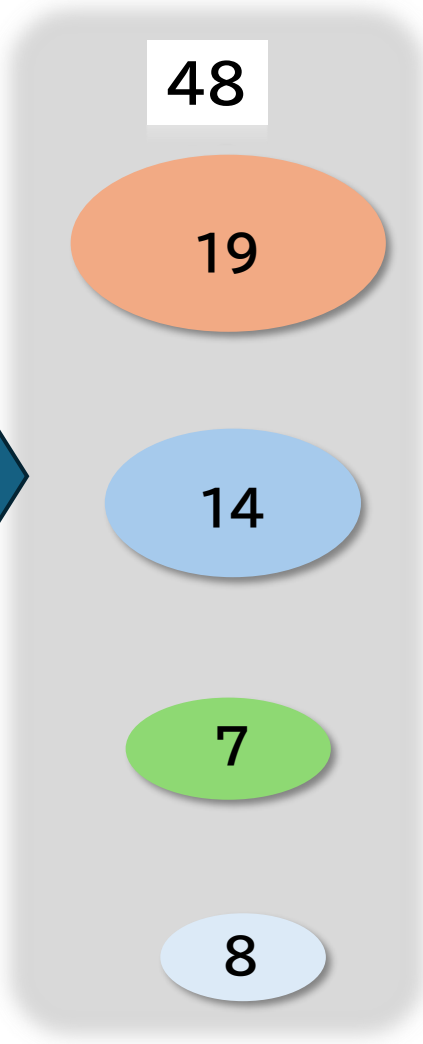


Regional (Tourism, Transportation, etc.)
Disaster resilience
Arts, Education, Social sciences, etc.

Discovery(Entry Sheet)



Application



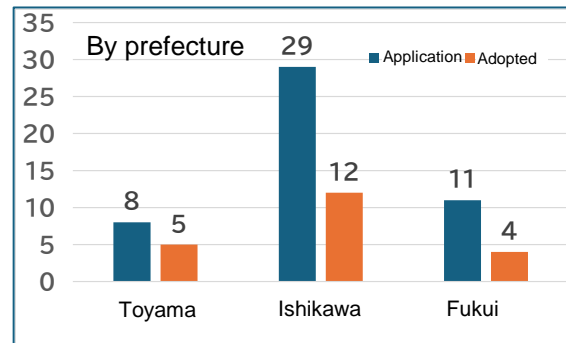
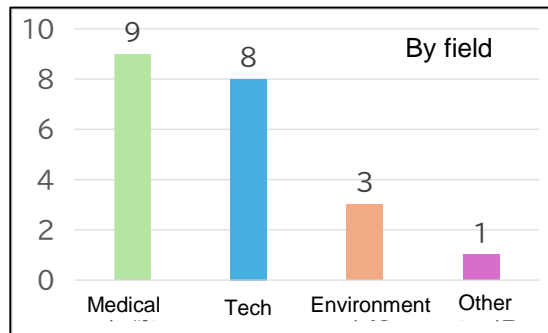
Adoption



21 startup seeds from Hokuriku academia in 2024

Medical

	Affiliation	Subject
1	JAIST	点眼によって後眼部疾患を治療する革新的ナノ粒子の事業化
2	Kanazawa Univ.	摂食障害の治療を目的とした治療用アプリの研究開発と社会実装
3	Univ. of Toyama	単一細胞種の簡易分離デバイスの商品化
4		有効な治療法がない希少疾患に対する増悪分子メカニズムに即した抗体医薬の創生
5	Univ. of Fukui	網膜虚血性疾患治療薬の開発
6	Fukui Prefectural Univ.	微生物由来ポリカチオン性ペプチドを応用したバイオ医薬の消化管吸収と経口投与法の開発
7	Kanazawa Medical Univ.	細胞技術と生体模倣システム(MPS)を組み合わせた動物実験代替のための各種臓器細胞パネルの展開事業
8		特定波長光照射による精子活性化装置の開発と事業化
9		生物標本透明化キットの事業化検証



Tech/Environment/Others

	Affiliation	Subject
1	JAIST	ソフトロボットハンドを搭載した収穫ロボットアームと収穫動作システムの事業化
2		トンボプロペラが提供する安全かつ効率的に運用可能なドローンシステム事業の提案
3		プラスチックの酸化劣化に悩まされない世の中へ — 超効率的スクリーニングによる相乗効果を最大限に引き出す安定化剤配合の探索
4	Kanazawa Univ.	極限の宇宙環境下でも安定駆動可能な電源装置
5		現在も他の誰も開発できていない世界初・反転層ダイヤモンドMOSFETを用いた宇宙半導体事業創出
6		安全性が高く環境コストも低減させる重金属汚染土壌の化学浄化方式の樹立
7	Univ. of Toyama	高機能糸状菌を活用した第二世代バイオマスリファイナリー事業
8	Toyama Prefectural Univ.	ナノニードルパッチのビジネスモデルの創出
9		AIフロントセンシングビジネス
10	Fukui Prefectural Univ.	サバ完全養殖実用化研究計画(通称:さばイバル・プロジェクト)
11	Kanazawa Institute of Tech	最大積載量50kg・飛行距離50km超のVTOL型有翼電動ドローンの事業
12	Fukui College	特別支援が必要な子どもと全ての関係者のためのスマートシステム

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