

ISPlasma 2012

Diffusion-oriented Policy

Towards hub formation

March 6, 2012

Nagoya Institute of Technology

Nobutaka Odake

Policy transfer

From the point of diffusion-oriented policy

What is policy transfer ?

Dolowitz, D and Marsh, D (1996) 'Who learns what from whom: a review of the policy transfer literature, Political Studies, 343-357

- Benchmarking role models
- Translate creatively

- Innovation support organization
- Business service, intermediary organization
- Hub formation

What is magnet for hub?

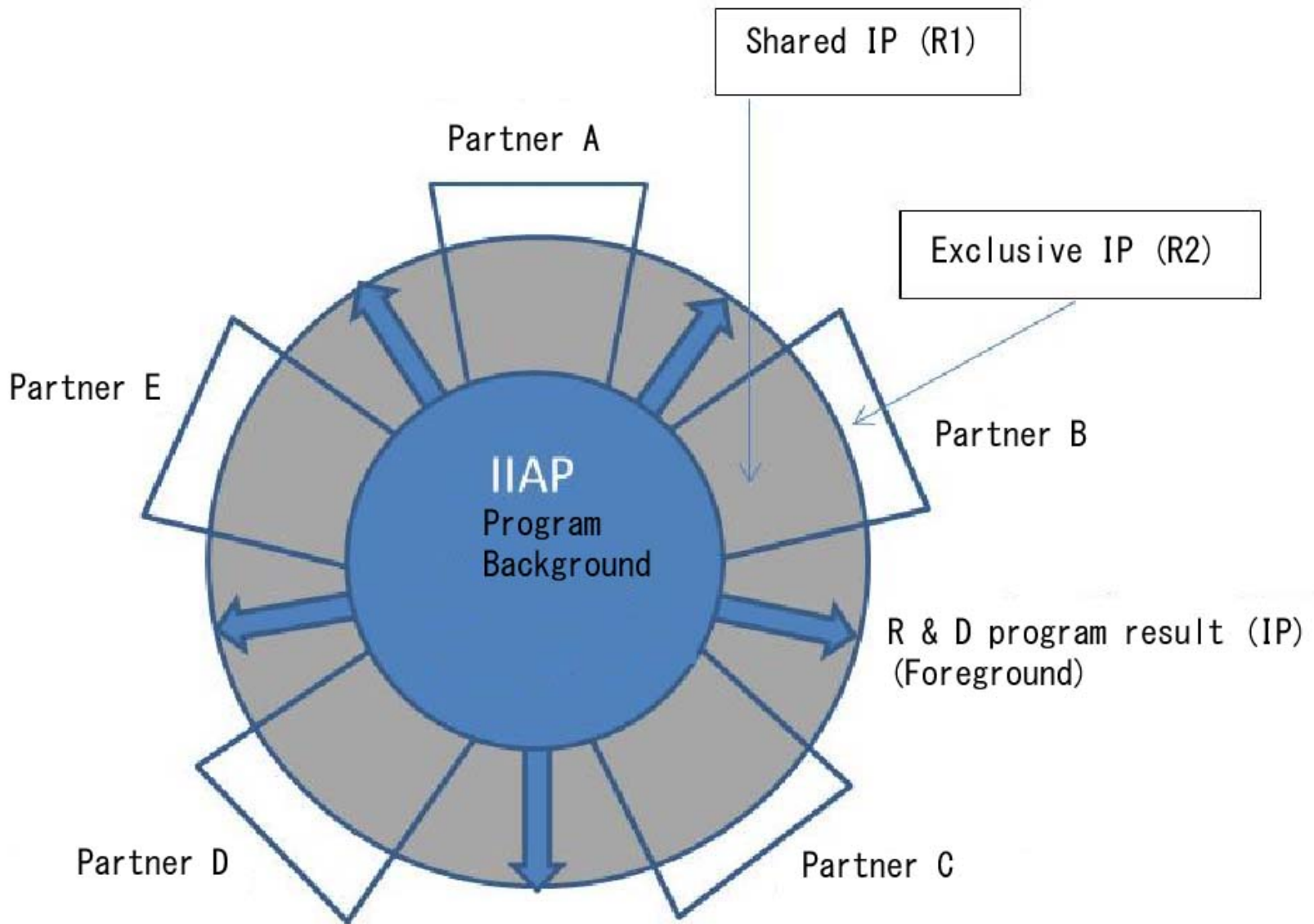
Comparison of public contract type research organizations

	TNO	VTT	FhG	IMEC	ITRI
Legal structure	TNO-Act	Independent research body	Non profit organization	Non profit Organization	Non profit organization
Year of establishment	1986 (1932)	1942	1949	1984	1973
Number of employees	4,189	2,800	18,130	1,895	5,636
Total revenue figure in parenthesis : (JPN)	564 M€ (59.2 B)	292 M€ (31.5 B)	1,657 M€ (179B)	285 M€ (30.8 B)	19,338MNT\$ (54.0 B)
External funding figure in parenthesis : (JPN)	369 M€ (39.8 B)	186 M€ (20.1 B)	1,402 M€ (151.4 B)	250 M€ (27.0 B)	9,705MNT\$ (27.1 B)
Ratio of external funds	65.4%	63.6%	85.6%	82.8%	50.2%(Note)

Note: The government funding for the ITRI is totally project funding and not a subsidy.

Source : Prepared from the Annual Report of each research organization; Number of ITRI staff as in July, 2011. exchange rate: 1€=108JPN, 1NT\$=2.79JPN

IMEC's IIAP



Implication from IMEC

- Long term theme, precompetitive research
- Business development section
- Managing multi-client projects
- Providing state-of art equipment platform
- Effective IP management
- Self-governing and agile management through external fund

Major hubs in Japan

【science city type】

- Tsukuba Science City
- Kansai Science City
- the Kitakyushu Science and Research Park: FAIS

【research park type】

- Kyoto research park (KRP): Kyoto Research Park Corp.
- the Kanagawa Science Park (KSP) : KSP Inc.
- Yokosuka Research Park (YRP): YRP R&D Promotion Committee, Yokosuka Telecom Research Park, Inc.
- KOBE Biomedical Innovation Cluster: The Foundation for Biomedical Research and Innovation (FBRI)

【regional development etc.】

- Saito Life Science Park(Osaka)
- Harima Science Garden City, Spring-8
- Fuji Pharma Valley Initiatives: Pharma Valley Center
- Aichi Prefecture "Knowledge Hub"

Major oversea hubs

- Science Center(UCSC)(Philadelphia, USA)
- Technopolis(Oulu, Helsinki-Vantaa, etc. Finland) → Technopolis Plc.
- Singapore Science Park → Ascendas
- Aston Science park(Birmingham, UK)
- Research Triangle Park(North Carolina, USA)
- South Texas Medical Center(San Antonio, Texas, USA)
- Zhongguancun Science Park(Z-Park) (Haidian, Beijing, China)
- Suzhou Industrial Park → Ascendas, Suzhou National New & Hi-tech Industrial Development Zone (SND) (Suzhou, Jiangsu, China)
- Dalian Software Park → Yida Group, Ascendas
- MINATEC (Grenoble, France)
- Vietnam Singapore Industrial Park (VSIP) → Sembcorp Industries

Summary

- Sustainability of fund : limitation of public fund, utilizing contract research (external revenue)
- Business development section : technology marketing function in public research institute
- IP management system : open collaboration or multi-client model, extrication from superficial secrecy
- Partnerships between initiatives
- Business service industry development: agent system (intermediary organization)

Issues for the panel

- Learn from the global best practice for managing the innovation ecosystem and hub formation
- Developing innovation environment
- Creating partnerships
- The existence of orchestrator : who are initiatives?