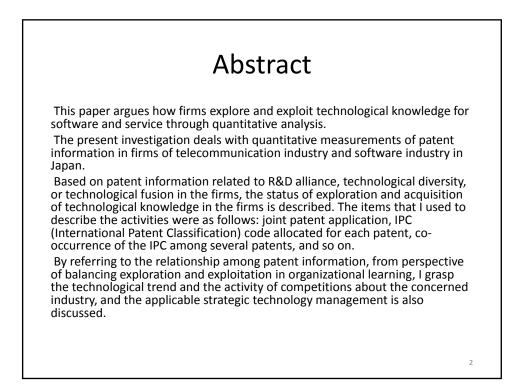
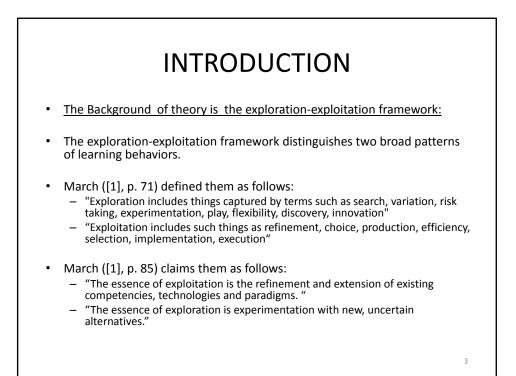
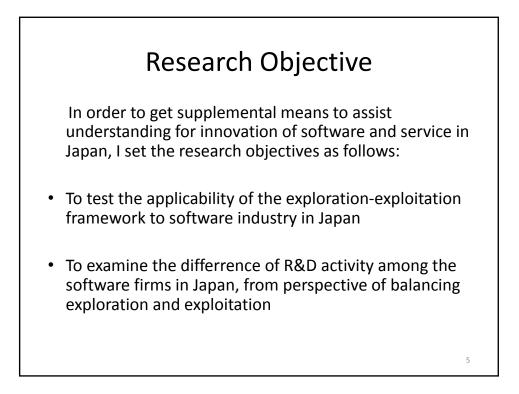


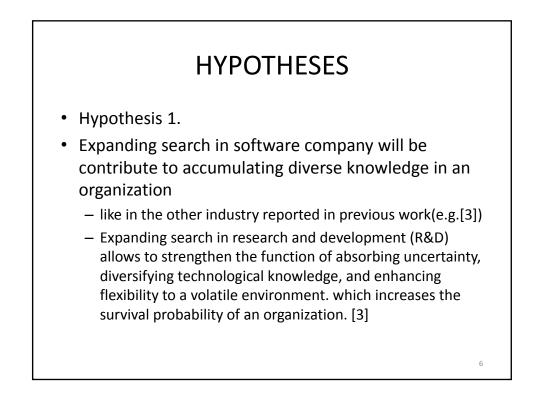
Akira loku Graduate School of Innovation Management, Tokyo Institute of Technology, Tokyo, JAPAN



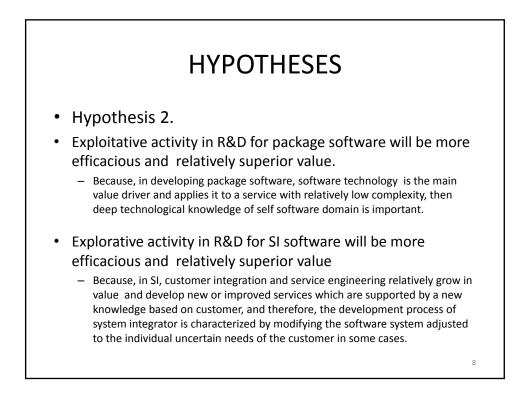


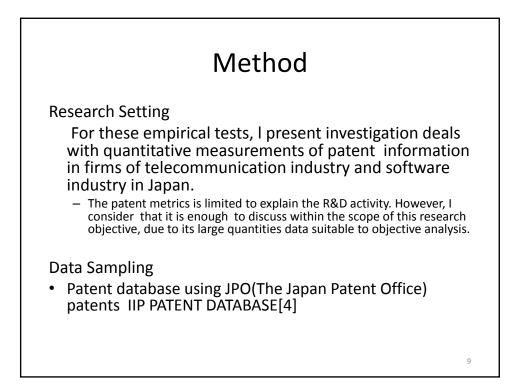
well-balanced, exp	ploration and exploita but the organizational in Japan.	mechanisms that driv	e firms' tendencies in
Domain	Domains of Explore	(Source: [2])	
Answers the question	What value chain function does the alliance serve?	Structure Whom does the firm partner with?	To what extent does the partner differ from prior partners?
Focus Exploration	Alliance type Forming a knowledge- generating R&D alliance	Network structure Forming an alliance with a new partner that has no prior ties to the firm	Partner profile Forming an alliance wit a partner whose organizational attribute differ from those of prior partners
Exploitation	Forming a knowledge– leveraging marketing/production alliance	alliances with a partner	Forming an alliance wit a partner whose organizational attribute are similar to those of prior partners

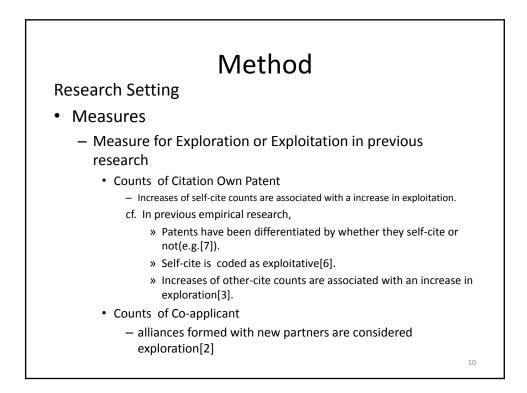




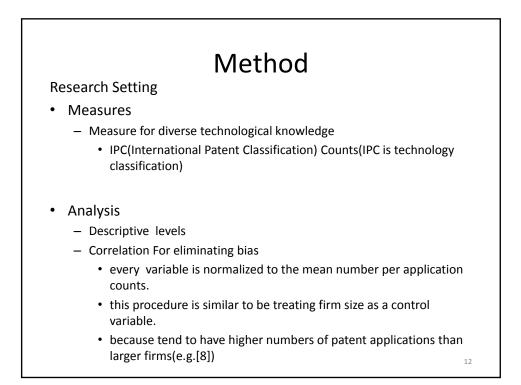
•	omparison bet	IYPOTHESES Itween SI software and package software in Jackage so				
referring to previous we		of IT-based service d	levelopment	tasks in		
		Complexity of Se	rvice			
		Low	Medium	High		
Complexity of IT or Software Technology	Low	Routine Development	Service Engineering			
	Medium	Software Engineering	Co-developn Co-design of Service			
	High	Patent application of package soft	C	application Software		

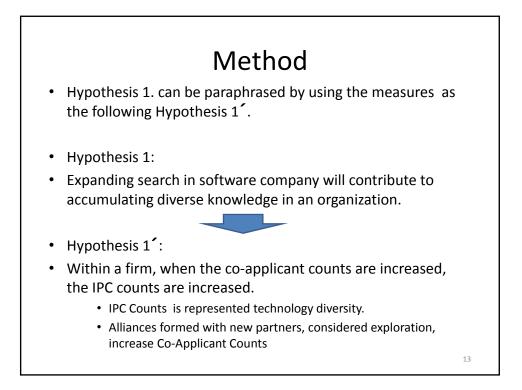


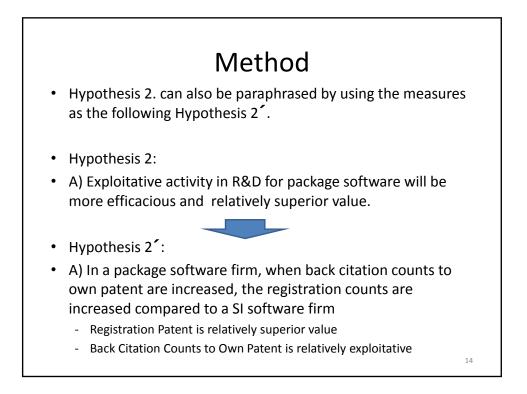


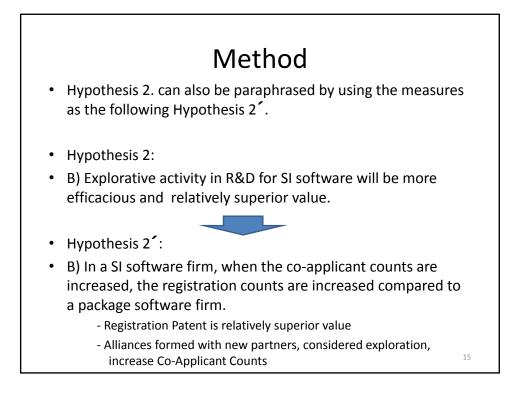


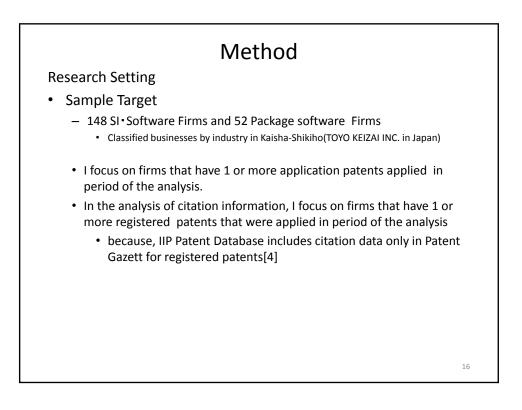
				Method	
	N	leasure	es		
		• Cou	nts of C	Co-applicant	
		_		es formed with new parti tion from "structure don	
[Dom	nain	Definition(Source: [2])	This work
	1	Function			
			Explore	Forming an alliance with a new partner that has no prior ties to the firm	∙Joint application with new co-applicants
	2	Structure	Exploit	Forming recurrent alliances with a partner that has prior ties to the firm	•Joint application with recurrent co-applicants •Sole application

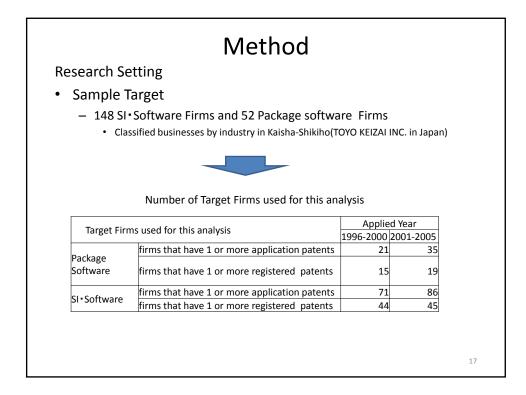








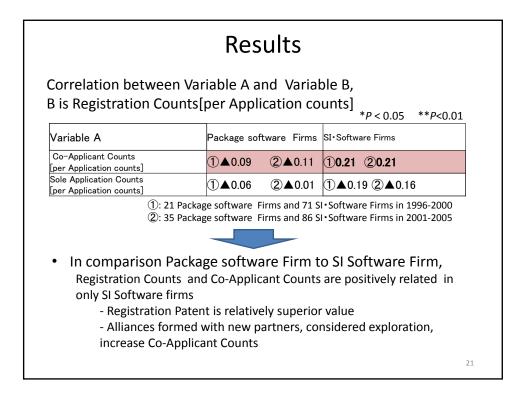


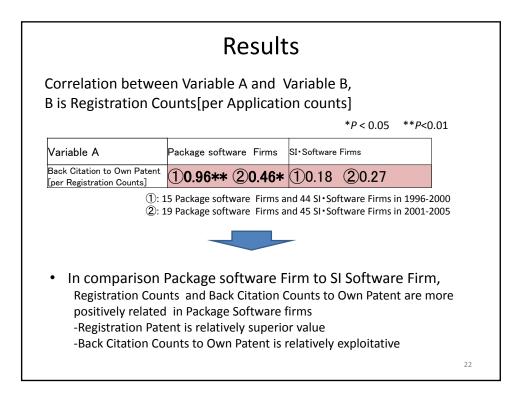


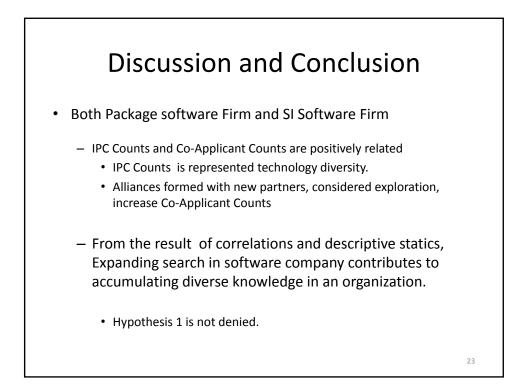
Variables	Min.	1st Qu.	Median	Mean	3rd Qu.	Max
Application Counts	1	1	3	14.63	11	22
Sole Application Counts	0	1	3	13.60	10.5	21
Joint Application Counts	0	0	0	1.03	1	1
Co-Applicant Counts	0	0	0	1.09	1	
IPC(Class) Counts	1	1	1	2.34	3	1
IPC (Group)Counts	1	1	2	5.34	7	3
IPC(Class) Counts in Joint Applications	0	0	0	0.71	1	
IPC (Group)) Counts in Sole Applications	0	1	1	2.09	3	1
Sole Application Counts[per Application counts]	0.00	0.86	1.00	0.90	1.00	1.0
Joint Application Counts[per Application counts]	0.00	0.00	0.00	0.10	0.14	1.0
Co-Applicant Counts[per Application counts]	0.00	0.00	0.00	0.12	0.15	1.0
IPC(Class) Counts[per Application counts]	0.05	0.21	0.50	0.59	1.00	2.0
IPC (Group)Counts[per Application counts]	0.12	0.50	1.00	0.77	1.00	2.0
IPC(Class) Counts in Joint Applications [per Application counts]	0.00	0.00	0.00	0.10	0.11	1.0
IPC (Class) Counts in Sole Applications [per Application counts]	0.00	0.17	0.50	0.54	1.00	2 _{.8} 0

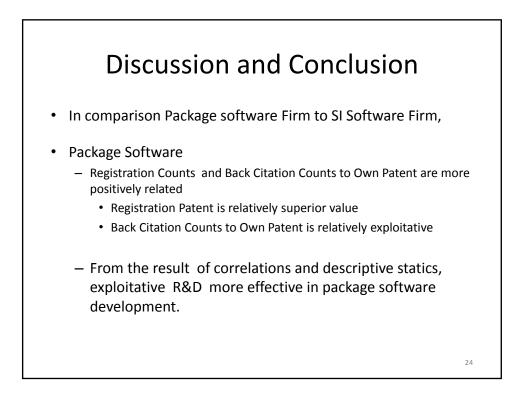
Results						
Descriptive Statics (Package Software	Firr	ns)(2	2001-2	005) [n=84	ŀ]
Variables	Min.	1st Qu.	Median	Mean	3rd Qu.	Max
Application Counts	1	2	5.00	24.65	13	544
Sole Application Counts	0	1	2.50	20.31	9	537
Joint Application Counts	0	0	1.00	4.35	4	47
Co-Applicant Counts	0	0	1.50	3.20	3	35
IPC(Class) Counts	1	1	2.50	5.08	6	53
IPC (Group)Counts	1	2	4.00	9.99	9	155
IPC(Class) Counts in Joint Applications	0	0	1.00	2.19	3	14
IPC (Class) Counts in Sole Applications	0	1	2.00	3.73	4	52
Sole Application Counts[per Application counts]	0.00	0.31	0.71	0.62	1.00	1.00
Joint Application Counts[per Application counts]	0.00	0.00	0.29	0.38	0.69	1.00
Co-Applicant Counts[per Application counts]	0.00	0.00	0.20	0.42	0.66	3.00
IPC(Class) Counts[per Application counts]	0.06	0.33	0.57	0.66	1.00	2.00
IPC (Group)Counts[per Application counts]	0.19	0.61	0.85	0.83	1.00	2.00
IPC(Class) Counts in Joint Applications [per Application counts]	0.00	0.00	0.20	0.31	0.50	1.00
IPC (Class) Counts in Sole Applications [per Application counts]	0.00	0.12	0.33	0.41	0.50	2.00

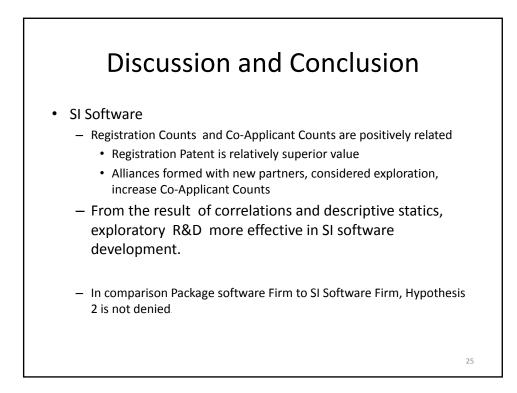
	een Variable A and V unts [per Application		
Variable A	Package software Firms	SI•Software Firms	
Co-Applicant Counts [per Application counts]	① 0.48* ②0.01	10.36** 20.29**	
Sole Application Counts [per Application counts]	①▲0.2 ②▲0.04	①▲0.41 ②▲0.14	
Q	0	d 71 SI Software Firms in 1996-2000 d 86 SI Software Firms in 2001-2005	
0	nd Co-Applicant Counts a		
	its is represented techno	. ,	
	formed with new partne Co-Applicant Counts	rs, considered exploration,	



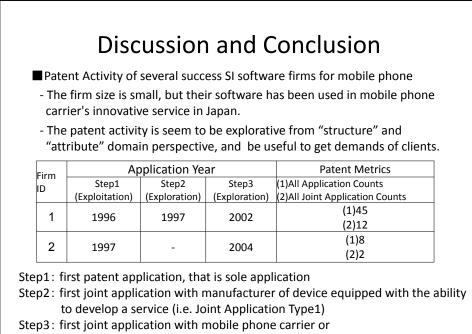








	■Additional analysis, from "attribute domain" perspective, of							
	S	oftware	devel	opment for mobile	phone			
[Dom	ain	Definition(Source: [2])	This work			
	1	Function						
	2	Structure			• Joint application by small software			
				Forming an alliance with	firm, with non-small firm or non- software firm (Joint Application Type1)Co-applican			
	3	Attribute	Explore	a partner whose organizational attributes differ from those of prior partners	is a non-software firm such as			
					(Joint Application Type2)Co-applican			



large SI firm, that is a service provider (i.e. Joint Application Type2) 27

