













	Servic	e Des	ign aı	nd In	novatio	วท	
		1950 -	1970 -	1980 -	1990 -	2000 -	
Source of innovation	Technology	Technology push model (Bush 1945), Dosi 1982), Rothwell 1992,1994)	Chain-linked model (1970- Kline and Rosenberg		Mode 1 & Mode 2 (Gibbons, et al. 1994), Service innovation	Open Innovation (Chesbrough 2003), Service Science,	
	Non-technology (market)	Market pull model (Schmookler 1966, Scherer 1982)	1986), Gate keeper (Allen 1977)	User innovation von Hippel (1988)	(Sundbo 1994, Edvardssin and Olsson 1996, Gallouj 1998)	Management, Engineering and Design (2004-)	
I		Industrial products (William Morris, Bauhaus, Post modern, IDEO, d.school)					
Design focus					Service products (S Bitner 1992, Erlhof 1997), Interaction (hostack 1984, f, Merger, Manzir Holmlid 2007)	
						PSS (Morelli 2002), Service system (The Science of Servic Systems 2011)	
			Waseda Univer	sity		8	

	Servi	ice system	n viewpoin	115
Complexities				
Systems	Simple/closed	Complex/open		Jackson (System of Systems Methodologies (SOSM))
Difficulties in synthesis	Class 1	Class 2	Class 3	Ueda, et al.
Interactions				
Interactions	Value pro	position based	Governance based	Spohrer, et al.
Value sharing condition	Unitary	Pluralist	Coercive	Jackson (System of Systems Methodologies (SOSM))
Scopes				
System layer	Micro: People	Meso: Organization	Macro: Social systems	S3FIRE
Layer of design	Components, Products (Traditional designing)	Systems	Community (Political and social aspects)	Jones

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