Review of literature on the nature of knowledge spillovers

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Abstract

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1 Notes on individual articles

Table 1: Notes on individual articles

Article	Main Idea	Scholarly Tra-
		dition
Almeida and	Regional variation in knowledge spillovers due	
Kogut (1999)	to institutions and labor networks.	
?	Localization of patent citation may not be	
	due to localization of knowledge flow. Local	
	knowledge flows may exist but may not be cap-	
	tured by patent citations.	

Article	Main Idea	Scholarly Tra-
		dition
Audretsch	Prior: Innovation and technological change de-	
and Feldman	pend on new economic knowledge. Literature	
(1996)	has explored the role spillovers play in generat-	
	ing increasing returns and eventually economic	
	growth. The argument here is that if the ability	
	to receive knowledge spillovers is influenced	
	by distance from knowledge source, then you	
	should find spatial concentration in areas where	
	knowledge spillovers are likely to play an im-	
	portant role. Purpose of Audretsch and Feld-	
	man (1996) is two fold. First, to understand	
	to what extent does industrial activity cluster	
	spatially?, and Second, to link the geographi-	
	cal concentration to the existence of knowledge	
	externalities. Audretsch and Feldman (1996)	
	control for spatial concentration of location of	
	production, and suggest that while information	
	may be transmitted better due to better com-	
	munication infrastructure, the same may not be	
	true of knowledge which may have a tacit ele-	
	ment.	
?	Spatially mediated knowledge spillovers.	
?	Knowledge flow from MNC subsidiary to other	
	MNC affiliates requires lower external knowl-	
	edge accumulation (a contamination) or a mini-	
	mum threshold of internally sourced knowledge	
	has to achieved (credibility)	

Article	Main Idea	Scholarly Tra-
		dition
Awate et al.	Diffusion of innovative capabilities goes from	
(2015)	advanced country firms to emerging coun-	
	try firms. Since both AMNEs and EMNEs	
	are internationalized, the EMNE headquar-	
	ters develop innovation capabilities slower than	
	AMNE subsidiaries	
?	Local and distant search implies that geograph-	
	ical network diversity affects innovation in an	
	inverted-U manner	
Bell (2005)	Disentangle the geographic effect from the ef-	
	fect of networks (managerial ties, and institu-	
	tional ties)	
Baptista and	Maybe diversification within clusters is not par-	
Swann (1998)	ticularly useful	
Cantwell and	Not just location but group level and subsidiary	
Mudambi	level mandates matter for R&D.	
(2005)		
?	We understand very little of what works and	
	how it does when it comes to spatial concen-	
	tration of entrepreneurship and innovation	
Dunlap-	Generic innovation capabilities hinders break-	
Hinkler et al.	through performance. Decentralization is help-	
(2010)	ful.	
?	Cluster performance is determined by network	
	effects (Network strength and openness), and is	
	moderated by environmental uncertainty.	
?	On mobility, but not clear	

Article	Main Idea	Scholarly Tra-
		dition
Fitjar and Hu-	International personal and formal networks are	
ber (2015)	correlated with innovation in firms. Local net-	
	works not as much.	
Fitjar et al.	Goldilocks distance - innovation works well	
(2016)	when geographic distance is neither too near	
	nor too far.	
Fu et al. (2012)	Path dependent evolution of regional innova-	
	tion systems. First mover advantage and insti-	
	tutional first mover advantage.	
Fu et al. (2013)	Learning by interacting - informal Guanxi net-	
	work.	
Giuliani (2007)	Firm level social network characteristics as af-	
	fecting diffusion as against geographical prox-	
	imity and embeddednesss in local networks	
	(prior). Economists view that public goods	
	are subject to spillover effects. Economic ge-	
	ographists view that embeddedness in firms in	
	localized networks.	
?	Reversing the direction. Absorptive capacity of	
	firms leads to agglomeration. Knowledge is not	
	diffused evenly in the air, but flows within a	
	core group of firms with advanced absorptive	
	capacities.	
?	Negative spillovers - those with weak internal	
	knowledge grow faster in knowledge intensive	
	regions	

Article	Main Idea	Scholarly Tra- dition
Henderson	Are three digit patent classes too broad. Un-	utuon
et al. (2005)	derlying forces run both ways. Knowl-	
	edge spillovers provide incentives to collocate.	
	Colocation (to begin with) may encourage cross	
	pollination. Knowledge spillovers are highly	
	elusive.	
Huber (2012)	To what extent does local spillovers help?	
?	International R&D helps inventors but not sub-	
	sidiary level capabilities. Collaboration is more	
	international and not local.	
Jaffe et al.		
(1993)		
?	Core - periphery model of economic differenti-	
	ation.	
Lissoni (2001)	Codified and firm specific knowledge in SME	
	clusters.	
Lorenzen and	Personal relationships (prior: Organization	
Mudambi	based pipelines and MNE subsidiaries). Global	
(2013)	linkages with decentralized network structures.	
Mudambi and	Role of MNE clusters - a review of literature	
Swift (2012)		
Mudambi and	Intra MNC firm flows leads to bargaining	
Navarra (2004)	power.	
?	Localization of flows	

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