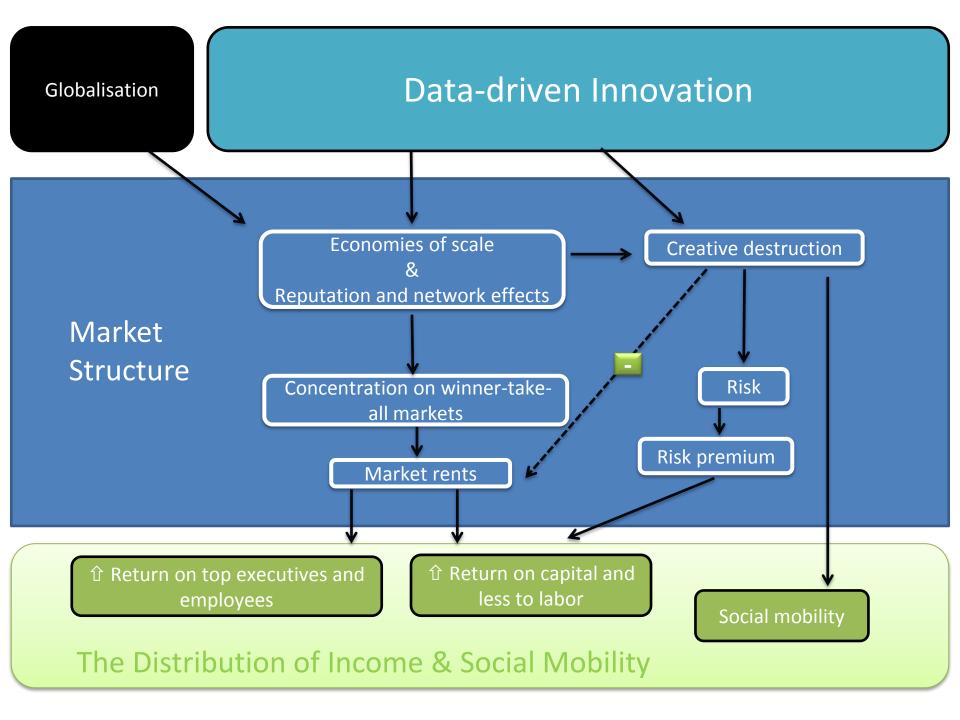
Market structure in the digital economy and opportunities for social mobility

Data-driven Innovation

Market Structures

The Distribution of Income & Social Mobility





Regressions of industry market concentration and creative destruction on industry innovation characteristics

	Market concentration	Creative destruction
Intangibles to total assets _{i,t-1}	1.961***	0.028***
- J /	(0.183)	(0.008)
R&D intensity _{i,t-1}	0.029*	-0.000
3,	(0.016)	(0.001)
Capital intensity _{j,t-1}	0.007	-0.002
	(0.034)	(0.002)
Industry controls	Yes	Yes
Industry fixed effects	Yes	Yes
Year fixed effects	Yes	Yes
Observations	6,427	6,427
R-squared	0.19	0.02

Source: Bas and Paunov (2016) based on CompuStat. Results are obtained for 294 4-digit SIC industries in 1979-2014. Market concentration is computed using the normalised Herfindahl index while creative destruction is computed using the probability of firms' exiting the top 10th percentile between t and t-5.

Greater importance of intangibles goes hand in hand with more market concentration and higher creative destruction

Regressions of on top executive compensation on industry market concentration and creative destruction

	Top executive compensation		
	OLS	IV	
Market concentration _{i, t-1} * Initial firm size _i	0.018***	0.264**	
Creative $destruction_{j, t-1} * Initial firm size_i$	(0.006) 0.104** (0.050)	(0.119) 3.144* (1.669)	
Firm size _{i,t-1}	0.084***	0.104***	
Firm profit _{i. t-1}	(0.018) 0.070***	(0.021) 0.066***	
Final year CEO _i	(0.014) -0.166***	(0.016) -0.171***	
	(0.009)	(0.010)	
Other executive, firm and industry controls	Yes	Yes	
Firm-executive fixed effects	Yes	Yes	
Firm-size year fixed effects	Yes	Yes	
Industry-year fixed effects	Yes	Yes	
Observations	50,584	48,546	
R-squared	0.79	0.77	

Source: Bas and Paunov (2016) based on CompuStat. Results are obtained for 1992-2012. Market concentration is computed using the normalised Herfindahl index while creative destruction is computed using the probability of firms' exiting the top 10^{th} percentile between t and t-5.

Top executives earn more in more concentrated markets and where creative destruction is more likely

Regressions of innovation and other market features on industry labor shares

	Industry labor shares				
Country variable * Industry variable	(1)	(2)	(3)	(4)	
Patents * Patent intensity	-0.054***	-0.049**	-0.056***	-0.055***	
	(0.019)	(0.019)	(0.019)	(0.020)	
Graduates * Skill intensity		-0.211***	-0.202***	-0.175***	
		(0.047)	(0.047)	(0.048)	
Capital * Capital intensity			0.038	-0.001	
			(0.164)	(0.165)	
Finance * Intangible assets			-0.336***	-0.320***	
			(0.076)	(0.077)	
Trade * Transport equipment				0.151**	
				(0.069)	
Union * Unskilled intensity				0.606***	
				(0.156)	
GDP * Capital intensity				0.406***	
				(0.140)	
Country-year fixed effects	Yes	Yes	Yes	Yes	
Industry-year fixed effects	Yes	Yes	Yes	Yes	
Observations	4,070	4,070	4,070	4,070	

Source: Barrufaldi and Paunov (2016) based on data are for 16 industries in 26 different countries and over a period of 17 years between 1995 and 2011 from the OECD MSTI and STAN databases.

Innovation correlates negatively with the industry labor shares