#### Mapping Technology Startup Ecosystems

Mari Sako, Matthias Qian, Mark Verhagen, and Richard Parnham

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Lawtech and Fintech startup ecosystems in London, New York and San Francisco



Knowledge similarity among founders and joiners: impact on venture scaleup



Venture Analytics Initiative (VAI): taxonomy, annotation, webtool





#### Lawtech and Fintech startups in three locations

ondo San ' New York Francisco What do we learn from these comparisons?

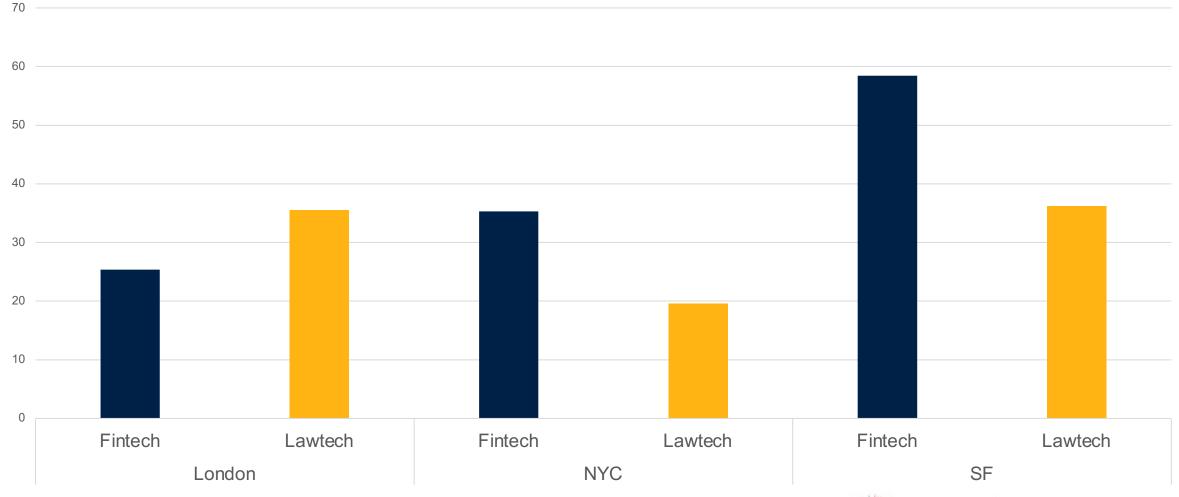




# 1. Lawtech startup firms are smaller on average than Fintech startups, except in London



#### Average number of current employees per startup

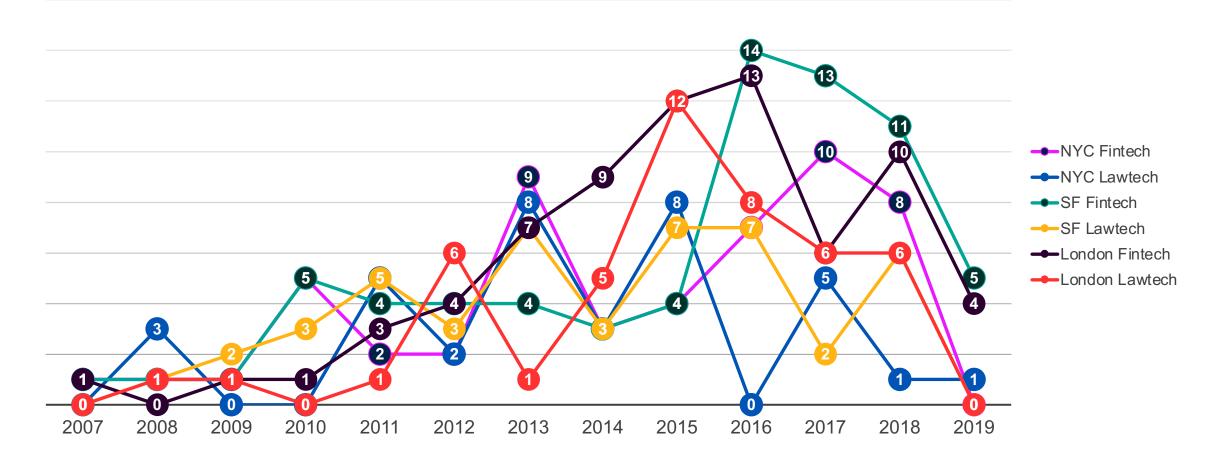




5



Number of ventures launched (2007 to 2019)





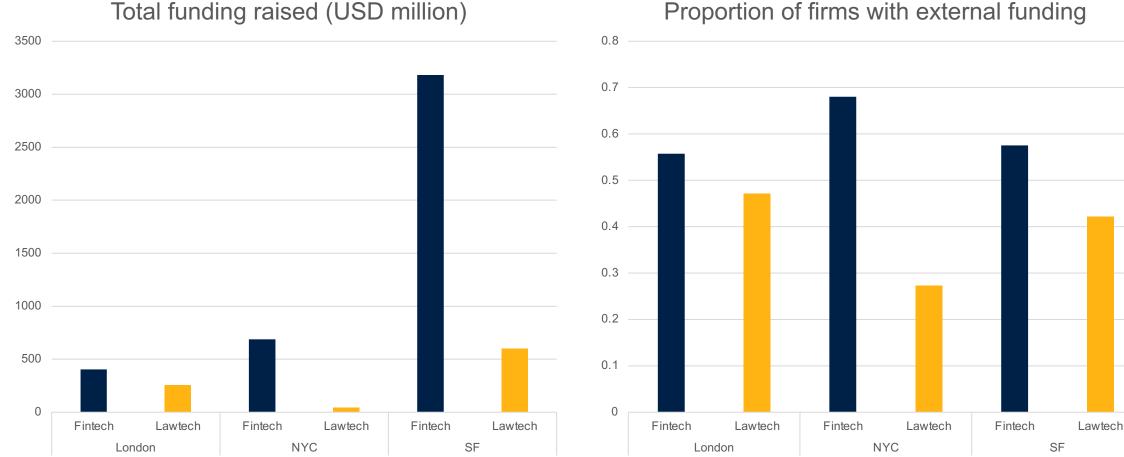




# 2. A smaller proportion of startups get external funding in Lawtech than in Fintech



#### **Proportion of startups with external funding is lower in Lawtech** than in Fintech in all three locations



Proportion of firms with external funding







### 3. Founders' knowledge domains: San Francisco has a higher proportion of founders with coding skills

#### Most Lawtech founders are non-lawyers across all locations UNIVERSITY OF **OXFORD** Lawtech Lawtech Lawtech coder = finance = legal = management coder = finance = legal = management coder = finance = legal = management Fintech Fintech Fintech coder = finance = legal = management coder finance legal management coder finance legal management New York City San Francisco Bay Area London INDUSTRIAL

**UK Research** and Innovation

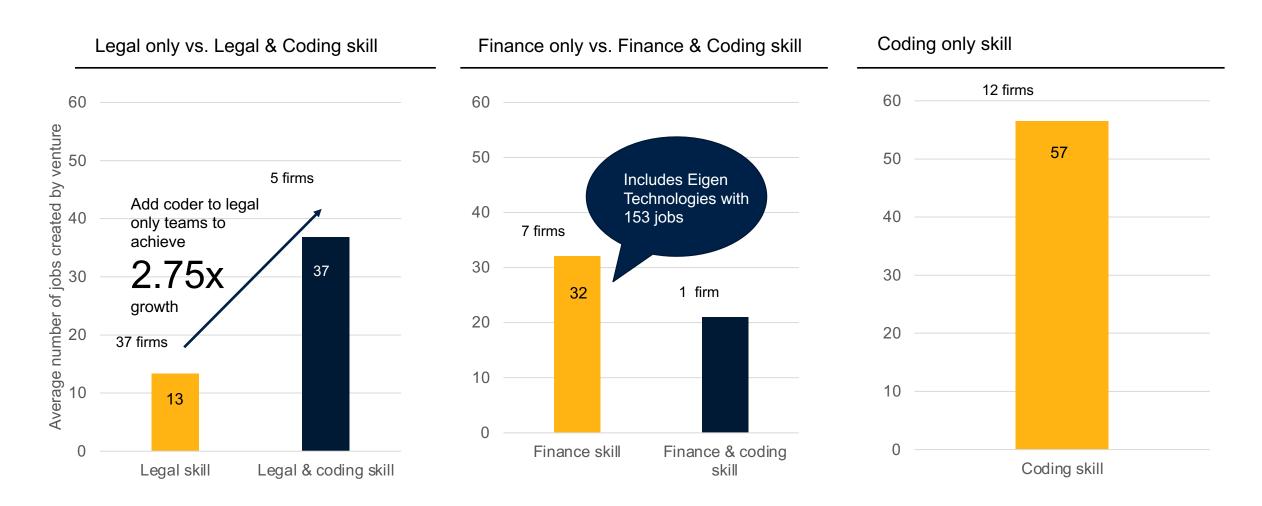
STRATEGY





# 4. Impact of founders' knowledge domains on scaleup: Lawyer-only founding teams do not scale up

## Lawtech firms with lawyer-only teams remain small



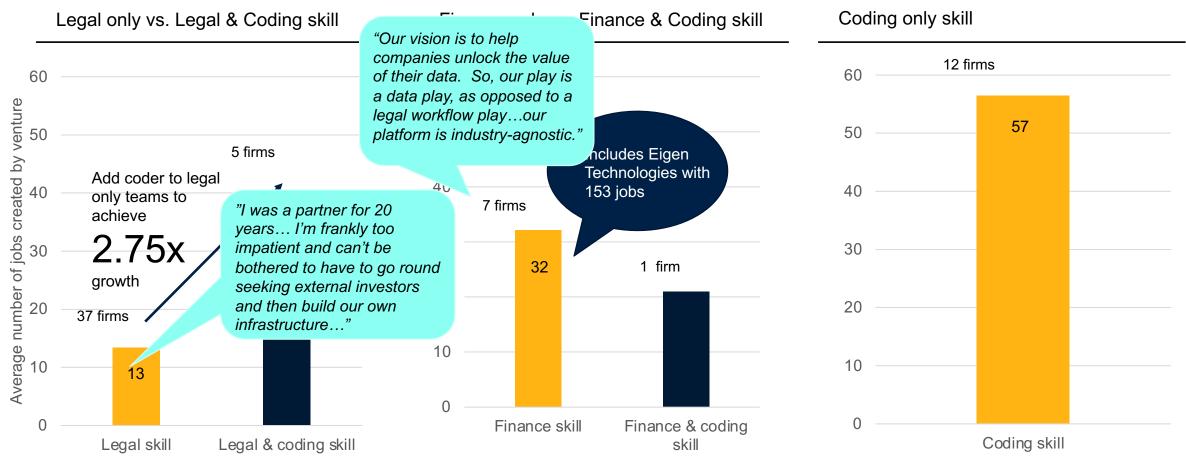
Note: Skill determined by categorizing LinkedIn endorsements into legal, finance and coding; each founder assigned to one skill category, based on most frequently endorsed category. Number of jobs created based on current employee counts by venture on LinkedIn.





#### Lawtech firms with lawyer-only teams remain small

Combing legal and coding skills lead to faster growth, but coder-only teams grow even faster



Note: Skill determined by categorizing LinkedIn endorsements into legal, finance and coding; each founder assigned to one skill category, based on most frequently endorsed category. Number of jobs created based on current employee counts by venture on LinkedIn.



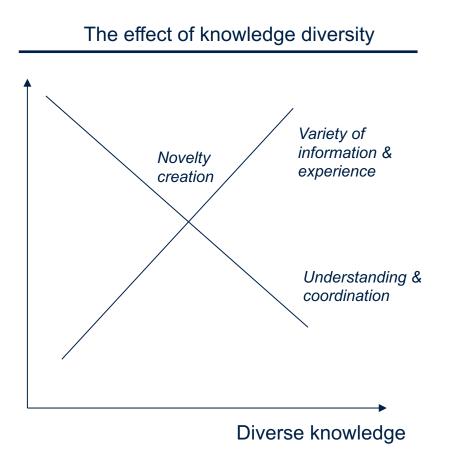




# Explaining the variation in scale-up success with founders and joiners



- Novelty creation happens when people come from backgrounds that are sufficiently similar to facilitate communication, but at the same time different enough to provide access to new ideas → optimal knowledge diversity (see diagram)
- Benefits of knowledge similarity: faster decision making and execution
- Benefits of knowledge diversity: may draw on a wider variety of information and experiences
- Fintech and Lawtech are sectors in which firms combine knowledge from different domains (finance + tech, law + tech) to generate and capture value We leverage different cognitive distances between the knowledge domains to further our understanding



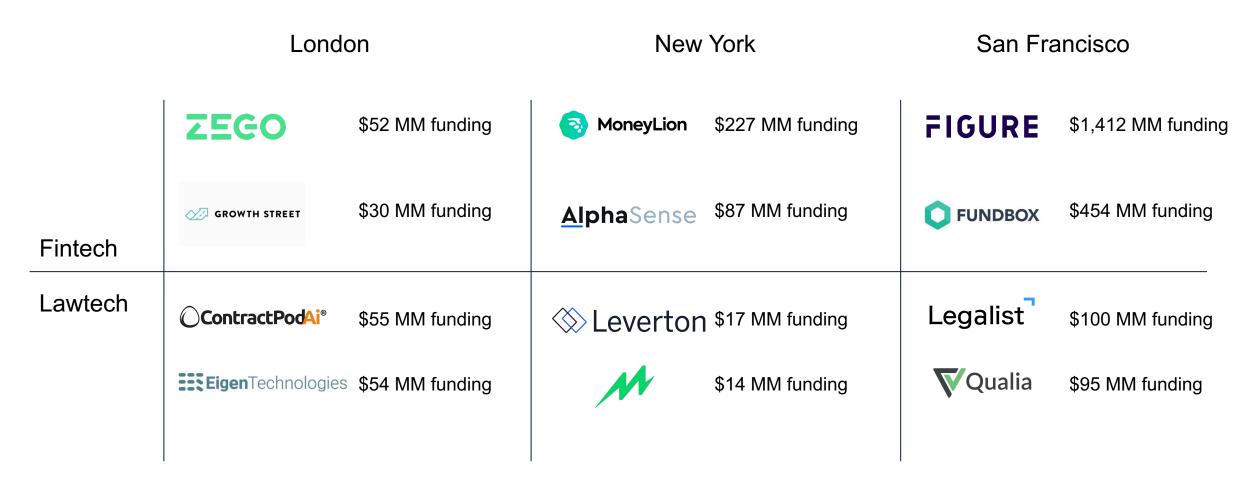




Data	Circumstance	597 Founders	315 Ventures	3,054 Outcomes
Data source	Crunchbase & desk research defines universe of ventures	Crunchbase founder info, LinkedIn education and employment info, Google search	LinkedIn education and employment, info endorsements	LinkedIn employee counts, Burning Glass job ads, Crunchbase fundraising data
Variables	3 Locations (London, NY, SF) 2 Areas of work (Lawtech, Fintech) 12 Years (2009 – 2020)	Serial entrepreneur, Uni ranking, Year of work experience, degree centrality in social network	Age of venture, number of founders in knowledge domain, knowledge-similar employees, network density, knowledge-similar network, knowledge-similar founders	Dependent variables: Jobs created, 10,533 Vacancies posted, 6,210 Fundraising, \$ 4.900 M



**Examples of ventures in Lawtech & Fintech and London, NY & SF** 







## Stylized fact 1 : Knowledge-similar founding teams create more jobs and post more job vacancies

	1	Startups with knowledge-similar founding teams		out knowledge- Inding teams	Absolute difference of means
	Mean	S.D.	Mean	S.D.	-
	Panel	A: Job creation per	year		
Location					
London	5.79	6.17	5.34	8.01	0.45
New York	6.08	9.31	4.23	6.26	1.85
San Francisco	12.22	19.57	5.99	13.83	6.23
Area of work					
Legaltech	7.87	10.46	4.22	11.75	3.65
Fintech	8.65	7.87	5.98	4.22	2.67
Combined	8.31	13.57	5.25	10.05	3.06
Observations	60		2	255	
	Panel 1	B: Job postings per	year		
Location					
London	3.48	4.42	3.50	5.85	0.02
New York	4.94	5.31	1.96	2.10	2.98
San Francisco	12.17	18.99	7.21	8.87	4.96
Area of work					
Legaltech	6.54	16.06	2.16	4.08	4.39
Fintech	7.87	9.13	5.33	7.37	2.54
Combined	7.18	12.96	4.36	6.66	2.82
Observations	58		2	246	





	Model		(1)	(2)	(3)	(4)
			Job cr	reation	Job po	ostings
UNIVERSITY OF CONFORD	Level of analysis		Venture	Founder	Venture	Founder
	Key variables		1			
	Knowledge-similar founding team		0.4878***	0.4364***	0.3390***	0.3153**
		Startups with	(0.1648)	(0.1593)	(0.1297)	(0.1248)
	Venture-level control variables	knowledge similar				
Stantung with	Number of coder founders	founders create	0.0323**	0.0318**	0.0183*	0.0158
<b>Startups</b> with		48% more jobs	(0.0153)	(0.0146)	(0.0099)	(0.0112)
knowledge	Number of manager founders	than startups	0.0476***	0.0410***	0.0229***	0.0239***
similarity in		without knowledge similar founders.	(0.0111)	(0.0096)	(0.0066)	(0.0068)
·	Number of finance founders		0.0403*	0.0477**	0.0255**	0.0305**
founding teams			(0.0219)	(0.0227)	(0.0126)	(0.0146)
create more jobs	Number of legal founders		-0.0350*	-0.0320	-0.0222**	-0.0265***
v			(0.0205)	(0.0213)	(0.0089)	(0.0088)
and post more	Age		0.1555***	0.1355***	0.0806***	0.1095***
job vacancies per	Founder-level control variables		(0.0316)	(0.0321)	(0.0234)	(0.0258)
•	Years of experience			0.0135**		-0.0019
year. The number	rears of experience			(0.0062)		(0.001)
of legal founders,	University ranking			0.1813		0.1283
-	, ,			(0.1549)		(0.1031)
however,	Serial entrepreneur			0.3070		0.2478
decreases the	-			(0.2118)		(0.1598)
speed of scale-up.	Area of work fixed effect		Yes	Yes	Yes	Yes
speed of searc up.	Location fixed effect		Yes	Yes	Yes	Yes
	Year fixed effect		Yes	Yes	Yes	Yes
	R <sup>2</sup>		0.2671	0.2807	0.1600	0.1945
	No. of firms		315	315	304	304
	Observations		1651	3054	1336	2449



**Startups with** 

knowledge

similarity in

founding teams

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decreases the

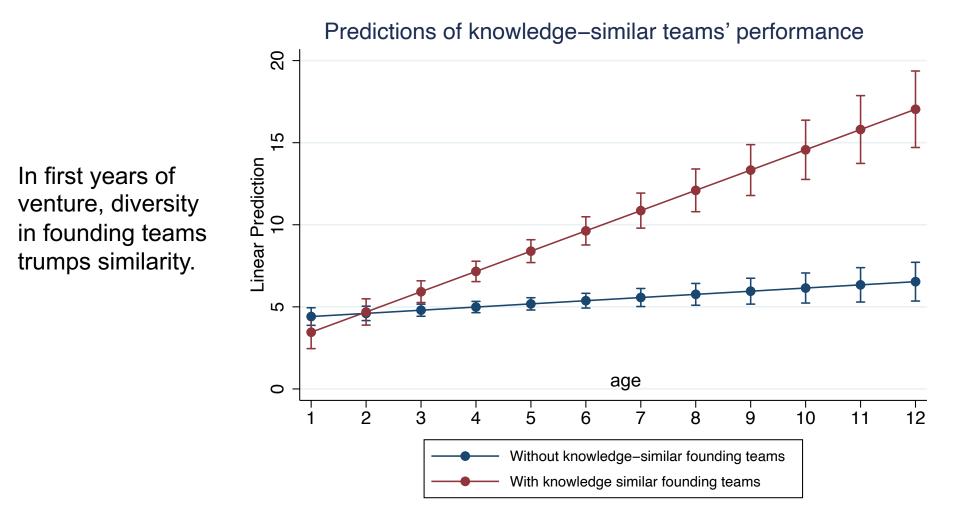
Model (1)(2)(3)(4) Job creation Job postings Level of analysis Founder Founder Venture Venture Key variables Knowledge-similar founding team 0.4878 0.3390\*\*\* 0.3153\*\* Startups with (0.1297)(0.164)(0.1248)knowledge similar Venture-level control variables founders create Number of coder founders 0.0323 0.0183\* 0.0158 34% more (0.015)(0.0099)(0.0112)vacancies than 0.0229\*\*\* 0.0239\*\*\* Number of manager founders 0.04763 startups without (0.011)(0.0066)(0.0068)knowledge similar Number of finance founders 0.0403 0.0255\*\* 0.0305\*\* founders. דל0.021) (0.0126)(0.0146)(0.0227)Number of legal founders -0.0350\* -0.0320-0.0222\*\* -0.0265\*\*\* create more jobs (0.0213)(0.0205)(0.0089)(0.0088)0.1555\*\*\* 0.1355\*\*\* 0.0806\*\*\* 0.1095\*\*\* Age (0.0316)(0.0321)(0.0234)(0.0258)job vacancies per Founder-level control variables Years of experience 0.0135\*\* -0.0019 year. The number (0.0062)(0.0041)of legal founders, University ranking 0.1813 0.1283 (0.1549)(0.1031)0.3070 0.2478 Serial entrepreneur (0.2118)(0.1598)Area of work fixed effect Yes Yes Yes Yes speed of scale-up. Location fixed effect Yes Yes Yes Yes Year fixed effect Yes Yes Yes Yes  $\mathbb{R}^2$ 0.2671 0.2807 0.1600 0.1945 No. of firms 315 315 304 304 Observations 1651 3054 1336 2449



**Startups with** knowledgesimilar teams do not scale-up faster within the first three years of venture. In nascent ecosystems, knowledge similar teams underperform, consistent with novelty creation in diverse teams.

Model		(1)	(2)	(3)	(4)	
Corresponding hypothesis		H1b H1c		H1b	H1c	
		Job cr	reation	Job postings		
Level of analysis		Founder	Founder	Founder	Founder	
Knowledge-similar founding team		0.7541***	0.4787***	0.6934***	0.3266**	
		(0.2297)	(0.1558)	(0.2569)	(0.1260)	
Young venture		0.0699		-0.0166		
		(0.1022)		(0.1534)		
Young venture x knowledge-similar founding team		-0.5572***		-0.5927**		
		(0.1952)		(0.2456)		
Nascent ecosystem		7	-0.4501**		0.1681	
	Young ventures		(0.2139)		(0.1289)	
Nascent ecosystem x knowledge-similar founding team	benefit less from knowledge-similar		-2.2038***		-0.9067**	
	founding team.		(0.4536)		(0.4022)	
Venture-level control variables		Yes	Yes	Yes	Yes	
Founder-level control variables		Yes	Yes	Yes	Yes	
Area of work fixed effect		Yes	Yes	Yes	Yes	
Location fixed effect		Yes	Yes	Yes	Yes	
Year fixed effect		Yes	Yes	Yes	Yes	
R <sup>2</sup>		0.2878	0.2589	0.2094	0.1831	
No. of firms		315	315	304	304	
Observations		3054	3054	2449	2449	

### Outperformance of knowledge similar teams varies over age



The gap continuously widens between ventures with and without knowledge-similar founding team.



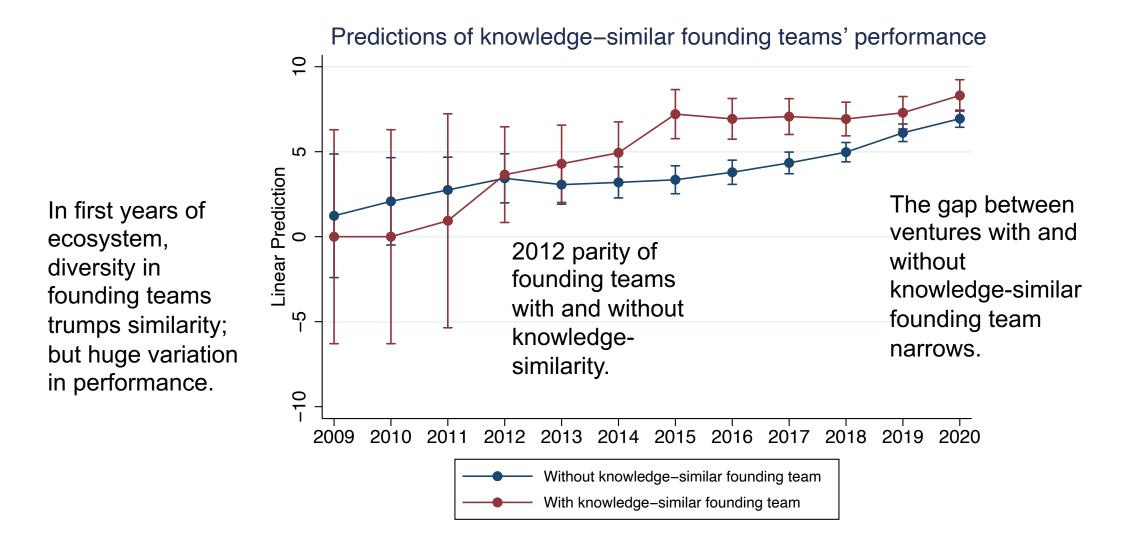
UNIVERSITY OF



**Startups with** knowledgesimilar teams do not scale-up faster within the first three years of venture. In nascent ecosystems, knowledge similar teams underperform, consistent with novelty creation in diverse teams.

Model	(1)	(2)	(3)	(4)	
Corresponding hypothesis	H1b	H1c	H1b	H1c	
	Job cr	eation	Job postings		
Level of analysis	Founder	Founder	Founder	Founder	
Knowledge-similar founding team	0.7541***	0.4787***	0.6934***	0.3266**	
	(0.2297)	(0.1558)	(0.2569)	(0.1260)	
Young venture	0.0699		-0.0166		
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Young venture x knowledge-similar founding team	-0.5572***		-0.5927**		
	(0.1952)		(0.2456)		
Nascent ecosystem		-0.4501**		0.1681	
		(0.2139)		(0.1289)	
Nascent ecosystem x knowledge-similar founding team		-2.2038***		-0.9067**	
		(0.4536)	Ventures in	(0.4022)	
Venture-level control variables	Yes	Yes	nascent	Yes	
Founder-level control variables	Yes	Yes	ecosystems benefit less from	Yes	
Area of work fixed effect	Yes	Yes	knowledge-similar	Yes	
Location fixed effect	Yes	Yes	founding team.	Yes	
Year fixed effect	Yes	Yes		Yes	
R <sup>2</sup>	0.2878	0.2589	0.2094	0.1831	
No. of firms	315	315	304	304	
Observations	3054	3054	2449	2449	

#### **Outperformance of knowledge-similar teams varies over years**



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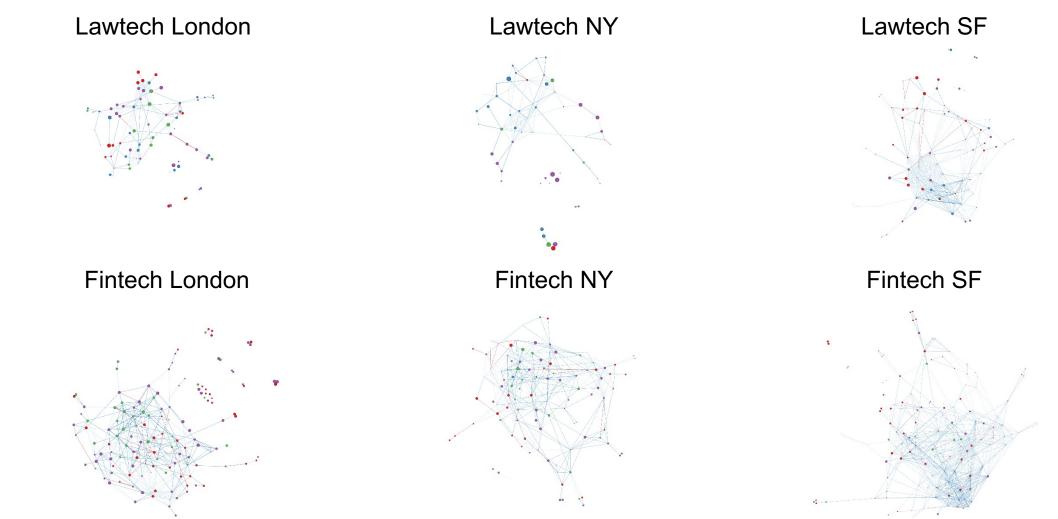


	Model		(1)	(2)	(3)	(4)	(5)	(6)
	Corresponding hypothesis		H1	H1	H1	H1	H1	H1
UNIVERSITY OF COXFORD			Raised	over \$100k	Raised ov	ver \$1MM	Raised S	Series A
	Level of analysis		Venture	Founder	Venture	Founder	Venture	Founder
	Key variables							
	Knowledge-similar founding te	ams	0.4578**	0.3312*	0.4498**	0.1700	0.2147	-0.0688
			(0.1952)	(0.1948)	(0.2198)	(0.2244)	(0.3383)	(0.3520)
	Venture-level control variables							
Startups with	Number of coder founders	Knowledge-	0.0087	0.0066	0.0133	-0.0026	0.0557***	0.0321
knowledge-		similar	(0.0142)	(0.0151)	(0.0159)	(0.0191)	(0.0172)	(0.0200)
Kilowieuge-	Number of manager founders	founders have	-0.0062	-0.0059	0.0098	0.0054	0.0537***	0.0384**
similar teams	Number of finance founders	higher hazard	(0.0120) 0.0346	(0.0103) 0.0439*	(0.0129) 0.0463**	(0.0119) 0.0416*	(0.0172) 0.0594*	(0.0182) 0.0407
• 41 • • 4• 1	Number of finance founders	of raising at	(0.0231)	(0.0439)	$(0.0403^{++})$	(0.0249)	(0.0304)	(0.0338)
raise the initial	Number of legal founders	least \$100k.	-0.0146	-0.0065	-0.0792*	-0.0794*	-0.0810	-0.0897
funding rounds	-		(0.0310)	(0.0297)	(0.0428)	(0.0424)	(0.0615)	(0.0650)
faster. For a	Founder-level control variables							
	Years of experience			-0.0211**		-0.0151		-0.0016
Series A,	University ranking			(0.0092) 0.0093		(0.0098) 0.3114*		(0.0125) 0.4014
investors prefer	, 6			(0.1626)		(0.1855)		(0.2672)
-	Serial entrepreneur			0.2873		0.4590		0.7966**
to fund serial				(0.2773)		(0.3099)		(0.3368)
entrepreneurs.	Area of work fixed effect		Yes	Yes	Yes	Yes	Yes	Yes
entrepreneurs.	Location fixed effect		Yes	Yes	Yes	Yes	Yes	Yes
	Spells		315	605	315	605	315	605
	Events		<b>49%</b> <sup>155</sup>	337	<b>38%</b> <sup>119</sup>	268	18% 58	136
	Censored		160	268	196	337	257	469
	Log-likelihood		-806.79	-1949.21	-609.60	-1538.98	-288.88	-768.01
	Wald $\chi^2$ (8)		27.09	24.48	34.59	27.20	40.88	33.02



	Model	(1)	(2)	(3)	(4)	(5)	(6)
	Corresponding hypothesis	H1	H1	H1	H1	H1	H1
UNIVERSITY OF COXFORD		Raised	over \$100k	Raised ov	ver \$1MM	Raised S	Series A
	Level of analysis	Venture	Founder	Venture	Founder	Venture	Founder
	Key variables						
	Knowledge-similar founding teams	0.4578**	0.3312*	0.4498**	0.1700	0.2147	-0.0688
		(0.1952)	(0.1948)	(0.2198)	(0.2244)	(0.3383)	(0.3520)
	Venture-level control variables						
Startups with	Number of coder founders	0.0087	0.0066	0.0133	-0.0026	0.0557***	0.0321
•		(0.0142)	(0.0151)	(0.0159)	(0.0191)	(0.0172)	(0.0200)
knowledge-	Number of manager founders	-0.0062	-0.0059	0.0098	0.0054	0.0537***	0.0384**
similar teams		(0.0120)	(0.0103)	(0.0129)	(0.0119)	(0.0172)	(0.0182)
Similar Camp	Number of finance founders	0.0346	0.0439*	0.0463**	0.0416*	0.0594*	0.0407
raise the initial		(0.0231)	(0.0257)	(0.0217)	(0.0249)	(0.0304)	(0.0338)
funding younds	Number of legal founders	-0.0146	-0.0065	-0.0792*	-0.0794*	-0.0810	-0.0897
funding rounds		(0.0310)	(0.0297)	(0.0428)		615)	(0.0650)
faster. For a	Founder-level control variables		-0.0211**				0.0016
	Years of experience		(0.0092)		To ra	iso o	-0.0016 (0.0125)
Series A,	University ranking		0.0092)		Series		0.4014
investors prefer	Oniversity ranking		(0.1626)		helpful		(0.2672)
-	Serial entrepreneur		0.2873		Sei		0.7966**
to fund serial	1		(0.2773)		Entrep	reneur.	(0.3368)
entrepreneurs.	Area of work fixed effect	Yes	Yes	Yes		cs	Yes
entrepreneurs.	Location fixed effect	Yes	Yes	Yes		es	Yes
	Spells	315	605	315	603	315	605
	Events	<b>49%</b> <sup>155</sup>	337	<b>38%</b> <sup>119</sup>	268	18% 58	136
	Censored	160	268	196	337	257	469
	Log-likelihood	-806.79	-1949.21	-609.60	-1538.98	-288.88	-768.01
	Wald $\chi^2$ (8)	27.09	24.48	34.59	27.20	40.88	33.02

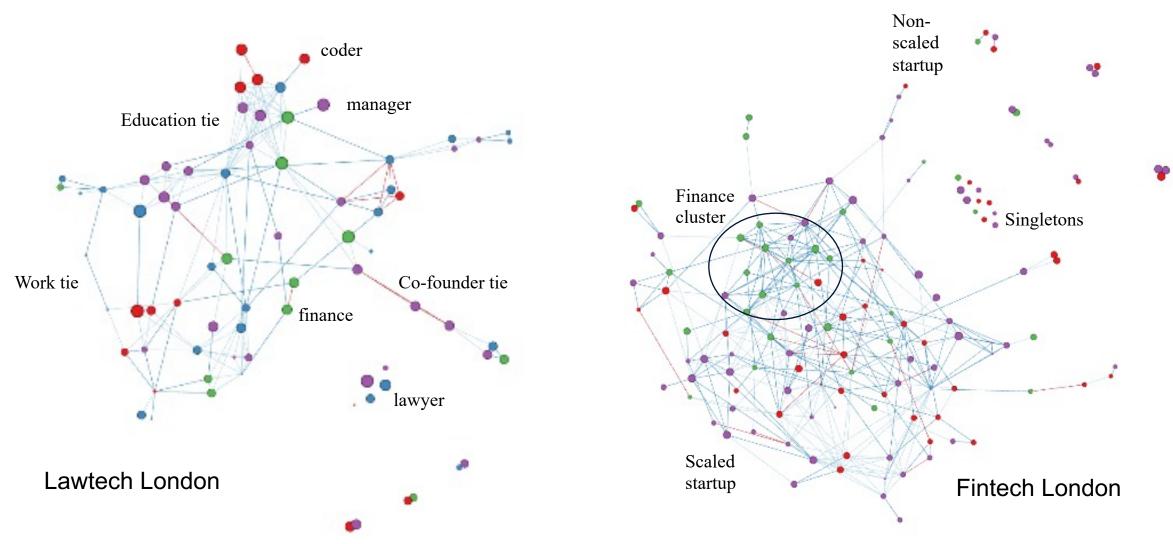




Notes: dot size indicates venture size by employees. Color codes: Dots for founders (red = coder; blue = lawyer; green = financier; purple = manager; Lines for social ties (red = co-founder ties; dark blue = employment ties; light blue = education ties).



#### WINNERSITY OF OXFORD WOrk or educational ties



Notes: dot size indicates venture size by employees. Color codes: Dots for founders (red = coder; blue = lawyer; green = financier; purple = manager; Lines for social ties (red = co-founder ties; dark blue = employment ties; light blue = education ties).



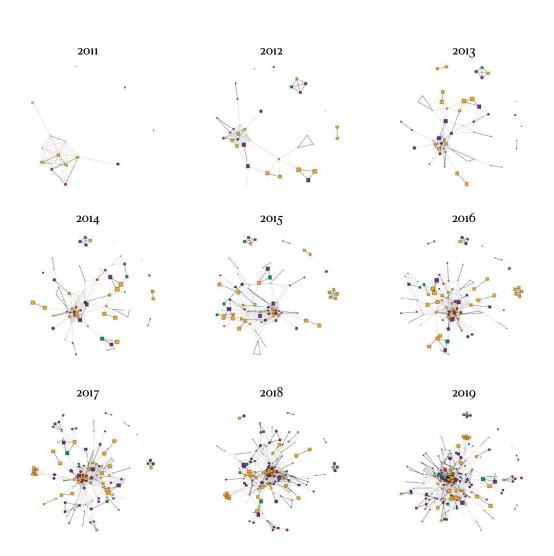
#### Most founders are connected through work or educational ties UNIVERSITY OF OXFORD Fewer singletons Fintech SF coder than in London manager Co-founder tie . 1 finance Nonscaled startup

Education tie finance More connections between Lawtech SF founder than Work tie in London Scaled startup lawyer

Notes: dot size indicates venture size by employees. Color codes: Dots for founders (red = coder; blue = lawyer; green = financier; purple = manager; Lines for social ties (red = co-founder ties; dark blue = employment ties; light blue = education ties).



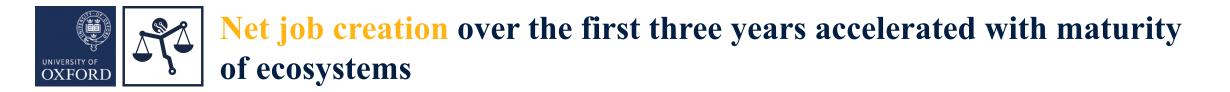


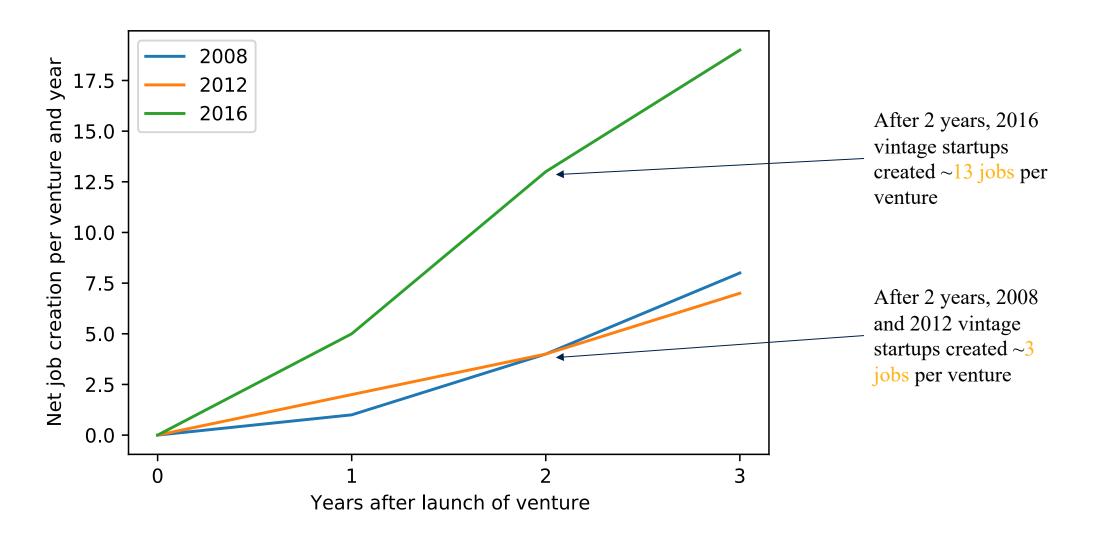


San Francisco 2011 to 2019

Notes: the color coding of nodes has changed from previous slides.











**Social networks** contribute to scaleup, and highly connected founders scale faster. Both education and employment ties are helpful. **Founders benefit** from knowledgesimilarity within their social network.

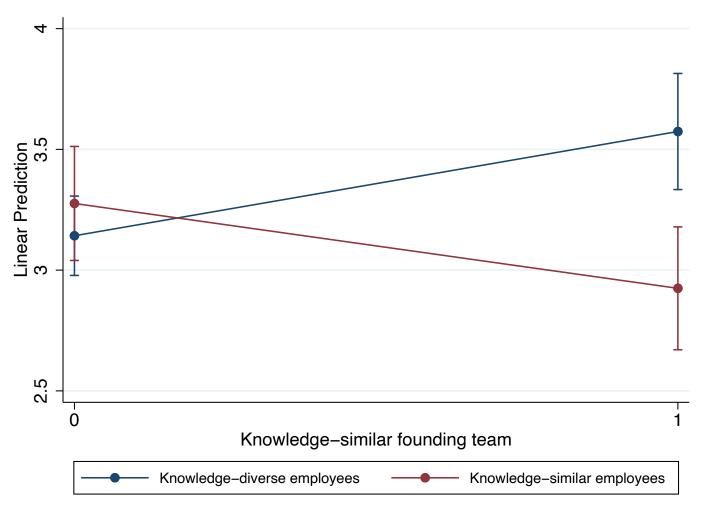
Model		(1)	(2)	(3)
Corresponding hypothesis		H2a &H2c	H2c & H2d	H2c & H2d
Level of analysis		Founder	Founder	Founder
Knowledge-similar founding team		0.4588***	0.4542***	0.4407**
		(0.1546)	(0.1554)	(0.2219)
Founder degree centrality		0.1695***		0.1595***
		7 (0.0560)		(0.0604)
Founder degree centrality (education)	A higher		0.1400***	
	degree	(	(0.0536)	
Founder degree centrality (employment)	centrality is		0.1162**	
	helpful for		(0.0511)	
Founder between centrality	scale-up	0.0167	-0.0886	-0.1590
		(0.2201)	(0.2365)	(0.2393)
Knowledges-similar networks (relative)		0.2075*	0.1920	0.2974**
		(0.1200)	(0.1185)	(0.1378)
Knowledge-similar networks (absolute)		0.0019	-0.0137	-0.0274
		(0.1096)	(0.1101)	(0.1265)
Founder degree centrality x				
Knowledge-similar founding teams				0.0259
				(0.1479)
Founder between centrality x				0.0000
Knowledge-similar founding teams				0.8909
Knowladza, similar nativalia (nalativa) v				(0.5828)
Knowledges-similar networks (relative) x Knowledge-similar founding teams				-0.3289
Knowledge-similar founding teams				(0.2847)
Knowledge-similar networks (absolute) x				(0.2017)
Knowledge-similar founding teams				0.1112
				(0.2489)
Venture-level control variables		Yes	Yes	Yes
Founder-level control variables		Yes	Yes	Yes
Area of work fixed effect		Yes	Yes	Yes
Location fixed effect		Yes	Yes	Yes
Year fixed effect		Yes	Yes	Yes
R <sup>2</sup>		0.2943	0.2968	0.2980
Number firms		315	315	315
Observations		3,054	3,054	3,054



Early joiners help knowledge-similar founders to access the diverse ideas and skill-sets to scale ventures. **Diversity of** employees contributes to fast scale-up.

Model	(1)	(2)	(3)	(4)
Corresponding hypothesis	H3a	H3a	H3b	H3b
Level of analysis	Venture	Founder	Venture	Founder
Knowledge-similar founding teams	0.3403**	0.3253**	-0.2723	-0.3125
	(0.1492)	(0.1432)	(0.2612)	(0.2613)
Absolute knowledge-similar employees	0.0533	0.0975	-0.2019	-0.1337
	(0.1690)	(0.1970)	(0.1775)	(0.2256)
Absolute knowledge-similar employees x knowledge-similar founding teams		Absolute knowledge-	1.0031***	0.7830**
		similar	(0.3629)	(0.3597)
Relative knowledge-similar employees	-0.2887*	employees can	-0.2714*	-0.3872**
	(0.1434	moderate and mediate the	(0.1600)	(0.1944)
Relative knowledge-similar employees x knowledge-similar founding teams		effect of knowledge-	-0.2986	-0.0823
		similar founding	(0.3052)	(0.3099)
Venture-level control variables	Yes	teams.	Yes	Yes
Founder-level control variables	No	Yes	No	Yes
Area of work fixed effect	Yes	Yes	Yes	Yes
Location fixed effect	Yes	Yes	Yes	Yes
Year fixed effect	Yes	Yes	Yes	Yes
R <sup>2</sup>	0.4103	0.4336	0.4184	0.4411
Number firms	315	315	315	315
Observations	1651	3054	1651	3054







Note: The figure uses 80% confidence bands.





#### Venture Analytics Initiative (VAI)



#### Aims and objectives of VAI

- Problems identified
  - Existing classifications of tech startups in databases are incomplete or inaccurate
  - Decisions made by ecosystem stakeholders founders, investors, policymakers -- are based on incomplete data
  - Gut feel may lead to bias, undermining diversity, equality and inclusion
- How to solve this market failure?
  - Develop a taxonomy that satisfies multiple stakeholders' purposes
    - Founders: which client base is underserved?
    - Investors: how to identify investment targets faster (which venture characteristics best predict scale-up potential?)
    - Policy-makers: which technology area or skill area require policy support?
  - Use publicly available data and private data (in a privacy-preserving way) to classify ventures
- Nine-dimensional taxonomy, with applications in Lawtech, Fintech, HealthTech, and PropTech





#### Building an automatic technology venture classifier

Scrape text from company webpages and structure information from pitch decks

- Daily scrapes of 40k webpages of startups.
- Process and structure pitch deck data for ventures currently seeking funding.
- Integrate the pitch deck data in a privacy preserving way.
- Split the web page text corpus into sentences. Use sentences as the unit of classification.

Annotate sentences according to taxonomy

- Manually annotate for the OVET categories.
- Use the Oxford Sentence Annotators, with its integrated machine learning models to accelerate annotation process.
- Achieve cost-efficient annotation process using integration into Amazon Mturk, to crowdsource annotations.

Apply classification engine to universe of startups

- Use annotations to automatically classify startups into OVET categories.
- Dynamically update classifications based on new available information.
- Make the classifications available to the public within an open-source, open-access web tool.



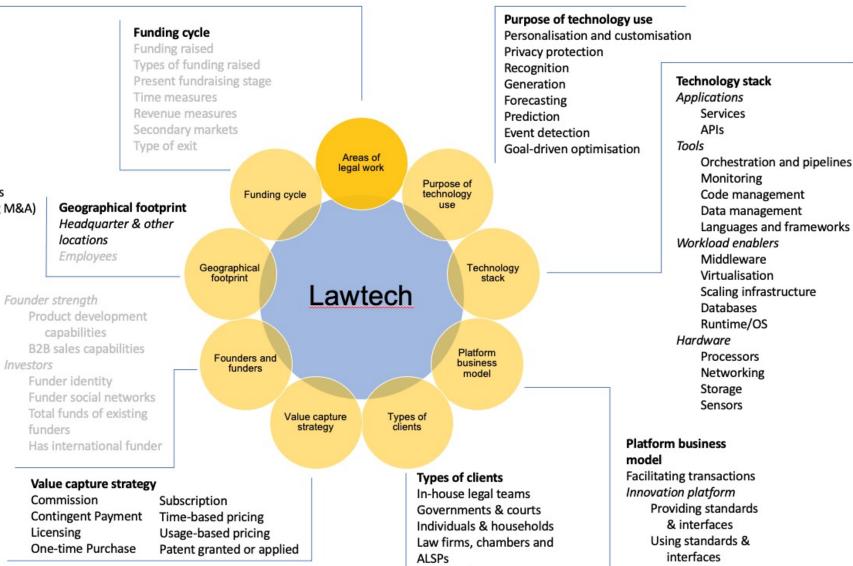


#### The taxonomy for the Lawtech sector with its categories. **Some OVET** dimensions require thirdparty data, such as from LinkedIn.

Areas of legal work Managing the business People & resources Finance & operations Clients Managing & performing Knowledge Matters Risks Rights management Performing Documents & contracts Transactions (including M&A) Litigation

#### Founder and funders

Founder characteristics Age of founder at launch Gender Has children Is immigrant Founder experience Founder knowledge domains Founder education and employment Founder social networks Serial entrepreneur Founder family ties Parental occupation of founder Relatives as investors



Non-legal

Note: Grayed out categories require additional third-party data.









#### Lawtech vs Fintech

Lawtech startups are **smaller** on average than fintech startups

Smaller proportion of lawtech startups get **external funding** than fintech startups

Ventures with **lawyer founders** scale more slowly

Founders' knowledge domains vary by location: in lawtech ecosystems, 44% of founders are lawyer-founders in NYC, 33% in London, and 26% in SF

#### Knowledge domains of founders and early joiners

**Knowledge-diversity** in founding teams important in early stages of ecosystems

Knowledge-similarities in founding teams help scaleup and obtain funding

#### Dense social ties of founders facilitate scaleup

#### Early joiners' knowledge domains

complement founders' knowledge domains and help ventures access diverse skills



#### **Venture Analytics Initiative (VAI)**

Oxford Venture Ecosystem Taxonomy (OVET) being finalized

Plan to start with UK ventures based on startup population identified by Beauhurst

Plan to launch a webtool in summer 2022

#### IF YOU'RE INTERESTED IN GETTING INVOLVED, PLEASE CONTACT US AT:

VAI@sbs.ox.ac.uk

