



RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

DEMOCRATISING ACCESS TO SMART MONEY IN EU: EVIDENCE FROM THE VICO DATASET

7th RISIS Policymakers Session Apr 30th, 2021 @ 2:00 pm - 4:00 pm



Innovative startups and venture capital



- Innovative startups are key drivers of innovation, job creation, and economic development (e.g. Audretsch and Keilbach, 2004; 2005; Criscuolo et al., 2014)
 - They need substantial financial resources to grow and scale-up their operations

- Venture Capital (VC) is an important source of funding for innovative startups
 - Smart money: strategic, technical, marketing, and managerial support besides money

Policy initiatives



 In recent years, both European Governments and the European Commission have devoted increasing attention to innovative startups and the development of VC through several policy initiatives

- A few examples:
 - EIF's Funds-of Funds and Guarantee Debt funds
 - European Council for Innovation's Plan within Horizon Europe
 - National GVC initiatives (e.g., BPI France, Invitalia)

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The role of geography



 Entrepreneurs in different geographical areas and countries face considerably different VC market conditions

- VC activity tends to be concentrated in a few preferred locations (VC hubs), typically around economically and financially developed metropolitan areas
 - Silicon Valley, Boston, and New York City in the U.S. (e.g. Lindgaard Christensen, 2007, Chen et al., 2010; Cumming and Dai, 2010)

This policy brief



- How is evolving the geographical distribution of VC in Europe?
- Is VC activity agglomerated around a few preferred locations?
- What about VC investments in more peripheral areas?
- Are we observing an increased dispersion of VC activity outside large metropolitan areas?
- Are there new, emerging VC hubs?
- Are there differences across sectors?

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Data and methods



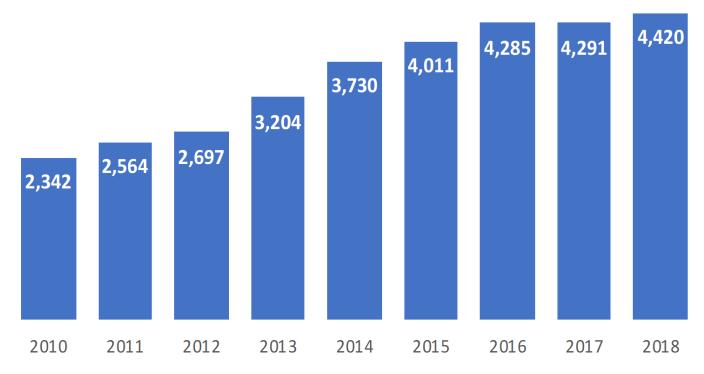
- RISIS-VICO is a dataset featuring geographical, industry and accounting information on innovative startups that:
 - Have received at least one VC investment from 1998 to 2018
 - Operate in the 27 European Union countries, United Kingdom and Israel

- We use the VC deal as the unit of analysis of the present report
 - 31,544 VC deals in the period 2010-2018

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Number of VC deals by investment year

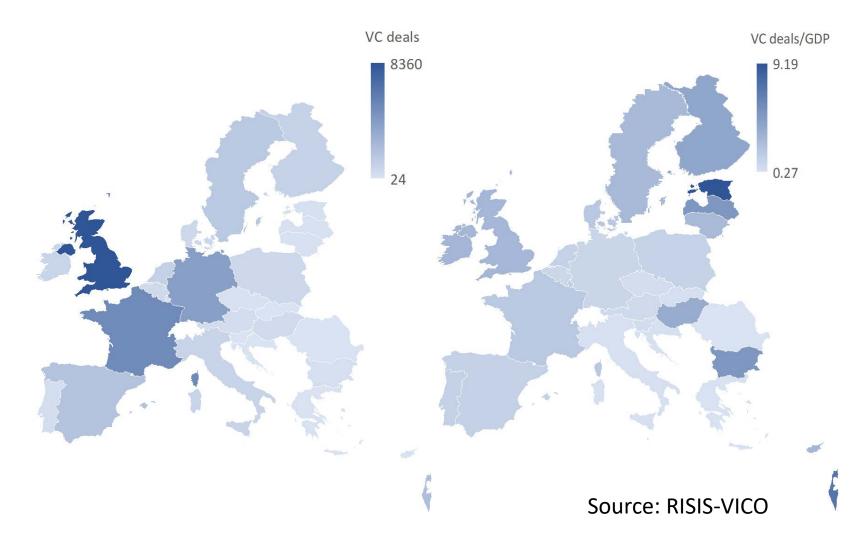




Source: RISIS-VICO

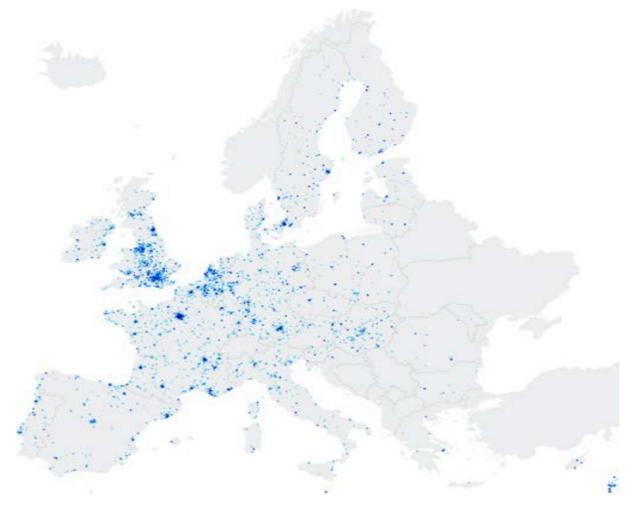
Number and incidence of VC deals by country





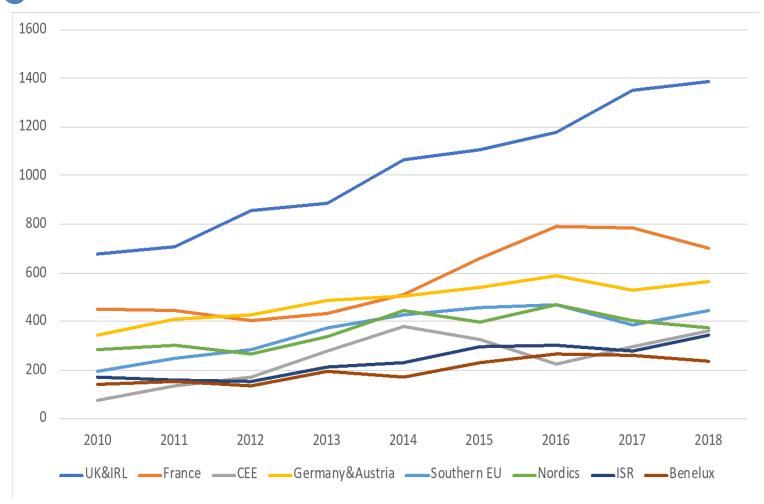
Geographical dispersion of VC deals





Source: RISIS-VICO

VC deals across EU macro- RISIS regions



Source: RISIS-VICO

Analysis of agglomeration patterns



- 38 Large Metropolitan Areas (LMAs)
 - Urban areas with more than 1.5 million inhabitants
- 251 Metropolitan Areas (MAs)
 - Urban areas between 250,000 and 1.5 million inhabitants
- 633 Medium-sized, Small and Rural Areas (MSRAs)
 - Urban and rural areas with less than 250,000 inhabitants

Concentration in LMAs



	Number	% population	% VC deals	% deals / %population
Large Metropolitan Areas	38	31.9%	60.6%	1.9
Metropolitan Areas	251	32.3%	25.3%	0.8
Medium, Small & Rural Areas	633	35.8%	14.0%	0.4

Source: RISIS-VICO

VC deals & urban areas across time

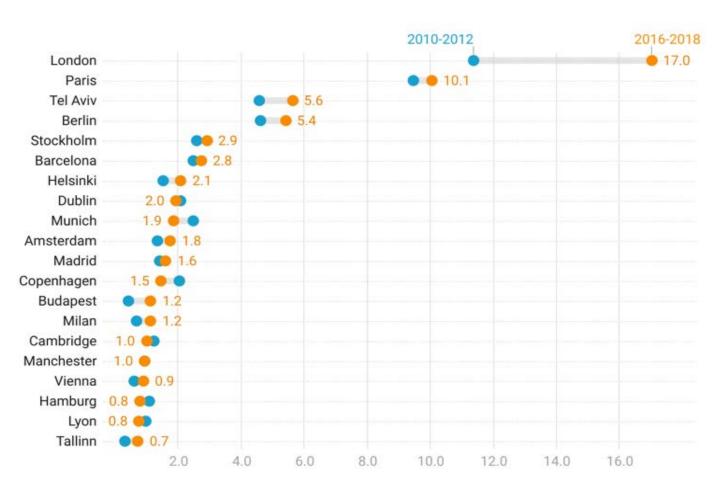


	2010-2012	2013-2015	2016-2018
Large Metropolitan Areas	56.8%	58.6%	64.5%
Metropolitan Areas	26.7%	26.8%	23.4%
Medium, Small & Rural Areas	16.5%	14.6%	12.1%

Source: RISIS-VICO

Distribution of VC deals in top 20 VC hubs





Source: RISIS-VICO

Industry focus



- Software, Internet & TLC (S&I)
 - 40% of VC deals in the 2010-2018 period

- Life Science (LS)
 - 10% of VC deals in the 2010-2018 period

- R&D and engineering (R&D)
 - 9.5% of VC deals in the 2010-2018 period

VC deals & urban areas by sector



	S&I	LS	R&D
Large Metropolitan Areas	62.5%	48.5%	41.7%
Metropolitan Areas	27.3%	31.0%	36.5%
Medium, Small & Rural Areas	10.2%	20.6%	21.8%

Source: RISIS-VICO

LMAs & sectors across time RISIS (%VC deals/%population)



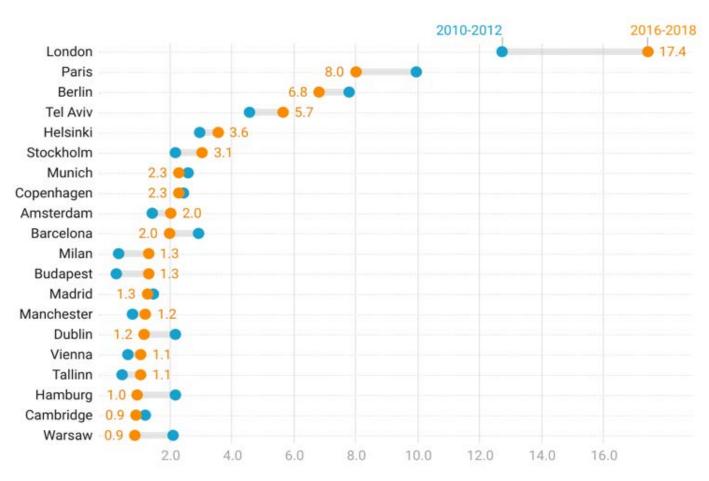
	2010-2012	2013-2015	2016-2018
S&I	1.19	1.27	1.43
LS	0.86	0.83	0.88
R&D	0.66	0.70	0.77

Source: RISIS-VICO

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Distribution of VC deals in top 20 VC hubs - S&I

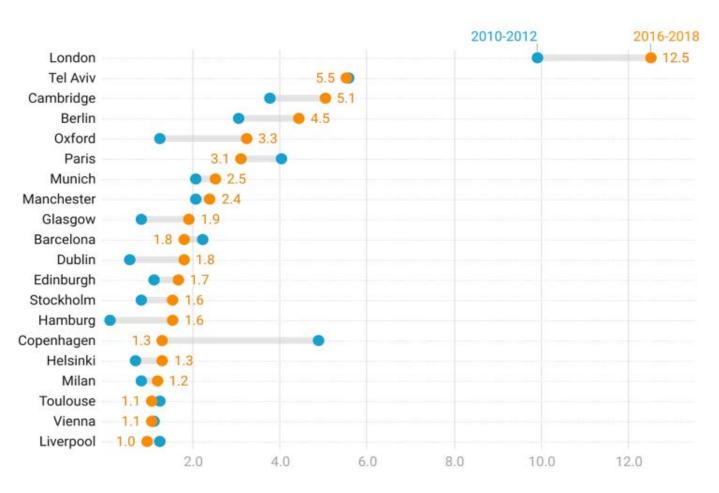




Source: RISIS-VICO

Distribution of VC deals in top 20 VC hubs - LS

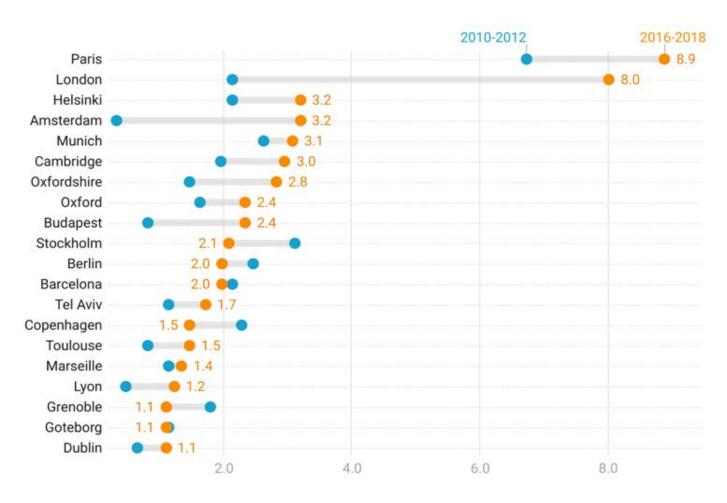




Source: RISIS-VICO

Distribution of VC deals in top 20 VC hubs - RD





Source: RISIS-VICO

Key findings



- VC deals are unevenly distributed across countries
 - UK and France are the most relevant VC markets
 - Eastern European countries and Israel show the highest incidence rates (VC deals / GDP)
- VC activity is mostly concentrated in LMAs
 - However a non-negligible share of VC activity in more peripheral areas
- Increasing concentration of VC activity in LMAs from 2010 to 2018
- Important differences emerge across sectors
 - LS exhibits higher dispersion of VC deals outside the main VC hubs mainly in areas with relevant knowledge creation activity

Policy implications and discussion



- The alleged democratization of equity finance (through alternative channels such as equity crowdfunding) does not seem to have been reflected in the VC industry macro-trends so far
 - In well-developed VC markets such as the UK, alternative finance does not play a key role in equity finance democratization
- Role of GVC initiatives in closing regional equity market gaps
 - In France more dispersed investment patterns
- Policies aimed at increasing regional knowledge capacity may have an indirect positive effect on the democratization of access to external equity finance
 - LS sector is characterized by a higher dispersion of VC deals in MAs where major university centres (e.g. Cambridge, Oxford) are located

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