M2. EU Entrepreneurship T2.1 Entrepreneurial Ecosystems & Business Modelling

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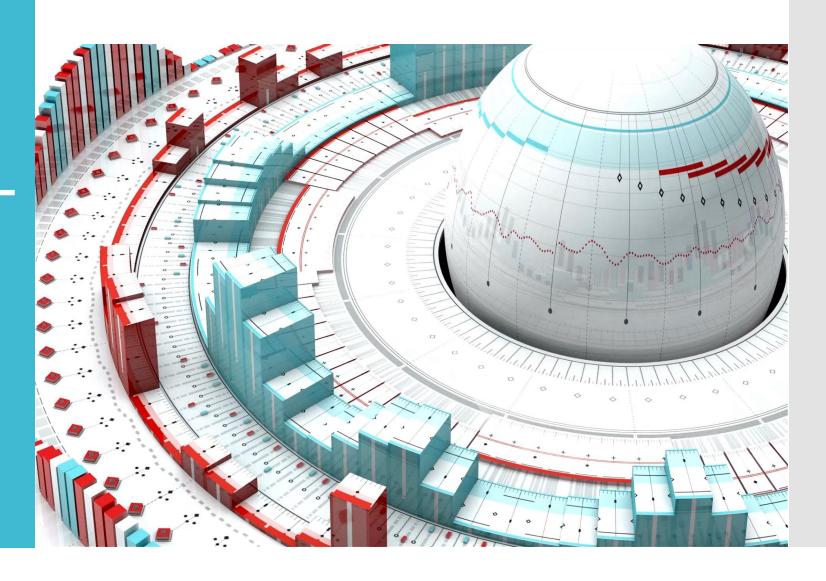






ENTREPRENEURIAL ECOSYSTEMS & BUSINESS MODELLING

Assoc. Prof. Dr Juliana Vassileva | Citeuropass



You and Entrepreneurship? In Europe and Worldwide

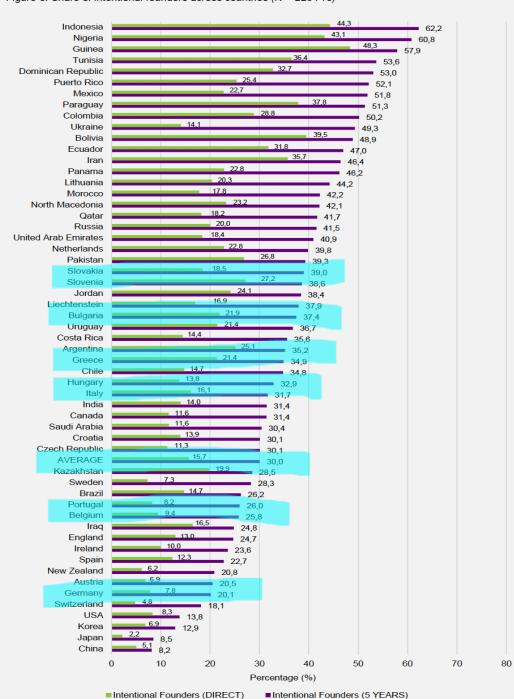
Nascent | Active | Intentional – Directly after Studies OR Years later?

Global Students' entrepreneurial intentions and activities 2023

□ 15,7 percent of all students intend to be an entrepreneur **directly** after studies ("direct intentional entrepreneurs"). □ 30 percent plan to be an entrepreneur **5 years after** completion of studies. ☐ A central and stable pattern is "first employee, then entrepreneur". ☐ The career plans of "direct intentional entrepreneurs" are very stable: 81,2 percent of them still intend to be an entrepreneur 5 years later. □ Since 2011, the share of intentional founders (referring to 5 years after completion of studies) has been in a similar range across GUESSS editions (between 28,2 and 34,3 percent). □ 25,7 percent of all students are in the process of founding a new venture (nascent entrepreneurs). 11,1 percent already own and run their own business (active entrepreneurs). ☐ The shares of intentional, nascent, and active entrepreneurs differ considerably across countries. As in previous GUESSS editions, the overall pattern is that developing countries tend to exhibit higher numbers than developed countries.

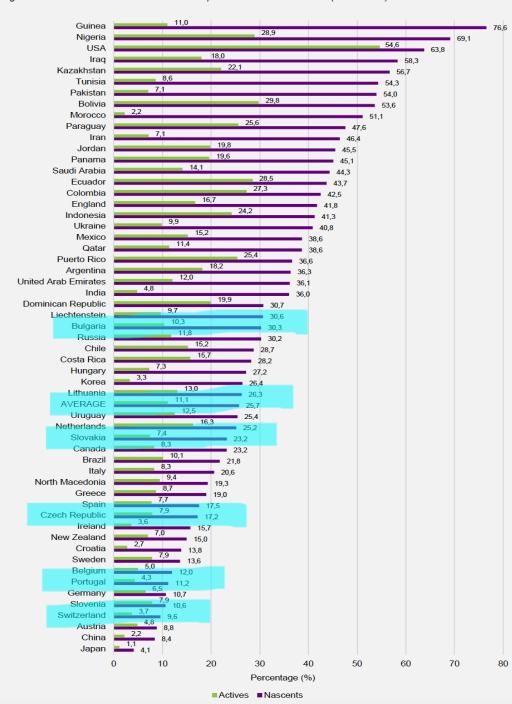
Intentional Students-Entrepreneurs 2023

Figure 5. Share of intentional founders across countries (N = 226'718)



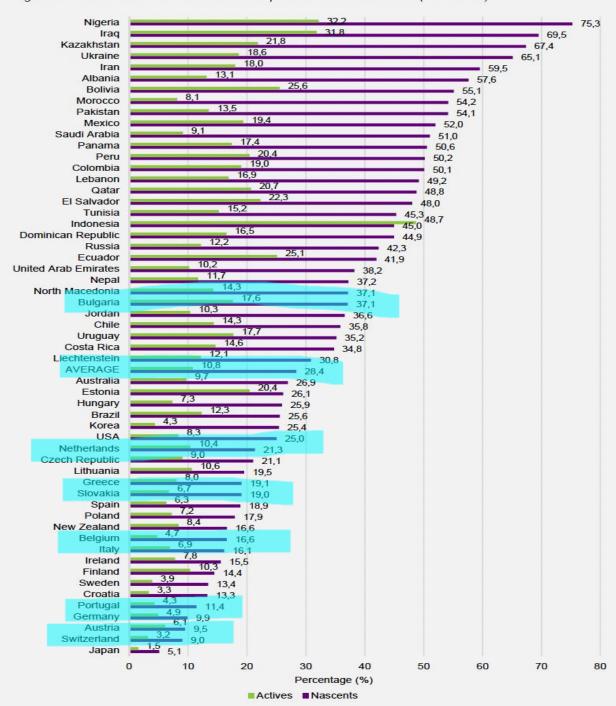
Active vs Nascent StudentsEntrepreneurs 2023

Figure 8. Shares of nascent and active entrepreneurs across countries (N=226'718)



Active vs Nascent Students-Entrepreneurs 2021

Figure 13. Shares of nascent and active entrepreneurs across countries (N=267'366)



Entrepreneurial **intentions**, **nascent** entrepreneurship, growth and performance of **new ventures**, and family firm **succession**

Influencing factors at **individual** level (motives, social identity), **family** level (family business background), **university** level (entrepreneurship education, entrepreneurial climate and learning), **contextual** level (culture)



Swiss Institute of Small Business and Entrepreneurship

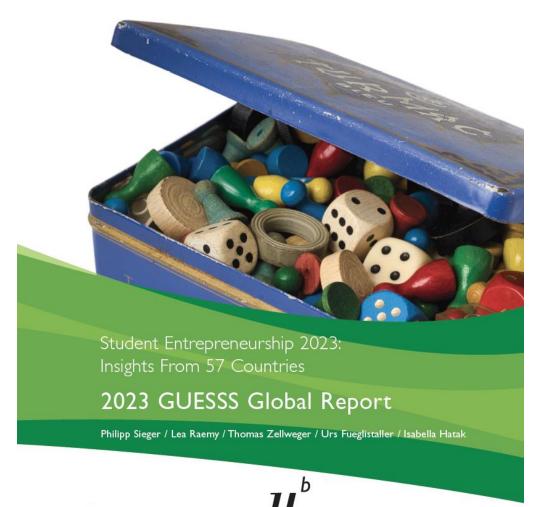


b UNIVERSITÄT BERN Prof. Philipp Sieger
University of Bern / GUESSS CEO

Prof. Thomas Zellweger Prof. Urs Fueglistaller Prof. Isabella Hatak University of St.Gallen Supervisory Board

g:	2003	2004	2006	2008	2011	2013/14	2016	2018	2021	2023
Worldwide	1	2	14	19	26	34	50	54	58	57
Universities	1	2			500	759	1000	3000		
Responses		5000	37000	63000	93000	109000	122509	208000	267000	226718
Bulgaria									5+1	31+1
BG Responses									717	1742







and Entrepreneurship



National Reports based on the 2023 Survey

Academic Journal Publications | GUESSS Global Reports | Practitioner-oriented Studies



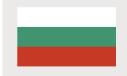
National Report NORTH MACEDONIA 2023

Release: 21 March 2025 PDF_english_(434 KB)



National Report **MEXICO** 2023 Release: 26 February 2025

PDF_spanish_(2 MB)



National Report **BULGARIA** 2023

Release: 20 February 2025 PDF_english_(4.4 MB)



National Report Republic of KOREA 2023

Release: 12 February 2025 PDF_english_(23.2 MB)



National Report **NETHERLANDS** 2023

Release: 23 January 2025 PDF_english_(2.5 MB)



National Report **SPAIN** 2023

Release: 9 January 2025 PDF_spanish_(5.2 MB)



National Report ITALY 2023

Influencing factors

- □ Entrepreneurship education and the entrepreneurial climate at the university continue to be **key determinants** of entrepreneurial intentions and activities.
- □ "Business and management" students exhibit the **strongest entrepreneurial spirit**.
- □ Also in 2023, a **gender gap** in entrepreneurship can be observed. The share of intentional, nascent, and active entrepreneurs is consistently smaller among females than among males, whereby there are considerable differences across countries.
- □ Both nascent and active entrepreneurs exhibit a slightly higher level of **subjective wellbeing** than non-entrepreneurial students. Therefore, seeking wellbeing may constitute another driver of entrepreneurial activities. Also in this regard, noteworthy differences across countries exist.

BG Case (NSI, 2025)

	IAIN ECONOMIC INDICATORS OF NON-FINANCIAL ENTERPRISES BY SIZE OF NTERPRISES IN TERMS OF EMPLOYED AND ECONOMIC ACTIVITY GROUPINGS ^{1, 2}																	
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
		İ	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses	Enterpri ses
		Ī	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
1	Total (all NACE aktivities except AL, O, T and U)	ot I	323003	368229	366929	366240	372036	3773 ⁸ 3	383905	393460	404937	406310	4 ¹ 3535	419681	411564	412878	449481	462752
Grow th%				14,0%	-0,4%	-0,2%	1,6%	1,4%	1,7%	2,5%	2,9%	0,3%	1,8%	1,5%	-1,9%	0,3%	8,9%	3,0%

TO DO 5 minutes

- Teams by nations
- Your National Statistics Institute
- Data 2008-2023
- Influencing factors?
- Drivers of Entrepreneurial Activity?

Society values (ex. n-ach, affect, passion)

Organisational strategies, structures, processes

Demand level, resources, taxes, regulations

Level of Entrepreneurial Activity?

Role models and networks

Interdisciplinarity & Entrepreneurship

Macro School (effects of external environmental factors on the potential for entrepreneurial activity, the access to finance, the political, cultural or economic rejection of the individual and their orientation towards entrepreneurship as an alternative)

Micro School (focus on personal traits that make a successful entrepreneur, on business opportunities and their discovery, and on entrepreneurial strategies oriented around the uniqueness of markets, leaders, products and resources)

(Kuratko, 2017)

strength of **demand** for final products and services in the economy, availability and accessibility of **resources** for new ventures, impact of **inflation** on credit use, encouragement through **tax policies** of new ventures, degree of **regulatory barriers** and **political stability** - favourable public policies for long-term investment (Kent, 1982)

drivers of entrepreneurship such as the need for achievement - part of society's values, emotional commitment, perseverance, passion, independence...

(McClelland, 1961)

22. Responsibility Confidence 23. Foresight Perseverance, determination 24. Accuracy, thoroughness energy, amgence 25. Cooperativeness Resourcefulness 26. Profit orientation Ability to take calculated risks 27. Ability to learn from mistakes Dynamism, leadership **Optimism** 28. Sense of power Need to achieve Pleasant personality Versatility, knowledge of product, 30. Egotism market, machinery, technology Courage Creativity Imagination Ability to influence others Perceptiveness Ability to get along well with people Toleration for ambiguity Initiative Aggressiveness Flexibility 36. Capacity for enjoyment Intelligence Efficacy Orientation to clear goals 38. Commitment Positive response to challenges Ability to trust workers Independence 40. Sensitivity to others 19. Responsiveness to suggestions and criticism 41. Honesty, integrity 20. Time competence, efficiency 42. Maturity, balance TPROCE 21. Ability to make decisions quickly Source: John A. Hornaday, "Research about Living Entrepreneurs," in Encyclopedia of Entrepreneurship, ed. Calvin Kent,

Donald Sexton, and Karl Vesper (Englewood Cliffs, NJ: Prentice Hall, 1982), 26-27. Adapted by permission of Prentice Hall, Englewood Cliffs, NJ.

TO DO 5 minutes

Your Entrepreneurial potential selfassessment

- https://www.bdc.ca/en/articles-tools/entrepreneur-toolkit/business-assessments/entrepreneurial-potential-self-assessment
- Your motivation... Need for achievement/success, The lure of power/control
- Your aptitudes... Self-confidence/enthusiasm, Creativity/imagination
- Your attitudes... A belief in their ability to influence destiny, Action-oriented
- •TRUE or NOT TRUE?
- Your Take-away?

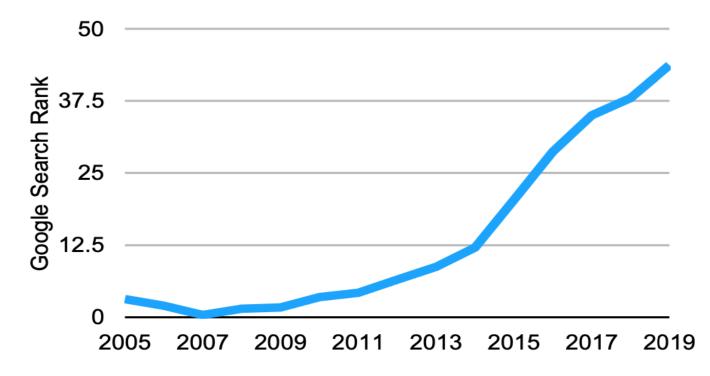
Community of interdependent players Role of context in promoting/limiting entrepreneurship Interdependencies between players in the system

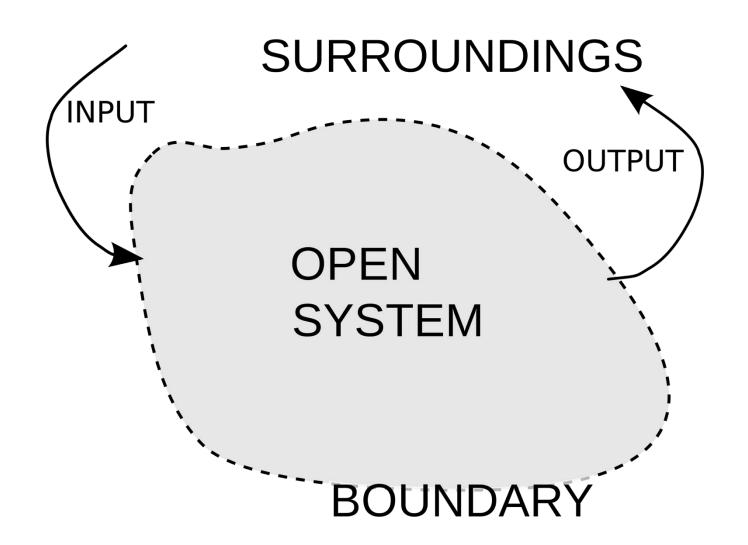


Ecosystem

"a biological community of organisms in constant interaction, including with their physical environment" (Oxford Dictionary, 2021)

Google search trends of entrepreneurial and startup ecosystems





EEs Definition?

... bundle of interconnected players (potential and existing entrepreneurs), entrepreneurial organizations (firms, venture capitalists, business angels, banks), institutions (universities, public sector agencies, financial authorities), and entrepreneurial processes (percentage of emerging business, number of high-growth firms, levels of 'blockbuster entrepreneurship', number of serial entrepreneurs, level of sales mindset in firms and levels of entrepreneurial ambition) that formally and informally come together to connect, broker and manage performance within the local entrepreneurial/I environment

(Mason and Brown, 2014)

EEs Definition?

...bundle of **stakeholders** - institutional, business and non-governmental organizations working to **enhance** entrepreneurial **attitudes**, **activity** and business **excellence**, interacting in a **specific** socioeconomic context

(Hadjitchoneva, 2022)

So, EEs?

Different actors

Independent actors

Common objectives

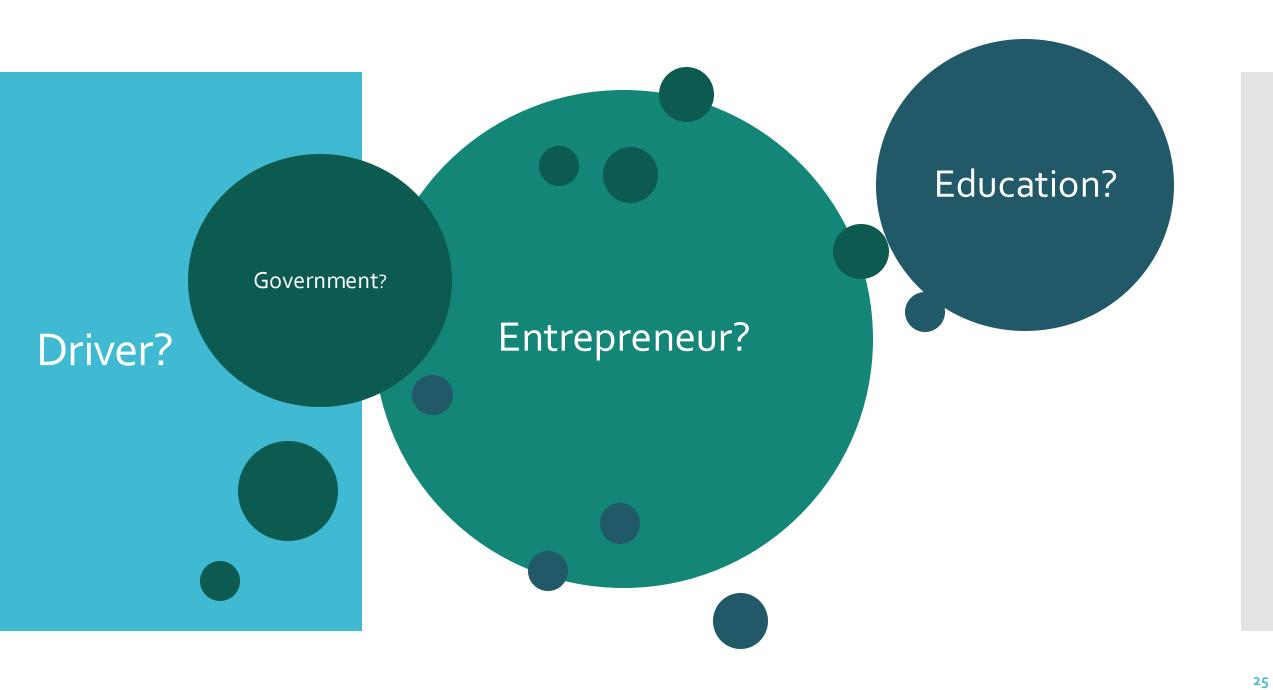
Shared objectives

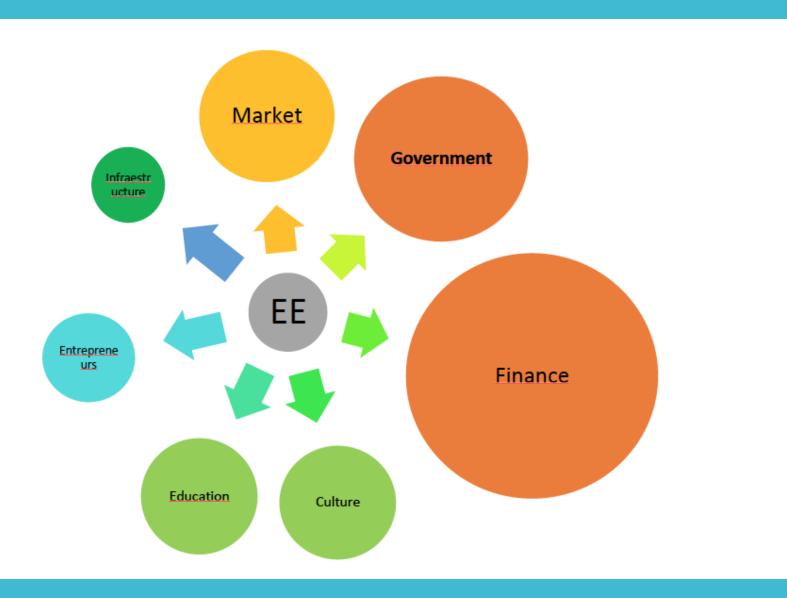
Shared resources

Shared capacity/competencies

Shared institutions

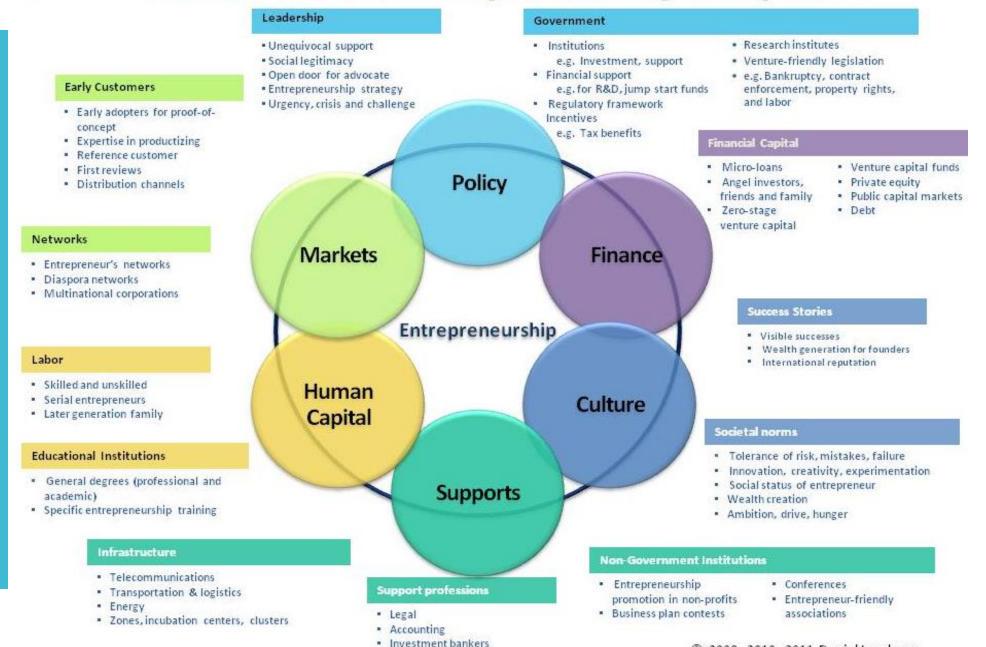
Strategic interest





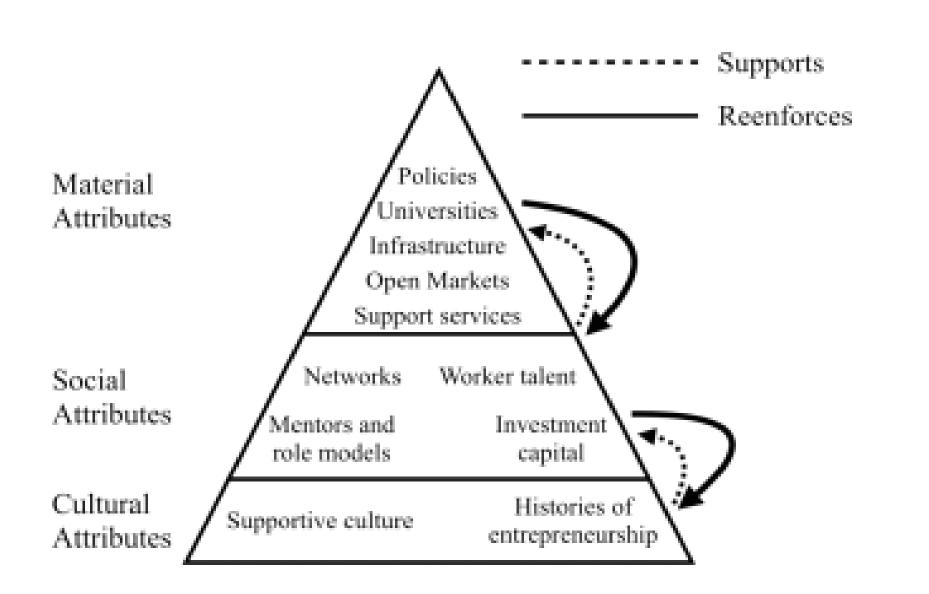


Domains of the Entrepreneurship Ecosystem



· Technical experts, advisors





Spigel's Model (2015)

Components for Success?

	Authors													
		ISENBER G 2011	Aleksi Aaltone n 2016	Stam & Spige I (2016	OCDE (2016d) , Start- up Latin Americ a 2016	Audretsc h, D.B. & Belitski, M. J (2017)	Neumey er S,C. Santos 2018	Ferrer o 2018	GEM 2017 - 2018	GEI 201 6	Garcí a Godo y 2016	Prahala d C. K., 2005	Góme z, E. Á., & Uría, D. J. C. (2017)	
	Human Capital	*		*								*	*	
	Market	*		*	*				*	*	*	*	*	
	Government	*	*	*	*	*	*		*	*		*	*	
	Finance	*	*	*	*	*	*	*	*	*	*	*	*	
	Culture	*		*	*	*		*	*		*			
	Education		*	*			*	*	*	*			*	
	Large companies		*											
FACTORS	Entrepreneu rs and potential entrepreneur s		*				*		*	*	*	*		
STEM	Private investors		*				*			*	*			
×	Social Capital			*										
ENTRENERUSHIP ECOSYSTEM FACTORS	Science and Tech.			*									*	
ENER	Productive Structure			*									*	
ENTR	Melting pot (Tolerance, diversity, Integration)					*					*			

	nfrastructur // location			*	*	*	*	*	
a	nternet occess and onnectivity			*					*
	Research and Development					*	*		



EEs are recognized where there are high levels of entrepreneurship
Only a list of relevant factors without clarity on interrelations and mechanisms (Isenberg, 2010)
Scope of analyses

Competitive region/country (Porter, 1990)
High productivity (Krugman, 1996)
Innovation, new business starts, job growth,
progress for society (Feld, 2012)





Entrepreneurial Context A replica of Silicon Valley? Each EEs is unique



1970s

Israel: developed without natural resources, under military conditions and far from markets for its products



1990s

Taiwan: developed with a huge accumulation of particularly successful Taiwanese **expatriates** in the US

Ireland: developed with free education, native English speakers, foreign multinationals and proximity to European markets

1980s

China: developed under different regional **policies** and a kind of totalitarian political **system**

2000s

So?

- Education, the regulatory framework and well-functioning capital markets undoubtedly have an effect on the level of entrepreneurship, but in the long run and at lower degree
- Larger effect is exerted by many variables that together influence
- Good examples-catalysts of the process (Skype in Estonia; Scitex and Elscint in Israel; Shockley, Fairchild and HP helping create Silicon Valley, etc.)

EEs becomes (relatively) "self-sufficient"

- Success breeds success
- Declining role of the state
- Once the six domains are sufficiently reinforced - mutual consequential influence
- Sustainability of programmes (selfliquidating)

natural or "build"

Result of "Intelligent Evolution", a process of combining the invisible hand of the market and the supportive hand of public leadership, informed by when and how to lead and ensure through reproduction the sustainability of the system

GCI | GII GEI | GEM | Eurostat NSI | WB | OECD Statista | Crunchbase | Trademap | Others

Hadjitchoneva's Model (2022)

Study of statistics and synthetic indices on entrepreneurship and innovation, complementing data on components of the entrepreneurship and innovation ecosystems

Institutions | NGOs | Business Sofia Technopark | Technology and Industrial Park Politics and governance | Education | R&D | Patents

Study of institutional and non-institutional stakeholders in the innovation ecosystem

Culture | Role Models of entrepreneurship | Mentors | Talent | Mentors and models | Capital for investment | Policy and governance | University | Infrastructure | Supporting services | Open shops

Empirical study of cultural, social and material characteristics of the business ecosystem

BG EEs

(Hadjitchoneva, 2018)

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SME Strategy |
```

Entrepreneurship 2020

Innovation Strategy |

Operative Programmes

София ТехПарк |

betahaus | Soho | Puzl coworking |

Cosmos Coworking Camp | NGO House |

CoShare HIVE | 1Hub | Malkite5 | Sbar | limacon |

Startup center | Startup factory | beehive | bizlab*

StartUP Academy | UniStart |

Start It Smart | Startup weekend | Eleven | LaunchHub |

BlackPeak Capital | Empower Capital | Post Scriptum |

Neveq | Rosslyn Capital | Unicredit Bulbank

Bulgaria Angels | CEO Club Angels

Endeavor Bulgaria | BVCA | ABLE | BEC | ICT cluster |

StartUp Grind Sofia

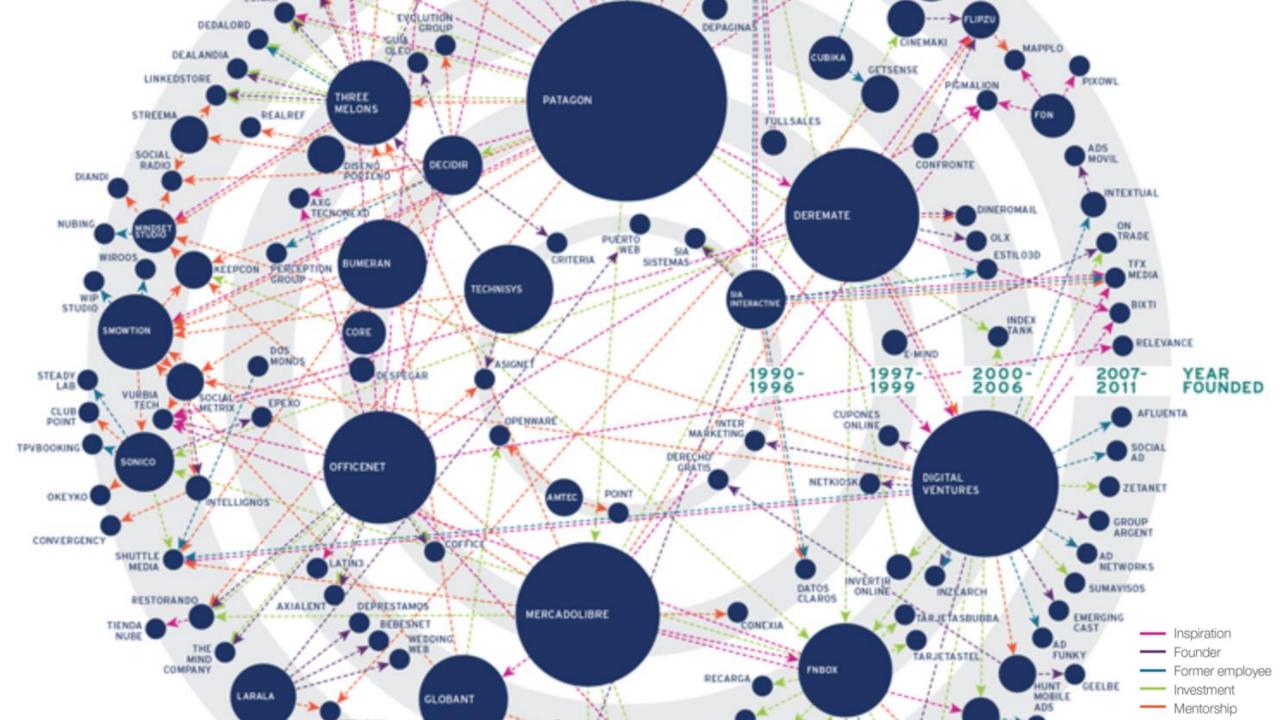
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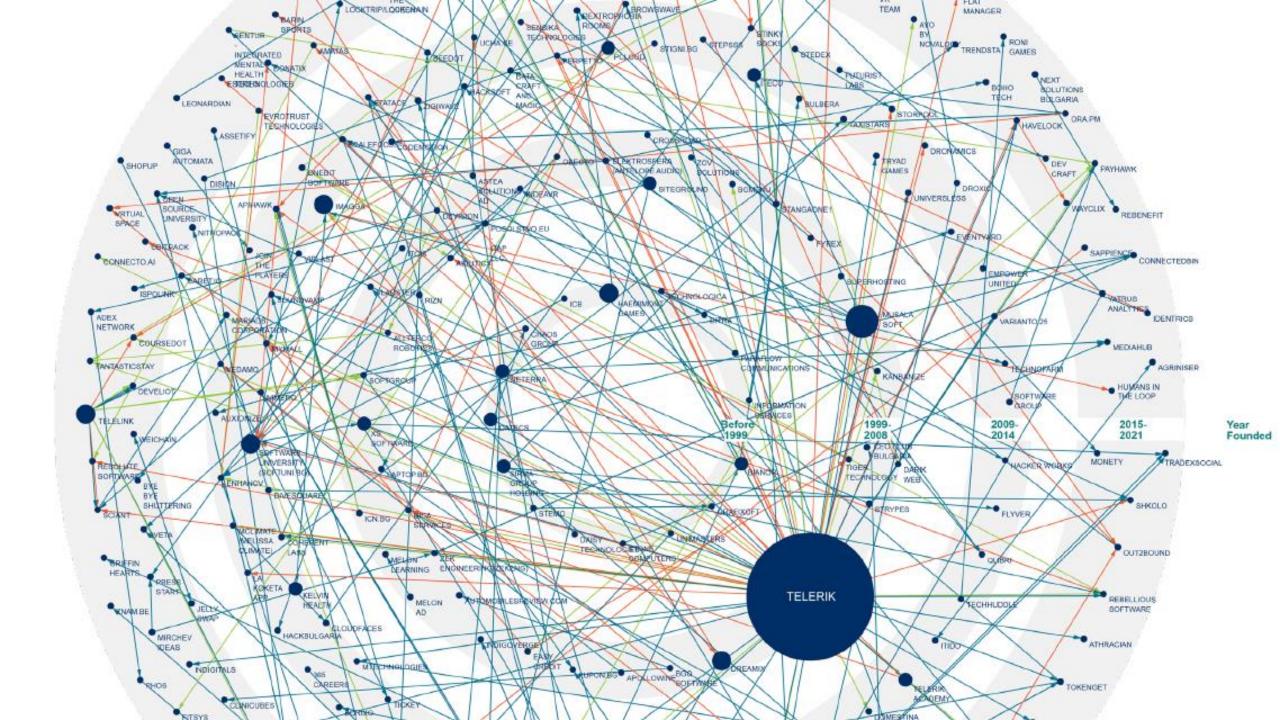
The StartUp Magazine | WakeUp and StartUp Podcast | EDIT | tbmagazine

Telerik (Progress) | Walltopia | Imperia | Flipps | Kanbanize | ChaosGroup | Enhancv | Melissa | betahaus | eBag | Roobar | Melon | Bee Smart Technologies | FinAnalytica | Dronamics | PaperHive*

4 years later?

- overall, no significant change
- more developed and diversified first tier new players (BeMe, FoodObox...), scale-up of start-ups created in 2012-2016, IPO (Dronamics), exit (Metrilo)...
- Bulgarian Innovation Hub
- updated government policies post 2020-2021 or in process
- Fund of Funds (2015)
- First Bulgarian Unicorn (Payhawk)





TO DO 15 minutes

- Teams by nations
- Your EEs Analysis
- Your Star?
- Influencing factors?
- Drivers of Entrepreneurial Activity?

References

- Hadjitchoneva, J. (2022).
 Entrepreneurship, Innovation and Artificial Intelligence in Bulgaria -Dynamics and Management.
 Sofia: UNWE.
- WEF. (2022). Entrepreneurial ecosystems around the globe [online].

ПРЕДПРИЕМАЧЕСТВО, ИНОВАЦИИ И ИЗКУСТВЕН ИНТЕЛЕКТ В БЪЛГАРИЯ

