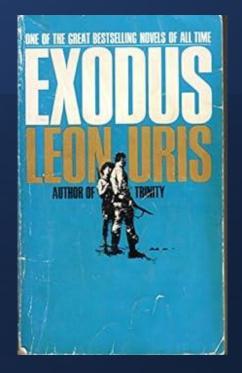
Making a Miracle: Fauda & Entrepreneurial Resilience

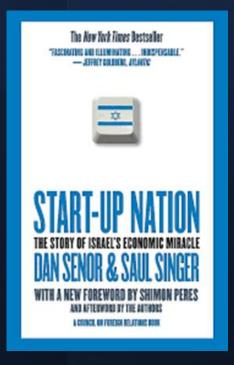
David B. Audretsch & Dafna Kariv

Israel



Making a Miracle





Economic Growth in Israel



+

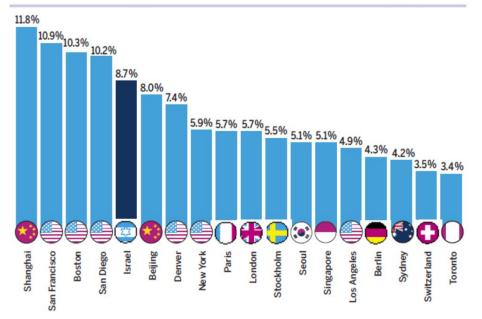
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Entrepreneurship in Israel

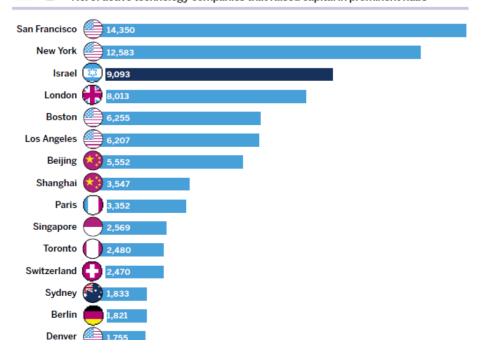
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The Israeli Ecosystem Demonstrates Maturity in the Rate of Large Funding Rounds

Ratio of funding rounds of over 50 millions dollars in selected hubs (2022)

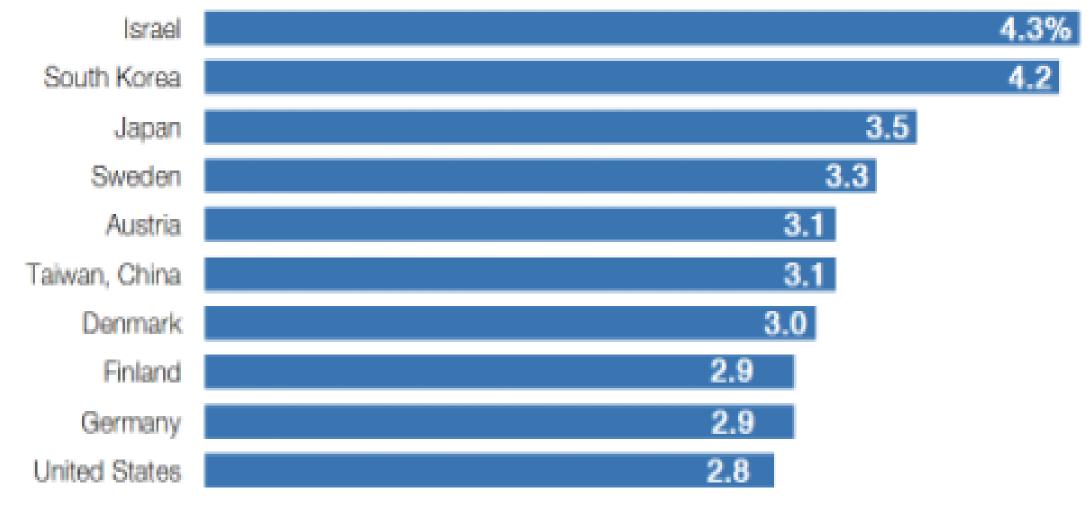


The Israeli Hub - Third in the World in No. of Active Startups No. of active technology companies that raised capital in prominent hubs



These OECD countries spend the most on R&D

Gross domestic spending percentage of GDP, 2015



WORLD

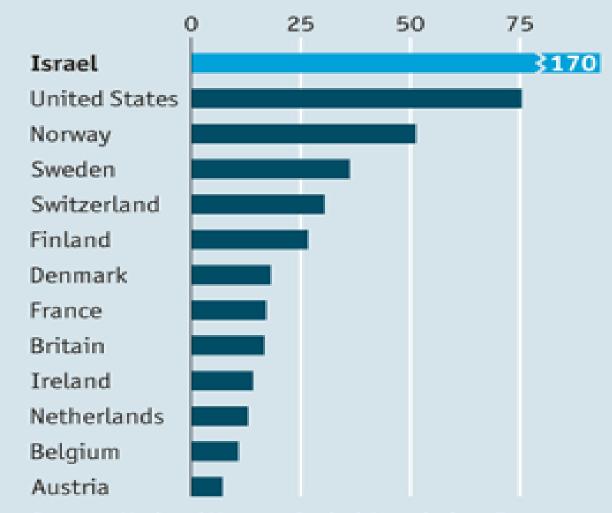
FORUM

COMPARIZED TO BELLEVICES THE REAL

Source: OECD

Mediterranean magnet

Venture-capital investment per person Selected countries, 2010, \$ 1



Sources: National Venture Capital Association; European Private Equity and Venture Capital Association; Israel Venture Capital Research Center; UN

How to Create an Entrepreneurship Miracle?

- Kimjean, J & Davidsson, P., 2022, "External Enablers of Entrepreneurship: A Review Agenda for Accumulation of Strategically Actionable Knowledge," *Entrepreneurship Theory and Practice*, 46(3), 643-687.
- Macro Level Stability

Shane, Scot. 2011. The Great Recession's Effect on Entrepreneurship." Federal Reserve Bank of Cleveland, *Economic Commentary* 2011-04

Thorgren, S., & Williams, T. A. 2020. Staying alive during an unfolding crisis: How SMEs ward off impending disaster. *Journal of Business Venturing Insights*

Mezzo Level – Entrepreneurial Ecosystem

Stam, E., & van de Ven, A. 2021. Entrepreneurial ecosystem elements. *Small Business Economics*, 56: 809–832

• Micro Level -- Entrepreneurial Opportunity, Psychological Capital

Lumpkin, G. T., & Dess, G. . 2001. Linking two dimensions of entrepreneurial orientation to firm performance: The moderating role of environment and industry life cycle. *Journal of Business Venturing*, 16: 429–451.

Luthans, F., Youssef, C. M., & Avolio, B. J. 2015. *Psychological capital and beyond*. New York: Oxford University Press



• External Enablers of Entrepreneurship

--Kimjean, J & Davidsson, P., 2022, "External Enablers of Entrepreneurship: A Review Agenda for Accumulation of Strategically Actionable Knowledge," *Entrepreneurship Theory and Practice*, 46(3), 643-687.

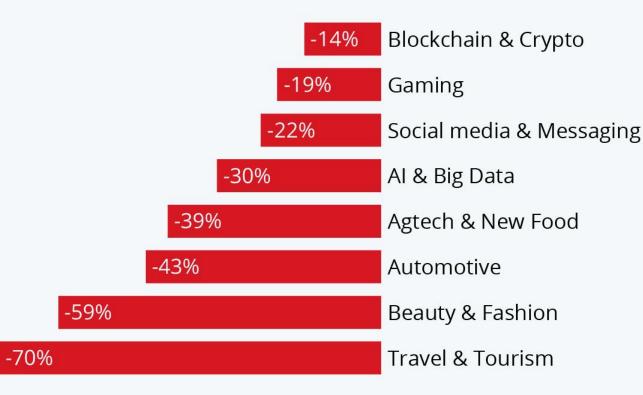
Macro Level Stability & Continuity Conducive to Entrepreneurship

Crisis & Disruption Suppress Entrepreneurship

- -- Shane, Scott. 2011. The Great Recession's Effect on Entrepreneurship." Federal Reserve Bank of Cleveland, Economic Commentary 2011-04 Thereman S. & Williams T. A. 2020. Staving alive during an unfolding arisis: He
- --Thorgren, S., & Williams, T. A. 2020. Staying alive during an unfolding crisis: How SMEs ward off impending disaster. *Journal of Business Venturing Insights*, 14.
- --Kuckertz, A., Brändle, L., Gaudig, A., Hinderer, S., Reyes, C. A. M., Prochotta, A., Steinbrink, K. M., & Berger, E. S. 2020. Startups in times of crisis–A rapid response to the COVID-19 pandemic. *Journal of Business Venturing Insights*, 13: e00169.

How Covid-19 Has Impacted The Global Startup Scene

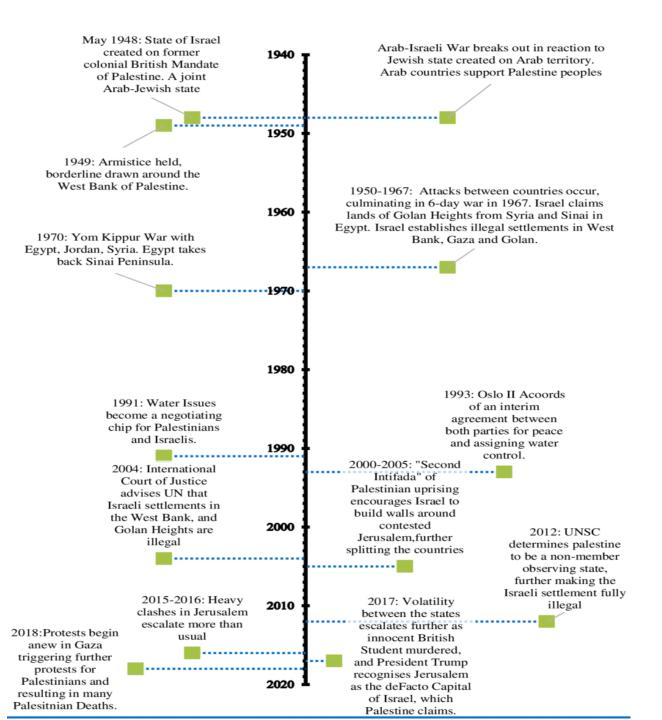
Change in revenue of selected startup sectors since the start of the pandemic^{*}



* Worldwide (between December 2019 and June 2020). Source: Startup Genome



The Israeli Paradox



What's the Secret?

- Macro Context of Crisis & Disruption Deters Entrepreneurship
- Israeli Macro Context of Permanent Crisis -- Fauda
- How Do They Do It?
- Lessons for Entrepreneurs, Entrepreneurial Ecosystems & Policy Elsewhere?

Theory of Community Support Based Resilience

- "No Man is an Island" --John Donne
- Support from Community Bestows Resilience

--Lin N, Simeone RS, Ensel WM, Kuo W. Social support, stressful life events, and illness: A model and an empirical test," *Journal of Health & Social Behavior*, 1979 (20), 108–19

--Resick PA *,Stress and Trauma*. New York, NY: Psychology Press, 2001.

Methodology, Data & Measurement

Research Design I – Interviews: Natural Language Processing (NLP)

Research Design II – Questionnaire Natural Language Procssing (NLP)

31 Founder Interviews

Step 1 – Word Cloud

Step 2 – Sentiment Analysis

Step 3 – Topic Modeling

Results from Natural Language Processing (NLP) Permanent Multiple Crises were frequently described using terms associated with work

Sentiments attached to crises were considerably less negative and more positive or at least neutral

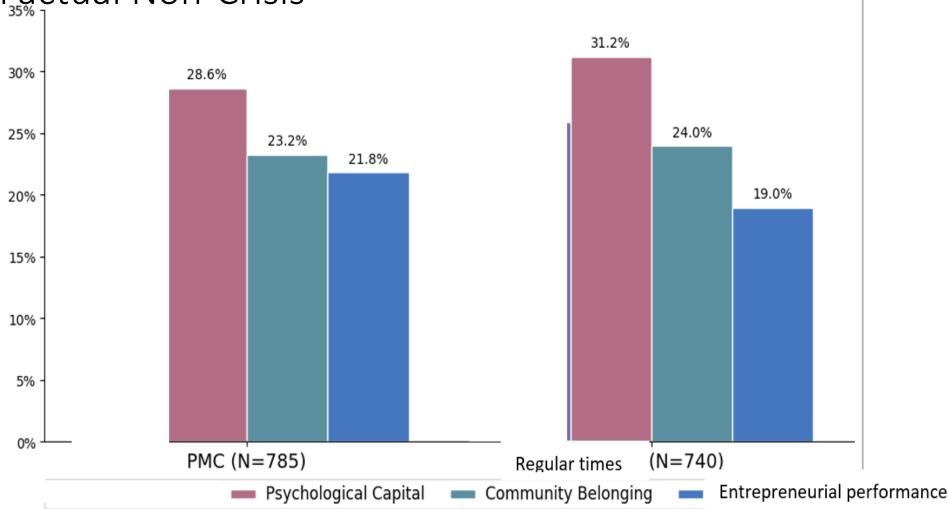
Topics associated with crises included statements associated with opportunities, resources, pivots and resilience.

Sentences by sentiments

Entrepreneurial performance	Confide nce Score	Sentime nt	РѕуСар	Confid ence Score	Sentime nt
I have addressed all crises encountered very professionally, and in any experience of crisis, the startups I was running, became much more	98.0%	Positive	My story is a testament to the power of resilience These experiences have taught me to be resilient, patient, and	98.7%	Positive
successful For example, we made a plan in place to respond to unexpected challenges and to be able to adapt and pivot as	97.6% Positive	persistent, and I am excited to continue on my journey as an entrepreneur	98.7%	Positive	
needed in order to navigate through the crisis, but the plan was not		Positive Negative	This is optimism in the face of adversity	97.9%	Positive
employed eventually, and we worked on another plan Maybe this is the main factor in managing crises	96.3%		But more importantly, it reinforced our belief in ourselves and our vision, and reminded us that we were in this for the right	93.3%	Positive
The crisis was so sudden and unexpected, that we were managed by the crisis, but our hope that things will	94.9%	Negative	reasons I am untrustful about our reputation at the moment	93.1%	Negativ e
get better enabled us to 'go ack to business' So when the pandemic hit, I knew that I had to take a proactive approach	93.9%	Positive	It was a difficult journey, but it taught me an important lesson about the power of resilience and optimism in the face of adversity	92.8%	Positive
We did not manage the crisis, the crisis managed us	93.8%	Positive		<u> </u>	

	Confide		
Sense of belonging to community	nce	Sentiment	
	Score		
investors from our ecosystem	95.4%	Positive	
income communities	94.9%	Positive	
my family also supported me financially	94.3%	Positive	
I attend conferences, join communities,			
and seek out mentors who can offer	93.7%	Positive	
guidance and support			
I had a vision to empower small			
businesses and help them thrive in their	93.7%	Positive	
communities			
two famous collaborators from the	00.1%	Positive	
ecosystem contributed generously	93.1%		
We have come together to share			
resources and ideas, and offer each	93.1%	Positive	
other encouragement and support			
It may not be where I want it to be yet,			
but I have a great team and a supportive	92.5%	Positive	
ecosystem that keeps me going			
I also focused on staying healthy and	92.4%	Positive	
taking care of myself and my family			
Another positive experience was the			
support I received from other women in	92.4%	Positive	
the tech industry			

Community Support, Psychological Capital & Entrepreneurial Performance for Permanent Crisis & (Synthetic) Counter-Factual Non-Crisis



Research Design II – Questionnaire

Start-up Nation Policy Institute (SNPI)

4,000 Founders

N = 489

Entrepreneurial performance -- assessed through the founder responses (ranging from 1 to -5) on their actual implementation of measures representing entrepreneurial performance, based on the model employed by Lumpkin and Dess (2001), which includes innovativeness, proactivity, risktaking and aggressiveness (Covin and Slevin, 1989).

Independent Variables

Sense of Belonging -- Zimet, Dahlem, Zimet, and Parley (1988) scale of perceived social support, which measures the level of the feeling belonging and of being embraced by others, thus relevant to this research (e.g., Nielsen, 2020).

Entrepreneurial Ecosystem This was based on Stam and van de Ven (2021) model, due to their focus on both opportunity exploitation and high technology (Audretsch et al., 2022) and has been recently used in other studies (Prokop & Thompson, 2022)

Independent Variables

Opportunity exploitation -- Measure the positive and negative sides of opportunity exploitation, through capabilities and attitudes. Cronbach's alpha was .76, indicating an acceptable level of reliability.

Psychological capital Developed on the basis of previously established scales measuring hope, optimism, resilience and self-efficacy (Luthans, Youssef, & Avolio, 2007). It included12 items (PCQ-12) and has been shown to exhibit reliability and construct validity in several previous studies (Luthans et al., 2007), including in entrepreneurship research (Baluku et al., 2016; Kariv, Cisneros, Guiliani, & Chouchane, 2023a). The responses were computed to form an overall score of the PsyCap construct, with a Cronbach's alpha of .87, indicating a reliable measure.

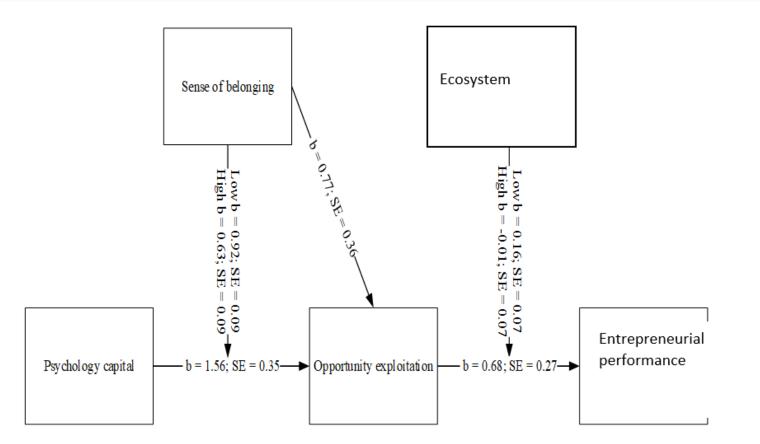


Figure 4. Direct, indirect and moderated relationships between the independent variables on entrepreneurial performance

Conclusions

Israeli difference – The People

We are all Israelis (Crisis & Disruption Have Replaced Stability as The New Normal)

Lessons for Every Region & Country to Create its Own Miracle

"It will never rain roses: when we want to have more roses we must plant more trees" -- George Elliot