

Preface

We have made major changes to the 2017 version of this report. First, we have developed a powerful new conceptual approach to measuring the global entrepreneurial ecosystem that goes beyond calculating an Index to explore additional phenomena that are present in entrepreneurship ecosystems. This is presented in the next section.

Second, we have updated the institutional structure of the Index to reflect better data as it becomes available, updating nine institutional variables as seen below. Two of the most important pillars are Human Capital and Technology Absorption.¹ Countries need to be able to absorb technology from other countries in order to innovate and grow—digital technologies are at the forefront of economic growth. The new structure of the GEI is shown in Table 1. The variables listed in red are all new and are fully explained in Chap. 6. The Index’s measurement lens is now much sharper. We have not updated any of the individual-level variables, keeping the same GEM survey variables.

In order to better understand technology absorption, we have included a more in-depth examination of digital technology and its impact in shaping both the entrepreneurial ecosystem and the global economy in general. We introduce four measures of the digital entrepreneurial ecosystem to start a discussion of technological change in more than 75 countries. This is presented in Chap. 2.

Arlington, VA
Pécs, Hungary
Washington, DC

Zoltán J. Ács
László Szerb
Ainsley Lloyd

¹An absorptive capacity theory of knowledge spillover entrepreneurship. H Qian, ZJ Acs—Small Business Economics, 2013.

Table 1 The structure of the GEI

GLOBAL ENTREPRENEURSHIP AND DEVELOPMENT INDEX	Sub-Indexes	Pillars	Variables (ind./inst.)
	ATTITUDES SUB-INDEX	OPPORTUNITY PERCEPTION	OPPORTUNITY RECOGNITION
			FREEDOM (ECONOMIC FREEDOM *PROPERTY RIGHTS)
		STARTUP SKILLS	SKILL PERCEPTION
			EDUCATION (TERTIARY EDUCATION*QUALITY OF EDUCATION)
		RISK ACCEPTANCE	RISK PERCEPTION
			COUNTRY RISK
		NETWORKING	KNOW ENTREPRENEURS
			AGGLOMERATION (URBANIZATION*INFRASTRUCTURE)
	ABILITIES SUB-INDEX	CULTURAL SUPPORT	CAREER STATUS
			CORRUPTION
		OPPORTUNITY STARTUP	OPPORTUNITY MOTIVATION
			GOVERNANCE (TAXATION*GOOD GOVERNANCE)
		TECHNOLOGY ABSORPTION	TECHNOLOGY LEVEL
			TECHNOLOGY ABSORPTION
		HUMAN CAPITAL	EDUCATIONAL LEVEL
			LABOR MARKET (STAFF TRAINING*LABOUR FREEDOM)
	ASPIRATION SUB-INDEX	COMPETITION	COMPETITORS
			COMPETITIVENESS (MARKET DOMINANCE*REGULATION)
		PRODUCT INNOVATION	NEW PRODUCT
			TECH TRANSFER
		PROCESS INNOVATION	NEW TECHNOLOGY
			SCIENCE (GERD*(AVERAGEQUALITY OF SCIENTIFICAL INSTITUTIONS +AVAILABILITY OF SCIENTISTS AND ENGINEERS))
		HIGH GROWTH	GAZELLE
			FINANCE AND STRATEGY (VENTURE CAPITAL*BUSINESS SOPHISTICATION)
		INTERNATIONALIZATION	EXPORT
			ECONOMIC COMPLEXITY
		RISK CAPITAL	INFORMAL INVESTMENT
			DEPTH OF CAPITAL MARKET

Global Entrepreneurship and Development Index 2017

Acs, Z.J.; Szerb, L.; Lloyd, A.

2017, XVIII, 119 p. 39 illus. in color., Softcover

ISBN: 978-3-319-65902-2