

"Just city" - comparative analysis of Polish cities using a synthetic measure

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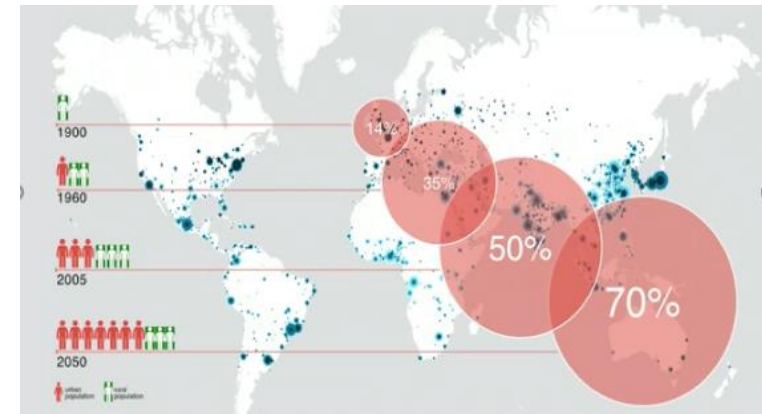
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"We're waiting for the city to come to us..."





<https://www.bankier.pl/wiadomosc/Nowe-osiedla-bez-drog-i-komunikacji-miejskiej-bolaczka-polskiego-budownictwa-deweloperskiego-3594624.html>

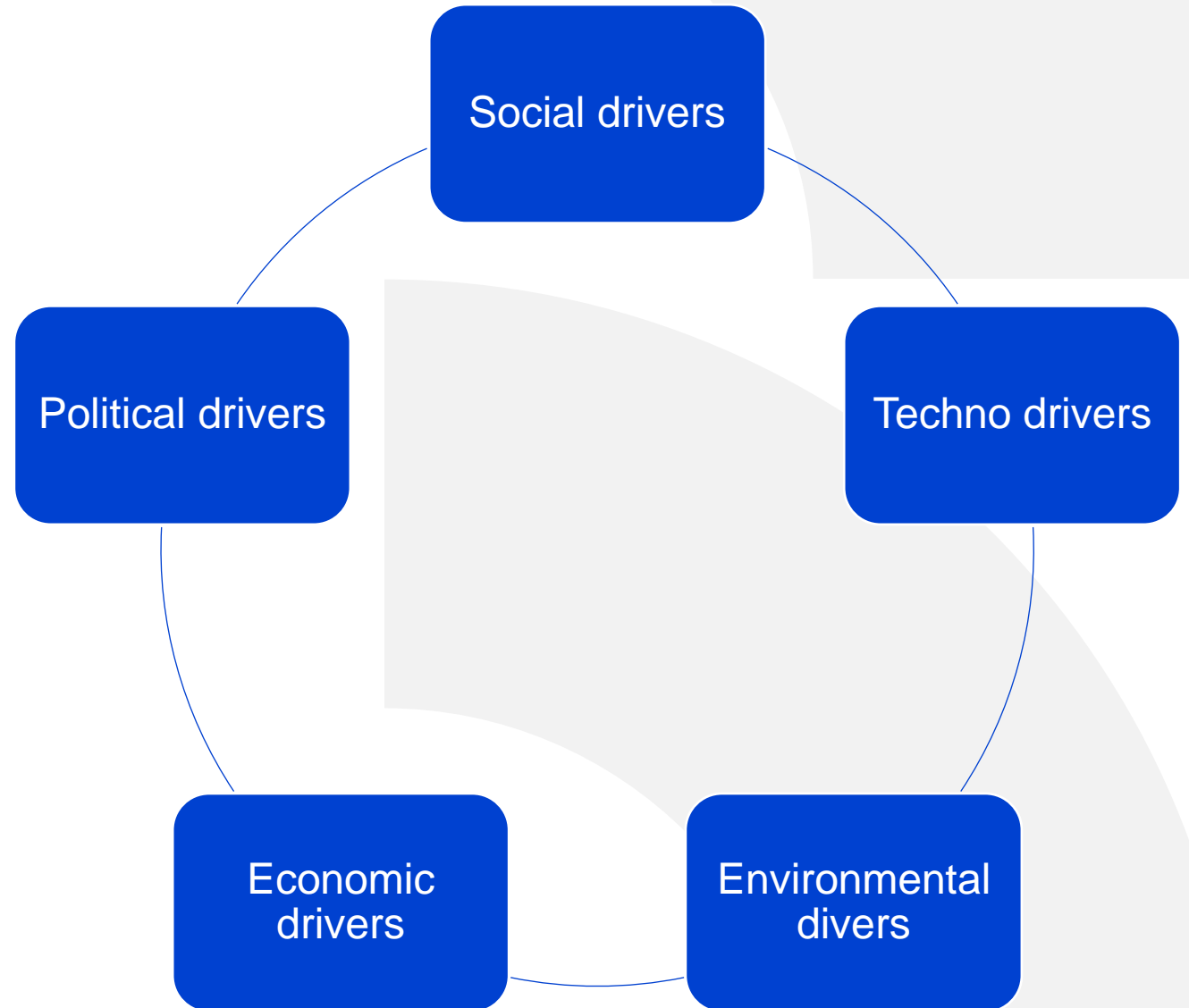


<https://images.app.goo.gl/8ihnfoWt1RL7FjrW7>



Trends and mega trends

aging society	broken supply chains	civilization diseases
convergence of services	corporate responsibility	deglobalization
digital inequalities	digital transformation	economic crisis
epidemic of loneliness	hybrid and remote work	internet of senses
migration crisis	social distancing	climat change

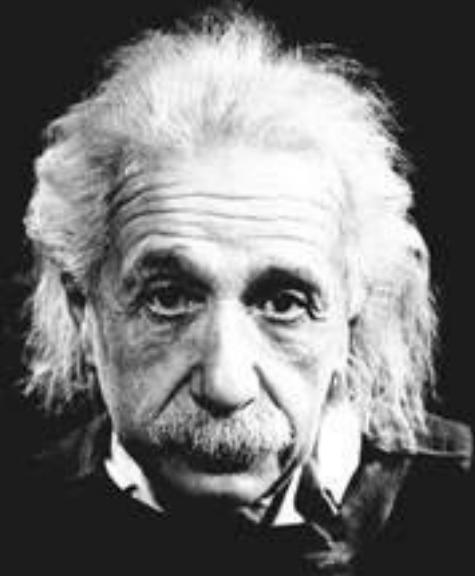




Measuring development is challenging. Stiglitz, Fitoussi and Durand point out that new measures are needed to help protect people from possible shocks, and restore a sense of security and trust in anti-crisis policies.

Beyond GDP. Measuring What Counts for Economic and Social Performance, OECD, Paris 2019

**"Not everything that
counts can be counted,
and not everything that
can be counted counts."**
-Albert Einstein





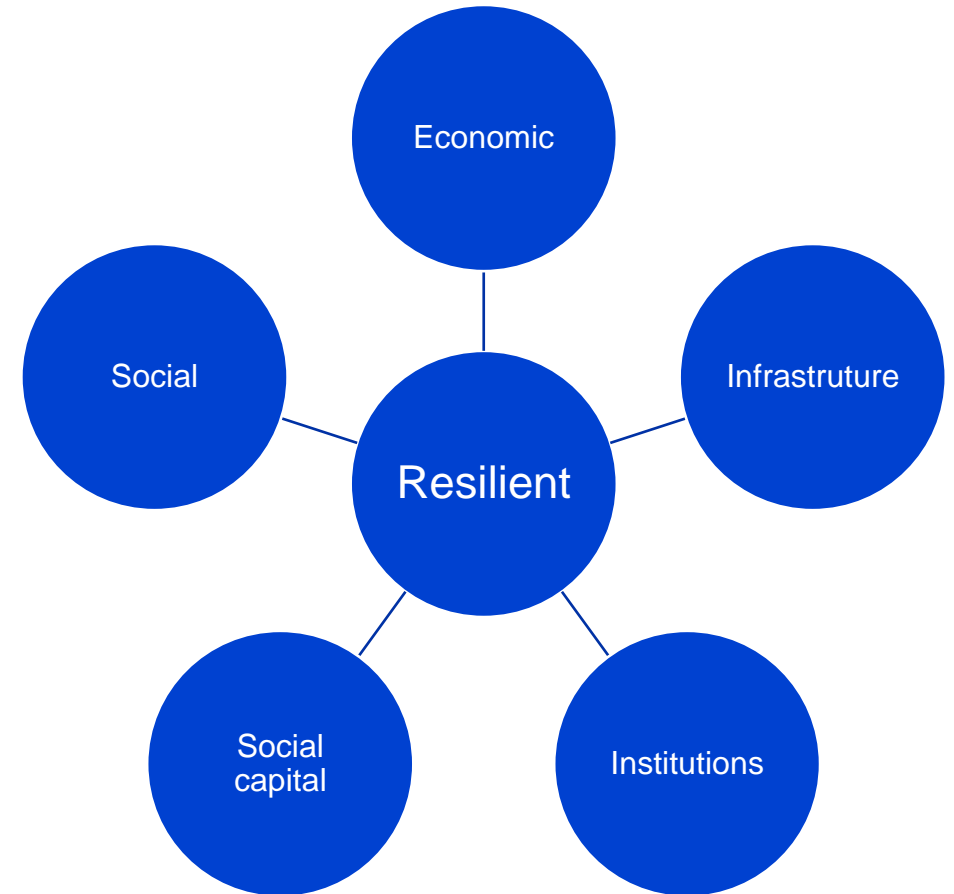
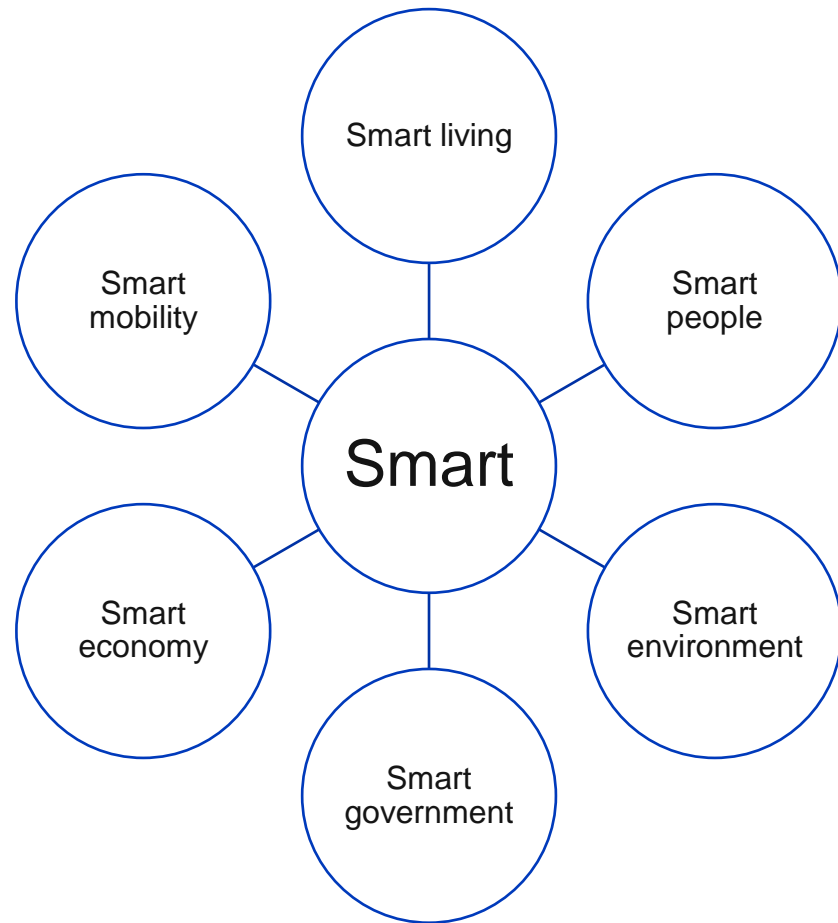
Is it sustainable development enough for our cities?



- What are the city labels present in the literature?
- What are the requirements and challenges of metrics development?
- What is “just city” and the related index for Polish cities?

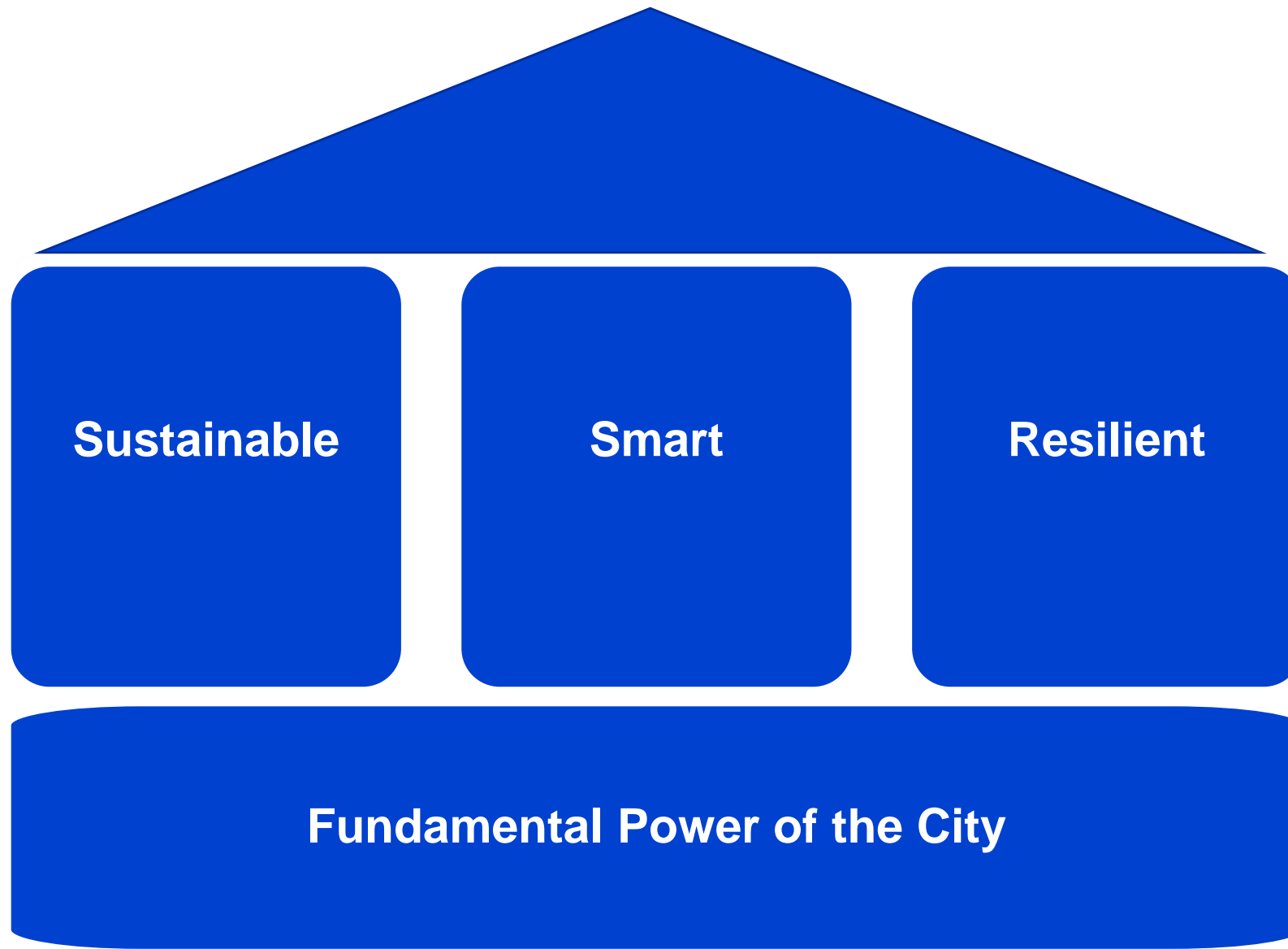


City labels



University of Gdańsk Giffinger, R. i Gudrun, H. (2010). *Smart Cities Ranking: An Effective Instrument for the Positioning of Cities? ACE Architecture: City and Environment*, 7-25.

Jha, A. K., Miner, T. W. i Santon-Geddes, Z. (2013). *Building Urban Resilience. Principles, Tools, and Practice*. Washington: International Bank for Reconstruction and Development, The World Bank.



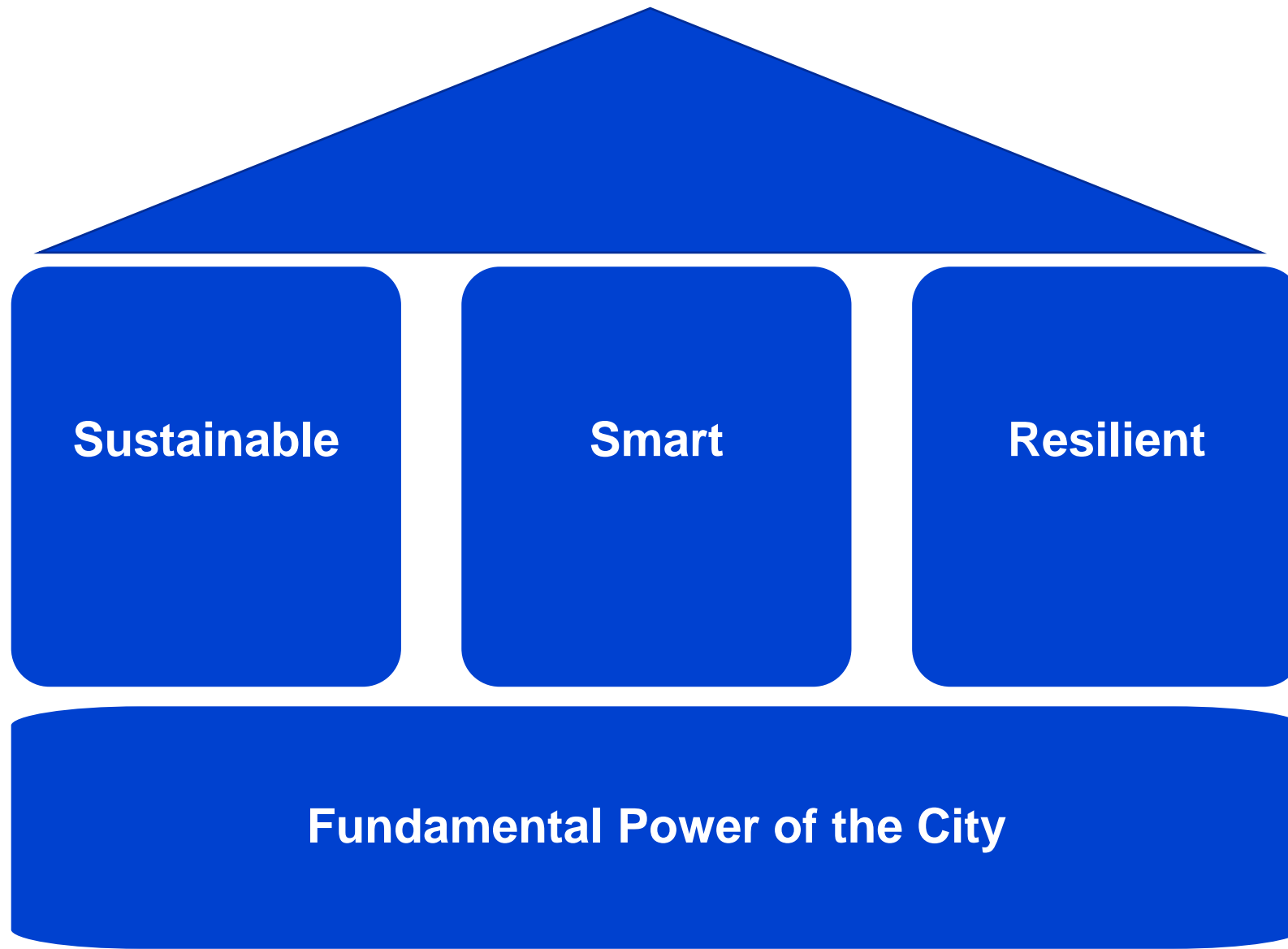


Re-thinking sustainable city

1. Managing based on single concepts is not effective.
2. Combined benefits in the environmental, social and economic spheres are the criterion determining action taking, strategic planning, conflict solving, and responsible investing.
3. Management requires the implementation of actions at the local level.



<https://www.undp.org/content/undp/en/home/sustainable-development-goals.html>





Sustainable city

Society (19 variables)

Economy (8 variables)

Environment (5 variables)

Smart city

Life (15 variables)

People (9 variables)

Governance (5 variables)

Economy (6 variables)

Mobility (7 variables)

Environment (6 variables)

Resilient city

Social capital (8 variables)

Infrastructure (5 variables)

Economy (3 variables)

Institutions (4 variables)

Just City

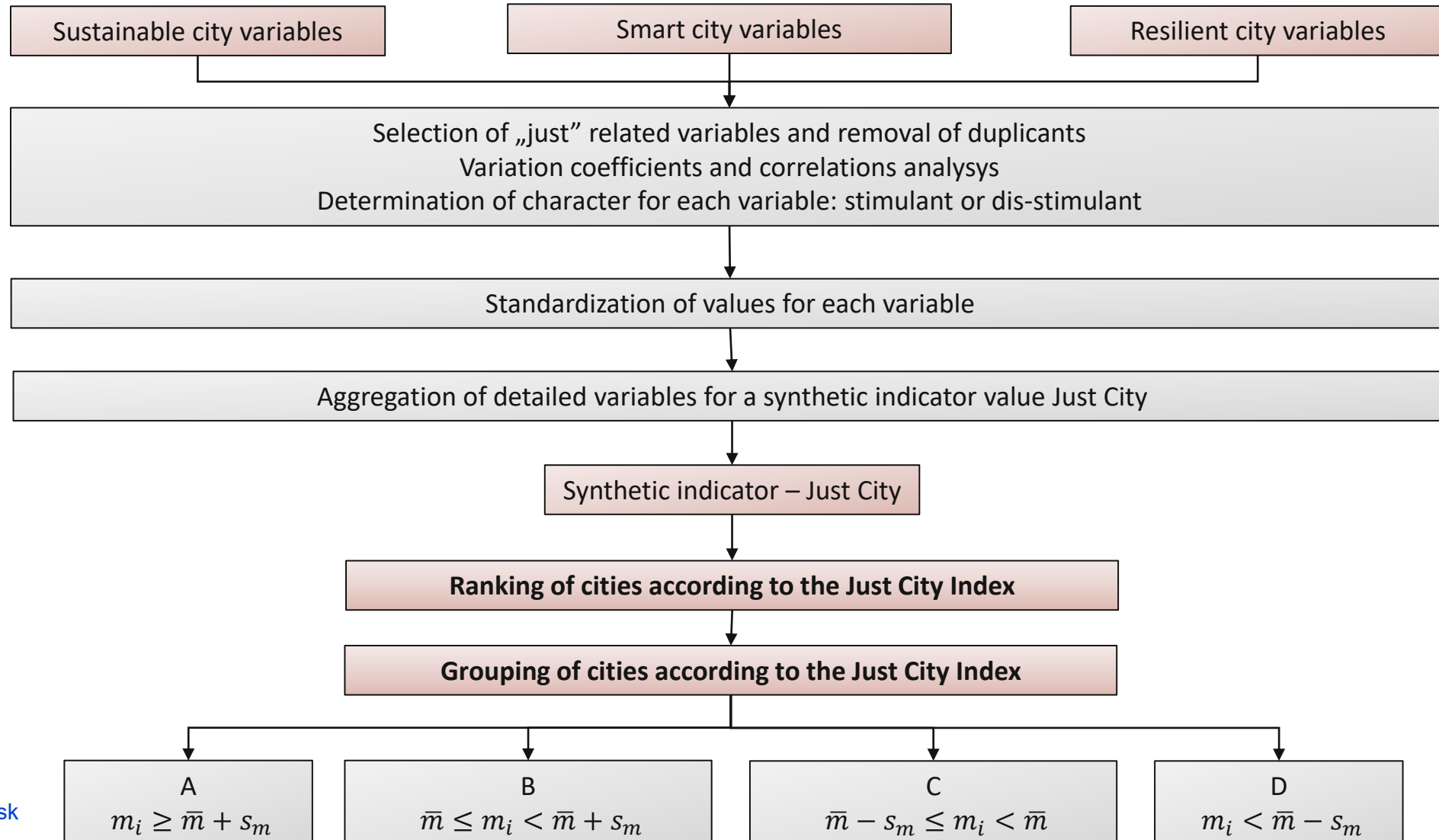
Productive City

Green City

Fundamental Power of City



Methodology





Results

- The set of variables for Just City consist of 49 variables of sustainable, smart and resilient city among which 7 were dis-stimulants.
- Warsaw, the capital of Poland, achieved the best results, however they were below 0,5 so not even the first raking city was not close to the pattern.
- Majority of analysed cities (34) after grouping remained stable in terms of their performance measured by the index of Just City and 7 of 18 regional capital cities did not manage to keep up with the results.
- Taking into consideration the final evaluation in the period under consideration, the evaluation of the cities within a single region varied, and majority of cities were granted different rankings which can be interpreted as quite high differentiation in regions.



Results

A	B+	B	C+	C	D+	D	Region
Wrocław			Jelenia Góra	Legnica		Wałbrzych	dolnośląskie
		Toruń		Bydgoszcz		Grudziądz	kujawsko-pomorskie
						Włocławek	
	Lublin		Biała Podlaska	Chełm			lubelskie
		Zamość	Gorzów Wielkopolski				lubuskie
			Zielona Góra				
		Łódź		Piotrków Trybunalski			łódzkie
Kraków		Nowy Sącz	Tarnów				małopolskie
Warsaw		Siedlce	Płock	Ostrołęka	Radom		mazowieckie
Opole							opolskie
Rzeszów	Krosno		Przemyśl	Tarnobrzeg			podkarpackie
		Białystok		Łomża			podlaskie
				Suwałki			
Sopot	Gdańsk	Gdynia	Słupsk				pomorskie
	Katowice	Bielsko-Biała	Gliwice	Chorzów	Dąbrowa Górnicza	Bytom	katowickie
				Tychy	Rybnik	Piekary Śląskie	
				Częstochowa	Jaworzno		
					Sosnowiec		
					Zabrze		
					Żory		
		Kielce					świętokrzyskie
	Olsztyn				Elbląg		warmińsko-mazurskie
Poznań		Leszno	Kalisz	Konin			wielkopolskie
			Szczecin				zachodnio-pomorskie
			Świnoujście				
7	5	10	12	12	8	5	59



Results

City	Variables with best result (pattern or close to pattern)
Wrocław	<ul style="list-style-type: none">• Fraction of population aged 20-44• Registered unemployed per population of working age (%)• Proportion of children under 17 years old for whom parents claim family allowance (%)• Families awarded aid per 1000 population
Kraków	<ul style="list-style-type: none">• Readers of public libraries per 1000 population• Net international migration per 10 000 population• Fraction of population aged 20-44• Crimes against public safety and safety in transport recorded by the Police per 1000 population
Warsaw	<ul style="list-style-type: none">• Population per km2• National economy entities with code M69 of NACE (Legal and accounting activities) per 10 000 population• National economy entities with foreign capital per 10 000 population• Attendance in latest election to voivodeship regional council (%)• Proportion of children under 17 years old for whom parents claim family allowance (%)• Visitors of museums and branches per 10 000 population• Net international migration per 10 000 population• Female councilors per councilor• Crimes against public safety and safety in transport recorded by the Police per 1000 population• Occupancy rate of bed places (%)

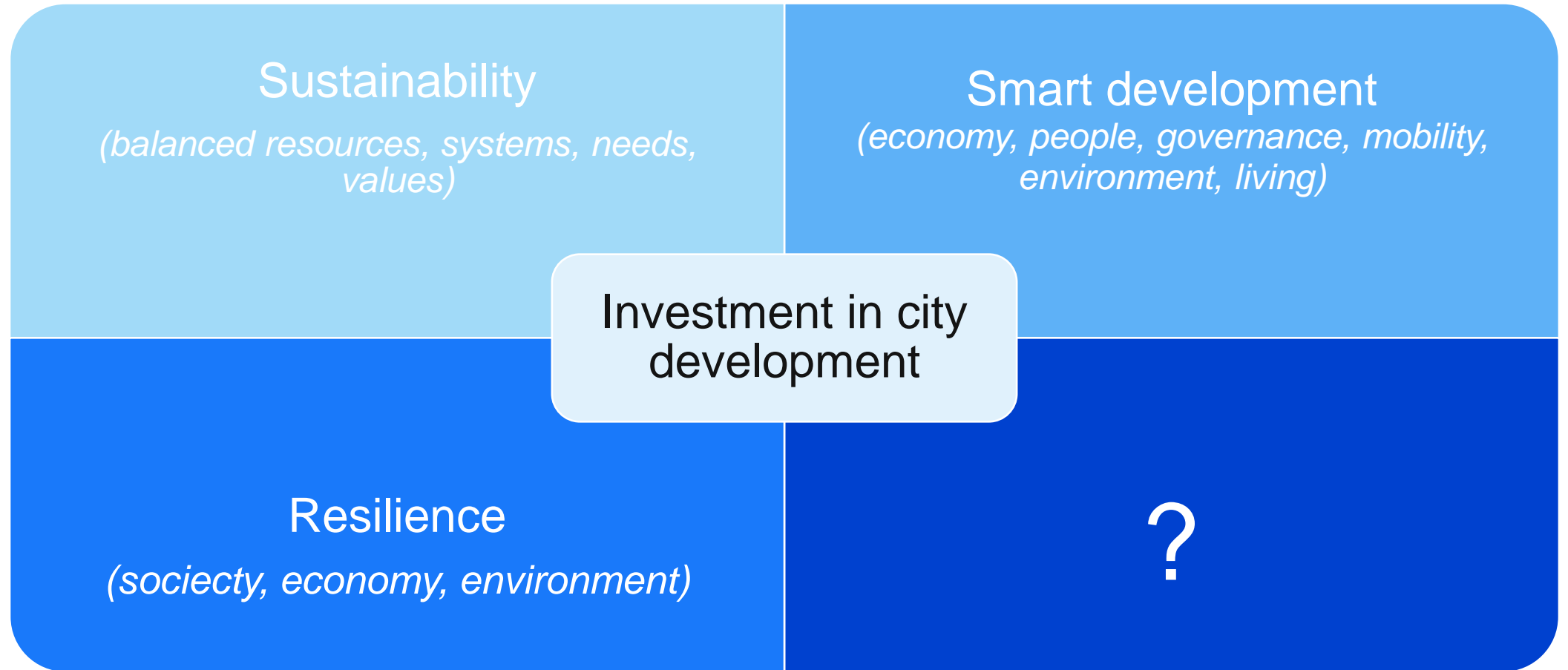


Results

City	Variables with worst result (furthest from pattern)
Wałbrzych	<ul style="list-style-type: none">• Current expenditure on protection of cultural heritage per population (PLN)• National economy entities with foreign capital per 10 000 population• Overnight stays per 1000 population
Grudziądz	<ul style="list-style-type: none">• Current expenditure on protection of cultural heritage per population (PLN)• National economy entities with foreign capital per 10 000 population• National economy entities with code R of NACE (Arts, entertainment and recreation) per 10 000 population• Overnight stays per 1000 population
Włocławek	<ul style="list-style-type: none">• Current expenditure on protection of cultural heritage per population (PLN)• National economy entities with foreign capital per 10 000 population• Overnight stays per 1000 population



What does the future hold?



Thank you for your attention!

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