

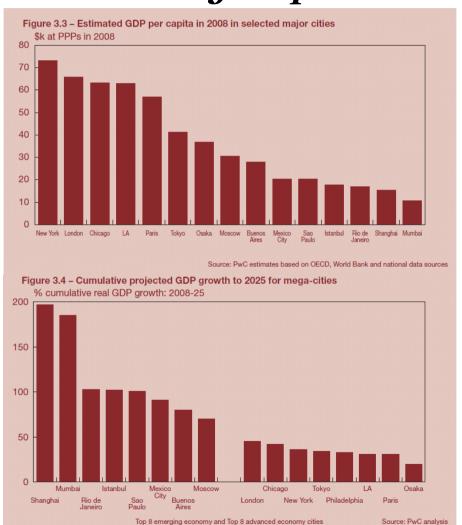
Intellectual Capital for Communities In the Knowledge Economy

Intellectual Capital for Communities in the Knowledge Economy Nations, Regions, Cities and Emerging Communities Cities of Opportunity Hazem Galal, PwC





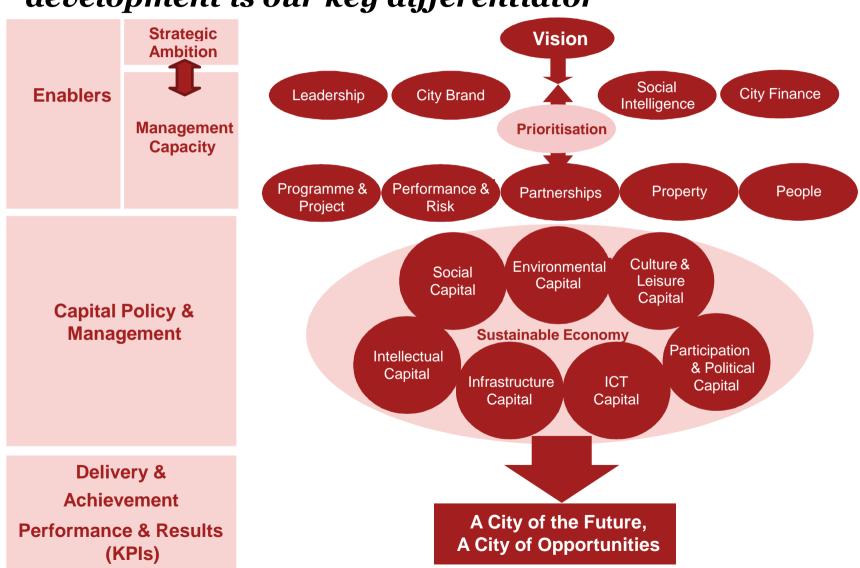
Growth in cities from emerging economies will substantially outpace developed ones



2025 GDP rank (2008 in brackets)	City	Estimated GDP in 2025 (\$bn at 2008 PPPs)	Population in 2025 (millions)	Average real GDP growth (% pa: 2008-2025
1 (1)	Tokyo	1981	36.40	1.7%
2 (2)	New York	1915	20.63	1.8%
3 (3)	Los Angeles	1036	13.67	1.6%
4 (5)	London	821	8.62	2.2%
5 (4)	Chicago	817	9.93	2.1%
6 (10)	Sao Paulo	782	21.43	4.2%
7 (8)	Mexico City	745	21.01	3.9%
8 (6)	Paris	741	10.04	1.6%
9 (25)	Shanghai 🛕	692	19.41	6.6%
10 (13)	Buenos Aires	651	13.77	3.5%
11 (29)	Mumbai (Bombay)	594	26.39	6.3%
12 (15)	Moscow	546	10.53	3.2%
13 (9)	Philadelphia	518	6.13	1.7%
14 (16)	Hong Kong	506	8.31	2.7%
15 (11)	Washington DC	504	4.89	1.8%
16 (7)	Osaka/Kobe	500	11.37	1.1%
17 (38)	Beijing 🛕	499	14.55	6.7%
18 (12)	Boston	488	5.03	1.8%
19 (37)	Delhi 🔺	482	22.50	6.4%
20 (14)	Dallas/Fort Worth	454	5.42	1.8%
21 (44)	Guangzhou 🛕	438	11.84	6.8%
22 (21)	Seoul	431	9.74	2.3%
23 (17)	Atlanta	412	5.15	1.8%
24 (30)	Rio de Janeiro	407	13.41	4.2%
25 (18)	San Francisco/Oakland	406	3.90	1.8%
26 (19)	Houston	400	5.05	1.8%
27 (20)	Miami	390	6.27	1.7%
28 (34)	Istanbul 🛕	367	12.10	4.2%
29 (22)	Toronto	352	5.95	2.0%
30 (42)	Cairo	330	15.56	5.0%

Source: PricewaterhouseCoopers projection

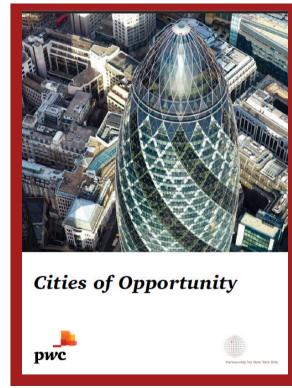
PwC's holistic approach to sustainable socioeconomic development is our key differentiator



Cities of Opportunity is a highly visible thought leadership initiative reflecting PwC's views on cities

Central thesis: "The more well-balanced a city is for both businesses and residents, the better it will fare"

- Reflects PwC's holistic approach to city management
- The report in its fourth edition is produced by PwC with support from the global network and the ISU and in cooperation with the Partnership for New York City.
- Takes both a quantitative and qualitative look at the emerging picture of city life in 21 capitals of business, finance and culture worldwide.
- To a great extent, the successes and shortcomings that surface in the study substantiate the central thesis of the research.
- Cities of Opportunity may prove most useful for government officials, policymakers and business persons as a good orientation point on the move toward a city-centered world.
- The study takes notice of the actions and policies that are working best for the common good, and its insights will prove valuable in that context.



Cities of Opportunity 2011 included 26 Cities across 20 countries



While New York led the overall ranking, Beta cities did extremely well

Indicator	Best performing cities		
Intellectual capital and innovation	Stockholm	Toronto	New York
Technology readiness	New York	Seoul	Stockholm
Transportation and infrastructure	Paris	Chicago	New York
Demographics and livability	Stockholm	Sydney	Toronto
Economic Clout	London	Paris	New York
Cost	Houston	Los Angeles	Chicago
Lifestyle Assets	New York	Paris	London
Health, safety and security	Stockholm	Toronto	Chicago
Ease of doing business	Hong Kong	Singapore	New York
Sustainability	Berlin	Sydney	Stockholm

In 2011, Stockholm finishes fourth out of 26 cities in the ranking this year, and top among European capitals

Stockholm tops the charts in many categories deemed critical to a world class city, including innovation and intellectual capital

- Stockholm moves up five places from last year, finishing just behind New York, San Francisco and Toronto and just above Sydney
- Offers a balanced and "livable" city attracting a highly qualified workforce; similar to other "beta cities" such as Toronto, San Francisco, Sydney and Chicago.
- Shows cities worldwide how empowering advances in intellectual capital can develop an environment where original ideas and action keep the city moving forward.
- Investments, R&D and support for entrepreneurs all contribute to the city's ability to generate and diffuse knowledge.
- Performs uniformly well in data variables such as housing, quality of life, life satisfaction, and commute time.

Intellectual capital and innovation



Demographics and livability



We used nine indicators for the innovation and intellectual capital component of the report



Each city's score (here 205 to 38) is the sum of its rankings across variables. The city order from 26 to 1 is based on these scores. See maps on pages 18–19 for an overall indicator comparison.

performance scores on the key variables in three Knowledge Gonomy pillars—advantion and human resources, the innovation system, and information and communication technology (DT). The variables that comprise education and human resources are adult literacy rate, secondary education errollment and tertiary education errollment.



Where average class size data were unavailable, pupil-teacher ratios, or the number of students divided by the number of teachers in primary education, were used as substitutes.

The World Bank's Knowledge Index (KI) measures a country's ability to generate, adopt and diffuse knowledge. This is an indication of owneral potential of knowledge development in a given country. The KI is derived by averaging a country's normalized

As a smaller city in terms of land and population, Stockholm blends into the middle of the list when assessing economic scale and power

- How can an innovative city like Stockholm maintain its future competitive advantage despite some worrying signals for future generations?
- What are opportunities for Stockholm to leverage its innovative strengths to increase economic competiveness?
- How can other cities in Sweden, Europe and globally leverage its experience?



We are developing jointly with the New Club of Paris a more in-depth innovation index for cities

Thank you hazem.galal@br.pwc.com

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