

Tokyo

City Blueprint



Quick Overview

Overall Score: 34.4 out of 100 – To compare, top-placed New York City had a score of 62.9

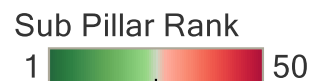
Overall Rank: 39th of 50 cities measured

On the dimensions measured, Tokyo does particularly well due to the size of its market, women’s capital base and attitudes and expectations for and by women entrepreneurs including high scores for:

- ✓ Gross Metro Product (GMP)
- ✓ City population
- ✓ Paid paternity leave
- ✓ Paid maternity leave
- ✓ Policy for "nondiscrimination based on gender in hiring"
- ✓ Presence of city and/or national level policy advocacy organization specifically for women’s equality issues

Subpillar Rankings

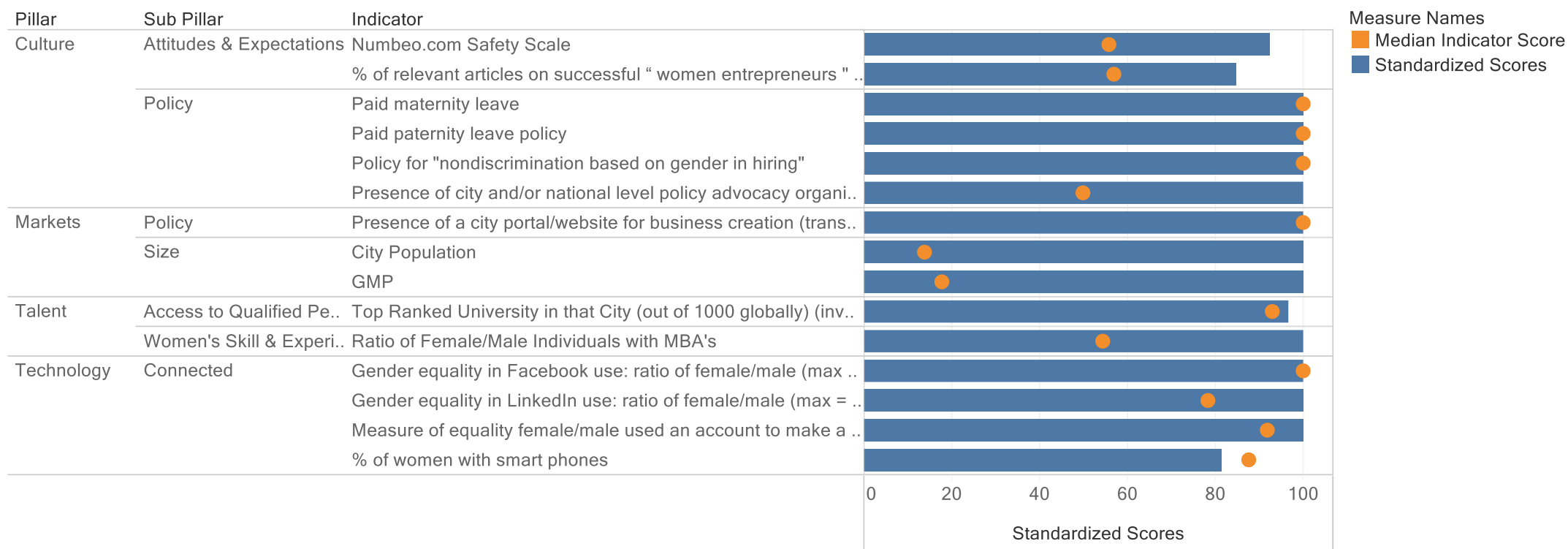
Pillar	Sub Pillar	Tokyo
Capital	Gender Proportion in Funding	45
	Value and Frequency of funding	13
	Women's Capital Base	6
Culture	Access to Mentors & Role Models	47
	Attitudes & Expectations	11
	Policy	29
Markets	Access	50
	Cost	46
	Policy	34
	Size	1
Talent	Access to Qualified Personnel	36
	Women's Skill & Experience	47
Technology	Connected	18
	Cost	47
	Policy	42



Areas of Strength

Of the 15 indicators where Tokyo scores its most points, it scores at or above the median on all but one of them. It scores high points in every category except capital and is well above the median on 6 indicators including the ratio of female/male individuals with MBA's.

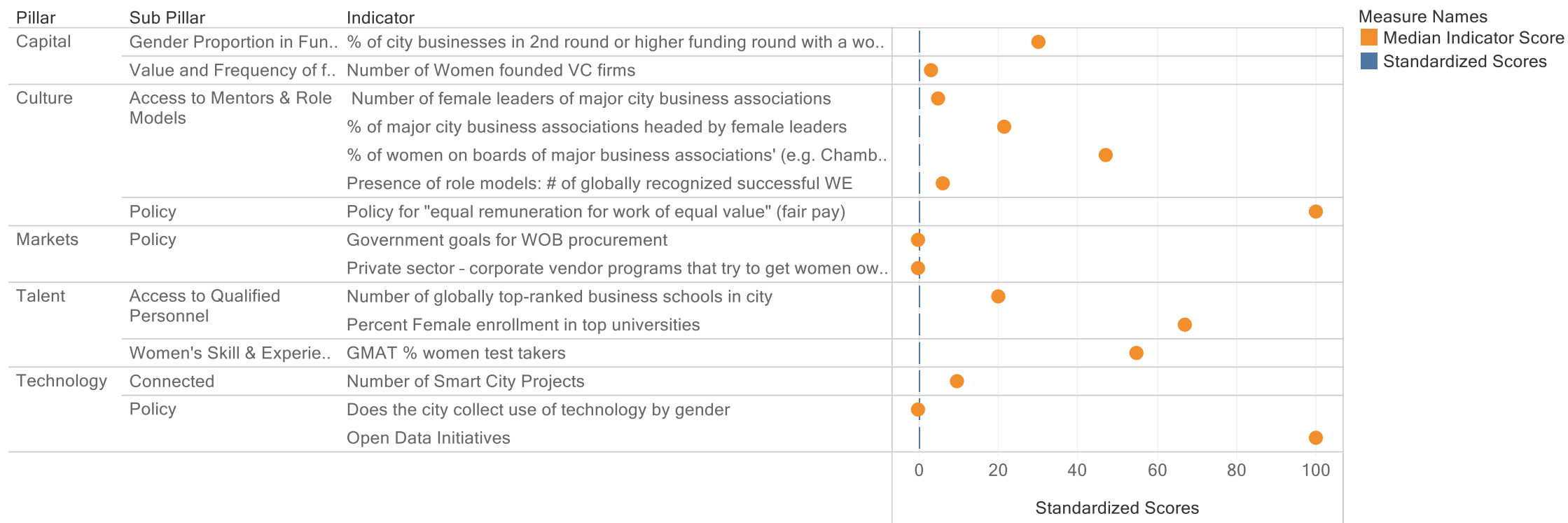
Top 15 Indicators



Other Areas to Improve

On the 15 indicators where Tokyo scored the lowest, it scored the very lowest (0 points); however note that of the 15 lowest, 3 are also the median score (many other cities also scored 0 points on these indicators) and 3 are near the median score. Where they are well below the median is a city wide open data initiative, policy of equal remuneration for equal work and the percent of female enrollment in top universities.

Lowest 15 Indicators



Tokyo ranked relatively lower in the area of talent despite some relatively high scores in education and skills. However, where they are particular far from the benchmark scores is on many areas of funding.

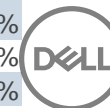
It is still a cultural norm for females to attend 'junior colleges' (*tanki daigaku*, 短期大学), which offer courses that are relatively vocational in content for one-to-three years, rather than four-year university courses. This is in part because of the expectation that women's careers are less important than men's, or will be shorter due to marriage and child-rearing.

Additionally there is relatively less investment in females' tertiary education (see note on *tanki daigaku*) and a gender bias against hiring women to middle-management or senior positions, both in academia and in the public and private sectors.

Similar to the private sector, in academia women are less likely to be successful in applying for tenured positions.

Business schools are relatively new in the Asia-Pacific region, compared to Western Europe or North America. This fact, combined with cultural norms, is a contributing factor to lower rates of female professors in business schools.

Indicator	% of max score
Government goals for WOB procurement	0%
Presence of role models: # of globally recognized successful WE	0%
Private sector – corporate vendor programs that try to get women owned businesses as vendors (Weconnect International)	0%
Number of female leaders of major city business associations	0%
Number of globally top-ranked business schools in city	0%
% of major city business associations headed by female leaders	0%
Policy for "equal remuneration for work of equal value" (fair pay)	0%
% of women on boards of major business associations' (e.g. Chamber or other influential business group)	0%
Number of Women founded VC firms	0%
Does the city collect use of technology by gender	0%
Open Data Initiatives	0%
Value of VC funds given to businesses with at least 25% female executives	0%
Number of female founders or executives in 2nd round or higher funding round in the city	1%
Ratio of positive to negative tweets about women	1%
Amount Raised on Crowdfunding Sites	1%
Total Projects on Crowdfunding Sites	2%
% of VC funds given to businesses with at least 25% female executives	2%
Entrepreneurial Network (population with entrepreneurial experience)	3%
Number of Smart City Projects	3%
Number of city level organizations specifically for WE or businesswomen	5%



Tokyo's culture around women and education not only inhibits the skills that women can accumulate to scale a business, but also impacts other important contributors to scaling, for example by resulting in a dearth of mentors and role models.

Fewer women in business schools contributes to the low ratio of Women/Men with executive Experience and the percent of Company Board members that are Female in the city.

There are also few city-level events for women entrepreneurs, and there are no women leading major business associations such as the Tokyo Chamber of Commerce and Industry or the Keidanren (Japanese Business Federation).

From 1 April 2016 a new law came into effect requiring companies with more than 301 employees to publish numbers of female colleagues and managers, and draw up action plans to hire and promote more women. However, there is no penalty for firms that fail to meet their self-set targets.

Recent Positive Developments:

- In September 2017 the Tokyo Metropolitan Government launched a start-up accelerator aimed at supporting female entrepreneurship through mentorship and training. The programme is called [APT Women](#) (東京都女性ベンチャー成長促進事業).

Tokyo's relatively low number of female role models in the business world is also mirrored in the political world. A relatively lower number of women in politics is likely to translate into fewer policies that helpful for women.

There is a relative dearth of women in political office, both because they do not run as often and because they are not elected as often as men.

The central government has pledged substantial funding aimed at supporting female entrepreneurship in developing countries (e.g. through World Bank programs), but the same cannot be said for domestic Women Owned Businesses.

The policy for parental leave in Japan is relatively progressive, even among OECD countries: it permits up to 12 months of paid leave for both parents. In practice, however, only up to 3% of fathers take this leave.

Recent Positive Developments:

- In the July 2017 election for Tokyo's metropolitan assembly, a record-breaking 36 women were elected (out of a total possible 127 seats).
- The current Governor of Tokyo, Yuriko KOIKE, is female. Koike is one of a few prominent female Japanese politicians in recent decades; she is a former Minister of Defence and was a member of the House of Representatives of the Diet from 1993 to 2016.

Blueprint for Action

Although Tokyo ranks highest for the size of its market, it does not effectively capitalize on its market size by providing adequate access for women entrepreneurs where it ranks last.

- **MARKETS:** Develop policies that help level the playing field for women owned businesses to win government contracts.
- **MARKETS:** Work with women owned businesses to become certified suppliers.
- **CULTURE:** Work with media outlets to highlight women entrepreneurs in the media.
- **CULTURE:** Work with the business associations to encourage more women representation in the boardroom and in leadership positions at business associations.
- **CULTURE:** Work with local women entrepreneurship groups to host networking and training events for women entrepreneurs in Tokyo.
- **TALENT:** Work with policy makers on promoting and investing in education for women.

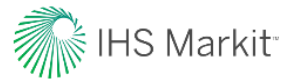
Additional info – Lowest Indicators relative to benchmark



Indicator	Max Score (raw)	Benchmark City	Number of cities w/ max score	Tokyo
Per capita number of open development users	0.007387	San Francisco	1	7%
Number of VC firms with greater than 20% female partners	103		2	8%
Accelerators (with WOB)	62		2	8%
Inverse of Average Cost 1 min. of prepaid mobile tariff (no discounts or plans) USD	33.33333		2	9%
% Company Boardmembers that are Female (country level or avg from sample of city's top employers)	33.9	Stockholm	1	10%
Forecasted economic growth rate of city/region or country over next 5 years	0.087868		2	11%
% of city businesses in 2nd round or higher funding round with a woman founder or executive	0.347826	Nairobi	1	12%
% of Labor Force in Professional Services (finance, marketing, accounting, law) within city	0.127143	London	1	17%
Percent Female enrollment in top universities	69	Stockholm	1	19%
Female Faculty in top business schools (%)	42.5	Istanbul	1	19%
Number of accredited business schools in city	15	San Francisco	1	20%
Business management or finance training courses or programs for WE or women executives	5		7	20%
Number of weeks of paid maternity leave (full pay or partial pay)	69	Stockholm	1	20%
Most female entrepreneurs as % of startups in city	36	Lima	1	22%
% of Labor Force who are IT professionals	0.017838	Munich	1	24%
Access to open and flexible technology	11	Singapore	1	27%
GMAT % women test takers	1		5	28%
Inverse of Average Monthly Cost of Internet (8MB speed) USD	0.090909	Warsaw	1	29%



Additional info – Highest Indicators relative to benchmark



<u>Indicator</u>	<u>Max Score (raw)</u>	<u>Benchmark City</u>	<u>Number of cities w/ max score</u>	<u>Tokyo</u>
Numbeo.com Safety Scale	83.29	Seoul	1	94%
Top Ranked University in that City (out of 1000 globally) (inverted)	992	New York	1	96%
GMP	1640014	Tokyo	1	100%
Presence of a city portal/website for business creation (transparent process, centralized information,etc.)	1		30	100%
City Population	38140000	Tokyo	1	100%
Gender equality in LinkedIn use: ratio of female/male (max = 1.0)	1		5	100%
Ratio of Female/Male Individuals with MBA's	0.75		4	100%
Policy for "nondiscrimination based on gender in hiring"	1		40	100%
Presence of city and/or national level policy advocacy organization specifically for women's equality issues	3		17	100%
Measure of equality female/male used an account to make a transaction through a mobile phone	1		8	100%
Gender equality in Facebook use: ratio of female/male (max = 1.0)	1		30	100%
Paid maternity leave	1		38	100%
Paid paternity leave policy	1		29	100%



Indicators, Descriptions and Sources

<u>Pillar</u>	<u>Indicator</u>	<u>Description</u>	<u>Source</u>
MARKETS	City Population	This indicator gives a general size of the market	Brookings.edu; IHS Sources; Eurostat; UN
MARKETS	GMP	This indicator gives a general size of the market and opportunity	Brookings.edu; IHS Sources
MARKETS	Forecasted economic growth rate of city/region or country over next 5 years	This indicator gives a general size of the market and opportunity	Brookings.edu; IHS Sources
MARKETS	Corporate Income Tax Rate	This indicator is inverted such that lower income tax rates are more beneficial for attracting and supporting entrepreneurship	PWC 2017
MARKETS	Cost of Living	This indicator is inverted such that lower cost of living; a cheaper cost of living allows women to put more capital towards scaling their business vs. overhead costs	2017 https://www.expatistan.com/cost-of-living
MARKETS	% Company Boardmembers that are Female	The more women on boards of companies signals willingness of companies to engage diversity (country level or avg from sample of city's top employers)	MSCI, WoB2020, IHS local sources
MARKETS	Accelerators (with WOB)	Accelerators provide a powerful way for entrepreneurs to scale their business through networking, training and access to capital	http://www.seed-db.com/accelerators/all ; https://www.f6s.com ; www.gan.co
MARKETS	Presence of a city portal/website for business creation (transparent process, centralized information,etc.)	A hurdle for starting and growing a business is often just knowing how to obtain the right permits and registration as well as knowing what resources the city provides. Many cities are providing portals as one stop shops for business owners to find all the relevant information they need.	google search and search of city government websites
MARKETS	Private sector – corporate vendor programs that try to get women owned businesses as vendors (Weconnect International)	Many entrepreneurs reach scale by becoming a supplier for a larger company. A hindrance is that women owned businesses are often discriminated against (intentionally or unintentionally) when it comes to winning lucrative contracts. Large companies in a city that are committed to diverse supply chains can help women entrepreneurs reach scale.	2017 Corporate Member list HQ and Staff Locations
MARKETS	Government goals for WOB procurement	Similar to private sector companies, many city governments are passing ordinances to ensure they have a diverse supply chain and give women owned businesses the opportunity to secure contracts.	google search and search of city government websites
MARKETS	Most female entrepreneurs as % of startups in city	Research and our interviews with women entrepreneurs shows that having more women entrepreneurs in the city can help foster female entrepreneurship.	Crunchbase 2017
MARKETS	Ease of starting a business	Lower barriers to starting a business is a first step to scaling.	2016 PWC

<u>Pillar</u>	<u>Indicator</u>	<u>Description</u>	<u>Source</u>
TALENT	Labor force participation rate (women age 15+)	Women's ability to participate in the labor force is often a first step to gaining the experience required to run a business.	IHS, Inc. Country statistical agency
TALENT	Business management or finance training courses or programs for WE or women executives	Women's ability to scale often requires skills in finance and business management.	2017, Goldman Sachs 10000 Women partner locations, PWN locations, US SBA Womens Center locations, google search (max =5)
TALENT	Ratio of Women/Men with executive Experience	This indicator shows whether women are proportionately gaining executive experience that could be transferred to scaling a business.	2017 LinkedIn
TALENT	% of population with tertiary education or above	An educated workforce is often a pre-requisite to getting the talent a women owned business needs in order to scale.	IHS, Country statistics
TALENT	% of female population with tertiary education or above	This is an indication of both womens own education and educational equality that signals whether women are getting educational opportunities that could help them scale a business.	IHS
TALENT	% of Labor Force in Professional Services (finance, marketing, accounting, law) within city	This is an indication of whether necessary talent is available for women that want to scale their business.	2017 LinkedIn
TALENT	% of Labor Force who are IT professionals	In today's internet and enterprise software driven environment, businesses that want to scale need a sophisticated IT staff.	2017 LinkedIn
TALENT	Number of accredited business schools in city	Many new businesses are birthed in business schools where writing business plans and running a business is part of the curriculum.	FindMBA.com, IHS
TALENT	Number of globally top-ranked business schools in city	Topped ranked business schools tend to attract people with talent and vision that can be catalysts for scaling a business.	2017, Financial Times Global MBA Ranking
TALENT	Average % enrollment in top universities that city who are female	This is an indication of the equality of opportunity for women in higher education. It is a proxy for the attractiveness of the city for women in general and women entrepreneurs in particular.	2017 Time Higher Education Global Ranking
TALENT	Ratio of Female/Male Individuals with MBA's	This is both an indication of equality and a proxy for the potential for women entrepreneurs in the city, since MBA programs can be a place where business ideas are hatched.	2017 LinkedIn
TALENT	Female Faculty in top business schools (%)	Studies have shown that one reason women drop out of business school programs is due to a lack of female faculty role models.	2017 FT and individual searches at top business school in city
TALENT	Number of top ranked global universities in city	Top ranked universities attract talent to the city.	2017, US News & World Report, Best Global Universities, 2017 Rankings
TALENT	Top Ranked University in that City (inverted)	Top ranked universities attract talent to the city.	2017, US News & World Report, Best Global Universities, 2017 Rankings



Pillar	Indicator	Description	Source
CAPITAL	Value of VC funds given to businesses with at least 25% female executives	Indicates relatively how well women owned businesses are attracting funding from VCs (a powerful source of capital for scaling and where women have historically not done comparatively well).	2017 crunchbase
CAPITAL	Number of female founders or executives in 2nd round or higher funding round in the city	Indicates relatively how many women in the city are trying to scale and their success at getting to higher rounds of funding.	2017 crunchbase
CAPITAL	Most active Corporate VC Firms (top 25)	Corporate VC is another source of capital and their prevalence in a city indicates an additional access point for capital.	2017 cbinsights
CAPITAL	Number of potential investors (population of HNWI)	Women often rely on friends and family for funding. This indicates the prevalence of qualified investors in the city that could be potential investors for women entrepreneurs.	2016 Frank Knight Wealth Report; Phoenix Marketing International 2016; IHSM calculations
CAPITAL	% of total investment companies with at least 1 female executive	Research shows that investment companies or VCs with women executives or partners tend to invest more in women entrepreneurs.	2017 crunchbase
CAPITAL	% of city businesses in 2nd round or higher funding round with a woman founder or executive	This indicates whether women are proportionately getting to higher rounds of funding (scaling).	2017 crunchbase
CAPITAL	Number of weeks of paid maternity leave (full pay or partial pay)	Taking time off to start and grow a family causes women to lose income that provides a base to build wealth. To the extent that this income is not disrupted women are better able to accumulate wealth to invest in their own business or in others.	google search of individual city policies on maternity leave
CAPITAL	% of VC funds given to businesses with at least 25% female executives	This indicates whether women are getting proportional access to funding.	2017 crunchbase
CAPITAL	Amount Raised on Crowdfunding Sites	Crowdfunding may help level the playing field for women entrepreneurs when it comes to attracting capital. The relative amounts funded in the city is a proxy for greater access to capital for WE.	2017 kickstarter.com and city specific equivalents
CAPITAL	Measure of Equality: Women/Men who saved to start, operate or expand a farm or business	Many women use personal savings to start a business. However saving may be more difficult for women if, for example, their income is interrupted. This is an indication of equality both of the ability to save and aspiration for starting a business.	World Bank 2014
	Total Projects on Crowdfunding Sites	Crowdfunding may help level the playing field for women entrepreneurs when it comes to attracting capital. To the extent sites are active in the city is a proxy for greater access to capital for WE.	2017 kickstarter.com and city specific equivalents
CAPITAL	VC's with 25% partners who are female?	Research shows that investment companies or VCs with women executives or partners tend to invest more in women entrepreneurs.	2017 Crunchbase



Pillar	Indicator	Description	Source
CULTURE	Presence of role models: # of globally recognized successful WE	Women often don't dream big because they don't see other women scaling businesses. This indicates how many local role models women in the city have when it comes to being a successful WE.	IHS, 2017 [a combination of Forbes 2000 CEOs, Fortune 500 CEOs, and Forbes 100 most powerful women]
CULTURE	Female Mayors in last 3 terms	Females in political leadership can be both role models and also help influence legislation that provides a level playing field for women.	IHS, 2017 (google search)
CULTURE	Number of national level advocacy or supplier dev't groups specifically for WE or businesswomen	Organizations that advocate for WE and/or help WE secure contracts with governments and larger companies helps WE scale and helps to change the perception about WE. Cities do not operate in a vacuum and often national level policies and culture can permeate to cities.	IHS, 2017 (WEConnect International locations, BPW-International locations, WBE and WBNEC (regional locations), Women Entrepreneurship Platform locations, WBII members, as well as country specific searches)
CULTURE	Number of city level organizations specifically for WE or businesswomen	City level organizations can provide valuable networking, education and advocacy that can help WE scale.	IHS, 2017 - meetup.com
CULTURE	Number of city level organizations specifically for entrepreneurs		IHS, 2017
CULTURE	% of women on boards of major business associations' (e.g. Chamber or other influential business group)	Having women on boards of business associations helps women better network with other businesses and helps foster a more diverse business environment in the city.	IHS, 2017 google search
CULTURE	Number of female leaders of major city business associations	Having female leaders of business associations helps women better network with other businesses and helps foster a more diverse business environment in the city.	IHS, 2017 google search
CULTURE	% of major city business associations headed by female leaders	While absolute numbers are important, representation is also key. This shows whether women are proportionately represented in leadership in the business community of the city.	IHS, 2017 google search
CULTURE	Frequency of City events for WE or businesswomen	City level events for WE or businesswomen help women network and gain critical skills.	IHS, 2017; Meetup.com
CULTURE	Ratio of positive to negative Tweets about women	This is a measure of the overall attitude of the city towards women. Often negative messages can have a bigger influence on women's aspirations and self perceptions than positive messages. This indicator measures the ratio of positive to negative messages towards women.	Twitter/ Janys, 2017 (number per capita)
CULTURE	% of relevant articles on successful " women entrepreneurs " in Media for that city	Hearing about role models in the media is another way that helps women dream big.	2012-2017 (5 years) Factiva
CULTURE	Numbeo.com Crime Level (inverted)	Crime and Safety are key concerns for any business, but women in particular tend to evaluate their safety more when deciding whether to scale a business.	Numbeo.com 2017
CULTURE	Numbeo.com Safety Scale	Crime and Safety are key concerns for any business, but women in particular tend to evaluate their safety more when deciding whether to scale a business.	Numbeo.com 2017
CULTURE	Numbeo.com Worry about being attacked (inverted)	Crime and Safety are key concerns for any business, but women in particular tend to evaluate their safety more when deciding whether to scale a business.	Numbeo.com 2017
CULTURE	Collection of city level data on income or employment by gender	This provides an indication of whether the city is concerned about gender equality - particular on economic issues which are critical for WE. What gets measured gets managed - so we include this indicator as a measure of a culture that values gender equality.	IHS, 2017 google search and government website search
CULTURE	Presence of city and/or national level policy advocacy organization specifically for women's equality issues	Organizations committed to women's equality and rights have helped to change the culture and provided women with more freedom - a prerequisite for scaling a business.	World Bank, IHS
CULTURE	Policy for "equal remuneration for work of equal value" (fair pay)	This is another indication of a culture that values gender equality. It is also critical that women earn their economic worth so they can build their savings and wealth.	World Bank, IHS
CULTURE	Policy for "nondiscrimination based on gender in hiring"	This is another indication of a culture that values gender equality. It is also critical that women have equal opportunity in the workplace so they can gain critical skills and experience needed to scale a business.	World Bank, IHS
CULTURE	Paid Maternity leave policy	This is a binary (y/n) indicator that proxies for a culture that is trying to level the playing field for women.	World Bank, IHS
CULTURE	Paid paternity leave policy	This is a binary (y/n) indicator that proxies for a culture that is trying to level the playing field for women.	IHS
CULTURE	Entrepreneurial Network (population with entrepreneurial experience)	Our research found that having other entrepreneurs nearby was valuable for networking and providing help and advice.	2017 LinkedIn
CULTURE	% of women in parliament	Women in leadership are both role models and can put forth legislation that helps level the playing field for women.	Search of websites



<u>Pillar</u>	<u>Indicator</u>	<u>Description</u>	<u>Source</u>
TECHNOLOGY	% of women who use the internet	Access to the internet is becoming a necessity for fully engaging with the global economy. This indicator measures the extent that women have access.	2017 consumerbarometer.com (country level); US cities (2015 Pew Research Survey state level)
TECHNOLOGY	% of women with smart phones	Smart phones are also becoming a necessity as both a communication source, information source and increasingly a source of engaging in commerce. This indicator measures the extent to which women are using smartphones.	2017 consumerbarometer.com (country level); US cities (2015 Pew Research Survey state level)
	Measure of equality female/male used an account to make a transaction through a mobile phone	This provides an indication of whether women are using technology to engage in economic transactions. This is both a measure of equality and a measure of women's willingness to use technology for economic purposes.	Country level WB 2014
TECHNOLOGY	Gender equality in LinkedIn use: ratio of female/male (max = 1.0)	This is an indication of whether women are equally engaging in professional social media.	2017 LinkedIn profile search
TECHNOLOGY	Inverse of Average Monthly Cost of Internet (8MB speed) USD	Cost can be a hindrance to access as well as a hindrance to scaling a business, this measures the relative cost of basic technology.	2017 https://www.expatistan.com/cost-of-living
TECHNOLOGY	Inverse of Average Cost 1 min. of prepaid mobile tariff (no discounts or plans) USD	Cost can be a hindrance to access as well as a hindrance to scaling a business, this measures the relative cost of basic technology.	2017 https://www.expatistan.com/cost-of-living
TECHNOLOGY	Open Data Initiatives	Open data is way for cities to share the data collected and generated by people in the city. This data can be used by entrepreneurs to help find solutions to common constraints in the city. It also signals a transparency on the part of city government - this transparency can help ensure that there is a level playing field.	2017 Google Search
TECHNOLOGY	Access to open and flexible technology	Many businesses that want to scale rely on open technology and flexible standards that allow them to more quickly scale their operations at a lower cost.	2017 HQ cities of member companies http://www.opencompute.org/about/membership-organizational-directory/
TECHNOLOGY	Technology training organizations for women	Technology can be intimidating for anyone. Women who want to scale their business need to have basic skills in utilizing technology. Classes specifically for women are also less intimidating/more inviting for women.	2017 Women Who Code, Girls in Tech, other
TECHNOLOGY	Does the city collect use of technology by gender	Technology is increasingly critical for any business to scale. Cities that collect gender level data on technology use and access can better monitor and manage how well their city is doing in leveling the playing field for women.	2017 google search
TECHNOLOGY	Number of Smart City Projects	Smart city projects help to optimize city functions making it more friendly for business and well as signaling the potential for more innovation (attracting entrepreneurs).	IHSM Smart Cities IoT Intelligence Service (2017)
TECHNOLOGY	Gender equality in Facebook use: ratio of female/male (max = 1.0)	This provides and indication of how equally women are engaging with social media, which is increasingly becoming a place to exchange ideas and information.	2017 Facebook search
TECHNOLOGY	Per capita number of open development users	Open development platforms provide a place for developers and users of software applications to meet. These development platforms have allowed entrepreneurs to scale their businesses more quickly and/or at lower cost.	www.github.com

