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Preface

The Covid-19 pandemic was the first time since the Spanish flu 100 years ago that an infectious disease had a global impact on the urban activities and lifestyles established during the 20th century. In 2022, more than two years after the World Health Organization (WHO) first classified the disease, the number of new Covid cases worldwide is beginning to decline. It is not yet clear what the final outcome will be; will cities return to their previous activities as they transition to the post-corona reality, or will there be changes based on lessons learned from the pandemic?

We launched 'Japan Power Cities - Profiling Urban Attractiveness (JPC)' in 2018 with the belief that we must increase the strength of Japanese cities to improve the country as a whole. This year marks its fifth year. In JPC-2022, we explore how COVID-19 has impacted the way urban dwellers live and work during the last two years. It is not difficult to predict that the pandemic will question the way urban management and infrastructure developments are carried out, and that there will be measures taken in the short- to medium-term to address this. However, the indicators that have directly changed over the past year are those related to mobility. The decrease in the number of domestic visitors and the hiatus of inbound visitors from abroad has caused a drop in the number of events, the number of accommodation facility guest rooms, the weekend visitor population, and the number of international conferences and exhibitions held. Though these indicators account for less than 10% of the 86 indicators, the decline in scores is more pronounced for cities for which these aspects are a strength.

The JPC reveals the annual changes of different characteristics of Japan's major cities within the context of their overall power. This year, in addition to using quantitative analysis methods to evaluate strength, we conducted supplementary research using qualitative analysis to investigate the perception that residents have of their city. Using a questionnaire survey of residents, we analyzed city image from multiple perspectives. The JPC aims to showcase each city's attractiveness and help cities formulate policies to draw people to the city. We hope the results of the city perception survey will add further depth to the JPC and contribute to future city branding strategies.

Japan Power Cities, Steering Committee, Chairman Hiroo Ichikawa July, 2022



About Japan Power Cities 2022

Background and Objective

While the world's population is predicted to continue growing in the years ahead, the population of Japan is expected to shrink rapidly as a result of a declining birth rate and an aging society. To tackle these problems, cities across Japan must harness their respective characteristics and push ahead with urban development to maintain their dynamism, while maintaining the 'magnetism' required to attract people and companies and the potential for growth that demonstrates their urban appeal and strengths.

For this to be achieved, cities need to gain an objective understanding of their own strengths and then formulate and execute an urban strategy plan for the next generation. As part of 'Japan Power Cities–Profiling Urban Attractiveness', a study was carried out on the major cities of Japan to be able to conduct comparative and multi-faced analyses of city strengths based on quantitative and qualitative data and to shed light on city characteristics such as strengths and attractiveness.

Research Organization

Steering Committee

Creating the assessment system, as well as performing evaluation & analysis

[Chairman]



Hiroo Ichikawa Professor Emeritus, Meiji University

[Members]
Institute for Urban Strategies,
Mori Memorial Foundation

Expert Committee

Providing a technical point-of-view as well as advice to the Steering Committee

[Committee Members]



advice

Yasushi Asami Professor, University of Tokyo, Graduate School of Engineering



Kazuhiro Ichikawa Academic advisor and Professor, Japan Lutheran College



Takayuki Kishii Visiting Professor, National Graduate Institute for Policy Studies



Norihiro Nakai Director and Professor, Tokyo Institute of Technology, School of Environment and Society



Masayuki Nakagawa Professor, Nihon University, College of Economics



Keisuke Hanaki Professor, Toyo University, Department of Information Networking for Innovation and Design; Professor Emeritus, University of Tokyo



Shunya Yoshimi Professor, University of Tokyo, Graduate School of Interfaculty Initiative in Information Studies

Evaluation Method

Creating Framework



Setting functions

6 functions are established to evaluate cities from a multilateral perspective.



Setting indicator groups

26 indicator groups are established.



Setting indicators

86 indicators making up the indicator groups are established.

Data Collection



Data collection

Both qualitative and quantitative data related to the 86 indicators are collected.

Indexation



Score calculation

Indicator data are indexed, and scores are calculated.

86 Indicators

Following the collection of data pertaining to the indicators, the maximum and minimum indexed scores of 100 and 0 are set.

Score Calculation Method

26 Indicator Groups After compiling data for the 86 indicators, an average value is calculated for each of the 26 indicator groups.

6 Functions

The averaged values from the indicator groups are totaled together and used to formulate the function-specific scores.

Total

Scores from the 6 functions are added together to form the overall score.

138 Target Cities Function-specific scores /Total scores

Tokyo 23-wards Function-specific scores /Total scores

Evaluation and Analysis

Evaluation



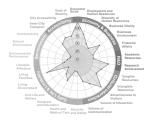
Function-specific radar chart



In order to allow evaluations of a city from a multifaceted perspective, radar charts were created using the deviation value of

the score and rank.

2 Indicator group radar chart



Radar charts are used to clearly indicate the indicator groups in which each city possesses strengths.

Target Cities

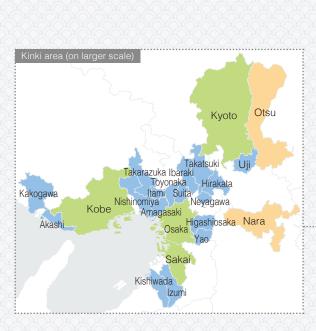
138 Japanese cities and the 23 wards of Tokyo were included as target cities in this study. For the 138 cities, the selection criteria were set as follows and the cities were selected:

- 1. Ordinance-designated cities.
- 2. Location of prefectural offices (excluding ordinance-designated cities.)
- 3. Cities with a population of 170,000 or more.

Ordinance-designated cities.		Location of prefectural offices (excluding ordinance-designated cities.)	Cities with a population of 170,000 or more.
Hokkaido	Sapporo		Hakodate·Asahikawa·Kushiro·Tomakomai
Tohoku	Sendai	Aomori·Morioka·Akita·Yamagata·Fukushima	Hirosaki·Hachinohe·Koriyama·Iwaki
Kanto	Saitama·Chiba· Yokohama·Kawasaki· Sagamihara	Mito∙Utsunomiya∙Maebashi∙ Kofu∙Nagano	Hitachi·Tsukuba·Takasaki·Isesaki·Ota·Kawagoe·Kumagaya·Kawaguchi· Tokorozawa·Kasukabe·Ageo·Soka·Koshigaya·Ichikawa·Funabashi·Matsudo Sakura·Kashiwa·Ichihara·Nagareyama·Yachiyo·Hachioji·Tachikawa·Mitaka· Fuchu·Chofu·Machida·Kodaira·Hino·Nishitokyo·Yokosuka·Hiratsuka· Kamakura·Fujisawa·Odawara·Chigasaki·Atsugi·Yamato·Matsumoto
Tokai	Shizuoka·Hamamatsu· Nagoya	Gifu∙Tsu	Numazu·Fuji·Toyohashi·Okazaki·Ichinomiya·Kasugai· Toyokawa·Toyota·Anjo·Yokkaichi·Suzuka
Hokuriku	Niigata	Toyama·Kanazawa·Fukui	Nagaoka·Joetsu·Takaoka
Kinki	Kyoto·Osaka·Sakai·Kobe	Otsu·Nara·Wakayama	Uji·Kishiwada·Toyonaka·Suita·Takatsuki·Hirakata·Ibaraki·Yao·Neyagawa·Izumi· Higashiosaka·Himeji·Amagasaki·Akashi·Nishinomiya·Itami·Kakogawa·Takarazuka
Chugoku	Okayama·Hiroshima	Tottori·Matsue·Yamaguchi	Izumo·Kurashiki·Kure·Fukuyama·Higashihiroshima·Shimonoseki
Shikoku		Tokushima·Takamatsu·Matsuyama·Kochi	
Kyushu	Kitakyusyu · Fukuoka · Kumamoto	Saga·Nagasaki·Oita·Miyazaki·Kagoshima	Kurume·Sasebo
Okinawa		Naha	

Tokyo 23 wards

Chiyoda·Chuo·Minato·Shinjuku·Bunkyo·Taito·Sumida·Koto·Shinagawa·Meguro·Ota·Setagaya·Shibuya·Nakano·Suginami·Toshima·Kita·Arakawa·Itabashi·Nerima·Adachi·Katsushika·Edogawa





Evaluation System

Each indicator was scored, with the averaged value of the scores generating the score for the indicator group. The totaled scores of the indicator groups then formulated the function-specific score, with a total score of 2,600 for all six function groups: (Economy & Business 600 pts, Research & Development 200 pts, Cultural Interaction 500 pts, Daily Life & Livability 700 pts, Environment 300 pts, and Accessibility 300 pts.)

Function		Indicator Group		Indicator names		
		Economic Scale		Total Value Added		
				Intra-regional Gross Expenditure		
			3	Daytime-Nighttime Population Ratio		
			4	Total Employment		
		Employment and	5	Wage Level		
		Human Resources	6	Higher-Education Completion Rate		
	SC		7	Intake/Outflow of Young Employees		
	6 Indicator Groups	Diversity of	8	Female Employment Ratio		
_	<u> </u>	Human Resources	9	Foreign Employment Ratio		
Economy &	Q	Human Resources	10	Elderly Employment Rate		
Business	ē		11	Ratio of Newly Registered Businesses		
Dusiliess	Sai	Business Vitality	12	Labor Productivity		
	₽	·	13	Total unemployment rate		
	드		14	Number of Certified Special Zones		
	9	Business	15	Ratio of Employees in Service Industry for Business Enterprises		
		Environment	16	Total Supply of New Office Real Estate		
		ZITVII OTIITTOTIC	17	Density of Flexible Workplaces		
		Financial Affairs	18	Financial Capability Index		
			19 20	Public Account Balance Ratio		
		Tillalicial Allalis		Real Debt Expenditure Ratio		
				Future Burden Ratio		
	တ္ခ		22	Ratio of Academic and Development Research Institution Employees		
Research &	roups	Academic Resources	22	Ratio of Academic and Development Research Institution Employees Number of Leading Universities		
Research &	or Groups	Academic Resources	23	Number of Leading Universities		
Research & Development	licator Groups		23 24	Number of Leading Universities Number of Papers Submitted		
	2 Indicator Groups	Academic Resources Research Achievement	23 24 25	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches		
	2 Indicator Groups		23 24	Number of Leading Universities Number of Papers Submitted		
	2 Indicator Groups		23 24 25 26	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted		
	2 Indicator Groups	Research Achievement	23 24 25 26 27	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions		
	2 Indicator Groups		23 24 25 26 27 28	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets		
	2 Indicator Groups	Research Achievement	23 24 25 26 27 28 29	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning		
	i	Research Achievement Tangible Resources	23 24 25 26 27 28	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events		
	i	Research Achievement Tangible Resources	23 24 25 26 27 28 29 30 31	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries		
	i	Research Achievement	23 24 25 26 27 28 29 30 31 32	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction •		
Development	i	Research Achievement Tangible Resources	23 24 25 26 27 28 29 30 31 32 33	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries		
	i	Research Achievement Tangible Resources Intangible Resources	23 24 25 26 27 28 29 30 31 32	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction •		
Development Cultural	i	Research Achievement Tangible Resources	23 24 25 26 27 28 29 30 31 32 33	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction on Number of Accomodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity		
Development	i	Research Achievement Tangible Resources Intangible Resources	23 24 25 26 27 28 29 30 31 32 33 34	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction Number of Accomodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity Multilingual Services at Tourist Information Desks and Hospitals		
Development Cultural	i	Research Achievement Tangible Resources Intangible Resources	23 24 25 26 27 28 29 30 31 32 33 34 35	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction on Number of Accommodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity		
Development Cultural	i	Research Achievement Tangible Resources Intangible Resources	23 24 25 26 27 28 29 30 31 32 33 34 35 36	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction Number of Accomodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity Multilingual Services at Tourist Information Desks and Hospitals		
Development Cultural	or Groups	Research Achievement Tangible Resources Intangible Resources Attractiveness to Visitors	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction Number of Accomodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity Multilingual Services at Tourist Information Desks and Hospitals Weekend Visitor Population		
Development Cultural	i	Research Achievement Tangible Resources Intangible Resources Attractiveness to Visitors	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction Number of Accomodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity Multilingual Services at Tourist Information Desks and Hospitals Weekend Visitor Population Volume of People Visiting for Tourism or Sightseeing		
Development Cultural	i	Research Achievement Tangible Resources Intangible Resources Attractiveness to Visitors	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	Number of Leading Universities Number of Papers Submitted Number of Leading Firms in Global Niches Number of Patents Granted Number and Rating of Tourist Attractions Number of Designated Cultural Assets Active Approach to Scenic Town Planning Number of events Workers in Creative Industries Opportunities for Cultural, Historical, and Traditional Interaction Number of Accomodation Facility Guest Rooms Number of Luxury Guest Rooms Event Hall Seating Capacity Multilingual Services at Tourist Information Desks and Hospitals Weekend Visitor Population Volume of People Visiting for Tourism or Sightseeing Number of International Conferences and Exhibitions Held		

Function	Indicator Group	Indicator names	
		43 Recognized Criminal Offenses	
	0	44 Traffic Accident Fatalities	
	Security and Safety	45 Level of Safety During Disaster	
		46 Vacancy Rate	
		47 Number of Doctors	
	Health and Medical Care	48 Number of Hospitals, Clinics and Hospital Beds	
		49 Life Expectancy and Healthy Life Expectancy Rate	
		50 Total Fertility Rate	
Daily Life & Livability Pludicator Groups	Childcare and Education	51 Availability of Daycare Services	
آج ا	Offiliadare and Education	52 Assistance for Children's Medical Costs	
Deller Life 0 (5		Variety of Educational Opportunities	
Daily Life & ೮		Ease of Integration for Foreign Residents	
Livability 5	Civil Life and Welfare	Number of Elderly Requiring Assistance or Care	
Livability	Sivil Ello and Wollard	Number of People Using Independent Living Assistance Services	
Θ̈		Level of Online Municipal Promotion	
		Satisfaction with Living Environment Satisfaction with Living Environment	
►	Living Environment	Volume of New Housing Supply	
	g	60 Size of Residences	
		Ratio of Barrier-free Homes	
	Living Engilities	Density of Retails Businesses	
	Living Facilities	Density of Restaurants	
		64 Density of Convenience Stores	
	Lifectyle Affluence	65 Disposable Income 66 Price Level	
	Lifestyle Affluence	67 Cost of Housing	
		07 Cost of Flousing	
(0	ľ	68 Percentage of Waste Recycled	
<u>ĕ</u>	Environmental Performance	69 CO ₂ Emissions per Daytime Population	
Groups	Ziiviioiiiiioiitai i oiioiiiiaiioo	70 Rate of Self-Sufficient Renewable Energy	
Ö		71 Satisfaction with Natural Environment 0	
	Natural Environment	72 Green Coverage Ratio in Urban Areas	
t		73 Waterfront Areas	
<u></u>		74 Annual Sunshine Hours	
Environment updicator	Comfortability	75 Number of Comfortable Temperature / Humidity Days	
<u>ء</u>	Cornortability	76 Air Quality	
က		77 Cleanliness of Streets 0	
		78 Convenience of Public Transport 0	
sc	Inner-City Transport	79 Density of Train Stations and Bus Stops	
Inc	miner-City Hallsport	80 Frequency of Traffic Congestion	
Gre		81 Travel Time to Airports	
Accessibility 3 Indicator Groups	City Accessibility	82 Ease of Access to Shinkansen	
	Oity Accessionity	83 Number of Interchanges	
<u>:</u>		84 City Compactness	
<u> </u>	Ease of Mobility	85 Commuting Time	
<u></u>	Lase of Woolilly	86 Ease of Use of Bicycles o	
		Eddo of Odd of Bioyolds	

:Indicators Q using questionnaires

138 cities

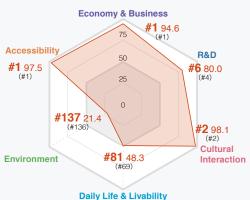
JPC-2022 Top 10 Cities Overall Scores Results and Analysis



Kansai's largest city is an economic and transportation hub

Maintaining its high score from last year, Osaka demonstrated an overall strength, particularly in Economy & Business and Accessibility. In Economy & Business, Osaka was particularly strong in Economic Scale, with high scores in Total Value Added, Intra-Regional Gross Regional Expenditure, and Daytime-Nighttime Population Ratio. In Accessibility, the city scored highly in City Accessibility and increased its scores for Travel Time To Airports and Ease Of Access To Shinkansen. The city also received high scores in the Cultural Interaction function for Attractiveness to Visitors, indicating that it is not only the economic and transportation center of the Kansai region, but also an easy city for tourists to visit.

Function-specific rank and deviation



Indicator group-specific deviation score



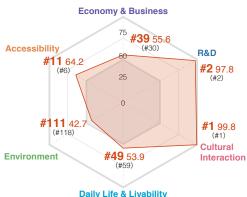
- 2022 Function-specific deviation score 50-point deviation line
- () Rank from 2021

2022 Indicator group-specific deviation score 50-point deviation line *The shape of the graph represents the deviation value

A remarkable city for its innovative way of using one of Japan's leading cultural résources and its growth of residential areas

Kyoto, with its well-known historical townscapes and cultural resources, ranks top among the 138 target cities in both Tangible Resources and Intangible Resources in the Cultural Interaction function. It shows Kyoto is valued not only for its hard resources, but also for the intangible qualities of the city. In Research & Development, Kyoto ranked first in the Number of Leading Universities and Number of Papers Submitted, closing the gap with the leading city, Nagoya. The city's Daily Life & Livability ranking has improved significantly since last year. It ranked highly in Ease of Integration for Foreign Residents and Variety of Educational Opportunities.

Function-specific rank and deviation

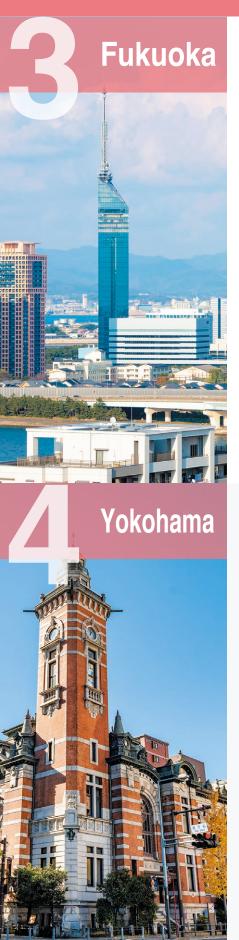


2022 Function-specific deviation score 50-point deviation line () Rank from 2021

Indicator group-specific deviation score



2022 Indicator group-specific deviation score 50-point deviation line *The shape of the graph represents the deviation value



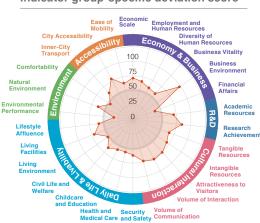
Kyushu's central city has growing cultural appeal

Fukuoka moved up one place in Cultural Interaction by increasing its scores in several indicators, including Level of Attractiveness, Recognition, and Intention to Visit in Volume of Communication, the Number and Rating of Tourist Attractions in Tangible Resources, and Opportunities for Cultural, Historical, and Traditional Interaction in Intangible Resources. In Research & Development, in which Fukuoka also moved up one rank, the score for Number of Papers Submitted increased. In Economy & Business, the ranking remained the same, but the score increased for Ratio of Newly Registered Businesses and the Financial Capability Index. This suggests that Fukuoka, which already had a strong ranking, is further extending its economic vitality and cultural attractiveness.

Function-specific rank and deviation



Indicator group-specific deviation score



- 2022 Function-specific deviation score 50-point deviation line
- () Bank from 2021

A multifunctional city that has expanded its tourist attractions and R&D capabilities

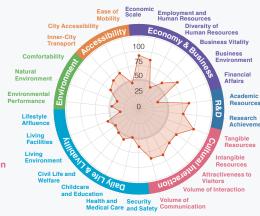
Yokohama demonstrated strength in Research & Development and Cultural Interaction. In Research & Development, the Number of Leading Universities and the Number of Papers Submitted increased, while in Cultural Interaction, Yokohama's score increased for Volume of People Visiting for Tourism or Sightseeing and Tourism Promotion Activities, which led to high scores in the Volume of Interaction and Volume of Communication indicators. The Number of Followers of Local Government SNS Account also ranked highly, indicating Yokohama's policy readiness for increasing tourism. Yokohama's Economy & Business and Accessibility were also rated highly, indicating that Yokohama is a multifunctional city with both tourist attractions and R&D capabilities.

Function-specific rank and deviation



2022 Function-specific deviation score 50-point deviation line

() Rank from 2021



- 2022 Indicator group-specific deviation score
 50-point deviation line
 **The shape of the graph represents the deviation value
 - 10



A city of creativity and cultural interaction which has excellent accessibility and a growing focus on culture and exchange

Making the most of its location in the center of Japan, Nagoya ranked 2nd in Accessibility. In particular, it ranked 2nd among the 138 target cities for City Accessibility and 7th for Ease of Mobility. Research & Development continued to top the list from last year, ranking second in four of the five indicators that comprise Academic Resources and Research Achievements. In Cultural Interaction, which moved up one place from last year, Event Hall Seating Capacity in Attractiveness to Visitors and the Volume of People Visiting for Tourism or Sightseeing in Volume of Interaction had high scores, indicating the success of the tourism strategy before the opening of the Chuo Shinkansen Line.

Function-specific rank and deviation



Daily Life & Livability

Indicator group-specific deviation score



A cultural city that has improved its natural and urban environment

Kobe, which has a high Environment score among the larger cities, improved its Environment ranking significantly thanks to increased scores in Satisfaction with Natural Environment, the Number of Comfortable Temperature/ Humidity Days, and Cleanliness of Streets. In Daily Life & Livability, the city improved its ranking in five indicator groups, Safety and Security, Health and Medical Care, Civil Life and Welfare, Living Environment, and Lifestyle Affluence, resulting in a significant overall increase in this function. The city further balanced out its already high rankings in the other four function groups, most notably Cultural Interaction.

Function-specific rank and deviation



Indicator group-specific deviation score



A livable city that has gained a reputation for culture and exchange

Sendai is highly rated in Research & Development, and this year it also moved up the rankings in Cultural Interaction. In Research & Development, the city was very strong in Research Achievements and received high marks for Number of Papers Submitted and Number of Leading Firms in Global Niches. In Cultural Interaction, the scores for the Number and Rating of Tourist Attractions and Opportunities for Cultural, Historical, and Traditional Interaction increased, indicating that Sendai is growing in attractiveness as a tourist destination. The city also received high scores for Daily Life & Livability, with high scores for Civic Life and Welfare, indicating that it is a comfortable city in which to live.

Function-specific rank and deviation



Indicator group-specific deviation score



Photo by Miyagi Prefecture Tourism Promotion Office

Photo by Kobe Tourism Bureau

Sendai

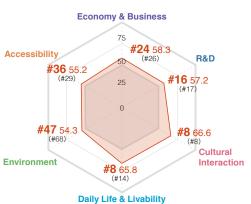


Hamamatsu Matsumoto

A castle town with attractive cultural and historical assets and improved livability

Kanazawa, a beautiful castle town with rich historical assets, has increased its previous strength in Cultural Interaction, and moved up from 14th place last year to 8th place for Daily Life & Livability. In particular, the city ranked in the top 10 in both Living Environment and Security and Safety and received high marks for Level of Safety During Disaster and for Satisfaction with Living Environment. In Economy & Business and Research & Development, both in which the city ranked higher than last year, Kanazawa had a more balanced score. It received high marks for Total Unemployment Rate in Business Vitality and for Number of Leading Firms in Global Niches in Research Achievement.

Function-specific rank and deviation



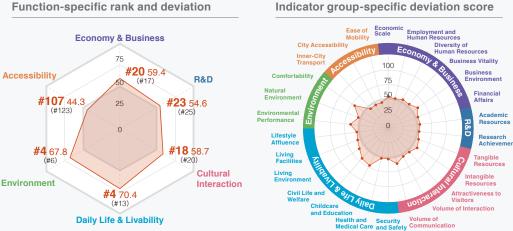
Indicator group-specific deviation score



A growing city with residential amenities and a lush natural environment

Hamamatsu, which every year receives a high score for Environment, also received high marks this year for Daily Life & Livability. In particular, Hamamatsu's score for Level of Online Municipal Promotion in Civil Life and Welfare and Assistance for Children's Medical Costs in Childcare and Education increased significantly. In Ac previously had been a weakness, the ranking improved significantly as a result of increased scores in Travel Time to Airports and Ease of Use of Bicycles. Cultural Interaction and Research & Development also moved up in the rankings, showing Hamamatsu is improving the balance between its rich natural environment and its urban environment.

Function-specific rank and deviation

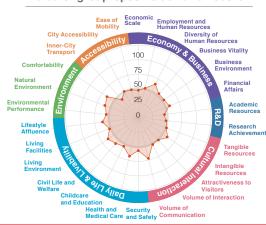


A cultural and multigenerational city blessed with nature

Livable Matsumoto has high scores in Daily Life & Livability. Local policies have increased livability. In particular, this year, Matsumoto increased its score in the Availability of Daycare Services. The city's high deviation score in Health and Medical Care is also a unique feature, with high scores in Life Expectancy and Healthy Life Expectancy Rate, indicating that Matsumoto is a city with a vibrant senior citizen population. This year, the city also improved its ranking in Cultural Interaction, increasing its score in Number and Rating of Events. Overall, Matsumoto is a livable, cultural city with improving tourism attractions.







138 cities JPC-2022 City Analysis By Function

The radar charts* below show the most attractive city by function; Economy & Business, Research & Development, Cultural Interaction, Daily Life & Livability, Environment, and Accessibility.

Deviation values were calculated for the 138 target cities



Tsukuba

A sustainable city, whose economic stability brings vitality and diversity of human resources

Anjo, historically an advanced agricultural city, has strengths in manufacturing, especially in auto parts. It was ranked 2nd in Economy & Business, only behind Osaka, for the second year in a row. The city ranked highly in three indicator groups; it was first in Diversity of Human Resources, second in Financial Affairs, and third in Business Vitality. Anjo ranked top among the 138 target cities for Foreign Employment Ratio, Total Unemployment Rate, and Future Burden Ratio. Its employment and financial stability boosted its performance in Economy & Business.

Function-specific rank and deviation



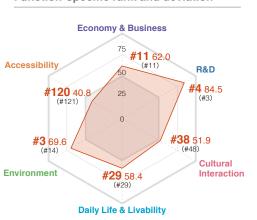
Indicator group-specific deviation score



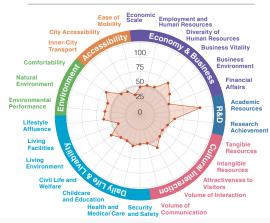
A research and university city where nature and science coexist

Tsukuba has two goals: to be a global hub of innovation and a vibrant, culturally creative city surrounded by abundant greenery and ample space. The city maintained its high ranking in Research & Development. In particular, Tsukuba has the highest Ratio of Academic and Development Research Institution Employees among the 138 cities in the Academic Resources indicator group. In Environment, another of Tsukuba's strengths, the city's goal is reflected in this year's scores. It had high scores for Air Quality and Cleanliness of Streets in the Comfortability indicator group and Satisfaction with Natural Environment in Natural Environment.





Indicator group-specific deviation score



One of the country's leading tourist cities with a strong reputation for cultural interaction

Sapporo, one of the leading tourist cities in Japan, is highly rated in Cultural Interaction, maintaining high deviation scores in all indicator groups. By indicator, Sapporo is highly rated for Level of Attractiveness, Recognition, and Intention to Visit; Number of Followers of Local Government SNS Accounts; Number of Luxury Guest Rooms; and Active Approach to Scenic Town Planning indicating that alongside the city's strong name recognition, the local government is promoting tourism policies and ways for the city to receive tourists. If Sapporo's attractiveness as a tourist destination continues to be broadcast both domestically and internationally, the city can expect to attract even more tourists and grow even stronger in this function.

Function-specific rank and deviation







Daily Life & Livability I z u m o Environment Toyohashi

Accessibility Toyonaka

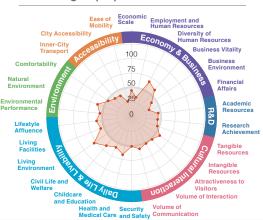
Made possible by municipal support, Izumo demonstrates a top-tier living environment

Izumo, which ranked first among the 138 target cities for Daily Life & Livability, is a city rich in nature, with a diverse topography of oceans, mountains, plains, rivers, and lakes. Notably, Izumo has an excellent Living Environment, ranking second in both Size of Residences and Ratio of Barrier-free Homes. The city's generous policies, such as subsidies for barrier-free home renovations and reductions in the city's solid waste tax, have had a positive effect on the city's living environment. The city also ranks high in Civil Life and Welfare, especially in Number of People Using Independent Living Assistance Services, for which the city ranked 8th. The generosity of welfare services is one of Izumo's strengths.

Function-specific rank and deviation



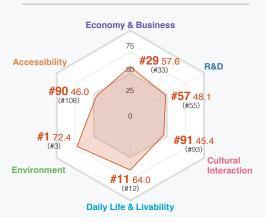




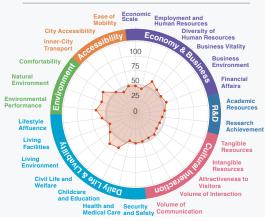
A town creating a society in harmony with nature

Toyohashi, which aims as a city to coexist with nature and care for the global environment, was ranked first among the 138 target cities for Environment. Though no indicators scored outstandingly highly, apart from Annual Sunshine Hours for which Toyohashi was ranked 6th, all Environment indicators have deviation scores above 50. This means the city had high scores in all three indicator groups of Environmental Performance, Natural Environment, and Comfortability. Local government policies aiming to achieve balance across economic, social, and environmental performance can be attributed to this high level of balance.

Function-specific rank and deviation



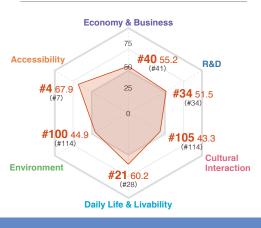
Indicator group-specific deviation score

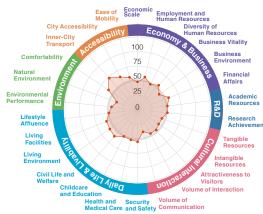


A city with excellent inter-city and within-city accessibility

Toyonaka received high scores for Accessibility, especially for Inner-city Accessibility. The high score for Convenience of Public Transport, which uses the results from a survey, shows that the city's convenient transport connections are highly rated by residents. Although the city lost some points from last year, it still scored highly for Travel Time to Airports thanks to the city's proximity to Osaka International Airport (Itami Airport). With easy access not only within the city, but also to destinations outside the city, Toyonaka is an attractive city for Accessibility.

Function-specific rank and deviation





Function-Specific Scores



Economy & Business



1 Nagoya

Kyoto

Yokohama I

Tsukuba 📕

R&D

41 Nagaoka ■

42 Miyazaki43 Tokushima

44 Sagamihara

13.3

12.5

12.3

112.7

100.4

76.0

Rank	City	y Score	Rank	City	Score
1	Osaka 🔳	268.8	41	Nishitokyo	
2	Anjo 🔳	220.2	42	Funabashi	159.4
3	Toyota	209.5	43	Nagano -	159.4
4	Nagoya	207.9	44	Fujisawa	158.9
5	Fukuoka 🔳	204.4	45	Himeji	158.4
6	Yokohama 🔳	198.2	46	Machida	156.1
7	Mitaka 🔳	187.3	47	Takatsuki	155.9
8	Tachikawa	185.3	48	Hino	155.6
9	Yokkaichi	184.2	49	Ichinomiya	155.4
10	Fuchu =	180.1	50	Suzuka	155.0
11	Tsukuba 🔳	179.7	51	Kasugai	154.5
12	Gifu	179.3	52	Shizuoka	154.2
13	Kobe	178.3	53	Odawara	154.2
14	Atsugi	175.9	54	Saga	153.8
15	Chofu	174.4	55	Sagamihara	153.4
16	Kodaira	173.8	56	Matsudo	153.3
17	Okazaki	173.5	57	Numazu	150.4
18	Matsumoto	173.0	58	Hirakata	149.5
19	Kawasaki	172.7	59	Utsunomiya	149.4
20	Hamamatsu =	172.6	60	Kurume	148.6
21	Higashihiroshima	172.0	61	Kawaguchi	148.4
22	Suita	171.7	62	Tsu	148.2
23	Kashiwa	170.1	63	Toyama	
24	Kanazawa 🔳		64	Sakura ====	147.7
25	Okayama 🔳		65	Tokorozawa	147.5
26	Fukuyama	167.9	66	Sendai	
27	Saitama		67	Fukui	1 1010
28	Kamakura		68	Yamaguchi	
29	Toyohashi		69	Chigasaki	
30	Hachioji	167.3	70	Miyazaki	145.7
31	Ichikawa	167.1	71	Kumagaya -	145.5
32	Toyokawa		72	Kurashiki	145.3
33	Nagareyama	166.1	73	Takamatsu	144.8
34	Ibaraki	165.9	74	Takarazuka	144.4
35	Sapporo	163.2	75	Hiroshima	144.1
36	, , , , , , , , , , , , , , , , , , , ,	162.2	76	Takasaki	
37	Otsu	162.2	77	Fuji	
38	Nishinomiya	162.1	78	Fukushima	
39	Kyoto	162.1	79	Kagoshima	141.8
40	Toyonaka	161.1	80	Yamato	141.8

5	Fukuoka	68.0	45	Tsu	12.0
6	Osaka	67.9	46	Fujisawa	11.9
7	Sendai	58.1	47	Kawagoe ■	11.3
8	Atsugi	42.5	48	Saga 🔳	11.3
9	Kobe	42.1	49	Fuchu	11.0
10	Sapporo	41.0	50	Kurume I	10.5
11	Hiroshima	36.1	51	Matsuyama ■	10.5
12	Hachioji ==	31.4	52	Fukushima	10.2
13	Kawasaki	28.2	53	Takatsuki ■	10.2
14	Kitakyushu	26.9	54	Ibaraki 🔳	10.1
15	Suita	26.5	55	Yokosuka <	9.9
16	Kanazawa	26.4	56	Toyama I	9.8
17	Niigata 📉	26.1	57	Toyohashi	9.6
18	Okayama	22.6	58	Hitachi	9.6
19	Saitama	22.5	59	Kodaira	9.3
20	Utsunomiya	22.4	60	Fukui 📱	9.3
21	Chiba <	21.7	61	Nagano I	8.8
22	Chofu	21.6	62	Hino	8.5
23	Hamamatsu	21.5	63	Toyota	8.3
24	Mitaka	20.5	64	Kamakura ■	7.8
25	Shizuoka	20.0	65	Sakai 🛮	7.7
26	Kumamoto	19.0	66	Maebashi	7.7
27	Hakodate	18.1	67	Matsudo	7.6
28	Kashiwa	17.8	68	Nara I	7.4
29	Akita <	17.5	69	Ichikawa I	7.2
30	Nagasaki	17.1	70	Kurashiki I	7.1
31	Otsu	16.6	71	Kochi	7.1
32	Uji ■	16.5	72	Wakayama ■	6.8
33	Kagoshima	16.2	73	Hirosaki	6.7
34	Toyonaka	16.0	74	Amagasaki	6.5
35	Hirakata	15.6	75	Hiratsuka I	6.5
36	Nishinomiya	14.6	76	Matsumoto	6.5
37	Takamatsu	14.4	77	Kofu	6.5
38	Higashihiroshima	13.7	78	Yamagata I	6.3
39	Morioka	13.5	79	Funabashi I	5.8
40	Gifu	13.4	80	Tottori I	5.7

Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe, Morioka, Akita, Yamagata, Koriyama, Iwaki, Mito, Hitachi, Maebashi, Isesaki, Ota, Kawagoe, Kasukabe, Ageo, Soka, Koshigaya, Chiba, Ichihara, Yokosuka, Hiratsuka, Niigata, Nagaoka, Joetsu, Takaoka, Kofu, Uji, Sakai, Kishiwada, Yao, Neyagawa, Izumi, Higashiosaka, Amagasaki, Akashi, Itami, Kakogawa, Nara, Wakayama, Tottori, Matsue, Izumo, Kure, Shimonoseki, Tokushima, Matsuyama, Kochi, Kitakyushu, Nagasaki, Sasebo, Kumamoto, Oita, Naha

(Listed by city code)

81

138

Asahikawa, Kushiro, Tomakomai, Aomori, Hachinohe, Koriyama, Iwaki, Mito, Takasaki, Isesaki, Ota, Kumagaya, Kawaguchi, Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Sakura, Ichihara, Nagareyama, Yachiyo, Tachikawa, Machida, Nishitokyo, Odawara, Chigasaki, Yamato, Joetsu, Takaoka, Numazu, Fuji, Okazaki, Ichinomiya, Kasugai, Toyokawa, Anjo, Yokkaichi, Suzuka, Kishiwada, Yao, Neyagawa, Izumi, Higashiosaka, Himeji, Akashi, Itami, Kakogawa, Takarazuka, Matsue, Izumo, Kure, Fukuyama, Shimonoseki, Yamaguchi, Sasebo, Oita, Naha

(Listed by city code)

81

138

Score

305.9 305.8

305.1

304.6

304.1

303.9

303.6

303.5

303.2

301.9

301.2

300.8

300.5

300.2

300.1

298.6

298.5

297.7

297.3

296.4

296.4

296.2

295.2

294.6

293.5

293.4

293.0

292.8

292.6

292.4 292.3

292.1

291.9

291.7

291.7

291.0

289.2

288.9

288.8

288.5



Cultural Interaction



Izumo

Matsumoto

Fukuoka

Hamamatsu I

Maebashi |

Kumamoto

Kanazawa

Nagano

Toyohashi

Okazaki

Suita

Nara

Kurume

Sendai

Kagoshima I

Nagasaki

Toyonaka

Nagoya

Kobe

Anjo 25

Hiroshima

Miyazaki

Takasaki

Tsukuba

Shizuoka

Nishinomiya

Toyokawa I

Toyama

Takamatsu

Okayama

Saitama

Ichinomiya

Oita

Niigata

Tottori

Yamagata |

Fukui

Toyota

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17 Gifu

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23 Kofu

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City

Daily Life & Livability

Saga

Matsuyama I

Kitakyushu

Nagareyama I

Matsue

Ibaraki

Kyoto

Sasebo

Mitaka

Takatsuki

Higashihiroshima

Fujisawa

Takarazuka

Yokohama

Kurashiki

Joetsu

Otsu

Akashi

Tokushima

Nagaoka I

Tokorozawa

Yamaguchi

Kawagoe

Atsugi

Kashiwa

Fukushima

Numazu

Suzuka

Yokkaichi I

Utsunomiya I

Kamakura

Takaoka

Hirakata

Morioka

Akita

Tsu

Kasugai

Fukuyama

Fuji

41

42

43

44

46

47

48

49

50

51

53

54

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56

58

59

60

61 Mito

62

63

65

67

68

70

71

72

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74

75

77

78

79

80

Score

367.0

352.9

348.1

348.0

343.9

340.0

339.0

335.6

335.4

331.5

330.6

329.9

328.4

328.0

327.4

327.1

325.7

324.2

322.8

322.7

320.5

319.9

318.3

318.3

317.6

316.2

315.9

315.9

315.4

314.7

314.3

312.9

311.4

311.1

311.0

310.6

309.7

308.0

307.9

307.6

Rank	City	Score	Rank	City	Score
1	Kyoto	314.1	41	Morioka 🔲	81.4
2	Osaka	305.6	42	Matsue	80.9
3	Yokohama	272.8	43	Sasebo ==	80.0
4	Fukuoka	201.4	44	Gifu	79.5
5	Kobe	195.0	45	Miyazaki 📉	78.6
6	Nagoya -	180.0	46	Numazu 🔲	78.0
7	Sapporo	169.8	47	Fuchu	77.8
8	Kanazawa	153.6	48	Kochi	76.6
9	Sendai ====	143.3	49	Fukui	75.1
10	Hiroshima	137.5	50	Kofu	74.8
11	Nagasaki	134.8	51	Otsu	73.9
12	Kitakyushu	132.8	52	lwaki	71.7
13	Naha	126.5	53	Asahikawa 📉	71.6
14	Nara	125.5	54	Oita	70.9
15	Matsumoto	118.4	55	Tottori	70.8
16	Kamakura ====	116.7	56	Utsunomiya 📉	70.7
17	Shizuoka -	116.2	57	Nagaoka 🔲	70.7
18	Hamamatsu	115.3	58	Kushiro =	70.6
19	Hakodate	113.0	59	Shimonoseki	70.5
20	Himeji	108.2	60	Kurume	70.1
21	Nagano	101.1	61	Fukushima	69.3
22	Kumamoto	99.4	62	Hachioji	68.3
23	Takamatsu	97.9	63	Koriyama	68.1
24	Matsuyama	97.5	64	Fujisawa	68.0
25	Kurashiki	95.8	65	Takasaki	67.8
26	Izumo	92.7	66	Chofu	66.4
27	Chiba	90.6	67	Aomori	66.4
28	Saitama ==	90.0	68	Akita	65.2
29	Okayama	88.5	69	Tokushima	65.0
30	Kagoshima	88.4	70	Uji 🔳	63.8
31	Kawagoe	87.0	71	Yamagata -	63.7
32	Tachikawa	86.2	72	Yokosuka	63.5
33	Odawara	85.6	73	Sakai	62.7
34	Niigata -	84.6	74	Toyota	62.2
35	Toyama	84.5	75	Fukuyama Okozoki	61.6
36	Hirosaki	84.0	76	Okazaki Maabaabi	61.3
37 38	Kawasaki Tsukuba	83.2	77 78	Maebashi	59.9 50.1
38	Tsukuba Mito	82.7 82.1	78 79	Fuji Kure	59.1 58.8
40	Wakayama 🚃	81.9	80	Yamaguchi	58.7

Tomakomai, Hachinohe, Hitachi, Isesaki, Ota, Kumagaya, Kawaguchi, Tokorozawa,
Kasukabe, Ageo, Soka, Koshigaya, Ichikawa, Funabashi, Matsudo, Sakura, Kashiwa,
Ichihara, Nagareyama, Yachiyo, Mitaka, Machida, Kodaira, Hino, Nishitokyo,
Sagamihara, Hiratsuka, Chigasaki, Atsugi, Yamato, Joetsu, Takaoka, Toyohashi,
Ichinomiya,Kasugai,Toyokawa,Anjo,Tsu,Yokkaichi,Suzuka,Kishiwada,Toyonaka,
Suita, Takatsuki, Hirakata, Ibaraki, Yao, Neyagawa, Izumi, Higashiosaka, Amagasaki,
Akashi, Nishinomiya, Itami, Kakogawa, Takarazuka, Higashihiroshima, Saga
(Listed by city code)

81 7 138

	Sapporo, Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe
	Koriyama, Iwaki, Hitachi, Isesaki, Ota, Kumagaya, Kawaguchi, Kasukabe, Ageo, Soka,
81	Koshigaya,Chiba,Ichikawa,Funabashi,Matsudo,Sakura,Ichihara,Yachiyo,Hachioji,
}	Tachikawa, Fuchu, Chofu, Machida, Kodaira, Hino, Nishitokyo, Kawasaki, Sagamihara,
•	Yokosuka, Hiratsuka, Odawara, Chigasaki, Yamato, Uji, Osaka, Sakai, Kishiwada, Yao,
138	Neyagawa,Izumi,Higashiosaka,Himeji,Amagasaki,Itami,Kakogawa,Wakayama
	Kure, Shimonoseki, Kochi, Naha
	(Listed by city code

(Listed by city code)

Function-Specific Scores





Osaka

Nagoya

Fukuoka

Toyonaka

Amagasaki

2

5

6

81

138

Accessibility

Naha

Kushiro

Hirakata

Kurume

41

42

44

45

46 Nara

Score

132.0

131.7

131.5

131.4

130.6

130.2

Score

218.8

187.6

176.5

161.3

161.2

160.2

Rank	City	Score	Rank	City	Score
1	Toyohashi	189.6	41	Sasebo	158.1
2	Kamakura	185.1	42	Matsuyama	157.2
3	Tsukuba	184.2	43	Akita	156.7
4	Hamamatsu	180.9	44	Otsu	156.4
5	Toyokawa	179.5	45	Kagoshima	155.8
6	Yokosuka	177.4	46	Fuchu	155.4
7	Matsumoto	176.8	47	Kanazawa	155.4
8	Matsue	174.1	48	Okazaki	155.3
9	Maebashi	172.7	49	Tachikawa	154.9
10	Tsu	172.7	50	Shizuoka	154.7
11	Toyama	171.6	51	Himeji	154.4
12	Yamaguchi	171.4	52	Niigata	154.2
13	Iwaki	171.3	53	Okayama	154.1
14	Kure	171.0	54	Hiratsuka	153.5
15	Miyazaki	169.7	55	Chigasaki	153.2
16	Takasaki	168.8	56	Takatsuki	153.0
17	Takarazuka	168.2	57	Saga	152.4
18	Hitachi	167.8	58	Chiba	151.7
19	Toyota	167.7	59	Tokushima	151.3
20	Tottori	167.0	60	Hino	151.1
21	Fujisawa	165.4	61	Sagamihara	151.1
22	Sakura	164.7	62	Fuji	151.0
23	Izumo	164.3	63	Kodaira	150.8
24	Hachioji	163.9	64	Ota	150.2
25	Numazu	163.6	65	Ibaraki	150.0
26	Kochi	163.2	66	Mitaka	150.0
27	Nagano	163.0	67	Fukuoka	149.3
28	Nishinomiya	162.3	68	Izumi	149.3
29	Odawara	162.2	69	Kofu	149.1
30	Kumamoto	161.7	70	Nagareyama	149.1
31	Mito	161.7	71	Kurashiki	149.0
32	Shimonoseki	161.6	72	Kitakyushu	149.0
33	Takamatsu	161.6	73	Atsugi	148.7
34	Higashihiroshima	161.5	74	Sapporo	148.4
35	Kobe	160.3	75	Machida	148.3
36	Sendai	160.1	76	Oita	148.2
37	Chofu	160.1	77	Akashi	148.1
38	Nara	159.1	78	Uji	148.1
39	Gifu	158.4	79	Isesaki	147.9
40	Morioka	158.4	80	Tokorozawa	147.7

Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe, Yamagata, Fukushima, Koriyama, Utsunomiya, Saitama, Kawagoe, Kumagaya, Kawaguchi, Kasukabe, Ageo, Soka, Koshigaya, Ichikawa, Funabashi, Matsudo, Kashiwa, Ichihara, Yachiyo, Nishitokyo, Yokohama, Kawasaki, Yamato, Nagaoka, Joetsu, Takaoka, Fukui, Nagoya, Ichinomiya, Kasugai, Anjo, Yokkaichi, Suzuka, Kyoto, Osaka, Sakai, Kishiwada, Toyonaka, Suita, Hirakata, Yao, Neyagawa, Higashiosaka, Amagasaki, Itami, Kakogawa, Wakayama, Hiroshima, Fukuyama, Kurume, Nagasaki, Naha

7 Kawasaki 159.4 47 Uji 130.2 157.0 130.0 Chiba 48 Hino 156.0 129.3 9 Shizuoka 49 Kasugai 10 Yokohama 154.9 50 Ichinomiya 129.2 154.3 129.2 11 Kyoto 51 Sapporo 12 Kobe 154.2 128.4 13 Suita 153.6 53 Koriyama 128.3 14 Hiroshima 153.5 54 Takarazuka 128.2 151.8 128.0 15 Fuchu 55 Hiratsuka 150.9 127.9 16 Kitakyushu 56 Ichihara 150.8 127.8 17 Sendai 57 **Fujisawa** 148.1 127.5 18 Sakai 58 Akashi 19 147.1 59 Gifu 127.2 20 146.9 Funabashi 126.7 Ibaraki 60 21 Nishinomiya 145.5 61 Kochi 126.1 22 Mitaka 143.9 62 Izumi 126.0 23 Chofu 143.4 63 Yokosuka 125.9 143.2 125.7 24 Saitama 64 Okayama Tachikawa 25 142.6 125.1 65 Chigasaki 26 Takatsuki 141.7 66 Yamato 125.0 27 Akita 140.0 124.8 67 Takamatsu 138.4 124.6 28 Kawaguchi 68 Higashihiroshima 29 Yao 138.4 69 Soka 123.8 138.1 123.2 30 70 Kumamoto Kagoshima 137.9 122.8 Morioka Hirosaki 137.4 122.6 32 Hakodate 72 Yachiyo 33 Neyagawa 137.3 122.6 34 137.0 122.3 Kishiwada 74 Toyama 35 Tomakomai 136.9 Nishitokyo 122.0 136.8 122.0 36 Kanazawa Otsu 121.9 136.5 37 Niigata 77 Hachinohe 38 136.5 121.8 Yamaguchi 39 136.3 121.7 Aomori 79 Toyota 121.5 Matsuyama 132.2 Numazu

Yamagata, Fukushima, Iwaki, Mito, Hitachi, Tsukuba, Utsunomiya, Maebashi, Takasaki, Isesaki, Ota, Kawagoe, Kumagaya, Tokorozawa, Kasukabe, Ageo, Koshigaya, Matsudo, Sakura, Kashiwa, Nagareyama, Hachio ji, Machida, Kodaira, Sagamihara, Kamakura, Odawara, Atsugi, Nagaoka, Joetsu, Takaoka, Fukui, Kofu, Nagano, Hamamatsu, Fuji, Toyohashi, Okazaki, Toyokawa, Anjo, Tsu, Yokkaichi, Suzuka, Kakogawa, Wakayama, Tottori, Matsue, Izumo, Kurashiki, Kure, Fukuyama, Shimonoseki, Tokushima, Saga, Nagasaki, Sasebo, Oita, Miyazaki (Listed by city code)

17

81

Total Score

Rank	City	Score	Rank	City	Score
1	Osaka	1,242.8	41	Anjo	838.6
2	Kyoto	1,167.7	42	Niigata	838.0
3	Fukuoka	1,147.7	43	Toyonaka	837.7
4	Yokohama	1,140.5	44	Fujisawa	832.2
5	Nagoya	1,131.7	45	Chofu	831.8
6	Kobe	1,048.1	46	Kurume	830.0
7	Sendai	983.6	47	Otsu	828.3
8	Kanazawa	977.3	48	Atsugi	827.5
9	Hamamatsu	954.0	49	Higashihiroshima	823.0
10	Matsumoto	950.1	50	Hachioji	822.6
11	Tsukuba	946.9	51	Fukui	818.6
12	Sapporo	933.4	52	Toyokawa	817.2
13	Hiroshima	932.0	53	Kurashiki	813.5
14	Shizuoka	915.8	54	Maebashi	807.8
15	Toyota	909.4	55	Matsue	807.5
16	Kitakyushu	887.3	56	Naha	807.0
17	Gifu	883.4	57	Ibaraki	806.9
18	Kumamoto	881.1	58	Numazu	806.8
19	Nagano	879.7	59	Morioka	802.5
20	Nara	874.7	60	Tottori	801.8
21	Kamakura	872.5	61	Takatsuki	801.1
22	Okayama	870.0	62	Saga	799.6
23	Toyohashi	867.9	63	Takarazuka	798.5
24	Suita	864.2	64	Yamaguchi	796.6
25	Kagoshima	863.0	65	Takasaki	794.7
26	Fuchu	862.2	66	Kofu	794.3
27	Saitama Saitama	859.4	67	Yamagata	790.9
28	Mitaka	856.8	68	Tsu	790.2
29	Nishinomiya	855.5	69	Oita	789.9
30	Takamatsu	854.4	70	Kawagoe	786.9
31	Tachikawa	852.1	71	Mito	785.5
32	Kawasaki	850.3	72	Odawara	785.4
33	Toyama	847.2	73	Uji	784.3
34	Okazaki Miyazaki	845.2	74	Utsunomiya	784.0
35	Miyazaki Chiha	844.4	75 76	Akita	780.9
36 37	Chiba Izumo	843.6 843.6	76 77	Fukuyama	780.9 780.6
38		843.5	78	Yokkaichi	780.6
39	Nagasaki	840.9	78 79	Fuji	770.7
40	Matsuyama Himoii	839.5	80	Nagareyama Kashiwa	770.7
40	Himeji	039.3	80	Nasi iiwa	770.4

 Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe, Fukushima, Koriyama, Iwaki, Hitachi, Isesaki, Ota, Kumagaya, Kawaguchi, Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Ichikawa, Funabashi, Matsudo, Sakura, Ichihara, Yachiyo, Machida, Kodaira, Hino, Nishitokyo, Sagamihara, Yokosuka, Hiratsuka, Chigasaki, Yamato, Nagaoka, Joetsu, Takaoka, Ichinomiya, Kasugai, Suzuka, Sakai, Kishiwada, Hirakata, Yao, Neyagawa, Izumi, Higashiosaka, Amagasaki, Akashi, Itami, Kakogawa, Wakayama, Kure, Shimonoseki, Tokushima, Kochi, Sasebo

(Listed by city code)

Actor-Specific Scores

In order to evaluate the function-specific characteristics of cities from the viewpoint of 'people', 6 types of actors (Single, Family, Seniors, Tourist, Executive, Employee) were established for this report. To calculate the actor-specific score, first the individual urban needs are determined for each actor, after which the indicators associated with those needs are selected and values are averaged to produce a score.



Rank	City	Score	Rank	City	Score
1	Fukuoka	55.0	41	Nagano	43.7
2	Toyonaka	52.1	42	Toyokawa	43.5
3	Osaka	51.6	43	Fuchu	43.5
4	Kobe	49.2	44	Akita	43.4
5	Nagoya	49.0	45	Akashi	43.4
6	Hiroshima	48.9	46	Tottori	43.3
7	Suita	48.6	47	Sakai	43.3
8	Nishinomiya	48.0	48	Takatsuki	43.2
9	Shizuoka	47.8	49	Yamaguchi	43.2
10	Kagoshima	47.6	50	Maebashi	43.1
11	Matsumoto	47.6	51	Oita	43.0
12	Sendai	47.3	52	Niigata	43.0
13	Hamamatsu	46.9	53	Chofu	42.9
14	Kanazawa	46.7	54	Takarazuka	42.9
15	Kumamoto	46.6	55	Saga	42.8
16	Yokohama	46.4	56	Nagasaki	42.7
17	Nara	46.2	57	Ichinomiya	42.5
18	Kawasaki	46.2	58	Morioka	42.3
19	Kyoto	46.0	59	Fukui	42.2
20	Gifu	46.0	60	Himeji	42.2
21	Toyohashi	46.0	61	Matsue	42.0
22	Matsuyama	46.0	62	Fukuyama	41.9
23	Kitakyushu	45.7	63	Tsu	41.7
24	Takamatsu	45.5	64	Takasaki	41.6
25	Toyota	45.5	65	Chigasaki	41.6
26	Mitaka	45.5	66	Kawagoe	41.5
27	Ibaraki	45.2	67	Nagareyama	41.5
28	Higashihiroshima	45.1	68	Sapporo	41.4
29	Chiba	45.1	69	Kamakura	41.3
30	Itami	45.0	70	Hirakata	41.3
31	Saitama	44.9	71	Kochi	41.2
32	Fujisawa	44.5	72	Kurashiki	41.2
33	Okayama	44.5	73	Hitachi	41.2
34	Kurume	44.3	74	Kure	41.2
35	Tsukuba	44.2	75	Atsugi	41.2
36	Kofu	44.2	76	Sakura	41.1
37	Okazaki	44.0	77	Yamato	40.9
38	Naha	43.9	78	Numazu	40.9
39	Izumo	43.8	79	Yachiyo	40.8
40	Miyazaki	43.8	80	Ichikawa	40.7

Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe, Yamagata, Fukushima, Koriyama, Iwaki, Mito, Utsunomiya, Isesaki, Ota, Kumagaya, Kawaguchi, Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Funabashi, Matsudo, Kashiwa,

- 81 lchihara,Hachioji,Tachikawa,Machida,Kodaira,Hino,Nishitokyo,Sagamihara,
- Yokosuka, Hiratsuka, Odawara, Nagaoka, Joetsu, Toyama, Takaoka, Fuji, Kasugai,

 Ania Yakikaishi Cumika Otay Uji Kishiya da Yoa Nayagaya Immini Ujagahiga aka
- 138 Anjo, Yokkaichi, Suzuka, Otsu, Uji, Kishiwada, Yao, Neyagawa, Izumi, Higashiosaka, Amagasaki, Kakogawa, Wakayama, Shimonoseki, Tokushima, Sasebo

(Listed by city code)



Rank	Ci	ty Score	Rank	C	ity Score
1	Fukuoka I	53.9	41	Takatsuki	45.1
2	Hamamatsu	50.1	42	Takasaki	45.1
3	Matsumoto	49.8	43	Okazaki	45.1
4	Kanazawa	49.7	44	Kofu	45.0
5	Kobe	49.6	45	Okayama	45.0
6	Izumo	49.6	46	Higashihiroshima	44.7
7	Sendai	49.4	47	Himeji	44.6
8	Kumamoto	49.1	48	Chiba	44.6
9	Kagoshima	48.9	49	Ibaraki	44.4
10	Gifu	48.6	50	Saga	44.4
11	Toyohashi	48.4	51	Kochi	44.3
12	Shizuoka	48.4	52	Yamagata	44.3
13	Tsukuba	48.0	53	Fujisawa	44.1
14	Toyonaka	47.9	54	Mito	44.1
15	Miyazaki I	47.9	55	Sasebo	44.0
16	Osaka	47.8	56	Hirosaki	44.0
17	Toyota	47.7	57	Mitaka	44.0
18	Nagoya	47.5	58	Sapporo	44.0
19	Matsuyama	47.5	59	Saitama	43.9
20	Takamatsu	47.5	60	Fukuyama	43.8
21	Kurume	47.4	61	Tsu	43.7
22	Toyama	47.3	62	Fuchu	43.7
23	Maebashi	47.2	63	Oita	43.6
24	Tottori	47.1	64	Takarazuka	43.6
25	Hiroshima I	47.1	65	Naha	43.6
26	Nishinomiya	47.0	66	Akashi	43.4
27	Nara	46.9	67	Numazu	43.3
28	Kitakyushu	46.8	68	Ichinomiya	43.3
29	Yokohama	46.6	69	Wakayama	
30	Kyoto	46.6	70	Fuji	43.2
31	Suita	46.1	71	Otsu	43.1
32		46.1	72	Koriyama	
33	Niigata	46.1	73	Sakai	43.0
34	Nagasaki		74	Tokushima	
35	Toyokawa	45.7	75	Kawasaki	42.9
36	Matsue	45.7	76	Anjo	42.7
37	Akita	45.5	77	Aomori	42.5
38	Yamaguchi I		78	Hachinohe	
39	Fukui	45.5	79	Nagaoka	
40	Morioka	45.3	80	Fukushima	42.3

Hakodate, Asahikawa, Kushiro, Tomakomai, Iwaki, Hitachi, Utsunomiya, Isesaki, Ota, Kawagoe, Kumagaya, Kawaguchi, Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Ishikawa, Funahashi, Matauda, Salura, Kashiya, Ishihara, Nagara, wang Yashiya, Ishihara, Nagara, Washiya, Ishihara, Nagara, N

- 81 Ichikawa,Funabashi,Matsudo,Sakura,Kashiwa,Ichihara,Nagareyama,Yachiyo, Hachioji,Tachikawa,Chofu,Machida,Kodaira,Hino,Nishitokyo,Sagamihara,
- Yokosuka, Hiratsuka, Kamakura, Odawara, Chigasaki, Atsugi, Yamato, Joetsu,
- Takaoka, Kasugai, Yokkaichi, Suzuka, Uji, Kishiwada, Hirakata, Yao, Neyagawa, Izumi, Higashiosaka, Amagasaki, Itami, Kakogawa, Kurashiki, Kure, Shimonoseki

(Listed by city code)



Seniors Number of Indicators 36/86

Rank	City	Score	Rank	Ci	ty Score
1	Matsumoto	52.8	41	Higashihiroshima	46.3
2	Fukuoka	52.7	42	Toyama	46.2
3	Sendai	51.2	43	Hachioji	46.2
4	Hamamatsu	51.1	44	Fukui	46.2
5	Kanazawa	50.6	45	Morioka	45.9
6	Toyohashi	50.6	46	Takamatsu	45.7
7	Nishinomiya	50.1	47	Kitakyushu	45.7
8	Maebashi	49.6	48	Tachikawa	45.7
9	Kumamoto	49.6	49	Tottori	45.7
10	Hiroshima	49.5	50	Okayama	45.6
11	Kobe	49.4	51	Yamaguchi	45.6
12	Izumo	49.4	52	Kamakura	45.5
13	Shizuoka	49.4	53	Numazu	45.5
14	Nagano	49.2	54	Kochi	45.3
15	Toyonaka	48.7	55	Yamagata	45.3
16	Suita	48.7	56	Chofu	45.3
17	Mitaka	48.6	57	Nagoya	45.3
18	Miyazaki	48.5	58	Kofu	45.3
19	Tsukuba	48.4	59	Niigata	45.2
20	Gifu	48.2	60	Chiba	45.2
21	Fujisawa	48.0	61	Saga	45.2
22	Toyota	48.0	62	Atsugi	45.1
23	Nara	47.9	63	Tsu	44.9
24	Kagoshima	47.7	64	Kawasaki I	44.8
25	Yokohama	47.4	65	Mito	44.8
26	Takasaki	47.1	66	Otsu	44.8
27	Kyoto	47.1	67	Akashi	44.8
28	Toyokawa	47.1	68	Sagamihara	44.8
29	Fuchu	47.1	69	Hitachi	44.6
30	Nagasaki	47.1	70	Sasebo	
31	Okazaki	47.0	71	Kodaira	44.5
32	Chigasaki	46.6	72	Akita	44.3
33	Matsuyama	46.5	73	Anjo	
34	Matsue	46.5	74	Saitama	
35	Ibaraki	46.4	75	Sakura	
36	Takatsuki	46.4	76	Uji	
37	Takarazuka	46.4	77	Fuji	44.2
38	Sapporo	46.3	78	Naha	44.0
39	Kurume	46.3	79	Kure	43.8
40	Oita	46.3	80	Himeji	43.8

Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe, Fukushima,
Koriyama, lwaki, Utsunomiya, Isesaki, Ota, Kawagoe, Kumagaya, Kawaguchi,

- Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Ichikawa, Funabashi, Matsudo, 81 Kashiwa, Ichihara, Nagareyama, Yachiyo, Machida, Hino, Nishitokyo, Yokosuka,
 - Hiratsuka, Odawara, Yamato, Nagaoka, Joetsu, Takaoka, Ichinomiya, Kasugai,
- Yokkaichi, Suzuka, Osaka, Sakai, Kishiwada, Hirakata, Yao, Neyagawa, Izumi, Higashiosaka, Amagasaki, Itami, Kakogawa, Wakayama, Kurashiki, Fukuyama, Shimonoseki, Tokushima (Listed by city code)



Tourist Number of Indicators 33/86

Rank	С	ity	Score	Rank	С	ity	Score
1	Osaka	,	53.7	41	Okayama		28.9
2	Kyoto		52.1	42	Gifu		28.7
3	Yokohama		49.9	43	Toyama		28.6
4	Fukuoka		44.4	44	Miyazaki		28.5
5	Kobe		43.3	45	Kochi		28.4
6	Nagoya		40.2	46	Hirosaki		28.1
7	Kanazawa		37.0	47	Otsu		28.1
8	Sendai		37.0	48	Yamaguchi		28.1
9	Hiroshima		36.9	49	Hachioji		28.0
10	Sapporo		36.7	50	Kurashiki		27.9
11	Shizuoka		34.8	51	Mito		27.7
12	Nara		34.2	52	Takarazuka		27.7
13	Matsumoto		34.1	53	Mitaka		27.7
14	Kamakura		33.4	54	Numazu		27.6
15	Hamamatsu		33.2	55	Kawagoe		27.6
16	Kitakyushu		32.8	56	Oita		27.6
17	Nagasaki		32.0	57	Toyota		27.6
18	Chiba		31.9	58	Wakayama		27.4
19	Naha		31.6	59	Toyohashi		27.4
20	Takamatsu		31.1	60	Akita		27.4
21	Fuchu		31.0	61	Kurume		27.3
22	Kawasaki		30.9	62	Sasebo		27.1
23	Nagano		30.5	63	Toyonaka		27.1
24	Morioka		30.3	64	Higashihiroshima		27.1
25	Kumamoto		30.3	65	Suita		27.0
26	Tachikawa		30.3	66	Uji		27.0
27	Tsukuba		30.2	67	Tottori		26.9
28	Himeji		30.2	68	Takatsuki		26.8
29	Kagoshima		30.2	69	Kure		26.7
30	Niigata		29.6	70	Kofu		26.7
31	Matsuyama		29.6	71	Sakura		26.3
32	Fujisawa		29.6	72	Nagaoka		26.3
33	Nishinomiya		29.5	73	Chigasaki		26.2
34	Matsue		29.5	74	Shimonoseki		26.2
35	Yokosuka		29.4	75	Takasaki		26.0
36	Chofu		29.3	76	Akashi		25.9
37	Saitama		29.3	77	Aomori		25.9
38	Izumo		29.2	78	Okazaki		25.8
39	Hakodate		29.1	79	Fukui		25.8
40	Odawara		29.0	80	Saga		25.6

Asahikawa, Kushiro, Tomakomai, Hachinohe, Yamagata, Fukushima, Koriyama, Iwaki, Hitachi, Utsunomiya, Maebashi, Isesaki, Ota, Kumagaya, Kawaguchi,

- Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Ichikawa, Funabashi, Matsudo,81 Kashiwa, Ichihara, Nagareyama, Yachiyo, Machida, Kodaira, Hino, Nishitokyo,
 - Sagamihara, Hiratsuka, Atsugi, Yamato, Joetsu, Takaoka, Fuji, Ichinomiya, Kasugai,
- Toyokawa, Anjo, Tsu, Yokkaichi, Suzuka, Sakai, Kishiwada, Hirakata, Ibaraki, Yao,Neyagawa, Izumi, Higashiosaka, Amagasaki, Itami, Kakogawa, Fukuyama, Tokushima (Listed by city code)

Actor-Specific Scores



Executive Number of Indicators 36/86

Rank	С	ity Scor	e Rank	Cit	ty Score
1	Osaka	55.		Himeji	26.3
2	Nagoya	44.	7 42	Kashiwa	26.1
3	Fukuoka	42.	1 43	Kitakyushu	26.0
4	Yokohama	38.	5 44	Kodaira	26.0
5	Kyoto	37.	3 45	Fujisawa I	25.7
6	Kobe	36.	7 46	Takatsuki 🛮	25.7
7	Toyota	32.	2 47	Nagano	25.7
8	Sapporo	32.	1 48	Suzuka	25.6
9	Sendai	31.	7 49	Takamatsu	25.6
10	Anjo	31.	0 50	Funabashi	25.5
11	Kawasaki	30.	7 51	Utsunomiya	25.5
12	Kanazawa	30.	4 52	Toyama	25.4
13	Mitaka	29.	8 53	Sagamihara	25.4
14	Suita	29.	8 54	Niigata	25.3
15	Hiroshima	29.	7 55	Kumamoto	25.2
16	Tsukuba	29.	4 56	Koriyama	25.1
17	Fuchu	29.	2 57	Miyazaki 🛮	25.1
18	Okayama	29.	1 58	Matsuyama	25.1
19	Yokkaichi			Itami	25.1
20	Higashihiroshima			Hino	25.0
21	Tachikawa			Nishitokyo 	25.0
22	Hamamatsu	28.		Yachiyo	24.9
23	Saitama	28.		Nagareyama	24.9
24	Atsugi	28.		Yamaguchi -	24.8
25	Shizuoka	28.		Kasugai	24.8
26	Toyonaka			Fukushima	24.8
27	Matsumoto	28.		Tsu	24.7
28	Nishinomiya			Odawara	24.5
29	Gifu	28.		Ichinomiya	24.5
30	Chofu	27. 27.		Fukui	24.5
31	Ibaraki	27.		Hirakata Mariaka	24.5
33	Otsu	27.		Morioka Kurashiki	24.5
34	Hachioji Okazaki	27.		Saga	24.3
35	Ichikawa	27.		Kamakura	24.3
36	Fukuyama			Machida	24.2
37	Toyohashi	26.		Numazu	24.2
38	Chiba	26.		Kurume	24.1
39	Kagoshima	26.		Sakura	24.1
40	Toyokawa	26.		Oita	24.1
	Toyonawa			Ona	2-711

Hakodate, Asahikawa, Kushiro, Tomakomai, Aomori, Hirosaki, Hachinohe, Akita,Yamagata, Iwaki, Mito, Hitachi, Maebashi, Takasaki, Isesaki, Ota, Kawagoe, Kumagaya,

- Kawaguchi, Tokorozawa, Kasukabe, Ageo, Soka, Koshigaya, Matsudo, Ichihara,Yokosuka, Hiratsuka, Chigasaki, Yamato, Nagaoka, Joetsu, Takaoka, Kofu, Fuji, Uji, Sakai,Kishiwada,Yao,Neyagawa,Izumi,Higashiosaka,Amagasaki,Akashi,
- Kakogawa, Takarazuka, Nara, Wakayama, Tottori, Matsue, Izumo, Kure, Shimonoseki, Tokushima, Kochi, Nagasaki, Sasebo, Naha

(Listed by city code)



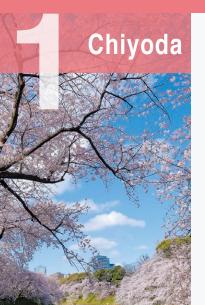
Employee Number of Indicators 19/86

Rank	Cit	ty Score	Rank	Ci	tv So	ore
1	Osaka -	51.1	41	Miyazaki	-	30.2
2	Nagoya	41.6	42	Higashiosaka	3	30.1
3	Fukuoka	38.6	43	Sakai	2	29.8
4	Kyoto	37.3	44	Sendai	2	29.8
5	Hiroshima	34.8	45	Matsuyama I	2	29.7
6	Yokohama	34.4	46	Nagano	2	29.6
7	Kawasaki 🛮	33.6	47	Tachikawa	2	29.6
8	Kobe	33.6	48	Takaoka	2	29.6
9	Toyonaka	33.1	49	Shimonoseki	2	29.5
10	Kurume	32.9	50	Toyohashi	2	29.5
11	Kanazawa	32.9	51	Saitama	2	29.3
12	Shizuoka 🛮	32.8	52	Hakodate I	2	29.3
13	Anjo	32.7	53	Ibaraki	2	29.3
14	Gifu	32.6	54	Tottori	2	29.3
15	Kagoshima	32.5	55	Chofu	2	29.2
16	Higashihiroshima	32.3	56	Kawaguchi	2	29.2
17	Mitaka	32.0	57	Yamagata	2	29.2
18	Toyama	31.9	58	Tsukuba	2	29.2
19	Matsumoto	31.9	59	Yachiyo	2	29.0
20	Kochi	31.9	60	Hamamatsu	2	29.0
21	Amagasaki	31.7	61	Akita	2	28.9
22	Fukui	31.6	62	Toyokawa	2	28.6
23	Saga	31.5	63	Ichikawa I		28.5
24	Takamatsu	31.5	64	Toyota		28.4
25	Nishinomiya -	31.3	65	Yokkaichi		28.3
26	Kitakyushu	31.2	66	Nara		28.3
27	Okayama	31.1	67	Sapporo		28.3
28	Hirosaki	31.1	68	Nagaoka		28.3
29	Chiba	31.1	69	Kure		28.3
30	Matsue		70	Fukuyama		28.3
31	Tsu		71	Takatsuki		28.3
32	Fuchu		72	Kurashiki		27.9
33	Izumo	30.8	73	Fukushima		27.6
34	Niigata		74	Himeji		27.6
35	Suita	30.7	75	Kofu		27.6
36	Ichinomiya	30.7	76	Kishiwada		27.5
37	Morioka	30.6	77	Nagasaki		27.4
38	Yamaguchi	30.6	78	Kasugai I		27.4
39	Itami	30.5	79	Tokushima		27.3
40	Kumamoto	30.4	80	Suzuka	2	27.2

A sahikawa, Kushiro, Tomakomai, Aomori, Hachinohe, Koriyama, Iwaki, Mito, Hitachi, Aomori, Hachinohe, Mito, Hitachi, Aomori, Hachinohe, Mito, Hitachi, Mito,Utsunomiya, Maebashi, Takasaki, Isesaki, Ota, Kawagoe, Kumagaya, Tokorozawa,Kasukabe, Ageo, Soka, Koshigaya, Funabashi, Matsudo, Sakura, Kashiwa, Ichihara,

- Nagareyama, Hachioji, Machida, Kodaira, Hino, Nishitokyo, Sagamihara, Yokosuka, Hiratsuka, Kamakura, Fujisawa, Odawara, Chigasaki, Atsugi, Yamato, Joetsu, Numazu,
- Fuji,Okazaki,Otsu,Uji,Hirakata,Yao,Neyagawa,Izumi,Akashi,Kakogawa,Takarazuka, Wakayama, Sasebo, Oita, Naha

(Listed by city code)



Minato

A family-friendly city with the best business environment in Japan

Chiyoda Ward, with its diversity of residential areas, downtown commercial areas, in addition to government and office areas, ranked first among the 23 wards in Japan in the three areas of Economy & Business, Daily Life & Livability, and Accessibility. While topping the three indicator groups of Economic Scale, Business Vitality, and Business Environment in Economy & Business, Chiyoda Ward also ranked highest in Childcare and Education in Daily Life & Livability. The district is not only the center of economic activity and business in Japan, it also offers a good environment for families.

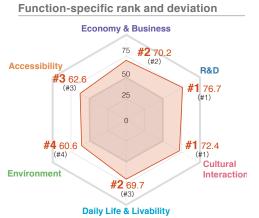


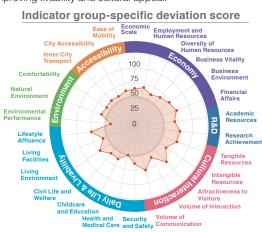
Daily Life & Livability



A livable city rich in nature and culture

Minato, a notably international city, moved up one more place in the Daily Life & Livability function this year thanks to an increase in score for Level of Online Municipal Promotion in Civil Life and Welfare and Volume of New Housing Supply in Living Environment. The district also increased its scores in Tourism Promotion Activities in the Volume of Communication indicator group of Cultural Interaction and in Satisfaction with Natural Environment in Natural Environment, indicating ever improving livability and cultural appeal.

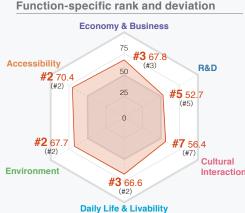


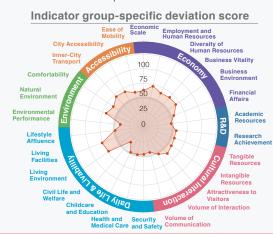


A convenient, natural and livable city

Chuo Ward has a well-balanced ranking. The city is highly rated in Environment and Accessibility and continues to have high scores in Economy & Business and Daily Life & Livability. In the Daily Life & Livability function, Living Facilities and Living Environment had extremely high deviation values. In addition, Chuo received high scores for Natural Environment in the Environment function and Inner-City Transport in Accessibility, indicating that Chuo is a livable district with convenient transport and a rich natural environment.







Function-Specific Scores



Economy & Business

	,	
Rank	City	Score
1	Chiyoda	447.0
2	Minato	392.7
3	Chuo	375.3
4	Shibuya	321.3
5	Shinjuku	294.1
6	Shinagawa	256.6
7	Meguro	253.0
8	Bunkyo	246.1
9	Koto	236.2
10	Toshima	234.3
11	Taito	222.8
12	Setagaya	216.3
13	Nakano	214.8
14	Suginami	209.4
15	Sumida	203.5
16 23	Ota,Kita,Arakawa,It Nerima,Adachi,Kat Edogawa (Listed by	sushika,



R&D

Rank	City	Score
1	Minato	88.1
2	Bunkyo	74.2
3	Chiyoda	74.0
4	Shinjuku	55.1
5	Chuo	27.9
6	Meguro 🔲	21.6
7	Shibuya	17.4
8	Koto	16.7
9	Setagaya	15.6
10	Ota	14.8
11	Toshima	13.3
12	Shinagawa	13.2
13	Itabashi	8.0
14	Arakawa	6.9
15	Katsushika	5.9
16	Taito,Sumida,Naka Kita,Nerima,Adach (Listed	, ,





Cultural Interaction Daily Life & Livability

					_		_
Rank	Ci	ity	Score	Rank	С	ity	Score
1	Minato		234.2	1	Chiyoda		399.2
2	Chiyoda		214.7	2	Minato		382.2
3	Shibuya		180.9	3	Chuo		368.0
4	Shinjuku		170.3	4	Bunkyo		342.9
5	Koto		164.3	5	Shibuya		331.2
6	Taito		152.8	6	Shinjuku		322.5
7	Chuo		143.9	7	Meguro		301.6
8	Bunkyo		142.5	8	Shinagawa		293.7
9	Sumida		118.1	9	Taito		293.4
10	Toshima		117.4	10	Toshima		292.2
11	Shinagawa I		105.2	11	Setagaya		291.3
12	Meguro		88.5	12	Suginami		286.2
13	Setagaya		87.5	13	Itabashi		277.1
14	Ota		76.1	14	Nerima		276.5
15	Katsushika		64.7	15	Nakano		266.1
16 ≀ 23		ginami,Kita,Ar ima,Adachi, E (Listed by cit	dogawa	16	,	oto,Ota,Kita,A tsushika, Edo (Listed by ci	gawa



Environment

Rank	C	ity	Score
1	Koto		160.3
2	Chuo		149.4
3	Edogawa		141.9
4	Minato		138.1
5	Nerima		129.8
6	Shinagawa		129.4
7	Suginami		128.2
8	Setagaya		126.3
9	Chiyoda		126.0
10	Meguro		122.9
11	Bunkyo		122.4
12	Sumida		121.6
13	Katsushika		120.6
14	Kita		117.9
15	Ota		115.4
16 ?		ito,Shibuya,Nak akawa,Itabashi,	,



Accessibility

nı	Į.		Accessibilit	ty
	Score	Rank	City	Score
	160.3	1	Chiyoda	206.9
	149.4	2	Chuo	202.3
	141.9	3	Minato	188.9
	138.1	4	Shibuya	182.4
	129.8	5	Shinjuku	179.7
	129.4	6	Taito	179.6
	128.2	7	Shinagawa	178.3
	126.3	8	Koto	177.4
	126.0	9	Bunkyo	173.9
	122.9	10	Ota	170.9
	122.4	11	Toshima	166.9
	121.6	12	Meguro	163.0
	120.6	13	Nakano	161.9
	117.9	14	Sumida	160.1
	115.4	15	Edogawa	159.2
ashi	kano, i,Adachi v code)	16 23	Setagaya,Suginami,Kita Itabashi,Nerima,Adac Katsushika (Listed by	

Total Score

Rank		City	Score
1	Chiyoda		1,467.7
2	Minato		1,424.3
3	Chuo		1,266.8
4	Shibuya		1,143.4
5	Shinjuku		1,118.0
6	Bunkyo		1,102.0
7	Koto		1,013.5
8	Shinagawa		976.4
9	Taito		962.3
10	Meguro		950.6
11	Toshima		915.7
12	Setagaya		889.0
13	Sumida		868.4
14	Suginami		842.2
15	Ota		832.0
16	Nakano,Kit Katsushika	a,Arakawa,Itabashi,Nerima, , Edogawa (Listed	Adachi, by city code)

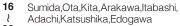
Actor-Specific Scores

In order to evaluate the function-specific characteristics of cities from the viewpoint of 'people', 6 types of actors (Single, Family, Seniors, Tourist, Executive, Employee) were established for this report. To calculate the actor-specific score, first the individual urban needs are determined for each actor, after which the indicators associated with those needs are selected and values are averaged to produce a score.



Single Number of Indicators 23/86

Rank		City	Score
1	Chiyoda		62.0
2	Chuo		60.7
3	Minato		59.3
4	Bunkyo		52.7
5	Shibuya		52.5
6	Shinagawa		50.6
7	Shinjuku		49.9
8	Meguro		49.6
9	Taito		48.9
10	Toshima		47.5
11	Suginami		46.5
12	Setagaya		46.0
13	Koto		45.8
14	Nerima		44.8
15	Nakano		44.6



23 (Listed by city code)



Family Number of Indicators 40/86

Rank		City	Score
1	Minato		55.8
2	Chuo		54.8
3	Chiyoda		54.7
4	Bunkyo		49.4
5	Shibuya		48.3
6	Shinagawa		46.4
7	Shinjuku		46.2
8	Meguro		46.0
9	Koto		45.3
10	Taito		44.4
11	Setagaya		44.0
12	Suginami		43.6
13	Nerima		43.1
14	Toshima		42.4
15	Sumida		41.8
16	Ota,Nakano,Kita,Arakawa,Itabashi,		

Adachi, Katsushika, Edogawa

23

(Listed by city code)



Seniors Number of Indicators 36/86

Rank		City	Score
1	Chiyoda		59.2
2	Chuo		57.6
3	Minato		56.2
4	Bunkyo		52.8
5	Shibuya		49.9
6	Shinagawa		49.0
7	Meguro		48.2
8	Shinjuku		48.1
9	Koto		47.7
10	Taito		47.1
11	Suginami		46.4
12	Setagaya		45.8
13	Nerima		45.0
14	Sumida		44.8
15	Nakano		43.9
16	Ota,Toshima,Kita,Arakawa,Itabashi, Adachi,Katsushika,Edogawa (Listed by city code)		



Tourist Number of Indicators 33/86

Rank		City	Score
1	Minato		51.2
2	Chiyoda		50.3
3	Chuo		46.4
4	Koto		42.2
5	Shibuya		41.8
6	Shinjuku		39.1
7	Taito		38.6
8	Bunkyo		37.9
9	Shinagawa		34.8
10	Sumida		33.0
11	Toshima		31.3
12	Meguro		31.0
13	Setagaya		30.2
14	Ota		28.9
15	Edogawa		28.6

Nakano, Suginami, Kita, Arakawa,

Itabashi,Nerima,Adachi,Katsushika

(Listed by city code)

16

23



Executive Number of Indicators 36/86

Rank		City	Score
1	Chiyoda		68.3
2	Minato		63.4
3	Chuo		56.1
4	Shibuya		48.2
5	Shinjuku		47.1
6	Bunkyo		42.2
7	Shinagawa		40.1
8	Koto		39.8
9	Meguro		38.9
10	Toshima		37.6
11	Taito		35.5
12	Nakano		33.7
13	Setagaya		33.3
14	Ota		33.0
15	Suginami		32.7
16	Cumida Kita	o Arakawa Itabaahi	Marima

Sumida, Kita, Arakawa, Itabashi, Nerima, Adachi, Katsushika, Edogawa

23 (Listed by city code)



Employee Number of Indicators 19/86

	. ,		
Rank		City	Score
1	Chuo		67.5
2	Chiyoda		65.2
3	Minato		58.2
4	Shinjuku		53.1
5	Shibuya		53.0
6	Taito		50.4
7	Toshima		46.2
8	Shinagawa		45.4
9	Bunkyo		45.2
10	Meguro		43.4
11	Sumida		42.0
12	Arakawa		40.4
13	Koto		40.4
14	Nakano		39.1
15	Ota		38.7

Setagaya, Suginami, Kita, Itabashi,

Nerima, Adachi, Katsushika, Edogawa

23 (Listed by city code)

Special Research

City Perception Survey Japan

Background and Objectives

In the Japan Power Cities (JPC), Mori Memorial Foundation Institute for Urban Strategies has identified the strengths and attractions the major Japanese cities. However, the JPC does not reveal what kind of image residents have of these cities. We conducted a questionnaire survey to understand the words and sentences which create the city image held by residents. We quantitatively analyzed and visualized the words from various perspectives. This can contribute to the branding strategy of each city.

*For the results of all cities, please refer to the website of the Mori Memorial Foundation.

2 Resident Survey

 Respondents
 Men and women aged 20 and older living in the 161 cities covered by JPC-2022

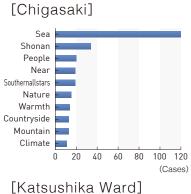
Number of responses : 300 per city

 Question : Please provide a word or phrase which describes the city image of the city in which you live.

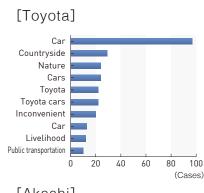


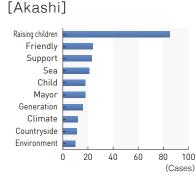
Analysis 1 Top 10 Keywords (Frequency of Response)

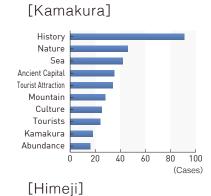
The unit of analysis was individual words. The top 10 most frequently appearing keywords in each city were extracted from the sentences provided in the questionnaire responses. Cities with particularly high frequencies of some words compared to others are listed below.

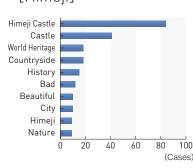






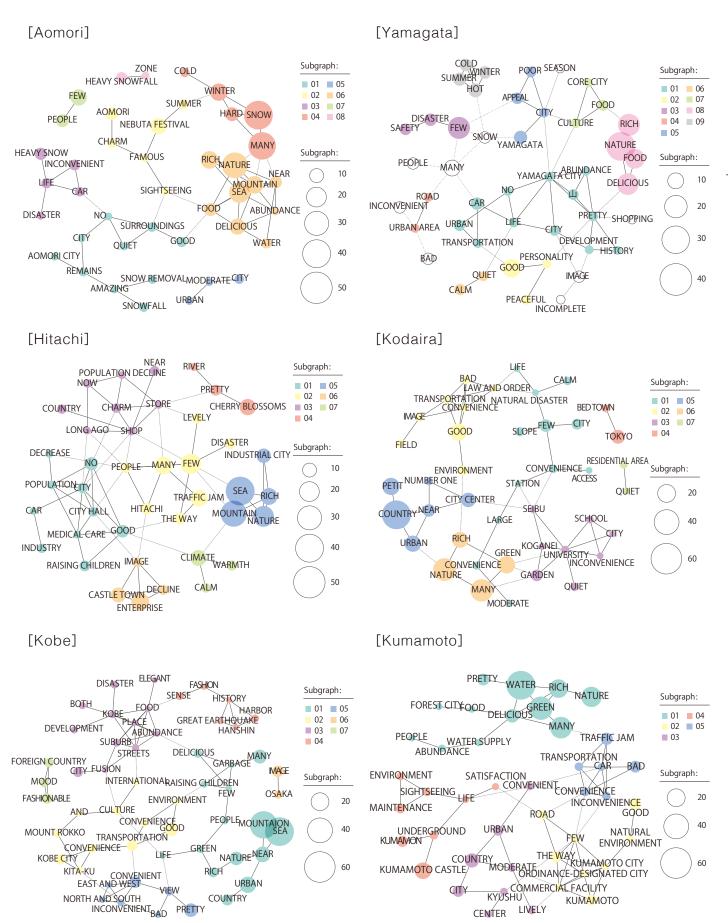






Analysis 2 Relationships among keywords (co-occurrence network analysis)

A co-occurrence network analysis was performed for words that were responses five or more times in each city. A network diagram was drawn which connects words with a strong degree of co-occurrence. An example of the results is shown below. The size of the circle indicates the frequency of occurrence.



Analysis 3

Keywords unique to cities (Feature Extraction)

We measured the similarity (Jaccard coefficient) between responses for all cities using city of residence as an external variable, and extracted the top 10 words for each city. The cities whose Jaccard coefficients for the top words were particularly high compared to the other cities are listed below. Note that the higher the coefficient, the more times the city name and the keyword appeared in common. These words were considered as more distinctive.

[Fuji]

Keyword	Jaccard coefficient (%)
Mt. Fuji	40
Paper	8
Paper making	8
Factory	5
Fuji city	4
Suruga Bay	4
Clean	3
Smell	2
Foothill	2
Fuji	2

[Suzuka]

Keyword	Jaccard coefficient (%)
Circuit	39
Suzuka	18
Motor Sports	15
F1	8
Honda	7
lse	4
Stencil	3
Cars	2
Race	2
Mie	2

[Kumagaya]

Keyword	Jaccard coefficient (%)
Hot	38
Rugby	15
Kumagaya	14
Hot	6
Cold	6
Town	5
Disaster	3
Number one in Japan	2
Local City	2
Convention	1

[Nagaoka]

Keyword	Jaccard coefficient (%)
Fireworks	36
Nagaoka Fireworks	10
Nagaoka	6
Tournament	5
Snow	5
Rice	4
Isoroku Yamamoto	3
Famous	2
Consolidation	2
Sake	2

[Kasukabe]

Keyword	Jaccard coefficient (%)
Crayon Shin-chan	34
Kasukabe	3
Unfinished	2
Old	2
Impossible	2
Possible	2
Station	2
Development	2
Aid	1
Old	1

[Kagoshima]

Keyword	Jaccard coefficient (%)
Sakurajima	32
Volcanic ash	6
Kagoshima city	4
Black	4
Meiji Restoration	3
Gentle	3
Hot spring	3
Magnificent	3
Food	2
Saigo	2

[Hirosaki]

Keyword	Jaccard coefficient (%)	
Cherry blossom	31	
Castle	10	
Mt. Iwaki	6	
Castle town	6	
Four seasons	4	
Festivals	3	
Hirosaki	3	
Hirosaki castle	3	
Apples	3	
Now and then	3	

[Toyokawa]

Keyword	Jaccard coefficient (%)
Toyokawa Inari	31
Inari	8
Famous	2
lida Line	2
Toyokawa City	2
Meitestsu	2
National Highway	2
Convenience	1
Countryside	1
Public transportation	1

[Utsunomiya]

Keyword	Jaccard coefficient (%)		
Gyoza	29		
Cocktails	4		
Pleasant	4		
LRT	3		
Utsunomiya	3		
Utsunomiya City	3		
North Kanto	3		
Disaster	2		
Characteristics	2		
Local City	2		

Analysis 4 Similarity between cities (co-occurrence network analysis of city of residence and keywords)

A co-occurrence network analysis was conducted on the keyword data for all target cities, with city of residence as an external variable. A corresponding network diagram was drawn based on the degree of co-occurrence between cities and keywords.



Note: The following cities are not depicted in the above figure because no significant co-occurrence relationships were calculated. Tomakomai, Hachinohe, Sendai, Akita, Koriyama, Mito, Tsukuba, Utsunomiya, Ota, Saitama, Tokorozawa, Kasukabe, Soka, Koshigaya, Chiba, Kashiwa, Yachiyo, Hachioji, Tachikawa, Mitaka, Fuchu, Machida, Kodaira, Hino, Kawasaki, Sagamihara, Yokosuka, Hiratsuka, Chigasaki, Atsugi, Yamato, Niigata, Joetsu, Takaoka, Kofu, Nagano, Gifu, Numazu, Nagoya, Toyohashi, Okazaki, Toyokawa, Toyota, Anjo, Suzuka, Uji, Osaka, Sakai, Suita, Takatsuki, Hirakata, Yao, Izumi, Himeji, Nishinomiya, Kakogawa, Takarazuka, Wakayama, Tottori, Izumo, Kurashiki, Hiroshima, Kure, Fukuyama, Higashihiroshima, Shimonoseki, Kitakyushu, Kurume, Saga, Sasebo, Kagoshima, Naha, Chuo, Toshima, Kita, Nerima

Definitions of Indicators

Indicators were established based on quantitative data (80 indicators) drawn from statistical materials, and survey data (7 indicators) obtained from a resident questionnaire carried out by the Mori Memorial Foundation. Data acquisition methods are outlined in (1) and (2) below.

(1) Data derived from statistical materials (80 indicators)

- · When available, data is taken from official public sources.
- Regarding data not obtained from public statistics, other reputable sources are used.
- · Data was collected in the period of January March 2022.

(2) Resident Questionnaire (7 indicators)

- · Survey method: internet questionnaire
- · Respondents: residents aged 20 years and above, living in one of the 161 target cities.
- Number of responses: 48,300 responses (300 per city) with a 1:1 male-female ratio. Respondent age ranges were set at a ratio of 6:4 for 20-59-year-olds to those 60 years old and over.

 Survey period: March, 2022
- · Surveyed by: Survey Research Center Co., Ltd.

Indicator Group	No.	Indicator names	Definitions		
Economic Scale	1	Total Value Added	The total value added in terms of number of enterprises in the target city or ward.		
	2	Intra-regional Gross Expenditure	The total expenditure recorded intraregionally in the target city. For Tokyo's 23 wards, data was estimated using population figures and total employment(exluding public entities), with values being added together for each ward as a ratio of the total value of gross expenditure for all wards.		
	3	Daytime-Nighttime Population Ratio	The ratio of the population commuting to work or school in the target city or ward divided by the residential population of the target city or ward.		
Employment and Human Resources	4	Total Employment	The number of employees (exluding public entities) in the target city or ward.		
	5	Wage Level	The sum values for total salary and total welfare payments divided by the total number of employees (exluding public entities) in the target city or ward.		
	6	Higher-Education Completion Rate	The ratio of higher-education graduates (juniour college, national college of technology, 4-year program) that exist among the total population aged 18 and above in the target city or ward.		
	7	Intake/Outflow of Young Employees	The ratio of the population in 2005 who have not yet entered higher-education (aged 15-19), against the population in 2015 who had completed their higher-education (aged 25-29).		
Diversity of Human Resources	8	Female Employment Ratio	The ratio of female workers between the ages of 15-64 to the total number of employees aged 15-64 in the target city or ward.		
	9	Foreign Employment Ratio	The ratio of foreign workers aged 15 and above to the total number of employees aged 15 and above in the target city or ward. For unlisted cities, the numbers from each prefectural Labor Bureau were used. For cities not listed in the bureau, estimates were made using the foreign population.		
	10	Elderly Employment Rate	The elderly employment rate calculated as the number of employees aged 65 and above divided by the total population aged 65 and above in the target city or ward.		
Business Vitality	11	Ratio of Newly Registered Businesses	The number of newly designated corporations in 2020 divided by the total number of corporations in each city.		
	12	Labor Productivity	The ratio of total value added to the number of employees in general industries (exluding public entities) in the target city or ward.		
	13	Total unemployment rate	The number of unemployed people divided by the total working population.		
Business Environment	14	Number of Certified Special Zones	The number of projects certified as "National Strategic Special Zones" and the number of special zones in "Comprehensive Special Zones" and "Structural Reform Special Zones" were indexed separately and then combined. (Those certified at the prefectural level were weighted at 0.5.)		
	15	Ratio of Employees in Service Industry for Business Enterprises	The number of employees in 25 industry subcategories defined as "Business Services" divided by the total number of employees as recorded in the Economic Census (exluding public entities).		
	16	Total Supply of New Office Real Estate	The average floor area of real estate buildings over the last three years.		
	17	Density of Flexible Workplaces	Calculated based on the following criteria: (1) value obtained by dividing the number of coffee shops by the total land area in use, and (2) value obtained by dividing the number of co-working spaces by the total land area in use.		
Financial Affairs	18	Financial Capability Index	The value in the Ministry of Internal Affairs and Communications' Financial Strength Index. For Tokyo's 23 wards, the value in the General Affairs Bureau's Economic Strength Index is used.		
	19	Public Account Balance Ratio	The current account balance ratio for the target city or ward.		
	20	Real Debt Expenditure Ratio	The total value of debt payments divided by the annual public income for the target city or ward.		
	21	Future Burden Ratio	The total outstanding debt divided by the annual public income for the target city or ward.		
	Employment and Human Resources Diversity of Human Resources Business Vitality Business Environment	Economic Scale 2 3 4 Employment and Human Resources 6 7 Diversity of Human Resources 9 10 11 Business Vitality 12 13 14 Business Environment 15 16 17 18 Financial Affairs 19 20	Economic Scale 2 Intra-regional Gross Expenditure 3 Daytime-Nighttime Population Ratio 4 Total Employment 5 Wage Level 4 Higher-Education Completion Rate 7 Intake/Outflow of Young Employees 8 Female Employment Ratio 10 Elderly Employment Ratio 10 Elderly Employment Rate 11 Ratio of Newly Registered Businesses 12 Labor Productivity 13 Total unemployment rate 14 Number of Certified Special Zones 15 Ratio of Employees in Service Industry for Business Enterprises 16 Total Supply of New Office Real Estate 17 Density of Flexible Workplaces 18 Financial Capability Index 19 Public Account Balance Ratio 20 Real Debt Expenditure Ratio		

Function	Indicator Group	No.	Indicator names	Definitions	
	Academic Resources	22	Ratio of Academic and Development Research Institution Employees	The total number of employees in research & development institutions divided by the total number of employees (exluding public entities) in the workforce for the target city or ward.	
Research & Development		23	Number of Leading Universities	Calculated based on the following criteria: (1) the indexed score based on the score of universities featured in Benesse's World Ranking of Top 150 Universities - Japan Edition that are located in the target city or ward; and (2) the indexed score based on the score of universities featured in Times Higher Education's The World University Rankings that are located in the target city or ward. For both (1) and (2), universities with campuses in different cities, the total number of theses was divided by the number of campuses.	
	Research Achievement	24	Number of Papers Submitted	The average number of papers on National Institute of Informatics' CiNii Articles in the past year submitted from the 188 universities which have published 500 or more theses for the 10-year period between 2008-2017 according to NISTEP's Japanese Universities' Research Theses Benchmarking report and individual national research and development institutes as listed in the Science Map Report published by the same institute. Papers were searched on 2017-2019, with the average values for both dates used. For universities with campuses in different cities, the total number of theses was divided by the number of campuses.	
Œ		25	Number of Leading Firms in Global Niches	The number of headquarters, offices, and factories maintained by companies featured in the Ministry of Economy, Trade & Industry's "Global Niche Top 100 Companies".	
		26	Number of Patents Granted	The number of patents granted in the last five years.	
		27	Number and Rating of Tourist Attractions	The value obtained by adding the indexed number of tourist spots and the indexed number of reviews in each of the eight categories of "Sightseeing" in TripAdvisor Japan: "Famous Tourist Spots," "Nature and Parks," "Outdoors," "Museums," "Zoos and Aquariums," "Leisure Facilities," "Concerts and Shows," and "Amusement Parks and Theme Parks." Excludes items considered to be intangible tourist attractions.	
	Tangible Resources	28	Number of Designated Cultural Assets	The number of designated cultural assets recognized by UNESCO and Agency for Cultural Affairs. Points awarded as follows: UNESCO world heritage site (3 points); national treasures, special historical landmark, special place of scenic beauty, important traditional architecture preservation district (2 points); important cultural property, registered tangible cultural properties, historical landmark, registered monument, place of scenic beauty, important cultural scenery (1 point).	
		29	Active Approach to Scenic Town Planning	Calculated based on the following criteria: (1) the existence of scenery planning as well as scenic town planning model districts; (2) the number of prizes awarded and activities carried out after 2011 in the categories of urban space, scenic town planning activities-training, and scenery planning activities, according to the Executive Committee of Scenic Planning Day; the number districts awarded the "Beautiful Townscape Prize" between the years 2001-2010; and the number of districts recognized in the "Urban Scenery 100" between the years 1991-2000 (1 point / award). Those awarded to the prefecture are not counted.	
	Intangible Resources	30	Number and Rating of Events	Calculated based on the following criteria: (1) The indexed value of the number of events and comments recorded in Tripadvisor's "Events" listing for "Sightseeing" in the target city or ward.(2) the number of "local performing arts" and "festivals" listed in "All Events" of the Japan Travel and Tourism Association promotion "miru-navi" in the target city or ward.	
on		31	Workers in Creative Industries	The ratio of workers in relevant creative industries to the total employment (exluding public entities) for each target city or ward. The definition of "creative industries" is based on information provided by the UNDP, UNESCO, and the Tokyo Metropolitan Government's Bureau of Industrial and Labor Affairs, with 37 relevant industry classifications selected from the Ministry of Internal Affairs and Communications' Economic Census.	
		32 Q	Opportunities for Cultural, Historical, and Traditional Interaction	Based on responses from a resident questionnaire asking whether there are abundant opportunities for cultural, historical, and traditional interaction for people visiting from other cities.	
Inte		33	Number of Accomodation Facility Guest Rooms	The number of gust rooms recorded on Recruit's "Jalan.net" website.	
Cultural Interact		34	Number of Luxury Guest Rooms	The number of guest rooms in lodging facilities rated as "High Class" according to Recruit's "Jalan.net" travel website.	
Cn	Attractiveness to Visitors	35	Event Hall Seating Capacity	Calculated based on the following criteria: (1) The number of seats in public cultural facilities, (2)the capacity of banquet halls in hotels as listed in "Venue Best Search", or the capacity as estimated from the number of guest rooms in hotels with banquet halls among the accommodations listed in Recruit's "Jalan.net" travel website.	
		36	Multilingual Services at Tourist Information Desks and Hospitals	Calculated based on the following criteria: (1) the weighted value of the number of tourist information centers offering multilingual services and sightseeing guidance according to the JNTO; (2) the number of medical institutions suited to accepting foreigners according to the JNTO.	
	Volume of Interaction	37	Weekend Visitor Population	The number taken by subtracting the nighttime population from the tourist population, then dividing by the daytime population.	
		38	Volume of People Visiting for Tourism or Sightseeing	Number of postings (limited to out-of-prefecture residents) of location information in four categories (food and beverage, leisure, sightseeing, and lodging) posted on SNS (Twitter-based) over the past year, as listed in the SNS analysis plan (Japanese) of Knightley Corporation's "CITYINSIGHT".	
		39	Number of International Conferences and Exhibitions Held	The added index values of the number of conference events held and the number of exhibitions held in the target city or ward.	
	Volume of Communication	40	Tourism Promotion Activities	Calculated based on the following criteria: (1) An indexed value of total points based on 1 point given for each Destination Marketing Organization (DMO) registered in the target city or ward, and 0.5 points given for each wide-area cooperation DMO or regional cooperation DMO located in the target city or ward; (For Tokyo's 23 wards, DMO corporations were added based on an independent survey conducted by the Mori Memorial Foundation.)(2) the indexed value of total points based on 1 point given for each exhibition organization (excluding private companies) in the target city or ward registered on Tourism Expo Japan, and 0.5 points given for each prefectural-level organization.	
		41	Number of Followers of Local Government SNS Accounts		
			Level of Attractiveness, Recognition, and Intention to Visit	The values were calculated based on the responses to a survey of residents on "awareness," "attractiveness," and "willingness to visit" of three randomly selected cities other than the city in which they reside.	

Function	Indicator Group	No.	Indicator names	Definitions		
	Security and Safety	43	Recognized Criminal Offenses	Calculated based on the total number of criminal offenses as provided by police headquarters or prefectural police stations on acknowledged criminal offenses, divided by the daytime population (000s) of the target city or ward.		
		44	Traffic Accident Fatalities	The average number of traffic fatalities over the past three years divided by the daytime population (per 10,000 people.)		
		45	Level of Safety During Disaster	Based on the scores for the following 5 categories: 1) The ratio of total number of households constructed before 1980 to the total number of households; 2) the ratio of total number of households located over 1km away from public evacuation zones to the total number of households; 3) the ratio of estimated area affected by potential flooding to the total area; 4)The sediment-related disaster risk area divided by the total area; 5)the ratio of total number of building fire outbreaks to the daytime population (000s) of the target city or ward.		
		46	Vacancy Rate	The total number of vacant residential units divided by the total number of residential units in the target city or ward.		
	Health and Medical Care	47	Number of Doctors	The total number of doctors employed at medical facilities divided by the daytime population (000s) of the target city or ward.		
		48	Number of Hospitals, Clinics and Hospital Beds	Calculated based on the indexed value of the total number of hospitals, general medical clinics, and hospital beds, divided by the daytime population (per million people) in the target city or ward.		
		49	Life Expectancy and Healthy Life Expectancy Rate	Calculated based on the following criteria: (1) life expectancy for the target city or ward; (2) healthy life expectancy for the target city or ward. As this data is taken from the prefectural level, (2) is weighted at half of (1).		
		50	Total Fertility Rate	The total fertility rate (Bayes estimate) for the target city or ward.		
		51	Availability of Daycare Services	The ratio of the number of daycare applicants aged 0-2 years to the total capacity in the target city or ward.		
	Childcare and Education	52	Assistance for Children's Medical Costs	The total points awarded for medical costs of a "visit" and "hospitalization" based on age categories (before entering school: 1 point; up to 7-9 years old: 2 points; up to 12 years old: 3 points; up to 15 years old: 4 points; up to 18 years old: 5 points) in the target city or ward, as well as the total points awarded based on income restrictions or partial self-payment requirements (1 point given if none exist. 0.5 points given if there is no fee for either walk-in or inpatients).		
>		53	Variety of Educational Opportunities	Calculated based on the following criteria: (1) number of "free schools," and (2) number of high schools with deviations of 65 or more.		
Daily Life & Livability	Civil Life and Welfare	54	Ease of Integration for Foreign Residents	The indexed value of points awarded for policies or initiatives related to easing the integration of foreign residents. The 13 policy categories are based on those found in a 2019 Nikkei Newspaper study. Points awarded as follows: 1 point for categories with policies already implemented; 0.5 points for categories with policies under consideration; 0 points for categories with no policies or no response. For cities not covered in the report, their municipal administative bodies were consulted.		
Daily Life		55	Number of Elderly Requiring Assistance or Care	The number of people aged 65 and above requiring primary nursing care, divided by the total population aged 65 and above in the target city or ward. Saga City and Kumagaya City used local municipality data. The cities of Toyohashi, Toyokawa and Suzuka made estimates.		
		56	Number of People Using Independent Living Assistance Services	The number of independent living assistance users divided by the total population (per 10,000 people).		
		57	Level of Online Municipal Promotion	The amount of resident services available online and the measures taken by local governments to promote their use.		
		58 Q	Satisfaction with Living Environment	Based on responses from a resident questionnaire regarding the level of satisfaction with their living environment (including disaster prevention, crime, convenience, etc.).		
	Living	59	Volume of New Housing Supply	The average value of the total floor area of residential housing for the past three years divided by the nighttime population (per 10,000 people.)		
	Environment	60	Size of Residences	The gross floor area per residence in the target city or ward.		
		61	Ratio of Barrier-free Homes	The number of barrier-free households in which a family member aged 65 and above resides divided by the number of households in which a family member aged 65 or over resides in the target city or ward.		
		62	Density of Retails Businesses	The number of retail businesses (small goods; textiles, clothing, personal effects; food and drink; mechanical parts; and other small retail shops) divided by the total land area in use for the target city or ward.		
	Living Facilities	63	Density of Restaurants	The total number of food and drink establishments as well as take-out and delivery services divided by the total area in use of the target city or ward.		
		64	Density of Convenience Stores	The total number of convenience stores divided by the total area in use of the target city or ward.		
	Lifestyle Affluence	65	Disposable Income	The total monthly disposable income (income after expenses) in a household with 2 or more members within the target city or ward. For Tokyo's 23 wards, estimates were made using "taxable income" and "number of households."		
		66	Price Level	The total indexed value of the regional differentiation in price level (where that national level = 100), excluding rent. For cities not hosting a prefectural office, or not defined as ordinance-designated cities, data was unavailable and thus taken from prefectural sources.		
		67	Cost of Housing	The total cost of homeownership-related expenses and rental expenses (for those not owning a home) for an occupied dwelling. For Tokyo's 23 wards, estimates were made based on the following two data points: (1) the value of "housing costs" and the "imputed rent for owner-occupied dwellings" in Yokohama and the average values of the two costs in the 23 wards of Tokyo, and (2) the housing rental rates in each of Tokyo's special wards and Yokohama as listed on a representative rental real estate site (for a standard 2LDK.)		

Function	Indicator Group	No.	Indicator names	Definitions		
	Environmental Performance	68	Percentage of Waste Recycled	The percentage of waste recycled in the target city or ward. For Tokyo's 23 wards, the average value of special wards of Tokyo is applied.		
		69	CO ₂ Emissions per Daytime Population	The total estimated amount of CO ₂ emissions in the target city or ward divided by daytime population.		
		70	Rate of Self- Sufficient Renewable Energy	The rate of self-sufficient renewable energy use (electric and thermal) in the target city or ward. For the generation of solar, commercial, geothermal, small hydro, and biomass power; biomass heating, solar heat utilization, and geothermal utilization.		
	Natural Environment	71 Q	Satisfaction with Natural Environment	Based on responses from a resident questionnaire regarding the level of satisfaction with the natural environment (mountains, forests, ocean, rivers, green parks, roadside trees etc.) in the target city or ward.		
Environment		72	Green Coverage Ratio in Urban Areas	The total area of green coverage (including rice fields, agricultural fields, forests, vacant land, parks, green tracts, golf courses) divided by the total area of the target city or ward. The total area of the target city or ward is defined as the "urban area", taken from the 5-types of planning areas delineated by the national government.		
		73	Waterfront Areas	The estimated total area of waterfronts divided by the total area of the target city or ward. The estimate is based on the following rules: (1) For areas with polygonal water features (mostly ocean), the area is calculated within a 100m radius from shore; (2) for areas with line-based water features (mostly rivers), the length of line-data within a 100m radius of the shore is calculated and a width of 10m is used to attain the applicable area. (Depending on the data acquisition criteria used, the numerical value of the water area may be 0.)		
		74	Annual Sunshine Hours	The total number of sunshine hours in a one-year period for the target city or ward.		
	Comfortability	75	Number of Comfortable Temperature / Humidity Days	The number of days in a calendar year with a discomfort index score between 60-75 according to the observation point nearest to the target city or ward's primary local government office. The discomfort index is calculated using the average daily temperature as well as the average daily humidity. The discomfort index (DI) is drawn from the following equation: DI=0.81T(temperature)+0.01H(humidity)×(0.99T-14.3)+46.3		
		76	Air Quality	The indexed value of the average daily concentration of Nitrous Oxide and PM2.5 in the air for the target city or ward.		
		77 Q	Cleanliness of Streets	Based on responses from a resident questionnaire asking if the outdoor spaces and streets in their city were kept clean as compared to other cities.		
	Inner-City Transport	78 Q	Convenience of Public Transport	Based on responses from a resident questionnaire regarding the level of satisfaction with public transport (railroad and bus operations, facilities & equipment, service etc.) in the target city or ward.		
		79	Density of Train Stations and Bus Stops	The indexed value of the number of rail and bus stations divided by the total area as defined by city planning in the target city or ward. The number of train stations counted by line.		
		80	Frequency of Traffic Congestion	The average daytime speed of traffic over a 12-hour period on roads (exluding automobile-exclusive roads) traveling out from, and into, the center of the target city or ward.		
	City Accessibility	81	Travel Time to Airports	The average travel time from the target city ward office to airports reachable within two hours. Average travel time was calculated using the following two data points: (1) the shortest access time from each city ward office to the nearest airports as calculated by Google Maps (with a 10am arrival on weekdays, when traveling by car), and (2) the number of passengers per year by airports (total of domestic and international flights.) The average time required for each destination city was calculated based on the number of passengers and the time required at each airport.		
Accessibility		82	Ease of Access to Shinkansen	Calculated based on the following criteria:1) for cities with Shinkansen stations, the total number of passengers using Shinkansen stations (including Yamagata and Akita Shinkansen lines). For cities without Shinkansen stations, the total number of passengers at the Shinkansen station nearest to the target city's biggest (by passenger volume) train station; and 2) for cities with no Shinkansen station, the total travel time from the target city's central station (station with highest passenger volume) to the nearest Shinkansen station (arriving at 10:00am on a weekday by train). For cities with Shinkansen stations, the travel time is set at 0. Data is not recorded for cities from which it would not be possible to reach the Shinkansen station by 10:00am. For stations not recording passenger numbers, additional data was collected.		
		83	Number of Interchanges	The number of general interchanges as well as "smart interchanges".		
	Ease of Mobility	84	City Compactness	The concentration of population divided by the nighttime population expressed as a ratio. The concentration of population is determined by (1) joining the disctricts within the city or ward that show densities above 4,000 people / km², and (2) selecting those adjoined districts that possess populations above 5,000 people according to the national census.		
		85	Commuting Time	The median value for the commuting time of a household's primary supporter in the target city or ward.		
		86 Q	Ease of Use of Bicycles	The number of bicycle ports with the highest number of registered users of bicycle sharing schemes Navitime or RYDE CYCLE , and the percentage residents who answered bicycle in response to a survey asking their primary means of commuting to work or school since the beginning of the coronavirus pandemic.		

Q: Indicators Q using questionnaires



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J a p a n
P o w e r
C i t i e s
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