

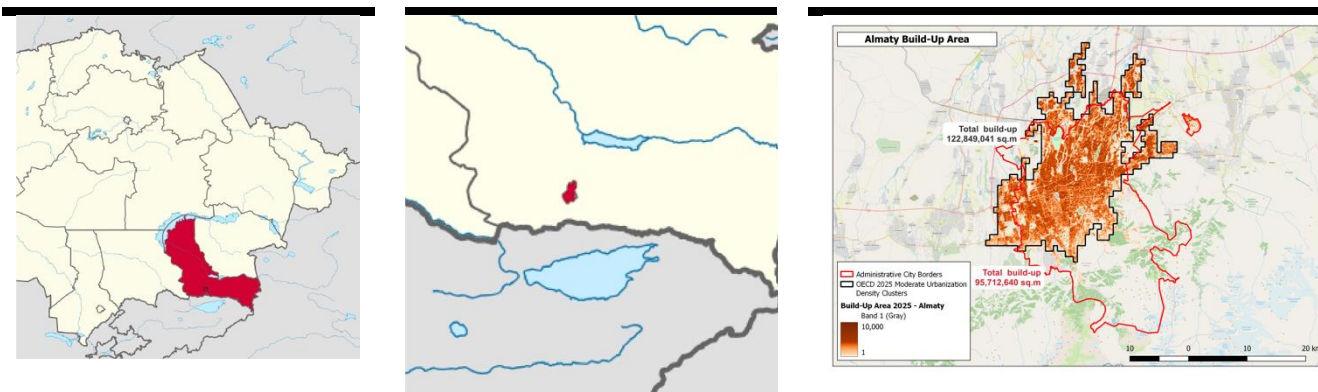


RESILIENCE RATING ON ALMATY

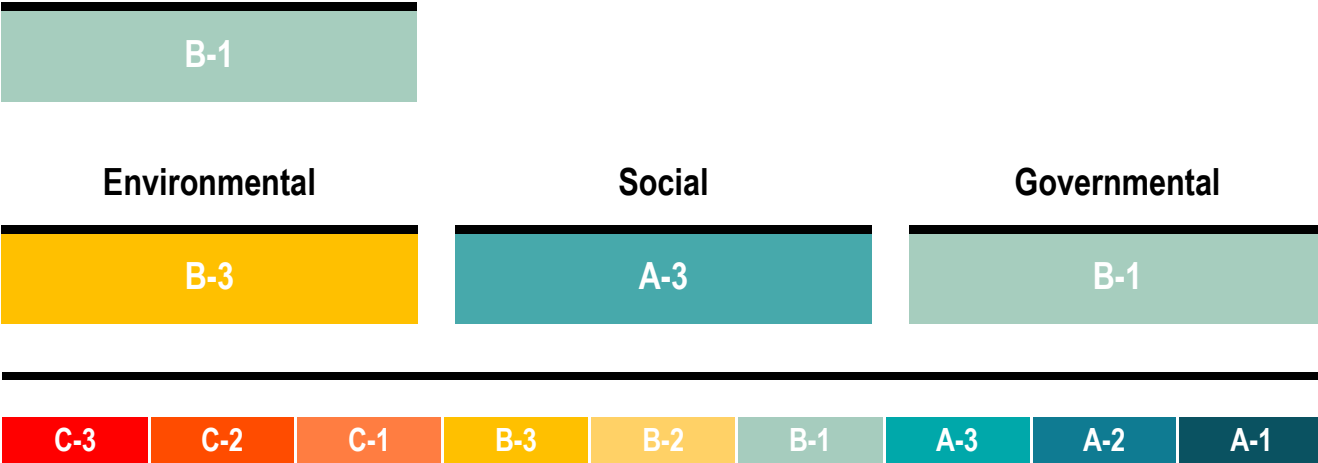
ALMATY, KAZAKHSTAN

Almaty is the largest city in Kazakhstan and is often referred to as the cultural and financial capital of the country. It is located in the southeastern part of Kazakhstan, near the border with Kyrgyzstan.

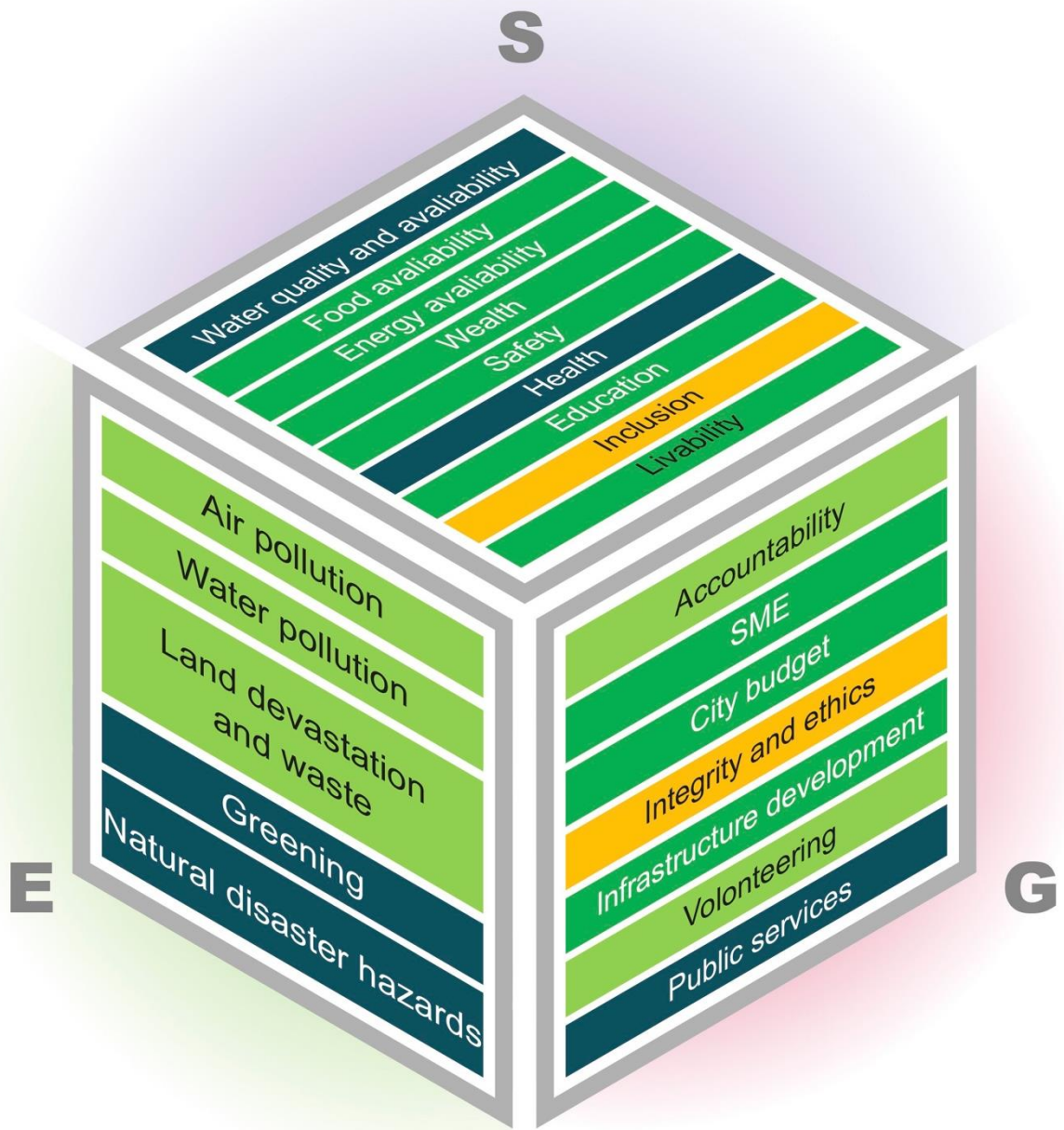
INTEGRAL RATING



Resilience rating score



CATEGORIES' ASSESSMENT



- Almaty rating at B-1 reflects good access to the basic facilities, health and educational services, the city also demonstrates high literacy rate, reasonable safety levels and low share of slums.
- Despite high poverty rates and low level of personal income, gap in wealth distribution was decreasing in the last 3 years.
- Rating level is constrained by growing waste production, and low levels of waste recycling which might be a policy issue. High rates of undernourishment and large share of population spending most of income on food is another constrain. High level of CO₂ emissions derive from a large share of coal in energy generation and transport.
- Despite the fact that livability in the city is relatively high, transportation system quality is lagging far behind best international standards.
- While Almaty is located in earth-quake prone area, it has not experienced any significant issues during the last few years thus the assessment of natural disaster hazards exposure is high.



| ENVIRONMENTAL | |
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| Air pollution | |
| Annual average of SO ₂ concentration in ambient air, microgram/m ³ | |
| Annual Average of SO ₂ Concentration in Ambient Air (change in last 3 years), microgram/m ³ | |
| Annual Average of NO ₂ Concentration in Ambient Air, microgram/m ³ | |
| Annual Average of NO ₂ Concentration in Ambient Air (change in last 3 years), microgram/m ³ | |
| Annual Average of O ₃ Concentration in Ambient Air, microgram/m ³ | |
| Annual Average of O ₃ Concentration in Ambient Air (change in last 3 years), microgram/m ³ | |
| Annual Average of CO Concentration in Ambient Air, microgram/m ³ | |
| Annual Average of CO Concentration in Ambient Air (change in last 3 years), microgram/m ³ | |
| Annual Average of Particulate Matter (PM10) Concentration in Ambient Air, microgram/m ³ | |
| Annual Average of Particulate Matter (PM10) Concentration in Ambient Air (change in last 3 years), microgram/m ³ | |
| Annual average of CH ₄ concentration in ambient air, microgram/m ³ | |
| Annual average of CH ₄ concentration in ambient air (change in last 3 years), microgram/m ³ | |
| CO ₂ concentration, tons per capita, TCO ₂ e/year | |
| CO ₂ concentration, tons per capita (change in last 3 years), TCO ₂ e/year | |
| CO ₂ emissions | |

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| CO ₂ emissions, (change in last 3 years) | |
| Paris Agreement | |
| Water pollution | |
| Annual average of dissolved oxygen (DO) concentration in water | |
| Annual average of pH concentration in water | |
| Land devastation and waste | |
| Share of devastated and degraded land requiring reclamation in total area, % total area | |
| 3-year average growth rate of devastated and degraded land area requiring reclamation, % | |
| Collected and managed in dumps wastes (hazardous and non hazardous), tons per capita | |
| Collected and managed in dumps wastes (hazardous and non hazardous), tons per capita (change in last 3 years) | |
| Total recycled construction waste, tons per capita | |
| Share of recycled construction and demolish waste in total generated construction and demolish waste, % | |
| Waste deposits, % total area | |
| Greening | |
| Green spaces, % | |
| Green spaces, change in last 3 years, % | |
| Natural disaster hazards | |
| Growth rate of freshwater mirror area, % | |
| Share of total area with altitude above sea level less than 0,5 meters, % | |
| Number of registered heavy rain, flood and thunderbolt (change in last 3 years) | |
| Number of registered sand storm (change in last 3 years) | |
| Environmental/natural disasters' risk mitigation | |
| SOCIAL | |
| Health | |
| Human development index | |
| Water quality and availability | |
| Percentage of population with access to drinking water, % | |
| Percentage of population with access to drinking water (change in last 3 years), % | |
| Percentage of population with access to sanitary facilities, % | |
| Percentage of population with access to sanitary facilities (change in last 3 years), % | |
| Water consumption per capita, mcm | |
| Water consumption per capita (change in last 3 years), mcm | |
| Water tariff to disposable income ratio | |
| Sanitary facilities tariff to disposable income ratio | |
| Food availability | |
| Cereal import dependency ratio (5-years average), % | |
| Cereal import dependency ratio (change in last 3 years), | |
| Prevalence of undernourishment (change in last 3 years), % | |
| Prevalence of undernourishment children (change in last 3 years), % | |
| Prevalence of moderate or severe food insecurity in the population, % | |
| Energy availability | |
| Percentage of urban population with access to electricity, % | |
| Percentage of urban population with access to electricity (change in last 3 years) | |
| Consumption of electricity per capita | |

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| Consumption of electricity per capita (change in last 3 years) | |
| Electricity tariff to disposable income ratio | |
| Wealth | |
| Mean salary, 2017 PPP\$ | |
| Mean salary, change in last 3 years | |
| Disposable income | |
| Disposable income (change in last 3 years) | |
| Decile coefficient by income | |
| Decile coefficient by income (change in last 3 years) | |
| Percentage of wealth owned by 10% of the richest population, % | |
| Number of mobile phones per 1 000 population | |
| Debt to salary ratio | |
| Living spaces per capita, sq m (change in last 3 years) | |
| Poverty headcount ratio at national poverty lines (% of population) | |
| Working poverty rate (percentage of employed living below US\$1.90 PPP), 15+ age (%) | |
| Poverty headcount ratio at \$2.15 PPP 2017 a day | |
| Percentage of population with food expenditure is above 52% of total expenditure, % | |
| Safety | |
| Crime rate per 1 000 population | |
| Violent crime rate per 100 000 population | |
| Violent crime rate per 100 000 population (change in last 3 years) | |
| Road fatalities rate per 100 000 population | |
| Road fatalities rate per 100 000 population (change in last 3 years) | |
| Police arrival speed, min | |
| Health | |
| Number of hospital beds per 1000 population | |
| Number of doctors per 1000 population | |
| Life expectancy at birth, years, 3-year average | |
| Life expectancy at birth goals | |
| City ambulance | |
| Child mortality rate (under 5 years-old), % of live births | |
| Education | |
| Literacy rate among population (15—24 Years), % | |
| Literacy rate among population (15—24 Years) (change in last 3 years) | |
| Proportion of population with post-secondary and higher education, % | |
| Pupils per teacher rate | |
| Primary education engagement, % | |
| Inclusion | |
| Female-friendly city | |
| Number of refugees per 1000 population | |
| Social progress Index | |
| Integrity and ethics | |
| Homeless people per 1 000 population | |
| Slavery index | |
| Difference in number of years of schooling between woman and man, woman to man ratio | |
| Livability | |
| Green spaces, % | |
| Green spaces, change in last 3 years, % | |
| Share of green spaces without fee at the entrance, % | |
| Number of LEED certified green buildings (certified square metres per capita) | |
| Number of CEEQUAL certified projects | |

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| Whether or not the city has ISO 37120 certification | |
| Schools availability | |
| Time loss in traffic, % | |
| Public spaces (amusement parks, restaurants, playgrounds, sports fields, dog walking)), % city square | |
| Perception of topic Index | |
| Perception of topic Index dynamics | |
| Public transport (excluding subway) operates by schedule | |
| GOVERNMENTAL | |
| Accountability | |
| City budget execution publication | |
| City budget publication | |
| Financial transparency on city government companies | |
| City ESG reporting | |
| City ESG reporting verification | |
| City council checks and balances | |
| ISO certification | |
| Plans to obtain ISO certification | |
| SME | |
| Number of SMEs per capita/100 000 population | |
| Number of SMEs per capita/100 000 population (change in last 3 years) | |
| Number of start-ups | |
| Number of start-ups (change in last 3 years) | |
| Global Startup Ecosystem Index | |
| City budget | |
| Poor financial condition | |
| Central/higher level government financial intervention taking place | |
| Central/higher level government financial intervention is considered | |
| Prudent fiscal policy requirements | |
| Long-term planning | |
| Medium-term planning | |
| ESG planing | |
| Integrity and ethics | |
| Bribery, corruption & other wrong-doing | |
| Public services | |
| E-gov services | |
| Services for working with citizens' appeals and complaint | |
| Infrastructure development | |
| Internet coverage | |
| Mobile connection coverage | |
| Public services | |
| Free phone to call the police | |
| Free phone to call the ambulance | |
| Free phone to call the firefighters | |