

Appendix 1. Indictors Used in This Study, in Each Domain of Liveability

1	Practical indicators for economic vibrancy and competitiveness (28 indicators)	
1.1	Economic performance	Units
1.1.01	GDP (Gross Domestic Product)	Rial
1.1.02	Province's portion of the country's GDP	Percentage
1.1.03	Average income of urban households	Rial
1.1.04	Average consumption costs in urban households	Rial
1.1.05	The Economic Partnership rate	Percentage
1.1.06	Unemployment rate	Percentage
1.1.07	Resilience of Economy	Index
1.1.08	Gross Fixed Capital Formation	Percentage
1.1.09	Growth Rate of Consumer Price Index (CPI)	Percentage
1.1.10	Inflation rate (communication sector)	Percentage
1.1.11	Inflation rate in urban areas	Percentage
1.1.12	Value-added sub-sectors of the economy	Percentage
1.1.13	The share of credits to promote economic indicators	Percentage
1.2	Economic openness	Units
1.2.01	Foreign Direct Investment	thousand dollars
1.2.02	Ease of Doing Business	Percentage
1.2.03	Tourism Receipts	1000 persons
1.2.04	Hotel Occupancy Rates	Percentage
1.2.05	Stock investment in tourism	Index
1.2.06	The number of hotels and lodgings	10000 persons
1.3	Infrastructure	Units
1.3.01	Telephone Lines (Fixed & Mobile)	Subscriptions per 100 Persons

1.3.02	Investment security index	Index
1.3.03	Computers Ownership	Subscriptions per 100 Persons
1.3.04	Proportion of household with computers	Percentage
1.3.05	Proportion of household with internet access	Percentage
1.3.06	Fixed broadband subscriptions	Number
1.3.07	Information Development Index (IDI)	Index
1.3.08	Level of Internet Access	Percentage
1.3.09	Product price in the communications sector	Rial
2	Practical indicators for environmental friendliness and sustainability (29 indicators)	
2.1	Pollution	Units
2.1.01	Ozone Emission (O ₃)	Micrograms per Cubic Meter
2.1.02	Air quality index (AQI)	Index
2.1.03	PM ₁₀ Annual Mean	Micrograms per Cubic Meter
2.1.04	PM _{2.5} Annual Mean	Micrograms per Cubic Meter
2.1.05	Carbon monoxide Emission	Micrograms per Cubic Meter
2.1.06	Sulphur Dioxide Emission	Micrograms per Cubic Meter
2.1.07	Carbon Dioxide Emission	Micrograms per Cubic Meter
2.1.08	Nitrogen Oxide Emission	Micrograms per Cubic Meter
2.1.09	Modified Drinking Water Quality Index (MDWQI)	Index
2.2	Depletion of natural resources	Units
2.2.01	Electricity Generated from Renewable Sources Solar Energy	Percentage
2.2.02	Electricity Generated from Renewable Sources Biomass energy	Percentage
2.2.03	Electricity Generated from Renewable Sources	Percentage

	Geothermal energy	
2.2.04	Electricity Generated from Renewable Sources Wind energy	Percentage
2.2.05	Electricity Generated from Renewable Sources Hydropower Energy	Percentage
2.2.06	Electricity Generated from Renewable Sources Tidal energy	Percentage
2.2.07	Consumption of Oil	BBL per day
2.2.08	Value added in waste management and wastewater treatment	Thousand Rials
2.2.09	Energy consumption intensity index	Index
2.2.10	Number of electricity consumers (industrial, domestic and agricultural sectors)	100 Persons
2.2.11	Number of natural gas consumers (domestic, commercial and industrial)	100 Persons
2.3	Environmental initiatives	Units
2.3.01	Terrestrial Protected Area	Percentage of Total Territorial Area
2.3.02	Reforestation Rate	Percentage
2.3.03	The average per capita cost of greenhouse gases	thousand rials per ton
2.3.04	The tendency to pay for pollution control equipment	thousand rials
2.3.05	Willingness to pay for equipment to get healthy air	thousand rials per square meter of residential house
2.3.06	Number of treatment plants	Number
2.3.07	Urban Water Branch	per 1000 persons
2.3.08	Population covered by the municipal sewage system	Percentage

2.3.09	Urban green space area	Percentage of Total Territorial Area
3	Practical indicators for domestic security and stability (8 indicators)	
3.1	Crime rate	Units
3.1.01	Number of Homicides Cases	Number per100,000 persons
3.1.02	Number of suicide Cases	Number per100,000 persons
3.1.03	Number of Burglary Cases	Number per100,000 persons
3.1.04	Number of Drug Offences	Number per100,000 persons
3.1.05	Crime Index	Index
3.1.06	Index citizens immunity from invasion	Index
3.1.07	Theft indicators	Index
3.1.08	Social Security Index	Index
4	Practical indicators for socio-cultural conditions (42 indicators)	
4.1	Medical and healthcare	Units
4.1.01	Mortality of children under 5 years	Deaths per 1,000 Live Birth
4.1.02	Life Expectancy	Years
4.1.03	Urban household spending for health care	Percentage
4.1.04	Government spending on health care	Percentage
4.1.05	Density of health centers	Number per 10,000 Persons
4.1.06	Density of active hospital beds	Number per 10,000 Persons
4.1.07	Insurance coverage	Percentage
4.1.08	Density of Physicians	Number per 10,000 Persons
4.1.09	Deaths from chronic diseases	Percentage
4.1.10	Inflation rate in healthcare	Percentage
4.1.11	Density of emergency facilities	Number per 10,000 Persons
4.1.12	Mortality rate	Death per 1,000 Persons

4.2	Education	Units
4.2.01	Quality of Education System	Index
4.2.02	Higher Education Achievement	Percentage
4.2.03	Literacy Rate	Percentage
4.2.04	Household Expenditure on Education	Percentage
4.2.05	Government Expenditure on Education(percent of GDP)	Percentage
4.2.06	Tertiary Enrolment Rate	Percentage
4.2.07	Inflation rate in education	Percentage
4.2.08	Prices of goods and services in the education sector	Rial
4.2.09	Public libraries	Per 10,000 population
4.2.10	Library Development Index	Index
4.2.11	Sports facilities	Per 10,000 population
4.3	Housing, sanitation and transportation	Units
4.3.01	Deaths from road traffic injury	Number Per 100,000 population
4.3.02	Safety and traffic scales	Index
4.3.03	Smart planning and transportation scale	Index
4.3.04	Technical and infrastructure scale of roads	Index
4.3.05	Carrying goods scale	Index
4.3.06	Carrying passengers scale	Index
4.3.07	Quality of Electricity Supply	Index (Capacity per 1000 population)
4.3.08	Inflation rate in Transportation	Percentage
4.3.09	Inflation rate in housing and fuel	Percentage
4.3.10	Development of road transport	Index
4.3.11	Price index of consumer goods and services in transport	Rial

	sector	
4.4	Income equality and demographic burden	Units
4.4.01	GINI Index	Index
4.4.02	Human Poverty Index	Index
4.4.03	Child Dependency Ratio	Ratio
4.4.04	Old Age Dependency Ratio	Ratio
4.4.05	The proportion of households below the poverty line	Ratio
4.5	Diversity and community cohesion	Units
4.5.01	Percentage of Foreigners/Percentage of immigrants	Percentage
4.5.02	Number of other religions	Percentage
4.5.03	Happiness level	Index
4.5.04	Social Capital Index	Index
5	Practical indicators for political governance (6 indicators)	
5.1	Policy making and implementation	Units
5.1.01	Government stability	Index
5.1.02	Government Consumption Expenditure	Percentage
5.1.03	Collected Total Tax Revenues	Percentage
5.2	Government system	Units
5.2.01	Functioning of Government System	Index
5.2.02	Quality of E-Government	Index
5.3	Corruption	Units
5.3.01	Corruption Perceptions Index	Index