Methodological notes

Transition indicators: six qualities of a sustainable market economy

The transition indicators reflect the judgement of the EBRD's Office of the Chief Economist, the Impact and Partnerships department, and the Policy Strategy and Delivery department on the transition progress in the economies where the EBRD invests. According to this approach, a sustainable market economy is characterised by six qualities: competitive, well governed, green, inclusive, resilient and integrated.

This approach measures the state of each quality and its components in a given economy, as compared with the other economies in the EBRD regions and a few select developed economies,¹ against a frontier. The frontier is set either by the best performance in this group of economies or by an unobserved theoretical value, and provides a common benchmark against which all economies are assessed consistently and comparably. The same frontier values are also applied across the years to ensure that computed scores are comparable and capture changes in underlying indicators through time.

Assessment of transition qualities (ATQ) scores are composite indices combining information from a large number of indicators and assessments in a consistent manner. The underlying indicators within each ATQ score are constructed using a wide range of sources, including national and industry statistics, data from other international organisations and affiliated databases (the World Bank, the International Monetary Fund [IMF], the United Nations); surveys (the Business Environment and Enterprise Performance Survey (BEEPS); the Life in Transition Survey (LiTS) and assessments prepared internally by EBRD experts (see Table M.1 below for the list of indicators).

The computation of ATQ indices involves multiple steps, namely: data preparation, normalisation and aggregation. Details of each of these steps are provided below.

Data preparation and treatment of missing observations

The underlying data for the majority of indicators either enter the composite index directly or are scaled using a meaningful related measure. A number of indicators may themselves be composite indices (for example, the EBRD SME index or EBRD Knowledge Economy index) and they enter the ATQ composites in index form. No further transformation is applied to the underlying indicators before normalisation. For some indicators, no data is available for the current year and simple imputation methods are used.² One method of imputation uses the latest available observation from past years, thus assuming that no change from the latest available observation has been observed. When there are no past or present observations available for a particular indicator, then, based on the judgement of EBRD experts, either the regional mean (using the EBRD classification of regions for the economies where it invests) or the observed regional minima are used to impute the missing observations.

To mitigate the effect that extreme values may have on scores, observations that lie above the 98th percentile are considered outliers and replaced by the next value within the acceptable range. Outlier detection and replacement is only applied to select continuous variables.

Normalisation

The raw data for each indicator are normalised to the same scale using the min-max normalisation method as follows:

$$x' = \frac{x - x_{worst}}{x_{best/frontier} - x_{worst}}$$

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² Due to lags in the availability of data, ATQ scores for a given year may not correspond fully to that calendar year. In particular, ATQ scores for 2023 reflect progress in transition based primarily on data available for the years 2021/2022.

¹ The group of comparator developed economies currently includes Canada, Cyprus, France, Germany, Japan, Sweden, the United Kingdom and the United States of

The resulting scores are then rescaled from 1 to 10, where 10 represents the frontier for each quality. The frontier is taken to be the best performance, observed either in an economy where we invest, a comparator economy or a theoretical value determined based on expert judgement.

If an observation for an economy exceeds the selected frontier, then the normalised value of the indicator is capped at the frontier value. For indicators where any deviation from the frontier is undesirable, values either below or above the frontier are treated similarly (the same score is computed and assigned to two observations that are equally distant from the frontier).

Aggregation

Normalised indicators are aggregated to a single composite index (by quality) using weights determined by expert judgement (see Table M.1 for details of weights). A simple weighted averaging method is used for aggregation.

The following tables show, for each quality, the components used in each quality index along with the indicators and data sources that were fed into the final assessments.

TABLE M.1. List of indicators used to compute the ATQ indices

COMPETITIVE							
Components	Sub-components	Indicators	Source	Frontier economy	Frontier value	Worst performance	
Market structures [50%]	-	Applied tariff rates ^a (weighted average) [14%]	World Bank, World Development Indicators (WDI), International Trade Centre, Market Access Map, 2021	Georgia	0.85	17.89	
		Subsidies expense ^a (share of GDP) [14%]	IMF, Government Finance Statistics, 2021	Albania	0.12	7.05	
		Resolving insolvency score [14%]	EBRD assessment, 2022	United States of America	88.38	38.33	
		Number of new business entries (scaled by population) [14%]	World Bank, WDI, 2020	Estonia	19.43	0.04	
		SME index adjusted (1 = worst, 10 = best) [14%]	EBRD assessment, 2019	United Kingdom	7.73	3.52	
		Competition Law, Institutions and Enforcement index adjusted (1 = worst, 10 = best) [14%]	EBRD assessment, 2019	United Kingdom	8.02	4.89	
		Share of advance business services in services exports [14%]	World Bank, WDI, 2021	No economy was at the frontier in 2023	82.01	6.55	
Capacity to generate value added [50%]	-	Economic Complexity Index [14%]	Harvard, Centre for International Development, 2019	Japan	2.27	-1.67	
		Knowledge economy index (KEI) adjusted (1 = worst, 10 = best) [14%]	EBRD assessment, 2019	Sweden	8.02	1.92	
		WB Logistics Performance Index (1 = worst, 5 = best) [14%]	World Bank, WDI, 2022	Germany	4.10	2.06	
		Skills [14%]	World Economic Forum (WEF) Global Competitiveness Index, 2019	No economy was at the frontier in 2023	84.37	42.90	
		Labour productivity (output per worker, GDP in constant 2011 int. US\$ PPP) [14%]	ILOSTAT, WDI, 2022	United States	112,078.29	12,136.45	
		Credit to private sector b (per cent of GDP) [14%]	World Bank, WDI, 2022	Canada*	100.00	10.34	
		Global value chain participation [14%]	UNCTAD, EBRD, 2018	Slovak Republic	0.81	0.31	

WELL GOVERNED						
Components	Sub-components	Indicators	Source	Frontier economy	Frontier value	Worst performance
National level governance [75%]	Quality of public governance [53%]	Regulatory quality (-2.5 = worst, 2.5 = best) [13%]	World Bank Governance Indicators, 2019	No economy was at the frontier in 2023	1.76	-2.10
		Government effectiveness (-2.5 = worst, 2.5 = best) [13%]	World Bank Governance Indicators, 2019	No economy was at the frontier in 2023	1.70	-1.29
		Budget transparency (1 = worst, 7 = best) [6%]	WEF Global Competitiveness Index, 2019	No economy was at the frontier in 2023	92.31	3.00
		Private property protection (1 = worst, 7 = best) [6%]	WEF Global Competitiveness Index, 2019	Japan	6.21	2.87
		Intellectual property protection (1 = worst, 7 = best) [6%]	WEF Global Competitiveness Index, 2019	Japan	5.98	2.91
		Burden of government regulation (1 = worst, 7 = best) [13%]	WEF Global Competitiveness Index, 2019	Azerbaijan	4.83	1.59
		Political instability a [4%]	World Bank/EBRD BEEPS, 2018-20	Montenegro	0.01	0.96
		Political stability and absence of violence and terrorism (-2.5 = worst, 2.5 = best) [4%]	World Bank Governance Indicators, 2019	Sweden	1.03	-2.01
		Political and operational stability [4%]	Global Innovation Index, 2019	No economy was at the frontier in 2023	91.10	14.90
		Government ensuring policy stability (1 = worst, 7 = best) [6%]	WEF Global Competitiveness Index, 2019	Azerbaijan	5.41	1.83
		World press freedom index ^a (100 = least free, 0 = most free) [13%]	Reporters Without Borders, 2023	Sweden	87.84	8.82
		E-government participation [7%]	WEF Global Competitiveness Index, 2019	Japan	0.99	0.07
		Online services index [7%]	UNDESA, 2022	Estonia	0.98	0.09
	Integrity and control of corruption [20%]	Corruption perception index (0 = highly corrupt, 100 = not corrupt) [43%]	Transparency International, 2023	Sweden	82.00	19.00
		Perception of corruption a [14%]	World Bank/EBRD BEEPS, 2018-20	Sweden	2.68	77.91
		Informality ^a [14%]	World Bank/EBRD BEEPS, 2018-20	Sweden	0.00	63.38
		Implementation of anti-money laundering (AML)/combating the financing of terrorism (CFT) and tax exchange standards ^a (0 = low risk, 10 = high risk) [29%]	International Centre for Asset Recovery, 2022	Estonia	3.12	8.30
	Rule of law (27%)	Judicial independence (1 = worst, 7 = best) [22%]	WEF Global Competitiveness Index, 2019	Japan	6.19	1.99
		Efficiency of legal framework in settling disputes (1 = worst, 7 = best) [22%]	WEF Global Competitiveness Index, 2019	No economy was at the frontier in 2023	5.35	1.86
		Efficiency of legal framework in challenging regulations (1 = worst, 7 = best) [22%]	WEF Global Competitiveness Index, 2019	No economy was at the frontier in 2023	5.04	1.79
		Rule of law (-2.5 = worst, 2.5 = best) [22%]	World Bank Governance Indicators, 2019	No economy was at the frontier in 2023	1.75	-1.48
		Effectiveness of courts a [11%]	World Bank/EBRD BEEPS, 2018-20	Montenegro	0.60	45.40
Corporate level governance [25%]	Corporate governance frameworks and practices [100%]	Structure and functioning of the board [20%]	EBRD Legal Transition Team (LTT) Corporate Governance Assessment, 2019	Serbia*	3.55	1.34
		Transparency and disclosure [10%]	EBRD LTT Corporate Governance Assessment, 2019	Lithuania*	4.57	1.41
		Internal control [20%]	EBRD LTT Corporate Governance Assessment, 2019	Lithuania*	4.03	1.33
		Rights of shareholders [20%]	EBRD LTT Corporate Governance Assessment, 2019	Latvia*	4.15	1.99
		Stakeholders and institutions [20%]	EBRD LTT Corporate Governance Assessment, 2019	Estonia*	4.13	0.98
		Strength of auditing and reporting standards (1 = worst, 7 = best) [10%]	WEF Global Competitiveness Index, 2019	No economy was at the frontier in 2023	5.97	3.33

GREEN						
Components	Sub-components	Indicators	Source	Frontier economy	Frontier value	Worst performance
Mitigation (35%)	Physical indicators [37%]	Electricity production from renewable sources, including hydroelectric (per cent of total) [17%]	World Bank, International Energy Agency (IEA), 2022	Albania	0.97	0.00
		Value added from industry (construction, manufacturing, mining, electricity, water and gas) per unit of CO_2 emissions from industry (GVA (US\$)/total CO_2) [17%]	World Bank, IEA, 2020	Sweden	47,005.28	513.44
		MWh consumed per tonne of CO_2 emitted from electricity and heat generation (MWh/total CO_2) [17%]	World Bank, IEA, 2020	Albania	34.36	0.49
		GDP per tonne of CO ₂ emitted from residential buildings (from fuel combustion) (GDP (US\$)/ total CO ₂ [17%]	World Bank, IEA, 2020	Sweden	260,431.65	1,314.96
		Number of registered vehicles per tonne of CO ₂ emitted from transport [17%]	World Health Organization, IEA, 2016	Turkmenistan	9.32	1.46
		Agricultural sector GVA per tonne of GHG emissions from agriculture (GVA (US\$) / total CO ₂ eq) [17%]	World Bank, Food and Agriculture Organization of the United Nations (FAO), 2020	No economy was at the frontier in 2023	2,516.34	43.02
	Structural indicators [63%]	Market support mechanism for renewable energy production (0 = no support, 0.5 = regulatory support, 1 = revenue support) [20%]	IEA, 2022	Canada*	1.00	0.00
		INDC rating (0 for no INDC. 0.5 for INDC but not ratified. 1 for ratified INDC) [20%]	World Resources Institute (WRI), CAIT, 2022	Canada*	1.00	0.00
		Carbon price (0 = worst, 1 = best) [20%]	World Bank, 2021	No economy was at the frontier in 2023	1.00	0.00
		Fossil fuel subsidies (per cent of GDP) ° [20%]	IMF, 2022	Sweden	-0.28	-58.49
		Just Transition Plan [20%]	EBRD assessment, 2021	Germany	1.00	0.00
laptation [30%]	Physical indicators [45%]	NDGAIN human habitat score a [25%]	Notre Dame Global Adaptation Initiative, 2019	Egypt	-0.34	-0.63
	[40,0]	Aqueduct water stress index a	WRI, 2019	Croatia	-0.18	-4.82
		[25%] NDGAIN projected change in	Notre Dame Global Adaptation	Canada*	0.00	-0.98
		cereal yield ^a [25%] Number of people affected by	Initiative, 2018			
		droughts, extreme temperatures, floods and wildfires in the last 10 years ^a (per 100,000 people) [25%]	EM-DAT database, 2022	Jordan	-6.42	-866,271.76
	Structural indicators [55%]	NDGAIN agricultural capacity a [20%]	Notre Dame Global Adaptation Initiative, 2019	Uzbekistan	-0.13	-0.99
	[]	World Governance Indicators: Institutional Quality (-2.5 = worst, 2.5 = best) [40%]	World Bank Governance Indicators, 2019	Sweden*	1.82	-1.61
		Adaptation in INDCs (1 = there is a National Adaptation Plan, 0.5 = adaption is mentioned in INDCs, 0 = none of the above) [40%]	CGSpace, CGIAR, 2022	Czech Republic*	1.00	0.00
ther environmental reas [30%]	Physical indicators [37%]	Population weighted mean annual exposure to PM2.5 ° [22%]	Organisation for Economic Co-operation and Development (OECD), 2019	Estonia*	5.95	88.21
		Waste intensive consumption (kg municipal solid waste/US\$ household expenditure) ^a [22%]	Waste Atlas, 2015	Japan	0.01	0.33
		Waste generation per capita (kg/cap) ª [22%]	Waste Atlas, 2015	Armenia	149.70	777.00
		Number of animal (terrestrial and marine) species threatened as proportion of total number assessed ^a [17%]	IUNC Red list, 2020	Estonia*	0.04	0.18
		Number of plant (terrestrial and marine) species threatened normalised by total number assessed ^a [17%]	IUNC Red list, 2020	Mongolia	0.00	0.27
	Structural indicators	Vehicle emission standards (0 = worst, 6 = best) [34%]	UN Environment Programme, 2021	Bulgaria*	6.00	0.00
	[63%]	Municipal solid waste collected (per cent of total generated) [34%]	Waste Atlas, 2015	Czech Republic*	100.00	20.00
		Proportion of terrestrial protected area (per cent of total area) [16%]	World Bank, 2022	Bulgaria	40.59	0.22
		Proportion of marine protected areas (per cent of total area) [16%]	World Bank, 2022	No economy was at the frontier in 2023	213.43	0.00
cross-cutting [5%]		Number of environmental technology patents (per cent of GDP (billion US\$)) [100%]	OECD, 2017	Japan	0.97	0.00

INCLUSIVE						
Components	Sub-components	Indicators	Source	Frontier economy	Frontier value	Worst performance
Human capital development [33%]		Labour force participation rate (% of population aged 15+) [11%]	ILOSTAT, modelled estimates, 2023	No economy was at the frontier in 2023	70.33	38.94
		Labour force participation rate (gap women/men) [11%]	ILOSTAT, modelled estimates, 2023	No economy was at the frontier in 2023	1.00	0.21
		Output per worker (GDP constant 2017 international \$ in PPP) [11%]	ILOSTAT, 2022	No economy was at the frontier in 2023	131,111.92	12,136.45
		Youth not in education, employment or training (% of youth population) * [11%]	ILOSTAT, 2022	No economy was at the frontier in 2023	2.97	38.44
		Human Capital Index [11%]	World Bank, WDI, 2021	No economy was at the frontier in 2023	0.84	0.41
		Firms offering formal training to employees (% firms) [11%]	World Bank, WDI, 2019	No economy was at the frontier in 2023	70.30	3.40
		Individuals with standard ICT skills (% of population aged 15+) [11%]	International Telecommunications Union (ITU), 2020	No economy was at the frontier in 2023	47.17	2.85
		Workers employed in occupations at risk of automating (%) ^a [11%]	OECD, EBRD calculations, 2019	Jordan	0.38	0.53
		Workers employed in carbon- intensive sectors (%) ° [11%]	Bruegel, EBRD calculations, 2019	No economy was at the frontier in 2023	0.03	0.14
Access to finance and services [33%]		Saving at financial institutions (% of population aged 15+)[14%]	World Bank Financial Inclusion Database (FINDEX), 2021	Sweden	79.74	0.12
		Borrowing from financial institutions (% of population aged 15+) [14%]	World Bank FINDEX, 2021	No economy was at the frontier in 2023	82.83	0.84
		Fixed broadband subscriptions (% of population) [14%]	ITU, 2021	France	48.76	0.06
		Cost of a 5GB fixed broadband basket (% GNI per capita) * [14%]	ITU, 2021	Croatia	2.00	-12.08
		Logistics performance index: Quality of trade and transport- related infrastructure [14%]	World Bank, WDI, 2022	No economy was at the frontier in 2023	4.44	1.90
		Using safely managed drinking water services (% of population) [14%]	World Bank, WDI, 2020	Greece	100.00	28.64
		Using safely managed sanitation services (% population) [14%]	World Bank, WDI, 2020	No economy was at the frontier in 2023	98.31	12.18
Policies and norms [33%]		Social benefit spending by the government (% of GDP) [20%]	IMF IFS, 2021	No economy was at the frontier in 2023	28.75	2.50
		Equal treatment and absence of discrimination [20%]	World Justice Project, 2022	No economy was at the frontier in 2023	0.84	0.34
		Women, Business and the Law composite score [20%]	WDI, 2022	Canada*	100.00	26.25
		Disagreeing that "it is better for everyone involved if the man earns the money and the woman takes care of the home and children" (% population) [20%]	LiTs, 2016	Canada*	0.92	0.05
		Women subjected to physical and/or sexual violence in the last 12 months (% female population) ^a [20%]	WDI, 2016	Slovenia	2.00	28.80
RESILIENT						
Components	Sub-components	Indicators	Source	Frontier economy	Frontier value	Worst performance
Energy sector resilience [30%]	Liberalisation and market liquidity [50%]	Sector restructuring, corporatisation and unbundling (0 = worst, 0.67 = best) [33%]	EBRD assessment, 2022	Estonia*	0.67	0.00
		Fostering private-sector participation (0 = worst, 0.67 = best) [33%]	EBRD assessment, 2022	United States*	0.67	0.00
		Tariff reform (0 = worst, 0.67 = best) [33%]	EBRD assessment, 2022	Czech Republic*	0.67	0.00
	System connectivity [20%]	Domestic connectivity (0 = worst, 0.67 = best) [35%]	EBRD assessment, 2022	Czech Republic*	0.67	0.09
		Inter-country connectivity (0 = worst, 0.67 = best) [65%]	EBRD assessment, 2022	Germany*	0.67	0.00
	Regulation and legal framework [30%]	Development of an adequate legal framework (0 = worst, 0.67 = best) [50%]	EBRD assessment, 2022	Czech Republic*	0.67	0.00
		Establishment of an empowered independent energy regulator (0 = worst, 0.67 = best) [50%]	EBRD assessment, 2022	Czech Republic*	0.67	0.00

Financial stability [70%]	Banking sector health and intermediation [50%]	Capital adequacy ratio [9%]	IMF Financial Soundness Indicators (FSI), IMF Article IV, IHS Markit, National Authorities, Fitch Ratings' Sovereign Data Comparator, EBRD FI Risk Reports, 2022	Moldova*	0.28	0.06
		Return on assets [9%]	IMF FSI, IMF Article IV, IHS Markit, National Authorities, Fitch Ratings' Sovereign Data Comparator, EBRD FI Risk Reports, 2022	Türkiye*	4.20	-12.47
		Loan to deposits ratio °[9%]	IMF FSI, IMF Article IV, IHS Markit, National Authorities, Fitch Ratings' Sovereign Data Comparator, EBRD FI Risk Reports, 2022	No economy was at the frontier in 2023	1.00	0.33
		Non-performing loans (NPLs) to total gross loans (per cent) ^a [9%]	IMF FSI, IMF Article IV, IHS Markit, National Authorities, Fitch Ratings' Sovereign Data Comparator, S&P BICRA, EBRD FI Risk Reports, 2022	Canada*	0.50	54.82
		Loan loss reserves to NPLs (Provisions to NPLs) ^b [9%]	IMF FSI, IHS Markit, National Authorities, EBRD FI Risk Reports, 2022	United States*	100.00	15.14
		Asset share of five largest banks ^a [9%]	World Bank Global Financial Development Database (GFDD), IMF FSSA, EBRD FI Risk Reports, 2021	Japan	43.88	100.00
		Asset share of private banks [9%]	World Bank GFDD, EBRD FI Risk Reports, IMF Article IV, IMF FSSA, Bank Focus, 2021	Canada*	100.00	0.00
		Financial sector assets ° (per cent of GDP) [9%]	IMF FSI, EBRD, Internal Sovereign Risk Report, Bank Focus, National Authorities, IHS Markit, 2021	Albania	100.00	28.00
		Credit to private sector ° (per cent of GDP) [9%]	World Bank GFDD, S&P BICRA, IMF Article IV, WDI, 2022	No economy was at the frontier in 2023	80.00	4.02
		Foreign currency-denominated loans ^a (per cent of total loans) [9%]	IMF FSI, IMF Article IV, IHS Markit, National Authorities, 2022	United States*	0.00	-98.65
		Liquid assets to short-term liabilities (per cent) [9%]	IMF FSI, World Bank GFDD, IMF Article IV, National Authorities, EBRD FI Risk Overview, 2022	United States*	241.80	15.54
	Alternative sources of financing [32%]	Other financial corporation's assets ^b (per cent of GDP) [14%]	IMF FSI, World Bank GFDD, IMF Article IV, National Authorities, EBRD FI Risk Overview, IMF FSSA, AFDB, 2022	Canada*	100.00	0.32
		Legal environment for financial transactions [14%]	ISDA, ICMA, 2020	United States*	2.50	0.00
		Capital market infrastructure [14%]	EBRD assessment, 2020	United States*	1.00	0.00
		Investor base [14%]	OECD, IMF, Bloomberg, Swiss RE, WEF, IMF, ECB, S&P (SNL), 2020	No economy was at the frontier in 2023	0.92	0.00
		Market capitalisation ^b [5%]	WEF, IMF, Bloomberg, local stock exchanges, 2020	United States*	100.00	0.00
		Trading to market cap ^b [5%]	WEF, IMF, Bloomberg, local stock exchanges, 2020	United States*	100.00	0.00
		IPO ^b [5%]	WEF, IMF, Bloomberg, local stock exchanges, 2020	No economy was at the frontier in 2023	0.00	0.00
		FI debt ^b [4%]	Cbonds, IMF, 2020	United States*	0.10	0.00
		Non-Fl debt ^b [4%]	Cbonds, IMF, 2020	United States*	0.15	0.00
		Debt diversity [7%]	Vanguard Investment, ICMA, 2020	United States	7.00	0.00
		Money market quality [14%]	EBRD assessment, 2020	United States*	1.00	0.00
	Regulation governance and safety nets [18%]	Is there a well-functioning deposit insurance scheme? (1 = worst, 10 = best) [25%]	EBRD assessment, 2020	Czech Republic*	10.00	1.00
		Do the banks have good risk management and corporate governance practices? (1 = worst, 10 = best) [25%]	EBRD assessment, 2020	Czech Republic*	10.00	1.00
		Is there an adequate legal and regulatory framework in place? (1 = worst, 10 = best) [25%]	EBRD assessment, 2020	Czech Republic*	10.00	1.00
		Is the supervisory body independent and competent? (1 = worst, 10 = best) [25%]	EBRD assessment, 2020	Czech Republic*	10.00	1.00

INTEGRATED						
Components	Sub-components	Indicators	Source	Frontier economy	Frontier value	Worst performance
External integration [50%]	Trade openness [33%]	Total trade volume (per cent of GDP, five-year moving average) [50%]	World Bank, WDI, 2022	Slovak Republic	186.08	25.26
		Number of Regional Trade Agreements [17%]	World Trade Organization (WTO), 2022	Czech Republic	46.00	1.00
		Binding overhang ratio ^a , ^b (%) [17%]	WT0, 2021	Germany*	0.00	142.30
		Number of non-tariff measures ^a [17%]	WT0, 2021	No economy was at the frontier in 2023	0.00	-5,439.00
	Investment openness [33%]	FDI net inflows (per cent of GDP, five-year moving average) [50%]	IMF, International Investment Position Statistics, 2022	Hungary*	0.10	-0.01
		Number of bilateral investment agreements [25%]	UNCTAD, 2022	No economy was at the frontier in 2023	183.00	8.00
		FDI Restrictiveness indicator ^a [25%]	0ECD, 2020	Slovenia	0.01	0.29
	Portfolio openness [33%]	Non-FDI inflows (per cent of GDP, five-year moving average) [50%]	IMF, International Investment Position Statistics, 2022	Cyprus	0.06	-0.02
		Financial openness index (Chinn-Ito) [50%]	Chinn-Ito webpage, 2020	United States*	2.31	-1.93
nternal integration 50%]	Domestic transport	Road connectivity a [25%]	EBRD assessment, 2019	United States	107.53	309.27
50%]	[33%]	Quality of non-road transport infrastructure [25%]	WEF Global Competitiveness Index, 2019	Japan	89.92	24.25
		Competence and quality of logistics services (1 = worst, 5 = best) [13%]	World Bank, LPI database, 2022	No economy was at the frontier in 2023	4.31	1.96
		Tracking and tracing of consignments (1 = worst, 5 = best) [13%]	World Bank, LPI database, 2022	No economy was at the frontier in 2023	4.38	1.84
		Timeliness of shipments (1 = worst, 5 = best) [13%]	World Bank, LPI database, 2022	No economy was at the frontier in 2023	4.45	2.04
		Proportion of products lost to breakage or spoilage during shipping ^a [13%]	World Bank/EBRD BEEPS, 2018-20	Estonia	0.00	-1.70
	Cross-border transport [33%]	Quality of customs and border management, trade and transport infrastructure and ease of arranging shipments (1 = worst, 5 = best) [50%]	World Bank, LPI database, 2022	No economy was at the frontier in 2023	4.14	1.95
		Cost of trading across borders [50%]	ESCAP-World Bank trade cost database, 2020	No economy was at the frontier in 2023	107.97	392.08
	Energy and ICT [33%]	Quality of electricity supply (1 = worst, 7 = best) [25%]	WEF Global Competitiveness Index, 2017	No economy was at the frontier in 2023	6.78	1.65
		Electric power transmission and distribution losses as percentage of domestic supply * [25%]	IEA, 2019	No economy was at the frontier in 2023	2.34	23.73
		Broadband subscription (per 100 habitants) [13%]	ITU, 2021	France	48.76	0.06
		Number of internet users (per cent of population) [13%]	ITU, 2021	No economy was at the frontier in 2023	96.97	19.80
		Level of competition for internet services (50 = monopoly, 75 = partially competitive, 100 = competitive) [6%]	World Bank, The Little Data Book, 2017	Canada*	100.00	50.00
		Mobile broadband basket price ^a [6%]	ITU, 2022	Lithuania	0.07	3.73
		International internet bandwidth per internet user [6%]	ITU, 2021	Bulgaria*	336,635.01	0.00
		4G coverage (per cent of population) [6%]	ITU, 2021	Poland*	100.00	80.00

Additional economies are at the frontier. Further information is available on request.
a Inverted before normalisation.
b Capped at frontier.
c Mirrored from frontier.