

**Supplementary material Table S1: 139 indicators collected for Sustainability Child Development Index**

Theme	Subtheme	Criteria	Indicator	Data availability		Source
				Covered country	Level	
Health	Nutrition	Low birth weight	Percentage of infants born with low birth weight (< 2,500 g)	187	Very high	[1]
		Overweight and obesity	Overweight (including obesity, %)	146	Medium	
			Percentage of 11, 13, 15-year-olds who report that they are overweight or obese according to BMI	32	Very low	[2]
		Breastfeeding	Exclusive breast feeding < 6 months (%)	167	High	
		Underweight	Underweight (moderate and severe, %)	148	Medium	
		Stunting	Stunting (moderate and severe, %)	147	Medium	
		Wasting	Wasting (moderate and severe, %)	147	Medium	
	Child mortality	Infant mortality	Infant mortality rate (probability of dying between birth and age 1 per 1,000 live births)	195	Top	[1]
		Under-five mortality	Under-five mortality rate (probability of dying by age 5 per 1,000 live births)	195	Top	
		Neonatal mortality	Neonatal mortality rate (during the first 28 completed days, per 1,000 live births)	195	Top	
	Injury	Medically attended injuries	Percentage of 11, 13, 15-year-olds who report at least one medically attended injury in the last 12 months	32	Very low	[2]
	Subjective health	Self-rated health	Percentage of 11, 13, 15-year-olds who rate their own health no more than 'fair' or 'poor'	32	Very low	
			Percentage of 11, 13, 15-year-olds who report multiple health complaints more than once a week (in past six months)	32	Very low	

	Oral health	Dental treatments	DMFT (decayed, missing or filled teeth) among 12-year-olds	180	Very high	[3]
	Mental health	Suicide	Suicide rate, 15-29 year-olds, per 100,000	171	High	[4]
	Hazardous pollutant	Household and ambient air pollution	Mortality rate attributed to household and ambient air pollution (per 100,000 population)	172	High	[5]
		PM2.5 exposure	PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total)	187	Very high	
	HIV	HIV prevalence among youth	Estimated percentage of young men and women (aged 15-24) living with HIV	128	Medium	[6,7]
		Mother-to child transmission preventing	Estimated percentage of pregnant women living with HIV delivering who received ARVs for PMTCT	83	Low	[1]
	Malaria	Children under five sleeping under nets	Children under 5 sleeping under an insecticide treated net (ITN)	60	Low	
		Children under five fever with treatment	Children aged <5 years with fever who received treatment with any antimalarial	64	Low	
	Immunization coverage	Measles containing vaccine (MCV) immunization	Measles (MCV) immunization coverage among 1-year-olds (%)	195	Top	[1]
		Diphtheria tetanus toxoid and pertussis (DTP3) immunization	Diphtheria tetanus toxoid and pertussis (DTP3) immunization coverage among 1-year-olds (%)	195	Top	
		Polio (Pol3)	Polio (Pol3) immunization coverage among 1-year-	195	Top	

		immunization	olds (%)			
		Hepatitis B (HepB3) immunization	Hepatitis B (HepB3) immunization coverage among 1-year-olds (%)	185	Very high	
		Bacillus Calmette-Guérin (BCG) immunization	Bacille Calmette-Guérin (vaccine against tuberculosis) immunization coverage among 1-year-olds (%)	164	High	
	Risk behavior	Tobacco use	Percentage of 11, 13, 15-year-olds who smoke at least once a week	32	Very low	[2]
			Percentage of 15-year-olds who report first smoking at age or younger	32	Very low	[2]
		Alcohol use	Percentage of 15-19 years old heavy episodic drinkers	189	Very high	[5]
			Percentage of 15 -year-olds who report first drunkenness at age 13 or younger	32	Very low	[2]
			Percentage of 11, 13, 15-year-olds who have been drunk at least twice	32	Very low	
		Adolescent fertility	Adolescent fertility rate (per 1,000 girls aged 15-19 years)	184	Very high	[8]
		Cannabis use	Percentage of 15-year-olds who have used cannabis in the last 30 days	32	Very low	[2]
			Percentage of 15-year-olds who have ever used cannabis	32	Very low	
		Contraceptive prevalence	Contraceptive prevalence among girls aged 15-19	87	Low	[5]
			Proportion of 15-year-olds having had sexual intercourse that reported using a condom during their last intercourse	32	Very low	[2]
			Percentage of 15-year-olds who used the contraceptive pill at last sexual intercourse	32	Very low	
		Prevalence of sexual activity	Percentage of 15-year-olds who have had sexual intercourse	32	Very low	

		in youth				
	Eating and physical behavior	Eating behavior	Percentage of 11, 13, 15-year-olds who eat breakfast every school day	32	Very low	
			Percentage who eat fruit daily	32	Very low	
		Physical activity	Percentage of 11, 13, 15-year-olds who report at least one hour of moderate-to-vigorous physical activity daily	32	Very low	
			Comparable estimates of prevalence of insufficient physical activity (adolescents 11-17 years)	120	Medium	[9]
	Maternal health	Antenatal care	Percentage of women aged 15-49 years attended at least four during pregnancy by skilled health personnel (doctor, nurse or midwife)	149	Medium	[1]
		Maternal mortality	Maternal mortality ratio (MMR, maternal deaths per 100,000 live births)	183	Very high	
		Skilled attendant at birth	Percentage of births attended by skilled health personnel (doctor, nurse or midwife)	168	High	
	Health expenditure	Public health expenditure	Public health expenditure as % of total health expenditure	190	Very high	[5,8]
	Water and sanitation	Access to improved sanitation facilities coverage	Improved sanitation facilities (% of population with access)	191	Very high	[8]
		Access to improved drinking water coverage	Population using improved drinking-water sources (%)	193	Very high	[1,5]
Education	School attainment	Mathematical literacy	Average achievement in mathematical literacy	59	Low	[10]
		Reading	Average achievement in reading literacy	59	Low	

		literacy				
		Overall literacy	Youth literacy rate, population 15-24 years, both sexes (%)	151	High	[11]
		Repetition	Repetition rate in primary education (all grades), both sexes (%)	165	High	
	Transition to employment	Idle youth	Proportion of 15-29 year olds not in employment, education or training (NEET)	42	Very low	[12]
	Subjective evaluation	Satisfaction of school	Percentage of young people ‘liking school a lot’	32	Very low	[2]
			Percentage of 11, 13, 15-year-olds who report good or very good perceived school performance	32	Very low	
		Pressure from school work	Percentage of 11, 13, 15-year-olds who feel pressured by schoolwork	32	Very low	
	Completion of education	Primary school completion	Gross graduation ratio from primary education, both sexes	107	Medium	[11]
		Secondary school completion	Gross graduation ratio from lower secondary education, both sexes (%)	140	Medium	
		Tertiary school completion	Gross graduation ratio from first degree programmes (ISCED 6 and 7) in tertiary education, both sexes (%)	120	Medium	
	Attendance of education	Enrolment in primary school	Gross enrolment ratio, primary, both sexes (%)	191	Very high	[11]
		Enrolment in secondary school	Gross enrolment ratio, secondary, both sexes (%)	188	Very high	
		Enrolment in tertiary school	Gross enrolment ratio, tertiary, both sexes (%)	175	Very high	
	Early childhood education	Enrolment of kindergarten	Gross enrolment ratio, pre-primary, both sexes (%)	187	Very high	
	Parents' education	Parent's	Percentage of children in households in which	41	Very low	[13]

	nal qualification	formal educational level	household head has a secondary education			
	Government support on education	Public expenditure on education	Government expenditure on education as % of GDP	179	Very high	[11]
	Provision of vocational school	Attendance of vocational education	Young VET graduates in further education and training (%)	33	Very low	[14]
			Initial-education-and-training students as a % of all upper-secondary students	33	Very low	
			Adults in lifelong learning (%)	33	Very low	
	Gender equality	Gender equality in enrolment	Gross enrolment ratio, pre-primary, gender parity index (GPI)	176	Very high	[11]
			Gross enrolment ratio, primary, gender parity index (GPI)	190	Very high	
			Gross enrolment ratio, secondary, gender parity index (GPI)	187	Very high	
			Gross enrolment ratio, tertiary, gender parity index (GPI)	177	Very high	
		Gender equality in graduation	Gross graduation ratio from primary education, gender parity index (GPI)	134	Medium	
			Gross graduation ratio from lower secondary education, gender parity index (GPI)	134	Medium	
			Gross graduation ratio from first degree programmes (ISCED 6 and 7) in tertiary education, gender parity index (GPI)	137	Medium	
		Gender equality in youth literacy	Youth literacy rate, population 15-24 years, gender parity index (GPI)	152	High	
Safety	Violence and crime	Juvenile delinquency	Juveniles held in prisons, penal institutions or correctional institutions	108	Medium	[15][15]

			Persons prosecuted, % of juvenile	80	Low	
			Persons convicted, % of juvenile	80	Low	
			Juveniles brought into formal contact with the police and/or criminal justice system, all crimes	108	Medium	
			Juveniles convicted, all crimes	92	Low	
		Bully in school	Percentage of 11, 13, 15-year-olds who have bullied others at school at least twice in the past couple of months	32	Very low	[2]
		Fighting	Percentage of 11, 13, 15-year olds who have been involved in a physical fight at least three times in the last months	32	Very low	
	Violence and crime	Being bullied	Percentage of 11, 13, 15-year-olds who have been bullied at school at least twice in the past couple of months	32	Very low	[2]
		Criminal victimization	Intentional homicide count and rate per 100,000 population	195	Top	[15]
			Assault and major assault rates in different countries (police recorded assaults/100,000 population)	128	Medium	
		Family violence	Percentage of boys and men 15-49 years old who consider a husband to be justified in hitting or beating his wife for at least one of the specified reasons, i.e., if his wife burns the food, argues with him, goes out without telling him, neglects the children or refuses sexual relations	62	Low	[1]
		Sexual violence against children	Total sexual offences against children at the national level, police-recorded offences, rate per 100,000 children aged 17 or under	102	Medium	[15]
			Sexual violence prevalence among girls and boys aged 15 to 19 years	40	Very low	[1]

	Child care arrangement	Formal care	Formal childcare by age group and duration - % over the population of each age group (0-3, 30 hours per week or over)	31	Very low	[16]
			Formal childcare by age group and duration - % over the population of each age group (3-minimum school age, 30 hours per week or over)	31	Very low	
	Violent discipline	Psychological aggression and/or punishment	Percentage of children 2-14 years old who experience any violent discipline (psychological aggression and/or physical punishment)	61	Low	[1]
	Birth registration	Registration of newborns	Birth registration rate	166	High	
	Child labor	Children involved in child labor	Percentage of children 5-14 years old involved in child labor	112	Medium	
	Child marriage	Children married or in union	Percentage of women aged 20 to 24 years who were first married or in union before age 18	123	Medium	
	Female genital mutilation	Girls received genital mutilation	Percentage of girls aged 0 to 14 years who have undergone FGM/C (as reported by their mothers)	19	Very low	
	Demographic structure	Sex ratio	Sex ratio at birth	191	Very high	[17]
Economic status	Relative household income poverty	Children living in households with income under national median	Percentage of children living in households with equivalent income lower than 50% of national median	39	Very low	[12]
			Poverty gap at national poverty lines (%)	82	Low	[8]



	Household without job	Children living in jobless families	Proportion of children living in jobless families	31	Very low	[12]
	Material deprivation	Fewer than ten books	Percentage of children age 15 reporting less than 10 books in the home	28	Very low	[18]
		Few educational resource	Percentage of children age 15 reporting less than six educational possessions	28	Very low	
		Low family affluence	Percentage of children age 11, 13 and 15 reporting low family affluence	28	Very low	
		Lack of needed items	Material Deprivation rate, 0-18 years old	34	Very low	[16]
	Housing quality	Electricity coverage	Access to electricity (% of population)	191	Very high	[8]
		Housing quality	Share of total population living in a dwelling with a leaking roof, damp walls, floors or foundation, or rot in window frames of floor	34	Very low	[16]
			Share of total population having neither a bath, nor a shower in their dwelling	34	Very low	
			Share of total population not having indoor flushing toilet for the sole use of their household	34	Very low	
		Crowded household	Overcrowding rate, 0-18 years old	33	Very low	
	Macroeconomic situation	Overall unemployment	Unemployment, total (% of total labor force) (modeled ILO estimate)	170	High	[8]
		Youth unemployment	Youth unemployment rate (% of total labor force ages 15-24)	170	High	

		Income equality at societal level	Income Gini coefficient	156	High	[19]
		National income	GNI per capita, Purchasing power parity (current international \$)	183	Very high	[8]
		National debts	Public debt as percentage of GDP	179	Very high	[17]
Relationship	Family relationship	Relation with parents	Percentage of children who report eating the main meal of the day with parents more than once a week	29	Very low	[10,18]
			Percentage of children who report that parents spend time 'just talking' to them	29	Very low	
			Percentage of 11, 13, 15-year-olds who find it easy to talk to their mothers	32	Very low	[2]
			Percentage of 11, 13, 15-year-olds who find it easy to talk to their fathers	32	Very low	
		Family engagement	Getting together with relatives every week, 16-19 years old	28	Very low	[16]
		Family structure	Percentage of children living in single-parent family	61	Low	[2,13]
			Percentage of children living in stepfamily	34	Very low	[18]
			Percentage of Children Living with Probable Extended Family (Adults in Addition to Parents)	41	Very low	[13]

			Percentage of children living in both-parents family	61	Low	[2,13]
	Community relationship	Social capital	Social Capital Ranking	140	Medium	[20,21]
	Peer relationship	Kind and helpful peer	Percentage of 11, 13 and 15 year-olds who report finding their peers 'kind and helpful'	32	Very low	[2]
		Peer engagement	Percentage of 11, 13, 15-year-olds who have three or more close friends of the same gender	32	Very low	
			Percentage of 11, 13, 15-year-olds who spend four or more evenings per week out with friends	32	Very low	
			Percentage of 11, 13, 15-year-olds who have daily EMC with friends	32	Very low	
			Getting together with friends every week, 16-19 years old	28	Very low	[16]
Participation	Engagement of community activities	Participation of community activities	Participation of young people in informal voluntary activities, 16-19 years old	27	Very low	
	Voting of presidential elections	Youth voting engagement	Voter turnout in latest parliamentary election	29	Very low	[12]
	Social media connection	Telephone access in home	Proportion of households with mobile phone	64	Low	[22]
			Proportion of households with fixed line phone	65	Low	
		Internet access in home	Proportion of households with internet access at home	138	Medium	
		Access to public media	Proportion of households with computer	126	Medium	
			Proportion of households with radio	55	Low	

			Proportion of households with TV	66	Low	
Environmental aspects	Fresh water vulnerability	Risk of depleting freshwater resources	Water depletion index (WDI)	192	Very high	[23]
	Renewable energy consumption	Consumption of renewable energy	Renewable energy consumption (% of total final energy consumption)	180	Very high	[8]

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