

Supplementary material Table S2: The relation of the initial indicator set of the SCDI to the SDG indicator development

SCDI theme	SCDI subtheme	SDG	SCDI criteria	SDG target	SCDI indicator	Data availability		Tier for SDG Indicator	Source
						Covered country	Level		
Health	Nutrition	2	Low birth weight	2.1	Percentage of infants born with low birth weight (< 2500 g)	182	Very high	-	UNICEF [1]
			Overweight and obesity	2.2	Overweight (including obesity, %)	146	Medium	I	
			Breast feeding	2.1	Exclusive breastfeeding < six months (%)	167	High	-	
			Underweight	2.2	Underweight (moderate and severe, %)	155	Medium	I	
	Child mortality	3	Infant mortality	3.2	Infant mortality rate (probability of dying between birth and age one per 1000 live births)	195	Top	-	
			Under-five mortality		Under-five mortality rate (probability of dying by age five per 1000 live births)	195	Top	I	
			Neonatal mortality		Neonatal mortality rate (during the first 28 completed days, per 1000 live births)	195	Top	I	
	Oral health	3	Dental treatments	3.4	DMFT (decayed, missing or filled teeth) among 12-year-olds	180	Very high	-	Malmö University Oral Health Database [2]
	Mental health	3	Suicide	3.4	Suicide rate, 15-29 year-olds, per 100,000	171	Very high	II	WHO [3]
	Hazardous pollutant	3	Household and ambient air pollution	3.9	Mortality rate attributed to household and ambient air pollution (per 100,000 population)	172	High	I	WHO [4]
		11	PM2.5 air pollution	11.6	PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total)	185	Very high	I	

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Health	Immunization coverage	3	Measles containing vaccine (MCV) immunization	3.8	Measles (MCV) immunization coverage among one-year-olds (%)	195	Top	-	UNICEF [1]
			Diphtheria tetanus toxoid and pertussis (DTP3) immunization		Diphtheria tetanus toxoid and pertussis (DTP3) immunization coverage among one-year-olds (%)	195	Top	-	
			Polio (Pol3) immunization		Polio (Pol3) immunization coverage among one-year-olds (%)	195	Top	-	
			Hepatitis B (HepB3) immunization		Hepatitis B (HepB3) immunization coverage among one-year-olds (%)	186	Very high	-	
			Bacillus Calmette-Guérin (BCG) immunization		BacilleCalmette-Guérin (vaccine against tuberculosis) immunization coverage among one-year-olds (%)	163	High	-	
	Risk behavior	3	Alcohol use	3.5	Percentage of 15-19 years old heavy episodic drinkers	189	Very high	I	WHO; World Bank [4,5]
			Adolescent fertility	3.7	Adolescent fertility rate (per 1000 girls aged 15-19 years)	184	Very high	II	
	Physical behavior	3	Physical activity	3.4	Comparable estimates of prevalence of insufficient physical activity (adolescents 11-17 years)	120	Medium	-	WHO [6]
	Maternal health	3	Antenatal care	3.1	Percentage of women aged 15-49 years attended at least once during pregnancy by skilled health personnel (doctor, nurse or midwife)	166	High	-	UNICEF [1]
			Maternal mortality		Maternal mortality ratio (MMR, maternal deaths per 100 000 live births)	183	Very high	II	
			Skilled attendant at birth		Percentage of births attended by skilled health personnel (doctor, nurse or midwife)	180	Very high	I	

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Health	Health expenditure	1	Public health expenditure	1.a	Public health expenditure as % of total health expenditure	190	Very high	II	WHO; World Bank [4,5]
	Water and sanitation	6	Access to improved sanitation facilities	6.2	Improved sanitation facilities (% of population with access)	191	Very high	I	UNICEF; WHO; World Bank [1,4,5]
			Access to improved drinking-water sources	6.1	Population using improved drinking-water sources (%)	193	Very high	I	
	HIV	3	HIV prevalence among youth	3.3	Estimated percentage of young men and women (aged 15-24) living with HIV	128	Medium	II	UNICEF [7,8]
Education	School attainment	4	Overall literacy	4.6	Youth literacy rate, population 15-24 years, both sexes (%)	151	High	II	UNESCO [9]
			Repetition	4.1	Repetition rate in primary education (all grades), both sexes (%)	152	High	-	
	Completion of education	4	School completion	4.1	Gross graduation ratio from primary education, both sexes	107	Medium	-	
				4.1	Gross graduation ratio from lower secondary education, both sexes (%)	114	Medium	-	
				-	Gross graduation ratio from first degree programmes (ISCED 6 and 7) in tertiary education, both sexes (%)	120	Medium	-	
	Attendance of education	4	Enrolment in primary school	-	Gross enrolment ratio, primary, both sexes (%)	191	Very high	-	
			Enrolment in secondary school	-	Gross enrolment ratio, secondary, both sexes (%)	188	Very high	-	

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Education			Enrolment in tertiary school	4.3	Gross enrolment ratio, tertiary, both sexes (%)	175	Very high	-	UNESCO [9]	
	Early childhood education	4	Enrolment of kindergarten	4.2	Gross enrolment ratio, pre-primary, both sexes (%)	179	Very high	I		
	Government support on education	1	Public expenditure on education	1.a	Government expenditure on education as % of GDP	178	Very high	II		
	Gender equality	4	Gender equality in enrolment	4.5	Gross enrolment ratio, pre-primary, gender parity index (GPI)	176	Very high	I		
					Gross enrolment ratio, primary, gender parity index (GPI)	190	Very high	I		
					Gross enrolment ratio, secondary, gender parity index (GPI)	187	Very high	I		
					Gross enrolment ratio, tertiary, gender parity index (GPI)	171	High	I		
			Gender equality in graduation		Gross graduation ratio from primary education, gender parity index (GPI)	118	Medium	I		
					Gross graduation ratio from lower secondary education, gender parity index (GPI)	107	Medium	I		
					Gross graduation ratio from first degree programmes (ISCED 6 and 7) in tertiary education, gender parity index (GPI)	127	Medium	I		
			Gender equality in youth literacy		Youth literacy rate, population 15-24 years, gender parity index (GPI)	152	High	I		

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Safety	Violence and crime	16	Juvenile delinquency	16.1	Juveniles held in prisons, penal institutions or correctional institutions	108	Medium	-	UNODC [10]
					Juveniles brought into formal contact with the police and/or criminal justice system, all crimes	108	Medium	-	
			Criminal victimization	16.1	Intentional homicide count and rate per 100,000 population	195	Top	I	
					Assault and major assault rates in different countries (police recorded assaults/100,000 population)	128	Medium	-	
			Sexual violence against children	16.2	Total sexual offences against children at the national level, police-recorded offences, rate per 100,000 children aged 17 or under	102	Medium	II	
	Birth registration	16	Registration of newborns	16.9	Birth registration rate	162	High	I	UNICEF [1]
	Child labor	8	Children involved in child labor	8.7	Percentage of children five-14 years old involved in child labor	112	Medium	I	
	Child marriage	5	Children married or in union	5.3	Percentage of women aged 20 to 24 years who were first married or in union before ages 18	123	Medium	II	
	Demographic structure	5	Sex ratio	5.1	Sex ratio at birth	191	Very high	-	CIA [11]
Economic status	Housing quality	7	Risk housing	7.1	Access to electricity (% of population)	191	Very high	I	World Bank [5]
	Macroeconomic situation	8	Overall unemployment	8.5	Unemployment, total (% of total labor force) (modeled ILO estimate)	171	High	I	
			Youth unemployment		Youth unemployment rate (% of total labor force ages 15-24)	170	High	I	

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Economic status	Macroeconomic situation	10	Income equality at societal level	10.1	Income Gini coefficient	138	Medium	-	UNDP [12]
		8	National income	-	GNI per capita, Purchasing power parity (current international \$)	183	Very high	-	World Bank [5]
		8	National debts	-	Public debt as percentage of GDP	179	Very high	-	CIA [11]
Relationship	Community relationship	11	Social capital	11.3	Social Capital Ranking	140	Medium	-	Legatum Institute [13]
Participation	Social media connection	9	Internet access in home	9.c	Proportion of households with internet access at home	135	Medium	I	ITU [14]
			Access to public media		Proportion of households with computer	116	Medium	I	
Environmental aspects	Freshwater vulnerability	6	Risk of depleting freshwater resources	6.4	Water depletion index (WDI)	192	Very high	-	Berger et al. [15]
	Renewable energy consumption	7	Consumption of renewable energy	7.2	Renewable energy consumption (% of total final energy consumption)	180	Very high	I	World Bank [5]

Reference:

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6. WHO *Global status report on noncommunicable diseases 2014*; Switzerland, 2014.
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