

Appendix 3

Correlation of indicators in each green growth dimension

Table A3.1 Correlation between indicators of efficient and sustainable development

Indicator	EE1	EE2	EW1	EW2	SL1	SL2	ME1	ME2	Correlation Coefficient
EE1: Ratio of total primary energy supply to GDP (MJ per \$2011 PPP GDP)	1.000	0.391***	-0.161 **	-0.015	-0.070	-0.102	0.341***	-0.161**	
EE2: Share of renewables to total final energy consumption (Percent)	0.000	1.000	-0.177**	-0.215***	-0.181***	-0.040	0.508***	-0.350***	
EW1: Water use efficiency (USD per m ³)	0.040	0.023	1.000	0.025	0.197**	0.214**	-0.287***	0.546***	
EW2: Share of freshwater withdrawal to available freshwater resources (Percent)	0.844	0.003	0.756	1.000	-0.221***	-0.071	-0.109	0.187**	
SL1: Average soil organic carbon content (Tons per hectare)	0.336	0.008	0.011	0.003	1.000	0.260***	-0.252***	0.210***	
SL2: Share of organic agriculture to total agricultural land area (Percent)	0.216	0.620	0.013	0.395	0.001	1.000	-0.204**	0.185**	
ME1: Total domestic material consumption (DMC) per unit of GDP (DMC kg per GDP)	0.000	0.000	0.000	0.151	0.001	0.013	1.000	-0.331***	
ME2: Total material footprint (MF) per capita (MF tons per capita)	0.036	0.000	0.000	0.015	0.006	0.029	0.000	1.000	

Level of Significance

Notes: The values on the right of the matrix refer to correlation coefficients and those on the left are the level of significance, which are defined as follows:

- * Correlation is significant at the 0.1 level (2-tailed)
- ** Correlation is significant at the 0.05 level (2-tailed)
- *** Correlation is significant at the 0.01 level (2-tailed)

Table A3.2 Correlation between indicators of natural capital protection

Indicator	EQ1	EQ2	EQ3	GE1	GE2	GE3	Correlation Coefficient
EQ1: PM2.5 air pollution, mean annual population-weighted exposure (Micrograms per m ³)	1.000	0.442***	-0.265***	0.089	0.215***	-0.088	
EQ2: DALY rate as affected by unsafe water sources (DALY lost per 100,000 persons)	0.000	1.000	-0.373***	-0.346***	-0.105	0.135*	
EQ3: Municipal solid waste (MSW) generation per capita (Tons per year per capita)	0.000	0.000	1.000	0.393	0.085	0.031	
GE1: Ratio of CO ₂ emissions to population, excluding AFOLU (Metric tons per capita)	0.225	0.000	0.000	1.000	0.745	-0.040	
GE2: Ratio of non-CO ₂ emissions to population, excluding AFOLU (Tons per capita)	0.003	0.149	0.227	0.000	1.000	-0.018	
GE3: Ratio of non-CO ₂ emissions in agriculture to population (Gigagrams per 1000 persons)	0.223	0.061	0.655	0.575	0.798	1.000	
BE1: Average proportion of Key Biodiversity Areas covered by protected areas (Percent)	0.604	0.509	0.709	0.639	0.834	0.118	
BE2: Share of forest area to total land area (Percent)	0.000	0.088	0.125	0.093	0.221	0.415	
BE3: Soil biodiversity, potential level of diversity living in soils (Index)	0.001	0.079	0.009	0.000	0.002	0.204	
CV1: Red list index (Index)	0.007	0.039	0.339	0.491	0.219	0.076	
CV2: Tourism and recreation in coastal and marine areas (Score)	0.000	0.000	0.000	0.069	0.385	0.762	
CV3: Share of terrestrial and marine protected areas to total territorial areas (Percent)	0.402	0.646	0.273	0.301	0.550	0.107	

Level of Significance

Notes: The values on the right of the matrix refer to correlation coefficients and those on the left are the level of significance, which are defined as follows:

- * Correlation is significant at the 0.1 level (2-tailed)
- ** Correlation is significant at the 0.05 level (2-tailed)
- *** Correlation is significant at the 0.01 level (2-tailed)

Table A3.2 Correlation between indicators of natural capital protection (continued)

Indicator	BE1	BE2	BE3	CV1	CV2	CV3	Correlation Coefficient
EQ1: PM2.5 air pollution, mean annual population-weighted exposure (Micrograms per m ³)	-0.038	-0.367***	-0.244***	0.193***	-0.347***	-0.061	
EQ2: DALY rate as affected by unsafe water sources (DALY lost per 100,000 persons)	0.048	-0.124*	0.128*	0.148**	-0.378***	0.033	
EQ3: Municipal solid waste (MSW) generation per capita (Tons per year per capita)	-0.026	-0.107	-0.185***	-0.066	0.341***	0.076	
GE1: Ratio of CO ₂ emissions to population, excluding AFOLU (Metric tons per capita)	0.033	-0.119*	-0.337***	0.049	0.145*	0.073	
GE2: Ratio of non-CO ₂ emissions to population, excluding AFOLU (Tons per capita)	0.015	-0.087	-0.224***	0.087	-0.069	-0.043	
GE3: Ratio of non-CO ₂ emissions in agriculture to population (Gigagrams per 1000 persons)	0.107	-0.057	-0.088	0.120*	-0.023	0.113	
BE1: Average proportion of Key Biodiversity Areas covered by protected areas (Percent)	1.000	0.170*	0.065	0.227***	-0.083	0.519***	
BE2: Share of forest area to total land area (Percent)	0.016	1.000	0.531***	-0.202***	0.058	0.165**	
BE3: Soil biodiversity, potential level of diversity living in soils (Index)	0.353	0.000	1.000	-0.464***	0.116	0.034	
CV1: Red list index (Index)	0.001	0.004	0.000	1.000	-0.304***	0.055	
CV2: Tourism and recreation in coastal and marine areas (Score)	0.276	0.468	0.137	0.000	1.000	0.034	
CV3: Share of terrestrial and marine protected areas to total territorial areas (Percent)	0.000	0.018	0.634	0.437	0.673	1.000	

Level of Significance

Notes: The values on the right of the matrix refer to correlation coefficients and those on the left are the level of significance, which are defined as follows:

- * Correlation is significant at the 0.1 level (2-tailed)
- ** Correlation is significant at the 0.05 level (2-tailed)
- *** Correlation is significant at the 0.01 level (2-tailed)

Table A3.3 Correlation between indicators of green economic opportunities

Indicators	GV1	GT1	GJ1	GI1	Correlation Coefficient
GV1: Adjusted net savings, minus natural resources and pollution damages (Percent GNI)	1.000	0.183**	0.178*	0.067	
GT1: Share of export of environmental goods (OECD & APEC class.) to total export (Percent)	0.183	1.000	0.240**	-0.075	
GJ1: Share of green employment in total manufacturing employment (Percent)	0.178	0.240	1.000	-0.041	
GN1: Share of patent publications in environmental technology to total patents (Percent)	0.067	-0.075	-0.041	1.000	
Level of Significance					

Notes: The values on the right of the matrix refer to correlation coefficients and those on the left are the level of significance, which are defined as follows:

- * Correlation is significant at the 0.1 level (2-tailed)
- ** Correlation is significant at the 0.05 level (2-tailed)
- *** Correlation is significant at the 0.01 level (2-tailed)

Table A3.4 Correlation between indicators of social inclusion

Indicators	AB1	AB2	AB3	GB1	GB2	GB3	Correlation Coefficient	
AB1: Population with access to safely managed water and sanitation (Percent)	1.000	0.672***	0.632***	0.070	-0.139	0.163		
AB2: Population with access to electricity and clean fuels/ technology (Percent)	0.000	1.000	0.673***	0.127*	-0.037	0.174**		
AB3: Fixed Internet broadband and mobile cellular subscriptions (Number per 100 people)	0.000	0.000	1.000	0.103	-0.016	0.131*		
GB1: Proportion of seats held by women in national parliaments (Percent)	0.475	0.079	0.157	1.000	-0.203**	0.272***		
GB2: Ratio of female to male with account in financial institution, age 15+ (Percent)	0.170	0.656	0.844	0.014	1.000	-0.048		
GB3: Getting paid, covering laws and regulations for equal gender pay (Score)	0.103	0.017	0.077	0.000	0.567	1.000		
SE1: Inequality in income based on Atkinson (Index)	0.010	0.000	0.000	0.624	0.923	0.081		
SE2: Ratio of urban to rural, access to safely managed water/ sanitation & electricity (Percent)	0.000	0.000	0.002	0.092	0.912	0.087		
SE3: Share of youth not in education, employment or training, aged 15-24 years (Percent)	0.000	0.000	0.000	0.045	0.943	0.039		
SP1: Proportion of population above statutory pensionable age receiving pension (Percent)	0.000	0.000	0.000	0.001	0.050	0.000		
SP2: Healthcare access and quality index (Index)	0.000	0.000	0.000	0.003	0.907	0.000		
SP3: Proportion of urban population living in slums (Percent)	0.000	0.000	0.000	0.052	0.823	0.028		
Level of Significance								

Notes: The values on the right of the matrix refer to correlation coefficients and those on the left are the level of significance, which are defined as follows:

- * Correlation is significant at the 0.1 level (2-tailed)
- ** Correlation is significant at the 0.05 level (2-tailed)
- *** Correlation is significant at the 0.01 level (2-tailed)

Table A3.4 Correlation between indicators of social inclusion (continued)

Indicators	SE1	SE2	SE3	SP1	SP2	SP3	Correlation Coefficient
AB1: Population with access to safely managed water and sanitation (Percent)	-0.266**	-0.390***	-0.666***	0.627***	0.797***	-0.776***	
AB2: Population with access to electricity and clean fuels/ technology (Percent)	-0.298***	-0.455***	-0.458***	0.626***	0.819***	-0.810***	
AB3: Fixed Internet broadband and mobile cellular subscriptions (Number per 100 people)	-0.299***	-0.223***	-0.556***	0.559***	0.693***	0.622***	
GB1: Proportion of seats held by women in national parliaments (Percent)	-0.039	-0.124*	-0.192**	0.263***	0.216***	-0.200	
GB2: Ratio of female to male with account in financial institution, age 15+ (Percent)	0.008	-0.009	-0.007	-0.168**	-0.010	-0.025	
GB3: Getting paid, covering laws and regulations for equal gender pay (Score)	0.140*	-0.128*	-0.197**	0.354***	0.278***	-0.230**	
SE1: Inequality in income based on Atkinson (Index)	1.000	0.180**	0.457	-0.257***	-0.388***	0.028	
SE2: Ratio of urban to rural, access to safely managed water/ sanitation & electricity (Percent)	0.025	1.000	0.139***	-0.306***	-0.330***	0.398***	
SE3: Share of youth not in education, employment or training, aged 15-24 years (Percent)	0.000	0.146	1.000	-0.489	-0.677	0.151	
SP1: Proportion of population above statutory pensionable age receiving pension (Percent)	0.002	0.000	0.000	1.000	0.653	-0.439	
SP2: Healthcare access and quality index (Index)	0.000	0.000	0.000	0.000	1.000	-0.724	
SP3: Proportion of urban population living in slums (Percent)	0.795	0.000	0.311	0.000	0.000	1.000	

Level of Significance

Notes: The values on the right of the matrix refer to correlation coefficients and those on the left are the level of significance, which are defined as follows:

* Correlation is significant at the 0.1 level (2-tailed)

** Correlation is significant at the 0.05 level (2-tailed)

*** Correlation is significant at the 0.01 level (2-tailed)