

# Supplementary information

## Income-based variation in Sustainable Development Goal interaction networks

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**Supplementary Table 1.** List of Goals and Targets included in the analyses and the associated World Bank indicators used to inform their associations. Both the standard World Bank code as well as a short description are presented for each indicators. More details are available from the World Bank SDG indicator website.

SDG	target	Series Code	Indicator Name
1	1.1	SI.POV.DDAY	Poverty headcount ratio at \$1.90 a day (2011 PPP) (% of population)
1	1.2	SI.POV.NAHC	Poverty headcount ratio at national poverty lines (% of population)
1	1.2	SI.POV.RUHC	Rural poverty headcount ratio at national poverty lines (% of rural population)
1	1.2	SI.POV.URHC	Urban poverty headcount ratio at national poverty lines (% of urban population)
1	1.3	per_lm_allm.cov_pop_tot	Coverage of unemployment benefits and ALMP (% of population)
1	1.3	per_lm_allm.cov_q1_tot	Coverage of unemployment benefits and ALMP in poorest quintile (% of population)
1	1.3	per_lm_allm.cov_q2_tot	Coverage of unemployment benefits and ALMP in 2nd quintile (% of population)
1	1.3	per_lm_allm.cov_q3_tot	Coverage of unemployment benefits and ALMP in 3rd quintile (% of population)
1	1.3	per_lm_allm.cov_q4_tot	Coverage of unemployment benefits and ALMP in 4th quintile (% of population)
1	1.3	per_lm_allm.cov_q5_tot	Coverage of unemployment benefits and ALMP in richest quintile (% of population)
1	1.3	per_sa_allsa.cov_pop_tot	Coverage of social safety net programs (% of population)
1	1.3	per_sa_allsa.cov_q1_tot	Coverage of social safety net programs in poorest quintile (% of population)
1	1.3	per_sa_allsa.cov_q2_tot	Coverage of social safety net programs in 2nd quintile (% of population)
1	1.3	per_sa_allsa.cov_q3_tot	Coverage of social safety net programs in 3rd quintile (% of population)
1	1.3	per_sa_allsa.cov_q4_tot	Coverage of social safety net programs in 4th quintile (% of population)
1	1.3	per_sa_allsa.cov_q5_tot	Coverage of social safety net programs in richest quintile (% of population)
1	1.3	per_si_allsi.cov_pop_tot	Coverage of social insurance programs (% of population)
1	1.3	per_si_allsi.cov_q1_tot	Coverage of social insurance programs in poorest quintile (% of population)
1	1.3	per_si_allsi.cov_q2_tot	Coverage of social insurance programs in 2nd quintile (% of population)
1	1.3	per_si_allsi.cov_q3_tot	Coverage of social insurance programs in 3rd quintile (% of population)
1	1.3	per_si_allsi.cov_q4_tot	Coverage of social insurance programs in 4th quintile (% of population)
1	1.3	per_si_allsi.cov_q5_tot	Coverage of social insurance programs in richest quintile (% of population)

2	2.1	SH.STA.BFED.ZS	Exclusive breastfeeding (% of children under 6 months)
2	2.1	SN.ITK.DEFC.ZS	Prevalence of undernourishment (% of population)
2	2.2	SH.ANM.ALLW.ZS	Prevalence of anemia among women of reproductive age (% of women ages 15-49)
2	2.2	SH.STA.MALN.FE.ZS	Prevalence of underweight, weight for age, female (% of children under 5)
2	2.2	SH.STA.MALN.MA.ZS	Prevalence of underweight, weight for age, male (% of children under 5)
2	2.2	SH.STA.MALN.ZS	Prevalence of underweight, weight for age (% of children under 5)
2	2.2	SH.STA.OWGH.FE.ZS	Prevalence of overweight, weight for height, female (% of children under 5)
2	2.2	SH.STA.OWGH.MA.ZS	Prevalence of overweight, weight for height, male (% of children under 5)
2	2.2	SH.STA.OWGH.ZS	Prevalence of overweight, weight for height (% of children under 5)
2	2.2	SH.STA.STNT.FE.ZS	Prevalence of stunting, height for age, female (% of children under 5)
2	2.2	SH.STA.STNT.MA.ZS	Prevalence of stunting, height for age, male (% of children under 5)
2	2.2	SH.STA.STNT.ZS	Prevalence of stunting, height for age (% of children under 5)
2	2.2	SH.STA.WAST.FE.ZS	Prevalence of wasting, weight for height, female (% of children under 5)
2	2.2	SH.STA.WAST.MA.ZS	Prevalence of wasting, weight for height, male (% of children under 5)
2	2.2	SH.STA.WAST.ZS	Prevalence of wasting, weight for height (% of children under 5)
2	2.2	SH.SVR.WAST.FE.ZS	Prevalence of severe wasting, weight for height, female (% of children under 5)
2	2.2	SH.SVR.WAST.MA.ZS	Prevalence of severe wasting, weight for height, male (% of children under 5)
2	2.2	SH.SVR.WAST.ZS	Prevalence of severe wasting, weight for height (% of children under 5)
2	2.3	AG.YLD.CREL.KG	Cereal yield (kg per hectare)
2	2.3	EA.PRD.AGRI.KD	Agriculture value added per worker (constant 2010 US\$)
3	3.1	SH.STA.BRTC.ZS	Births attended by skilled health staff (% of total)
3	3.1	SH.STA.MMRT	Maternal mortality ratio (modeled estimate, per 100,000 live births)
3	3.2	SH.DYN.MORT	Mortality rate, under-5 (per 1,000 live births)
3	3.2	SH.DYN.MORT.FE	Mortality rate, under-5, female (per 1,000 live births)
3	3.2	SH.DYN.MORT.MA	Mortality rate, under-5, male (per 1,000 live births)
3	3.2	SH.DYN.NMRT	Mortality rate, neonatal (per 1,000 live births)
3	3.3	SH.DYN.AIDS.ZS	Prevalence of HIV, total (% of population ages 15-49)
3	3.3	SH.HIV.1524.FE.ZS	Prevalence of HIV, female (% ages 15-24)
3	3.3	SH.HIV.1524.MA.ZS	Prevalence of HIV, male (% ages 15-24)

3	3.3	SH.IMM.HEPB	Immunization, HepB3 (% of one-year-old children)
3	3.3	SH.MLR.INCD.P3	Incidence of malaria (per 1,000 population at risk)
3	3.3	SH.TBS.INCD	Incidence of tuberculosis (per 100,000 people)
3	3.4	SH.DYN.NCOM.ZS	Mortality from CVD, cancer, diabetes or CRD between exact ages 30 and 70 (%)
3	3.4	SH.STA.SUIC.P5	Suicide mortality rate (per 100,000 population)
3	3.5	SH.ALC.PCAP.LI	Total alcohol consumption per capita (liters of pure alcohol, projected estimates, 15+ years of age)
3	3.6	SH.STA.TRAF.P5	Mortality caused by road traffic injury (per 100,000 people)
3	3.7	SH.FPL.SATM.ZS	Demand for family planning satisfied by modern methods (% of married women demand for family planning)
3	3.7	SP.ADO.TFRT	Adolescent fertility rate (births per 1,000 women ages 15-19)
3	3.8	SH.IMM.IDPT	Immunization, DPT (% of children ages 12-23 months)
3	3.8	SH.IMM.MEAS	Immunization, measles (% of children ages 12-23 months)
3	3.a	SH.PR.V.SMOK.FE	Smoking prevalence, females (% of adults)
3	3.a	SH.PR.V.SMOK.MA	Smoking prevalence, males (% of adults)
3	3.c	SH.MED.NUMW.P3	Nurses and midwives (per 1,000 people)
3	3.c	SH.MED.PHYS.ZS	Physicians (per 1,000 people)
4	4.1	SE.COM.DURS	Compulsory education, duration (years)
4	4.1	SE.PRM.CMPT.FE.ZS	Primary completion rate, female (% of relevant age group)
4	4.1	SE.PRM.CMPT.MA.ZS	Primary completion rate, male (% of relevant age group)
4	4.1	SE.PRM.CMPT.ZS	Primary completion rate, total (% of relevant age group)
4	4.1	SE.PRM.DURS	Primary education, duration (years)
4	4.1	SE.PRM.OENR.FE.ZS	Over-age students, primary, female (% of female enrollment)
4	4.1	SE.PRM.OENR.MA.ZS	Over-age students, primary, male (% of male enrollment)
4	4.1	SE.PRM.OENR.ZS	Over-age students, primary (% of enrollment)
4	4.1	SE.PRM.UNER	Children out of school, primary
4	4.1	SE.PRM.UNER.FE	Children out of school, primary, female
4	4.1	SE.PRM.UNER.FE.ZS	Children out of school, female (% of female primary school age)
4	4.1	SE.PRM.UNER.MA	Children out of school, primary, male
4	4.1	SE.PRM.UNER.MA.ZS	Children out of school, male (% of male primary school age)
4	4.1	SE.PRM.UNER.ZS	Children out of school (% of primary school age)
4	4.1	SE.SEC.CMPT.LO.FE.ZS	Lower secondary completion rate, female (% of relevant age group)
4	4.1	SE.SEC.CMPT.LO.MA.ZS	Lower secondary completion rate, male (% of relevant age group)

4	4.1	SE.SEC.CMPT.LO.ZS	Lower secondary completion rate, total (% of relevant age group)
4	4.1	SE.SEC.DURS	Secondary education, duration (years)
4	4.1	SE.SEC.UNER.LO.FE.ZS	Adolescents out of school, female (% of female lower secondary school age)
4	4.1	SE.SEC.UNER.LO.MA.ZS	Adolescents out of school, male (% of male lower secondary school age)
4	4.1	SE.SEC.UNER.LO.ZS	Adolescents out of school (% of lower secondary school age)
4	4.2	SE.PRE.DURS	Preprimary education, duration (years)
4	4.2	SE.PRE.ENRR	School enrollment, preprimary (% gross)
4	4.2	SE.PRE.ENRR.FE	School enrollment, preprimary, female (% gross)
4	4.2	SE.PRE.ENRR.MA	School enrollment, preprimary, male (% gross)
4	4.3	SE.TER.ENRR	School enrollment, tertiary (% gross)
4	4.3	SE.TER.ENRR.FE	School enrollment, tertiary, female (% gross)
4	4.3	SE.TER.ENRR.MA	School enrollment, tertiary, male (% gross)
4	4.4	SE.PRM.CUAT.MA.ZS	Educational attainment, at least completed primary, population 25+ years, male (%) (cumulative)
4	4.4	SE.SEC.CUAT.LO.FE.ZS	Educational attainment, at least completed lower secondary, population 25+, female (%) (cumulative)
4	4.4	SE.SEC.CUAT.LO.MA.ZS	Educational attainment, at least completed lower secondary, population 25+, male (%) (cumulative)
4	4.4	SE.SEC.CUAT.LO.ZS	Educational attainment, at least completed lower secondary, population 25+, total (%) (cumulative)
4	4.4	SE.SEC.CUAT.PO.FE.ZS	Educational attainment, at least completed post-secondary, population 25+, female (%) (cumulative)
4	4.4	SE.SEC.CUAT.PO.MA.ZS	Educational attainment, at least completed post-secondary, population 25+, male (%) (cumulative)
4	4.4	SE.SEC.CUAT.PO.ZS	Educational attainment, at least completed post-secondary, population 25+, total (%) (cumulative)
4	4.4	SE.SEC.CUAT.UP.FE.ZS	Educational attainment, at least completed upper secondary, population 25+, female (%) (cumulative)
4	4.4	SE.SEC.CUAT.UP.MA.ZS	Educational attainment, at least completed upper secondary, population 25+, male (%) (cumulative)
4	4.4	SE.SEC.CUAT.UP.ZS	Educational attainment, at least completed upper secondary, population 25+, total (%) (cumulative)
4	4.4	SE.TER.CUAT.BA.FE.ZS	Educational attainment, at least Bachelor's or equivalent, population 25+, female (%) (cumulative)
4	4.4	SE.TER.CUAT.BA.MA.ZS	Educational attainment, at least Bachelor's or equivalent, population 25+, male (%) (cumulative)
4	4.4	SE.TER.CUAT.BA.ZS	Educational attainment, at least Bachelor's or equivalent, population 25+, total (%) (cumulative)
4	4.4	SE.TER.CUAT.DO.FE.ZS	Educational attainment, Doctoral or equivalent, population 25+, female (%) (cumulative)

4	4.4	SE.TER.CUAT.DO.MA.ZS	Educational attainment, Doctoral or equivalent, population 25+, male (%) (cumulative)
4	4.4	SE.TER.CUAT.DO.ZS	Educational attainment, Doctoral or equivalent, population 25+, total (%) (cumulative)
4	4.4	SE.TER.CUAT.MS.FE.ZS	Educational attainment, at least Master's or equivalent, population 25+, female (%) (cumulative)
4	4.4	SE.TER.CUAT.MS.MA.ZS	Educational attainment, at least Master's or equivalent, population 25+, male (%) (cumulative)
4	4.4	SE.TER.CUAT.MS.ZS	Educational attainment, at least Master's or equivalent, population 25+, total (%) (cumulative)
4	4.4	SE.TER.CUAT.ST.FE.ZS	Educational attainment, at least completed short-cycle tertiary, population 25+, female (%) (cumulative)
4	4.4	SE.TER.CUAT.ST.MA.ZS	Educational attainment, at least completed short-cycle tertiary, population 25+, male (%) (cumulative)
4	4.4	SE.TER.CUAT.ST.ZS	Educational attainment, at least completed short-cycle tertiary, population 25+, total (%) (cumulative)
4	4.5	SE.ENR.PRIM.FM.ZS	School enrollment, primary (gross), gender parity index (GPI)
4	4.5	SE.ENR.PRSC.FM.ZS	School enrollment, primary and secondary (gross), gender parity index (GPI)
4	4.5	SE.ENR.SECO.FM.ZS	School enrollment, secondary (gross), gender parity index (GPI)
4	4.5	SE.ENR.TERT.FM.ZS	School enrollment, tertiary (gross), gender parity index (GPI)
4	4.6	SE.ADT.1524.LT.FE.ZS	Literacy rate, youth female (% of females ages 15-24)
4	4.6	SE.ADT.1524.LT.FM.ZS	Literacy rate, youth (ages 15-24), gender parity index (GPI)
4	4.6	SE.ADT.1524.LT.MA.ZS	Literacy rate, youth male (% of males ages 15-24)
4	4.6	SE.ADT.1524.LT.ZS	Literacy rate, youth total (% of people ages 15-24)
4	4.6	SE.ADT.LITR.FE.ZS	Literacy rate, adult female (% of females ages 15 and above)
4	4.6	SE.ADT.LITR.MA.ZS	Literacy rate, adult male (% of males ages 15 and above)
4	4.6	SE.ADT.LITR.ZS	Literacy rate, adult total (% of people ages 15 and above)
4	4.c	SE.PRE.ENRL.TC.ZS	Pupil-teacher ratio, preprimary
4	4.c	SE.PRE.TCAQ.FE.ZS	Trained teachers in preprimary education, female (% of female teachers)
4	4.c	SE.PRE.TCAQ.MA.ZS	Trained teachers in preprimary education, male (% of male teachers)
4	4.c	SE.PRE.TCAQ.ZS	Trained teachers in preprimary education (% of total teachers)
4	4.c	SE.PRM.ENRL.TC.ZS	Pupil-teacher ratio, primary
4	4.c	SE.PRM.TCAQ.FE.ZS	Trained teachers in primary education, female (% of female teachers)

4	4.c	SE.PRM.TCAQ.MA.ZS	Trained teachers in primary education, male (% of male teachers)
4	4.c	SE.PRM.TCAQ.ZS	Trained teachers in primary education (% of total teachers)
4	4.c	SE.SEC.ENRL.LO.TC.ZS	Pupil-teacher ratio, lower secondary
4	4.c	SE.SEC.ENRL.TC.ZS	Pupil-teacher ratio, secondary
4	4.c	SE.SEC.ENRL.UP.TC.ZS	Pupil-teacher ratio, upper secondary
4	4.c	SE.SEC.TCAQ.FE.ZS	Trained teachers in secondary education, female (% of female teachers)
4	4.c	SE.SEC.TCAQ.LO.FE.ZS	Trained teachers in lower secondary education, female (% of female teachers)
4	4.c	SE.SEC.TCAQ.LO.MA.ZS	Trained teachers in lower secondary education, male (% of male teachers)
4	4.c	SE.SEC.TCAQ.LO.ZS	Trained teachers in lower secondary education (% of total teachers)
4	4.c	SE.SEC.TCAQ.MA.ZS	Trained teachers in secondary education, male (% of male teachers)
4	4.c	SE.SEC.TCAQ.UP.FE.ZS	Trained teachers in upper secondary education, female (% of female teachers)
4	4.c	SE.SEC.TCAQ.UP.MA.ZS	Trained teachers in upper secondary education, male (% of male teachers)
4	4.c	SE.SEC.TCAQ.UP.ZS	Trained teachers in upper secondary education (% of total teachers)
4	4.c	SE.SEC.TCAQ.ZS	Trained teachers in secondary education (% of total teachers)
4	4.c	SE.TER.ENRL.TC.ZS	Pupil-teacher ratio, tertiary
5	5.1	SG.NOD.CONC	Nondiscrimination clause mentions gender in the constitution (1=yes; 0=no)
5	5.2	SG.VAW.1549.ZS	Proportion of women subjected to physical and/or sexual violence in the last 12 months (% of 15-49 women)
5	5.3	SH.STA.FGMS.ZS	Female genital mutilation prevalence (%)
5	5.3	SP.M18.2024.FE.ZS	Women who were first married by age 18 (% of women ages 20-24)
5	5.4	SL.FAM.WORK.FE.ZS	Contributing family workers, female (% of female employment)
5	5.4	SL.FAM.WORK.MA.ZS	Contributing family workers, male (% of male employment)
5	5.5	IC.FRM.FEMM.ZS	Firms with female top manager (% of firms)
5	5.5	IC.FRM.FEMO.ZS	Firms with female participation in ownership (% of firms)
5	5.5	SG.GEN.PARL.ZS	Proportion of seats held by women in national parliaments (%)
5	5.5	SL.EMP.SMGT.FE.ZS	Female share of employment in senior and middle management (%)
6	6.1	SH.H2O.SAFE.RU.ZS	Improved water source, rural (% of rural population with access)
6	6.1	SH.H2O.SAFE.UR.ZS	Improved water source, urban (% of urban population with access)

6	6.1	SH.H2O.SAFE.ZS	Improved water source (% of population with access)
6	6.2	SH.STA.ACSN	Improved sanitation facilities (% of population with access)
6	6.2	SH.STA.ACSN.RU	Improved sanitation facilities, rural (% of rural population with access)
6	6.2	SH.STA.ACSN.UR	Improved sanitation facilities, urban (% of urban population with access)
6	6.2	SH.STA.ODFC.RU.ZS	People practicing open defecation, rural (% of rural population)
6	6.2	SH.STA.ODFC.UR.ZS	People practicing open defecation, urban (% of urban population)
6	6.2	SH.STA.ODFC.ZS	People practicing open defecation (% of population)
6	6.4	ER.GDP.FWTL.M3.KD	Water productivity, total (constant 2010 US\$ GDP per cubic meter of total freshwater withdrawal)
6	6.4	ER.H2O.FWAG.ZS	Annual freshwater withdrawals, agriculture (% of total freshwater withdrawal)
6	6.4	ER.H2O.FWDM.ZS	Annual freshwater withdrawals, domestic (% of total freshwater withdrawal)
6	6.4	ER.H2O.FWIN.ZS	Annual freshwater withdrawals, industry (% of total freshwater withdrawal)
6	6.4	ER.H2O.FWTL.K3	Annual freshwater withdrawals, total (billion cubic meters)
6	6.4	ER.H2O.FWTL.ZS	Annual freshwater withdrawals, total (% of internal resources)
6	6.4	ER.H2O.INTR.K3	Renewable internal freshwater resources, total (billion cubic meters)
6	6.4	ER.H2O.INTR.PC	Renewable internal freshwater resources per capita (cubic meters)
7	7.1	EG.CFT.ACCS.ZS	Access to clean fuels and technologies for cooking (% of population)
7	7.1	EG.ELC.ACCS.RU.ZS	Access to electricity, rural (% of rural population)
7	7.1	EG.ELC.ACCS.UR.ZS	Access to electricity, urban (% of urban population)
7	7.1	EG.ELC.ACCS.ZS	Access to electricity (% of population)
7	7.2	EG.ELC.RNEW.ZS	Renewable electricity output (% of total electricity output)
7	7.2	EG.FEC.RNEW.ZS	Renewable energy consumption (% of total final energy consumption)
7	7.3	EG.EGY.PRIM.PP.KD	Energy intensity level of primary energy (MJ/\$2011 PPP GDP)
8	8.1	NY.GDP.MKTP.KD.ZG	GDP growth (annual %)
8	8.1	NY.GDP.PCAP.KD.ZG	GDP per capita growth (annual %)
8	8.2	NY.GNP.MKTP.KD.ZG	GNI growth (annual %)
8	8.2	SL.AGR.EMPL.FE.ZS	Employment in agriculture, female (% of female employment)
8	8.2	SL.AGR.EMPL.MA.ZS	Employment in agriculture, male (% of male employment)
8	8.2	SL.AGR.EMPL.ZS	Employment in agriculture (% of total employment)



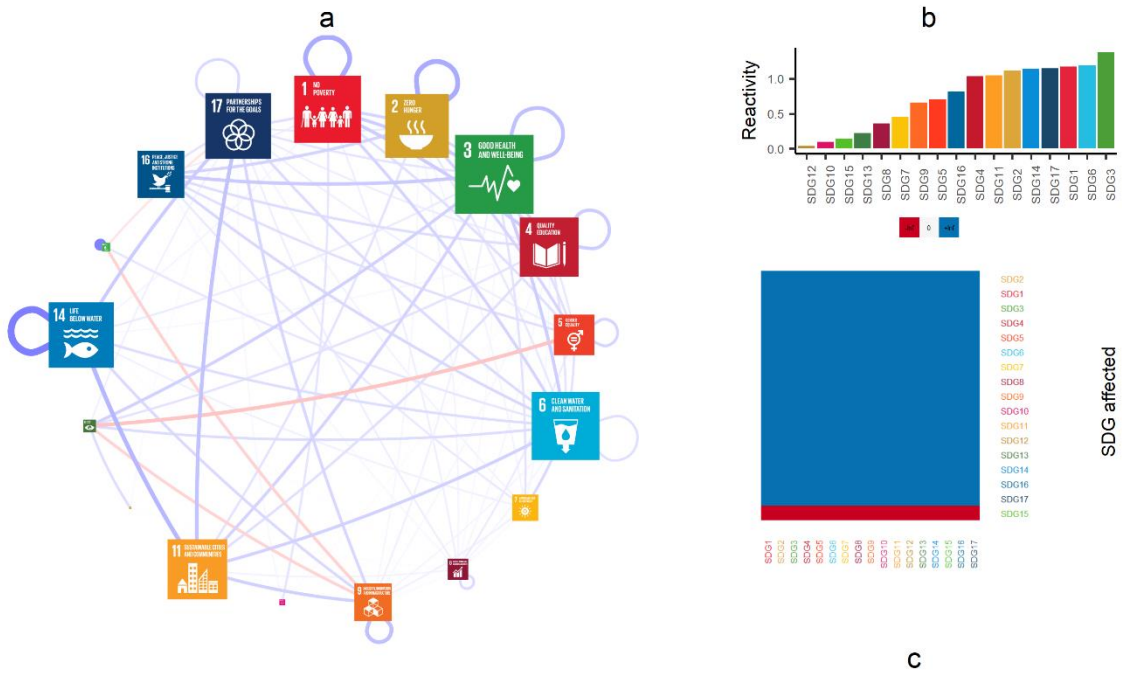
8	8.2	SL.GDP.PCAP.EM.KD	GDP per person employed (constant 2011 PPP \$)
8	8.2	SL.IND.EMPL.FE.ZS	Employment in industry, female (% of female employment)
8	8.2	SL.IND.EMPL.MA.ZS	Employment in industry, male (% of male employment)
8	8.2	SL.IND.EMPL.ZS	Employment in industry (% of total employment)
8	8.2	SL.SRV.EMPL.FE.ZS	Employment in services, female (% of female employment)
8	8.2	SL.SRV.EMPL.MA.ZS	Employment in services, male (% of male employment)
8	8.2	SL.SRV.EMPL.ZS	Employment in services (% of total employment)
8	8.3	IC.BUS.NDNS.ZS	New business density (new registrations per 1,000 people ages 15-64)
8	8.3	SL.ISV.IFRM.FE.ZS	Informal employment, female (% of total non-agricultural employment)
8	8.3	SL.ISV.IFRM.MA.ZS	Informal employment, male (% of total non-agricultural employment)
8	8.3	SL.ISV.IFRM.ZS	Informal employment (% of total non-agricultural employment)
8	8.5	SL.EMP.WORK.FE.ZS	Wage and salaried workers, female (% of female employment)
8	8.5	SL.EMP.WORK.MA.ZS	Wage and salaried workers, male (% of male employment)
8	8.5	SL.EMP.WORK.ZS	Wage and salaried workers, total (% of total employment)
8	8.5	SL.UEM.1524.FE.NE.ZS	Unemployment, youth female (% of female labor force ages 15-24) (national estimate)
8	8.5	SL.UEM.1524.FE.ZS	Unemployment, youth female (% of female labor force ages 15-24) (modeled ILO estimate)
8	8.5	SL.UEM.1524.MA.NE.ZS	Unemployment, youth male (% of male labor force ages 15-24) (national estimate)
8	8.5	SL.UEM.1524.MA.ZS	Unemployment, youth male (% of male labor force ages 15-24) (modeled ILO estimate)
8	8.5	SL.UEM.1524.NE.ZS	Unemployment, youth total (% of total labor force ages 15-24) (national estimate)
8	8.5	SL.UEM.1524.ZS	Unemployment, youth total (% of total labor force ages 15-24) (modeled ILO estimate)
8	8.5	SL.UEM.TOTL.FE.NE.ZS	Unemployment, female (% of female labor force) (national estimate)
8	8.5	SL.UEM.TOTL.FE.ZS	Unemployment, female (% of female labor force) (modeled ILO estimate)
8	8.5	SL.UEM.TOTL.MA.NE.ZS	Unemployment, male (% of male labor force) (national estimate)
8	8.5	SL.UEM.TOTL.MA.ZS	Unemployment, male (% of male labor force) (modeled ILO estimate)
8	8.5	SL.UEM.TOTL.NE.ZS	Unemployment, total (% of total labor force) (national estimate)
8	8.5	SL.UEM.TOTL.ZS	Unemployment, total (% of total labor force) (modeled ILO estimate)
8	8.6	SL.UEM.NEET.FE.ZS	Share of youth not in education, employment or training, female (% of female youth population)

8	8.6	SL.UEM.NEET.MA.ZS	Share of youth not in education, employment or training, male (% of male youth population)
8	8.6	SL.UEM.NEET.ZS	Share of youth not in education, employment or training, total (% of youth population)
8	8.7	SL.TLF.0714.FE.ZS	Children in employment, female (% of female children ages 7-14)
8	8.7	SL.TLF.0714.MA.ZS	Children in employment, male (% of male children ages 7-14)
8	8.7	SL.TLF.0714.ZS	Children in employment, total (% of children ages 7-14)
8	8.ten	FB.CBK.BRCH.P5	Commercial bank branches (per 100,000 adults)
8	8.ten	WP_time_10.1	Account (% age 15+)
8	8.ten	WP_time_10.2	Account, male (% age 15+)
8	8.ten	WP_time_10.3	Account, female (% age 15+)
8	8.ten	WP_time_10.4	Account, young adults (% ages 15-24)
8	8.ten	WP_time_10.5	Account, older adults (% ages 25+)
8	8.ten	WP_time_10.6	Account, primary education or less (% ages 15+)
8	8.ten	WP_time_10.7	Account, secondary education or more (% ages 15+)
8	8.ten	WP_time_10.8	Account, income, poorest 40% (% ages 15+)
8	8.ten	WP_time_10.9	Account, income, richest 60% (% ages 15+)
9	9.1	IS.AIR.GOOD.MT.K1	Air transport, freight (million ton-km)
9	9.1	IS.AIR.PSGR	Air transport, passengers carried
9	9.1	IS.RRS.GOOD.MT.K6	Railways, goods transported (million ton-km)
9	9.1	IS.RRS.PASG.KM	Railways, passengers carried (million passenger-km)
9	9.2	NV.IND.MANF.CD	Manufacturing, value added (current US\$)
9	9.2	NV.IND.MANF.ZS	Manufacturing, value added (% of GDP)
9	9.4	EN.ATM.CO2E.KD.GD	CO2 emissions (kg per 2010 US\$ of GDP)
9	9.4	EN.ATM.CO2E.PP.GD	CO2 emissions (kg per PPP \$ of GDP)
9	9.4	EN.ATM.CO2E.PP.GD.KD	CO2 emissions (kg per 2011 PPP \$ of GDP)
9	9.5	GB.XPD.RSDV.GD.ZS	Research and development expenditure (% of GDP)
9	9.5	SP.POP.SCIE.RD.P6	Researchers in R&D (per million people)
10	10.1	SI.SPR.PC40.ZG	Annualized average growth rate in per capita real survey mean consumption or income, bottom 40% of pop (%)
10	10.1	SI.SPR.PCAP.ZG	Annualized average growth rate in per capita real survey mean consumption or income, total population (%)
10	10.b	DT.ODA.ODAT.CD1	Net official development assistance received (current US\$)
10	10.b	DT.ODA.ODAT.KD	Net official development assistance received (constant 2014 US\$)
11	11.1	EN.POP.SLUM.UR.ZS	Population living in slums (% of urban population)
11	11.1	SP.URB.GROW	Urban population growth (annual %)
11	11.1	SP.URB.TOTL	Urban population
11	11.1	SP.URB.TOTL.IN.ZS	Urban population (% of total)

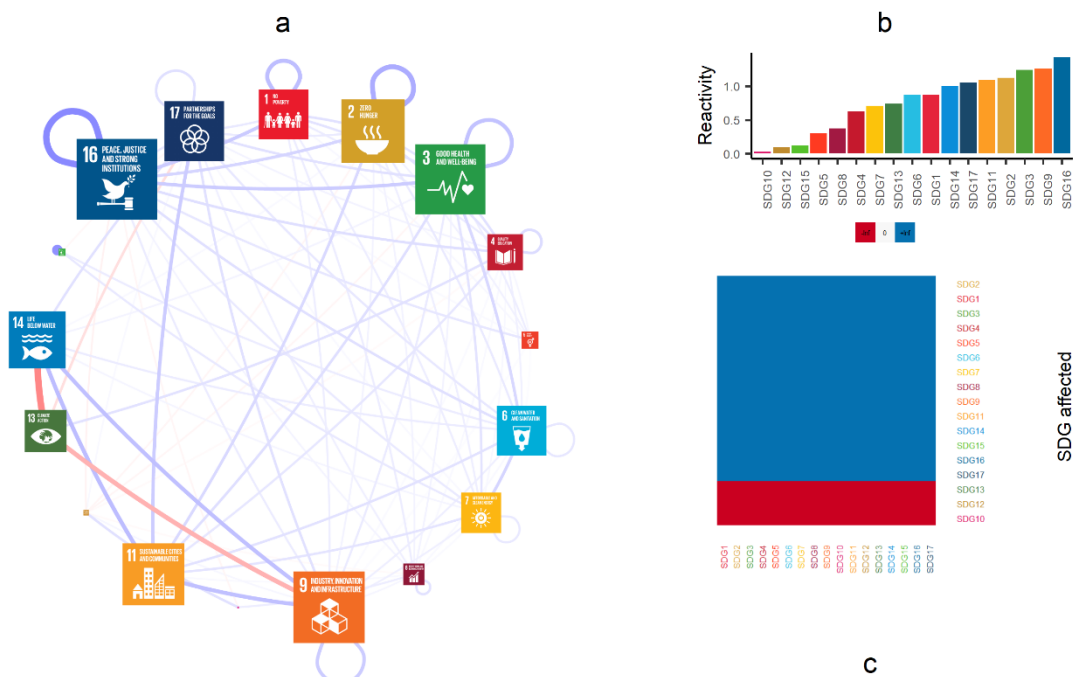
11	11.6	EN.ATM.PM25.MC.M3	PM2.5 air pollution, mean annual exposure (micrograms per cubic meter)
11	11.6	EN.ATM.PM25.MC.ZS	PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total)
12	12.2	NY.ADJ.SVNX.GN.ZS	Adjusted net savings, excluding particulate emission damage (% of GNI)
12	12.2	NY.GDP.COAL.RT.ZS	Coal rents (% of GDP)
12	12.2	NY.GDP.FRST.RT.ZS	Forest rents (% of GDP)
12	12.2	NY.GDP.MINR.RT.ZS	Mineral rents (% of GDP)
12	12.2	NY.GDP.NGAS.RT.ZS	Natural gas rents (% of GDP)
12	12.2	NY.GDP.PETR.RT.ZS	Oil rents (% of GDP)
12	12.2	NY.GDP.TOTL.RT.ZS	Total natural resources rents (% of GDP)
13	13.1	EN.CLC.MDAT.ZS	Droughts, floods, extreme temperatures (% of population, average 1990-2009)
13	13.2	EN.CLC.DRSK.XQ	Disaster risk reduction progress score (1-5 scale; 5=best)
14	14.4	ER.FSH.AQUA.MT	Aquaculture production (metric tons)
14	14.4	ER.FSH.CAPT.MT	Capture fisheries production (metric tons)
14	14.4	ER.FSH.PROD.MT	Total fisheries production (metric tons)
14	14.5	ER.MRN.PTMR.ZS	Marine protected areas (% of territorial waters)
15	15.1	AG.LND.FRST.K2	Forest area (sq. km)
15	15.1	AG.LND.FRST.ZS	Forest area (% of land area)
15	15.1	ER.LND.PTLD.ZS	Terrestrial protected areas (% of total land area)
15	15.1	ER.PTD.TOTL.ZS	Terrestrial and marine protected areas (% of total territorial area)
15	15.5	EN.BIR.THRD.NO	Bird species, threatened
15	15.5	EN.FSH.THRD.NO	Fish species, threatened
15	15.5	EN.HPT.THRD.NO	Plant species (higher), threatened
15	15.5	EN.MAM.THRD.NO	Mammal species, threatened
16	16.1	VC.BTL.DETH	Battle-related deaths (number of people)
16	16.1	VC.IHR.PSRC.P5	Intentional homicides (per 100,000 people)
16	16.5	IC.FRM.BRIB.ZS	Bribery incidence (% of firms experiencing at least one bribe payment request)
16	16.5	IC.TAX.GIFT.ZS	Firms expected to give gifts in meetings with tax officials (% of firms)
16	16.9	SP.REG.BRTH.RU.ZS	Completeness of birth registration, rural (%)
16	16.9	SP.REG.BRTH.UR.ZS	Completeness of birth registration, urban (%)
16	16.9	SP.REG.BRTH.ZS	Completeness of birth registration (%)
17	17.1	GC.TAX.TOTL.CN	Tax revenue (current LCU)
17	17.1	GC.TAX.TOTL.GD.ZS	Tax revenue (% of GDP)
17	17.11	NE.EXP.GNFS.ZS	Exports of goods and services (% of GDP)
17	17.12	TM.TAX.MANF.SM.AR.ZS	Tariff rate, applied, simple mean, manufactured products (%)
17	17.12	TM.TAX.MANF.WM.AR.ZS	Tariff rate, applied, weighted mean, manufactured products (%)
17	17.12	TM.TAX.MRCH.SM.AR.ZS	Tariff rate, applied, simple mean, all products (%)

17	17.12	TM.TAX.MRCH.WM.AR.ZS	Tariff rate, applied, weighted mean, all products (%)
17	17.12	TM.TAX.TCOM.SM.AR.ZS	Tariff rate, applied, simple mean, primary products (%)
17	17.12	TM.TAX.TCOM.WM.AR.ZS	Tariff rate, applied, weighted mean, primary products (%)
17	17.13	NY.GDP.MKTP.CD	GDP (current US\$)
17	17.13	NY.GDP.MKTP.CN	GDP (current LCU)
17	17.13	NY.GDP.MKTP.KD	GDP (constant 2010 US\$)
17	17.13	NY.GDP.MKTP.KN	GDP (constant LCU)
17	17.13	NY.GDP.MKTP.PP.CD	GDP, PPP (current international \$)
17	17.13	NY.GDP.MKTP.PP.KD	GDP, PPP (constant 2011 international \$)
17	17.13	NY.GDP.PCAP.CD	GDP per capita (current US\$)
17	17.13	NY.GDP.PCAP.CN	GDP per capita (current LCU)
17	17.13	NY.GDP.PCAP.KD	GDP per capita (constant 2010 US\$)
17	17.13	NY.GDP.PCAP.KN	GDP per capita (constant LCU)
17	17.13	NY.GDP.PCAP.PP.CD	GDP per capita, PPP (current international \$)
17	17.13	NY.GDP.PCAP.PP.KD	GDP per capita, PPP (constant 2011 international \$)
17	17.13	NY.GNP.MKTP.KD	GNI (constant 2010 US\$)
17	17.13	NY.GNP.MKTP.KN	GNI (constant LCU)
17	17.13	NY.GNP.MKTP.PC.CD	GNI per capita (US\$)
17	17.13	NY.GNP.MKTP.PP.CD	GNI, PPP (current international \$)
17	17.13	NY.GNP.MKTP.PP.KD	GNI, PPP (constant 2011 international \$)
17	17.13	NY.GNP.PCAP.CD	GNI per capita, Atlas method (current US\$)
17	17.13	NY.GNP.PCAP.CN	GNI per capita (current LCU)
17	17.13	NY.GNP.PCAP.KD	GNI per capita (constant 2010 US\$)
17	17.13	NY.GNP.PCAP.KD.ZG	GNI per capita growth (annual %)
17	17.13	NY.GNP.PCAP.KN	GNI per capita (constant LCU)
17	17.13	NY.GNP.PCAP.PP.CD	GNI per capita, PPP (current international \$)
17	17.13	NY.GNP.PCAP.PP.KD	GNI per capita, PPP (constant 2011 international \$)
17	17.13	PA.NUS.PPP	PPP conversion factor, GDP (LCU per international \$)
17	17.13	PA.NUS.PRVT.PP	PPP conversion factor, private consumption (LCU per international \$)
17	17.17	IE.PPI.ENGY.CD	Investment in energy with private participation (current US\$)
17	17.17	IE.PPI.TELE.CD	Investment in telecoms with private participation (current US\$)
17	17.17	IE.PPI.TRAN.CD	Investment in transport with private participation (current US\$)
17	17.17	IE.PPI.WATR.CD	Investment in water and sanitation with private participation (current US\$)
17	17.18	IQ.SCI.OVRL	Overall level of statistical capacity (scale 0 - 100)
17	17.19	IQ.SCI.MTHD	Methodology assessment of statistical capacity (scale 0 - 100)

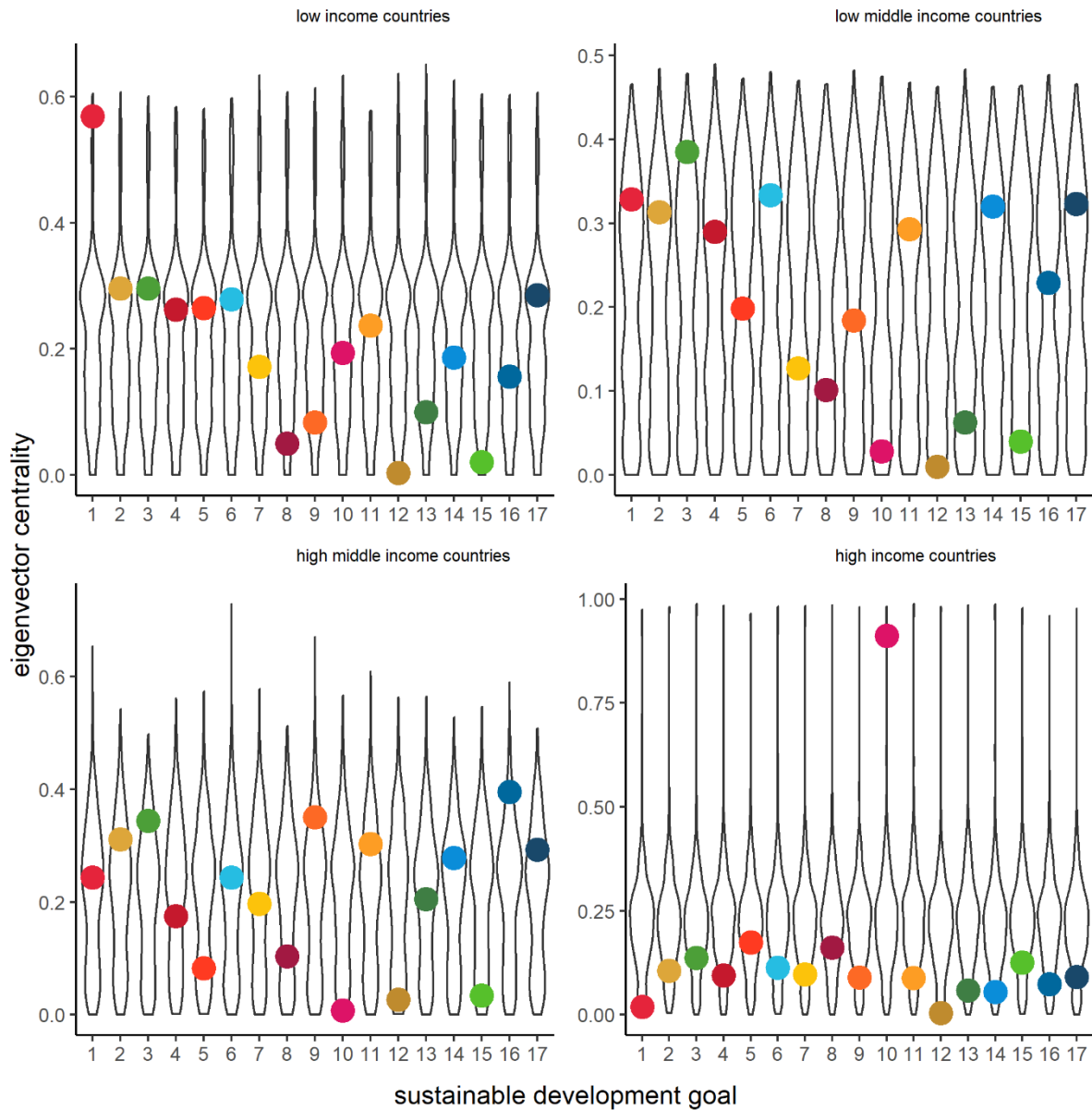
17	17.19	IQ.SCI.PRDC	Periodicity and timeliness assessment of statistical capacity (scale 0 - 100)
17	17.19	IQ.SCI.SRCE	Source data assessment of statistical capacity (scale 0 - 100)
17	17.2	DT.ODA.ALLD.CD	Net official development assistance and official aid received (current US\$)
17	17.2	DT.ODA.ODAT.CD	Net official development assistance received (current US\$)
17	17.3	BX.KLT.DINV.CD.WD	Foreign direct investment, net inflows (BoP, current US\$)
17	17.3	BX.KLT.DINV.WD.GD.ZS	Foreign direct investment, net inflows (% of GDP)
17	17.3	BX.TRF.PWKR.DT.GD.ZS	Personal remittances, received (% of GDP)
17	17.4	DT.TDS.DPPF.XP.ZS	Debt service (PPG and IMF only, % of exports of goods, services and primary income)
17	17.6	IP.PAT.NRES	Patent applications, nonresidents
17	17.6	IP.PAT.RESD	Patent applications, residents
17	17.8	IT.NET.USER.ZS	Individuals using the Internet (% of population)



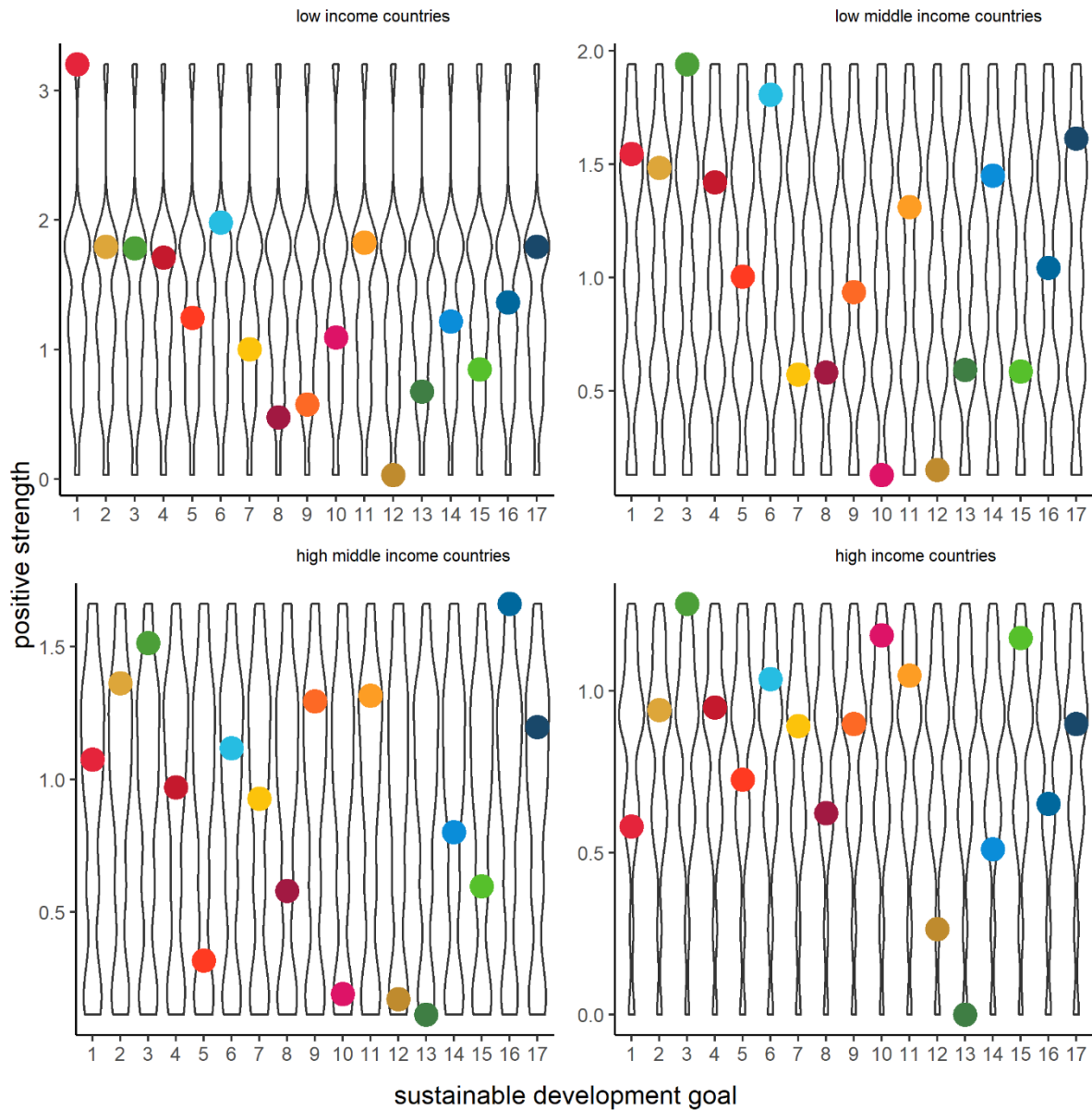
**Supplementary Figure 1.** The sustainome for low middle income countries (a), the contribution of each SDG to the reactivity of this sustainome (b) and the fate of all SDGs ( $a_{1000}$ , rows) as we intervene on each given SDG (column) given interactions in the sustainome (antagonistic groups of SDGs diverge towards  $+\text{Inf}$  and  $-\text{Inf}$ ).



**Supplementary Figure 2.** The sustainome for high middle income countries (a), the contribution of each SDG to the reactivity of this sustainome (b) and the fate of all SDGs ( $a_{1000}$ , rows) as we intervene on each given SDG (column) given interactions in the sustainome (antagonistic groups of SDGs diverge towards  $+\text{Inf}$  and  $-\text{Inf}$ ).

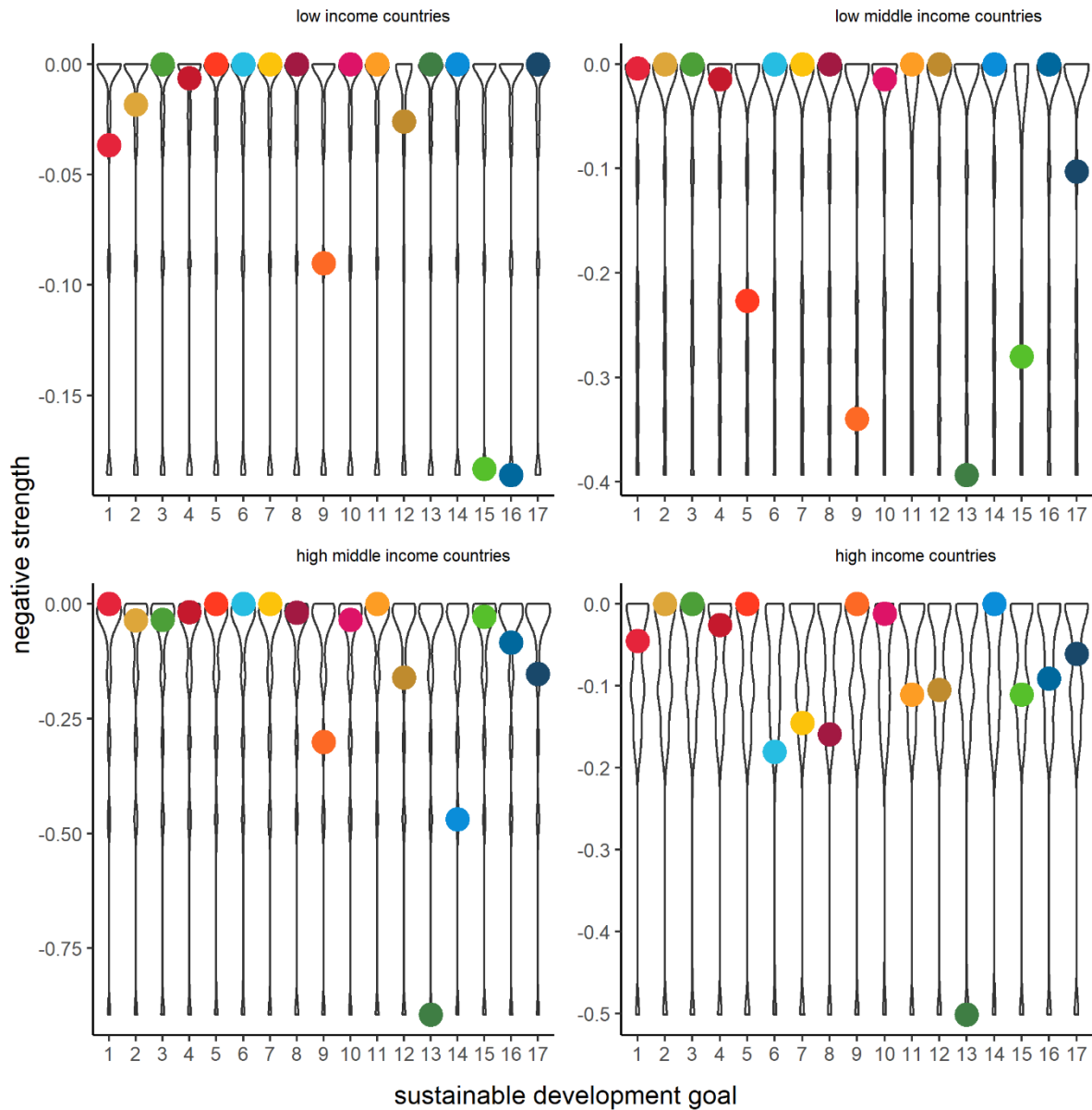


**Supplementary Figure 3.** Distribution (violin plots) of eigenvector centrality for each goal when associations among goals were randomised (1000 values for each goal emerging from 1000 randomisation of the SDG matrices). The observed eigenvector centrality is plotted (coloured dots) against these distributions. A plot was obtained separately for each country income level. The probability that we could obtain the observed eigenvector centrality for SDG 10 for high income country by chance was 0.003. The probability that we could obtain the observed eigenvector centrality for SDG 1 for low income country by chance was 0.009.

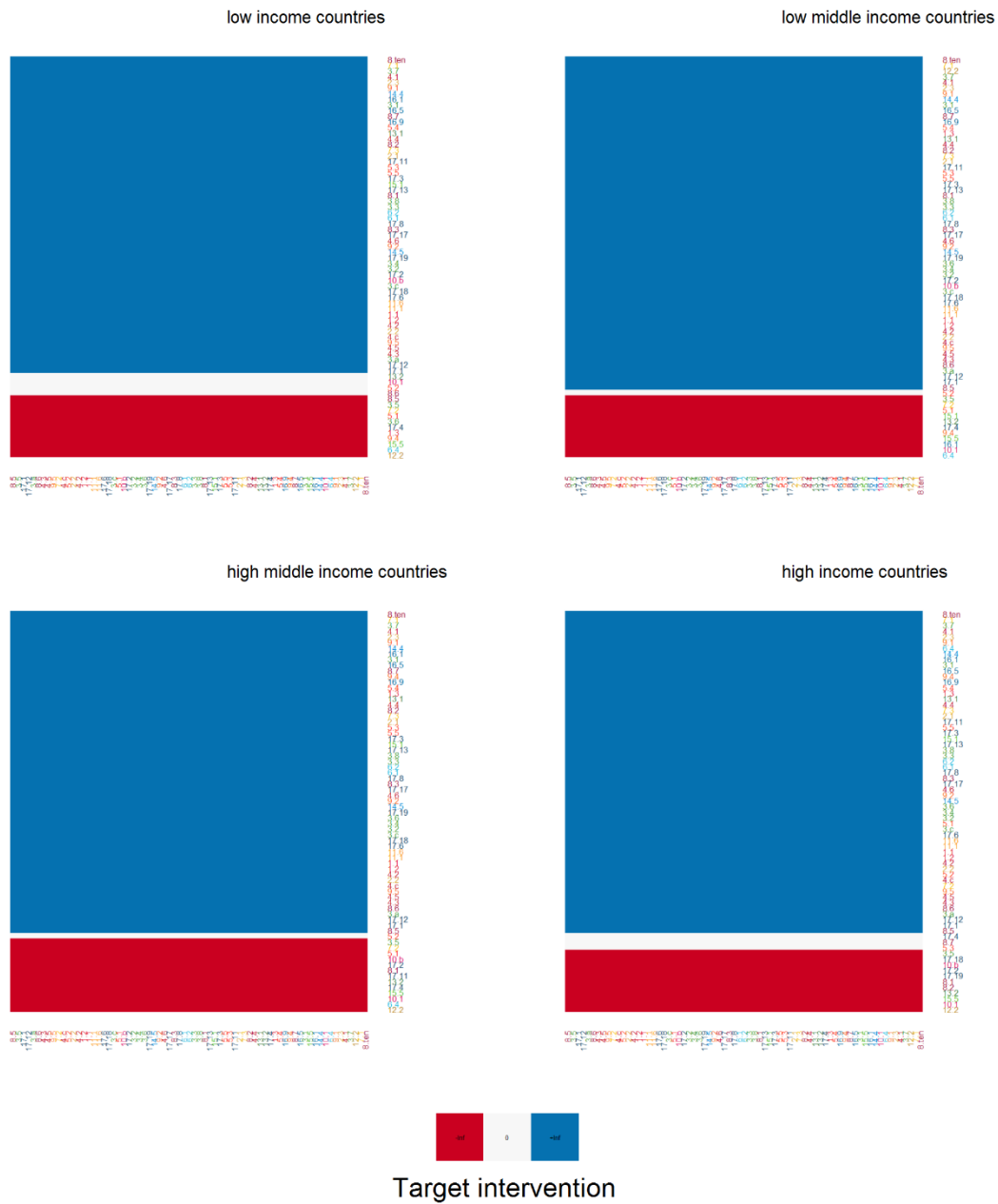


**Supplementary Figure 4.** Distribution (violin plots) of positive strength for each goal when associations among goals were randomised (1000 values for each goal emerging from 1000 randomisation of the SDG matrices). The observed positive strength is plotted (coloured dots) against these distributions. A plot was obtained separately for each country income level. The probability that we could obtain the observed positive strength for SDG 1 for low income country by chance was  $<0.001$ .

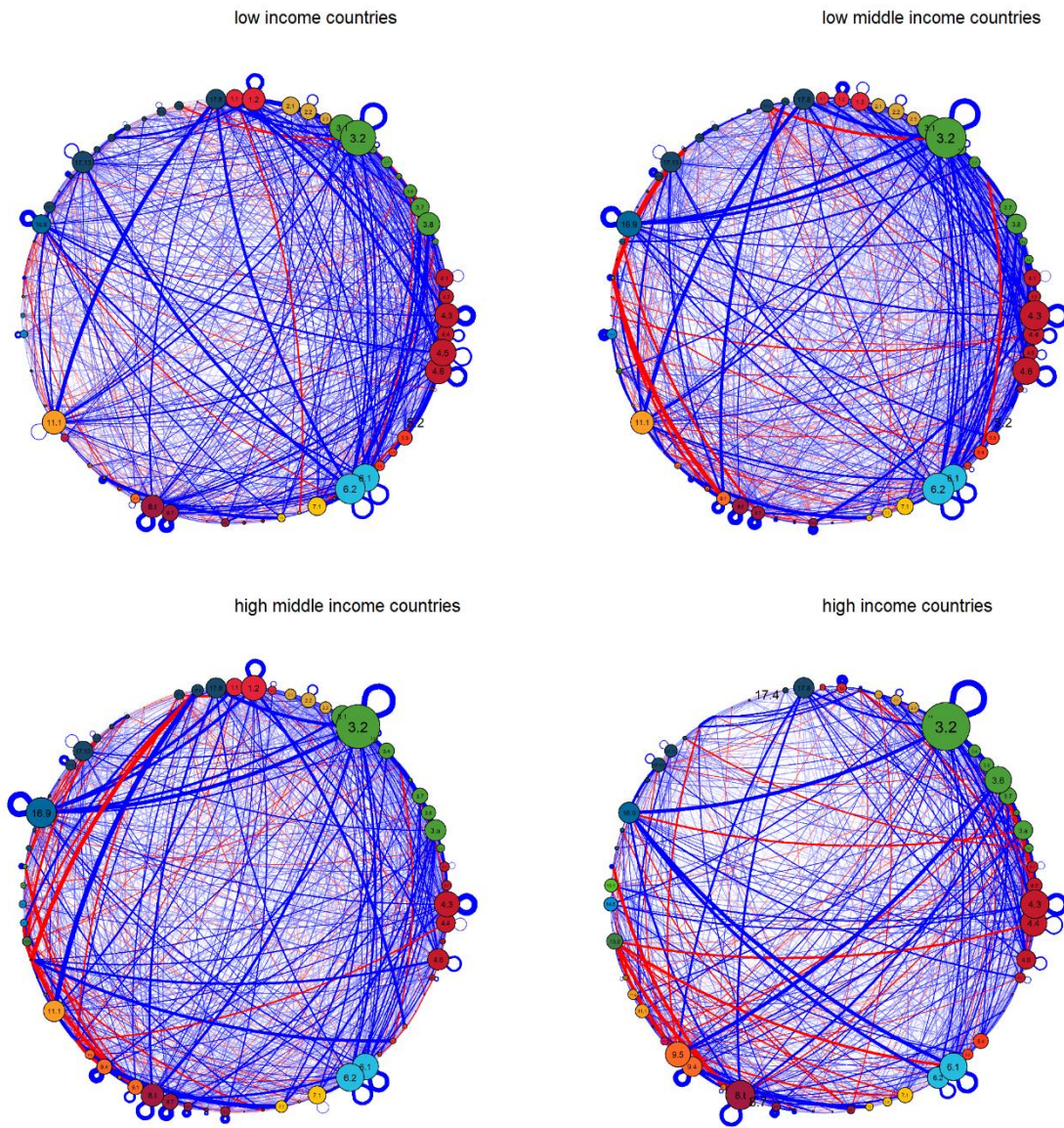




**Supplementary Figure 5.** Distribution (violin plots) of negative strength for each goal when associations among goals were randomised (1000 values for each goal emerging from 1000 randomisation of the SDG matrices). The observed negative strength is plotted (coloured dots) against these distributions. A plot was obtained separately for each country income level. The probability that we could obtain the observed negative strength for SDG 13 for high income country by chance was 0.06.

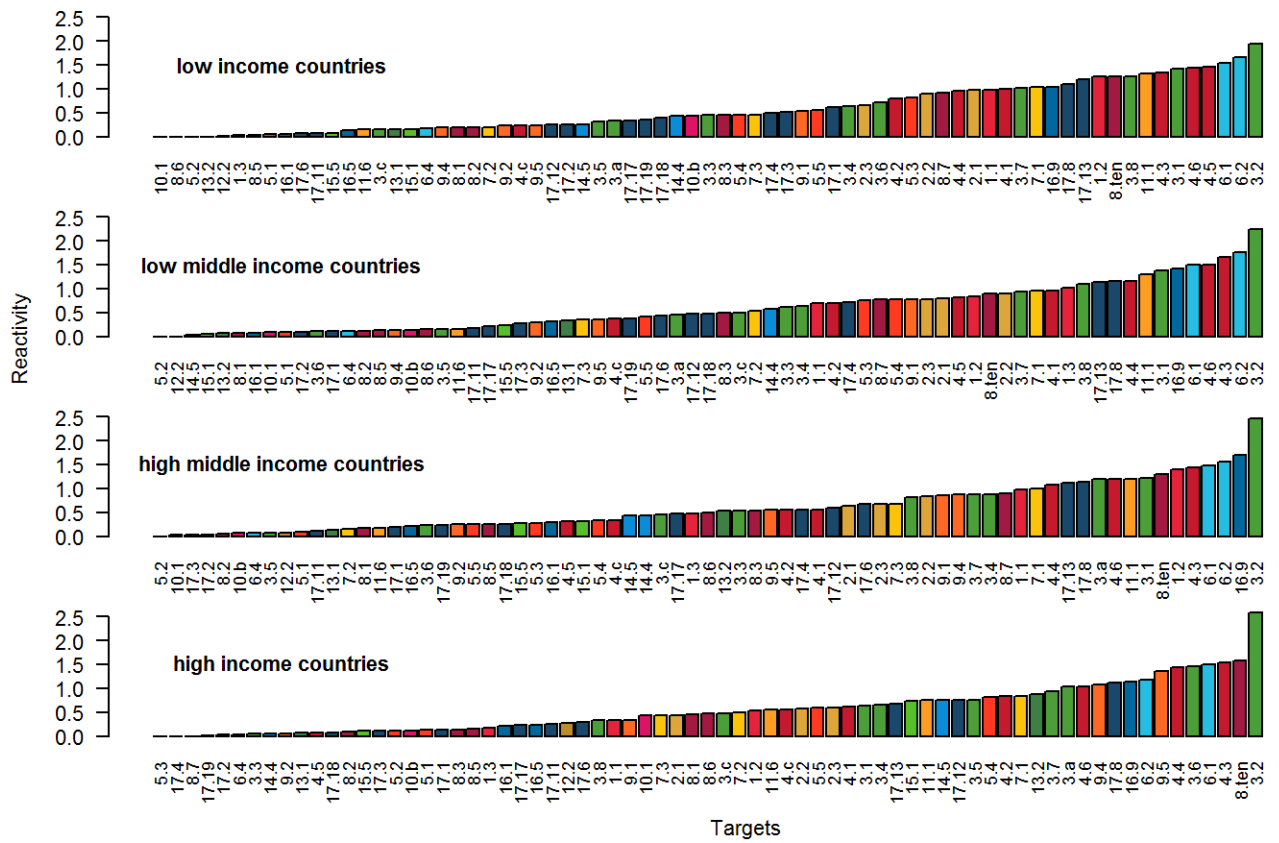


**Supplementary Figure 6.** the fate of all targets ( $a_{1000}$ , rows) as we intervene on each given target (column) given interactions in the target sustainome. Antagonistic groups of targets are identified by their direction through time (+Inf, zero or -Inf).

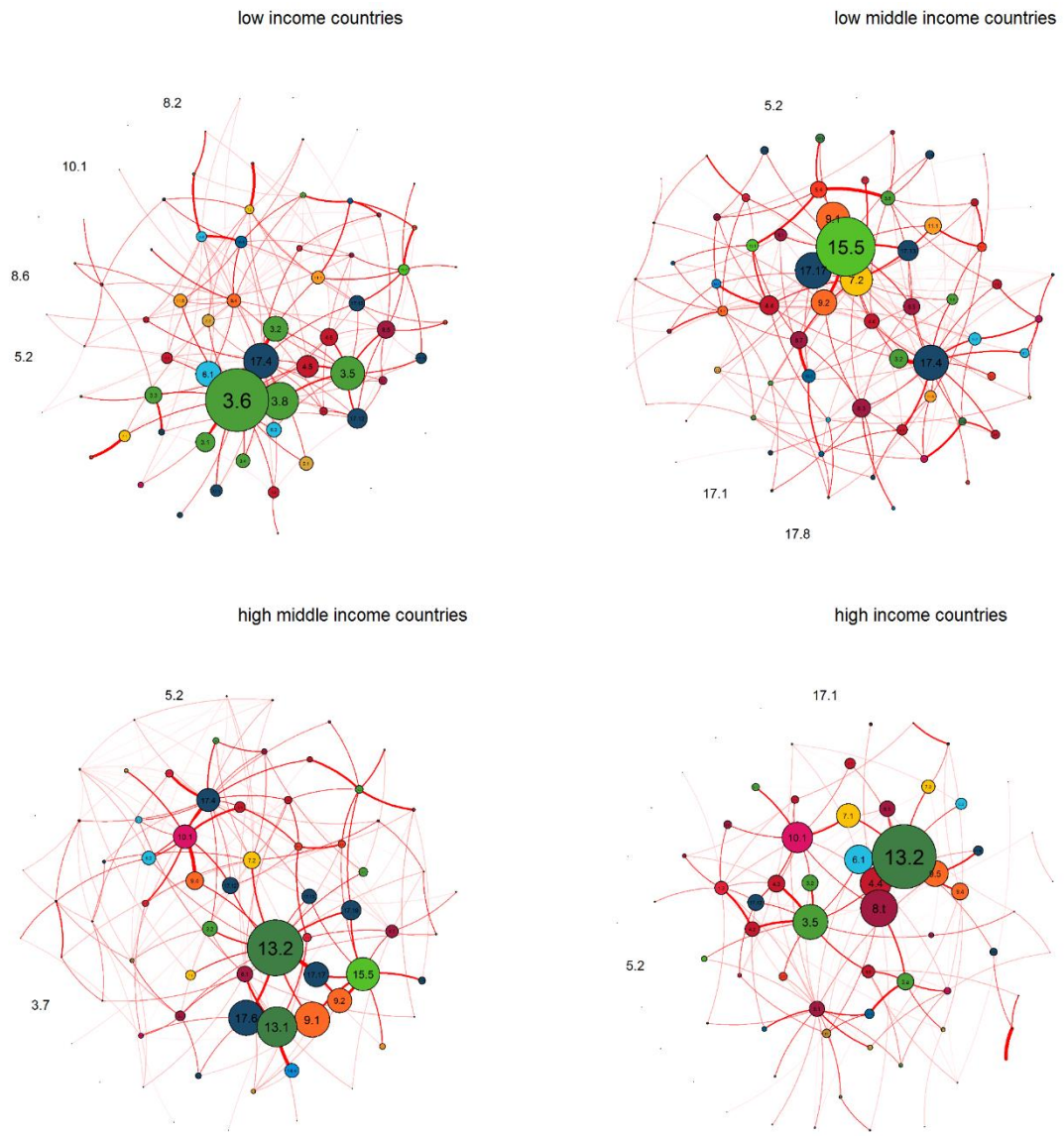


**Supplementary Figure 7.** Target sustainability for the four income categories. Nodes are targets or SDGs and edges are associations (positive in blue and negative in red) with the line thickness representing the magnitude ranging from -1 to 1. Node size corresponds to the target eigenvector centrality highlighting the structural importance of each node.





**Supplementary Figure 9.** Contribution of each target to the reactivity of each of the four target sustainomes.



**Supplementary Figure 10.** Subsets of the target sustainomes retaining only negative edges ( $A < 0$ ) to help visualise the main barriers in target interactions. Edges range  $[-1 ; 0[$  represented by line thickness. Node size is the eigenvector centrality of targets in this subset sustainome.