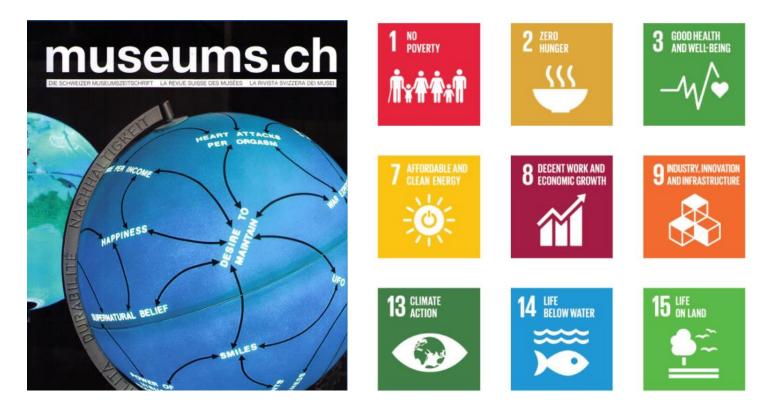
Swiss Museums – "localising" sustainability



Workshop Happy Museums Schweiz, 29. November 2018 Peter Jann

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Sustainability in Swiss Museums

Many good reasons



Sustainability – Taking on responsibilities



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Agenda 2030 17 UNO Sustainable Development Goals

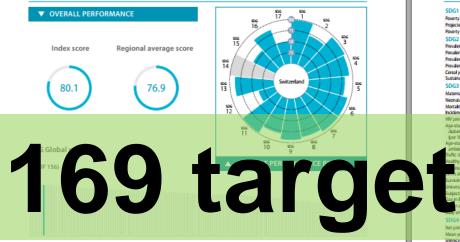


Agenda 2030 for Sustainable Development 17 goals – 169 targets– 100 to 200 indicators

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OECD Countries



CURRENT ASSESSMENT – SDG DASHBOARD

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None: The full title of Goal 2"Zero Hunger" is "End hunger, achieve food security and improved nutrition and promote sustainable agriculture".

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Performance by Indicator

	SDG1 – End Poverty	Mer	Ratin	i bend	
	Poverty headcount ratio at \$1.90/day (% population)	0.0	٠	+	Quality of overall infrastructure (1-extremely underdeveloped;
	Projected poverty headcount ratio at \$1.90/day in 2030 (% population)	0.0	•		7- extensive and efficient by international standards)
	Poverty rate after taxes and transfers, poverty line 50% (% population)	9.9	٠	-	Logistics performance index: Quality of trade and transport-relate infrastructure (1-low to 5-high)
	SDG2 – Zero Hunger				The Times Higher Education Universities Ranking, Average score of
	Prevalence of undernourishment (% population)	25	:		universities (0-100)
	Prevalence of stunting (low height-for-age) in children under 5 years of age (%) Prevalence of wasting in children under 5 years of age (%)	07		3	Number of scientific and technical journal articles (per 1,000 popul
	Prevalence of wasting in children under 5 years of age (%) Prevalence of obesity, BMI a: 30 (% adult population)	195	:	7	Research and development expenditure (% GDP)
	Cereal yield (t/ha)	51	-	4	Research and development researchers (per 1,000 employed)
	Sustainable Nitrogen Management Index	0.7	•		Triadic patent families filed (per million population) Gap in internet access by income (%)
	SDG3 - Good Health and Well-Being				Women in science and engineering (%)
	Maternal mortality rate (per 100,000 live births)	5.0		-	SDG10 - Reduced Inequalities
	Neonatal mortality rate (per 1,000 live births)	2.9	٠	-	Gini Coefficient adjusted for top income (1-100)
	Mortality rate, under-5 (per 1,000 live births)	4.1		+	Palma ratio
	Incidence of tuberculosis (per 100,000 population)	7.8	•	+	Elderly Poverty Rate (%)
	HIV prevalence (per 1,000)	0.1	•	*	SDG11 – Sustainable Cities and Communities
	Age-standardised death rate due to cardiovascular disease, cancer, diabetes, and chronic respiratory disease in populations age 30–70 years	8.7	٠	•	Annual mean concentration of particulate matter of less than 2.5
	(per 100,000 population)				of diameter (PM2.5) in urban areas (µg/m ³)
	Age-standardised death rate attributable to household air pollution and	83	٠		Improved water source, piped (% urban population with access)
4	ambient air pollution (per 100,000 population)				Satisfaction with public transport (%)
	Traffic deaths rate (per 100,000 population)	36 834	:	1	Rent overburden rate (%)
	Healthy Life Factors birth (years) iscert and a set 1,000 women ages 15-19)	3.1	2	3	SDG12 – Responsible Consumption and Producti
	by skilled white personnel (%)	100.0	2	1	E-waste generated (kg/capita)
	Surviving accived 2 WHD-recommended vaccines (%)	94.0		-	Anthropogenic wastewater that receives treatment (%)
	Universal Hes	86.2		÷.	Production-based SO ₂ emissions (kg/capita) Net imported SO ₂ emissions (kg/capita)
	Subjective Wellbeing (www.	7.5	٠	÷.	Reactive nitrogen production footprint (kg/capita)
	Sap in IV tancy at b ong regions (years)	13	٠	••	Net imported emissions of reactive nitrogen (kg/capita)
	n set come (0-100)	21.1	٠	••	Non-Recycled Municipal Solid Waste (VISW in kg/person/day)
	crany smokers (re-population age 15+)	20,4	•	••	SDG13 - Climate Action
	SDG4 – Quality Education				Energy-related CD2 emissions per capita (tCD2/capita)
	Net primary enrolment rate (%)	93.5	•	+	Imported CD ₂ emissions, technology-adjusted (tCD ₂ /capita)
	Mean years of schooling Literacy rate of 15-24 year olds, both sexes (%)	13.4 NA		•	Climate Change Vulnerability Monitor (best 0-1 worst)
	Population age 25-64 with tertiary education (%)	412	-	-	CO2 emissions embodied in fossil fuel exports (kg/capita)
	PISA score (D-600)	506.3	-		Effective Carbon Rate from all non-road energy, excluding emission
	HSA score (D-600) Variation in science performance explained by students' socio-economic				from biomass (6/tCO ₂)
	Variation in science performance explained by students' socio-economic status (%)	15.6	•		SDG14 - Life Below Water
	Variation in science performance explained by students' socio-economic status (%) Students performing below level 2 in science (%)	15.6 18.5	:	÷	SDG14 – Life Below Water Mean area that is protected in marine sites important to biodiversity
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	Visition in science performance explained by autorna' accid-economic state (%) Students performing below level 2 in science (%) Students performing below level 2 in science (%) Students performing below level 2 in science (%) Students of contraception, estimated (% women manied or in union, ages 15-40) Finale to male memary wars of schooling, population age 25 + (%) Finale to male memary wars of schooling, population age 25 + (%) Finale to male memary wars of schooling, population age 25 + (%) Finale to male have many wars of schooling, population age 25 + (%) Finale to male lubour force participation rate (%) State 45 by women in national particulation High-income countilex population using state metals memices (%) Figh-income countilex population using state driving ware services (%) High-income countilex population using state metals memices (%) Freehauer withdrawal as (%) tale menualities ware resources there counties population using state metals memices (%) Freehauer withdrawal as (%) tale menualities ware (%) Freehauer withdrawal as (%) tale menualities (%) State of menualities (%) population) Access to descript (%) (%) population) State of menualities (%) for population) State of menualities (%) for population) Adjust (%) Spars -) with an account za taket or other francial institution or with a mediae menuny-envice population (%)	156 18.5 29.1 9.3 98.5 84.8 32.5 16.9 95.5 NA 95.5 NA 95.5 NA 95.5 NA 95.5 NA 95.5 NA 95.5 NA 95.5 NA 95.5 NA 94.5 95.5 NA 94.5 95.5 NA 94.5 16.9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10			 SDG14 – Life Below Water Mean saw this spontchild music das-important to biofswary Ozan Hisahi hota Gad-Bao Water (\$1-00) Ozan Hisahi hota Gad-Bao Water (\$1-00) Ozan Hisahi hota Gad-Bao Water (\$1-00) Fab Socia overselystein of collapsed by EE (\$0) Fab Socia overselystein of collapsed by EE (\$0) Fab Casid hota Gad-Bao Water (\$1-00) Fab Socia overselystein of collapsed by EE (\$0) Fab Casid hota Gad-Fab Water (\$1-00) Mean and this potencial in theWater wise important to biodiver Mean and this potencial in theWater Water (\$1-00) Fab Casid hota Gad Water (\$1-00) Fab Casid (\$1-
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	Vializion in science performance explained by autorna' local-economic state (%) Students performing below level 2 in science (%) Students performing below level 2 in science (%) Students performing below level 2 in science (%) Students of the meany-avec of schooling, population age 25 + (%) Finale to male meany-avec of schooling, population age 25 + (%) Finale to male meany-avec of schooling, population age 25 + (%) Finale to male internation in surgering advances (%) State (%) Students from participation rate (%) State (%) Students from participation rate (%) State (%) Students (%) State (%) State (%) Finale to male internation in surgering advances (%) State (%) State (%) State (%) State (%) State (%) High-Access to descripting (%) State (%) State (%) Finale to male interpopulation using sciller measures (%) Finale-to main science (%) State (15.6 18.5 29.1 9.3 98.5 84.8 32.5 16.9 99.0 NA 99.0 NA 99.0 NA 4.4 100.0 100.0 100.0 98.5 8.7 100.0 98.8 8.7 8.7 8.9.1			SDG14 - Life Below Water Mean sub-thick protocold mode desimptorate to bolk-weakly Occan Hisbith Index Gal-Data Water (B-100) Occan Hisbith Index Gal-Data Water (B-100) Diff Social Government (B-100) Fish Cause (B-100) Fish Social Government (B-100) Mean and the globeload in reflection in instructions insprotrant to bolkness Annual draging in freez are (B-10) Formidde (grot (B-100) Find Government (B-100) Government (B-
	Visitation in science performance explained by autorna' tock-economic state (%) Students performing below level 2 in science (%) Redents sciences (%) SDGS – Gender Equality Unrend earnal for consequence, astimuted (% women manied or in union, ages 15–40) formals to male meany war of schooling, population age 25 + (%) Finals to male meany war of schooling, population age 25 + (%) Finals to male meany war of schooling, population age 25 + (%) Finals to male meany war of schooling, population age 25 + (%) Finals to male tock to face particulation rate (%) SDGG – Clean Water and Sanitation Right-kome counsies population using salely meanged water services (%) Right-kome counsies population (%) yale water (%) SDGG – Alfordbale and Cleane Energy Access to down in that combustor, releasing (%) propulation (%) SDGG – Alfordbale and Cleanergy consumption (%) SDGG – Alfordbale and State (%) Righward Somethy (%) SDGG – Alfordbale (%) SDGG – Alfordbale and Cleanergy consumption (%) SDGG – Alfordbale and State Right (%) SDGG – Alfordbale and Cleanergy consumption (%) SDGG – Alfordbale and Cleanergy consumptio	156 185 291 93 985 848 325 169 955 NA 74 84 1000 06 253 -02 1000 984 798 87			SDG14 - Life Below Water Mean sub-thick protocold mode desimptorate to bolk-weakly Occan Hisbith Index Gal-Data Water (B-100) Occan Hisbith Index Gal-Data Water (B-100) Diff Social Government (B-100) Fish Cause (B-100) Fish Social Government (B-100) Mean and the globeload in reflection in instructions insprotrant to bolkness Annual draging in freez are (B-10) Formidde (grot (B-100) Find Government (B-100) Government (B-

Quality of overall infrastructure (1 – extremely underdeveloped; 7– extensive and efficient by international standards)	6.6	٠	-	
Logistics performance index: Quality of trade and transport-related	42			
infrastructure (1-low to 5-high) The Times Higher Education Universities Ranking, Average score of top 3	746	:		
universities (0-100) Number of scientific and technical journal articles (per 1,000 population)	25	•		
Research and development expenditure (% GDP)	30	٠	••	
Research and development researchers (per 1,000 employed)	8,8	٠	1	
Triadic patent families filed (per million population)	142.A 47.2	•	•	
Gap in internet access by income (%) Women in science and engineering (%)	21.6	:		
	212			
SDG10 – Reduced Inequalities	34.6			
Gini Coefficient adjusted for top income (1-100) Palma ratio	1.1	2		
Elderly Poverty Rate (%)	19.4	•		
SDG11 – Sustainable Cities and Communities				
Annual mean concentration of particulate matter of less than 2.5 microns of diameter (PM2.5) in urban areas (µg/m ³)	12.9	•	۴	
Improved water source, piped (% urban population with access)	100.0	•	-	
Satisfaction with public transport (%)	84.0	•	÷	
Rent overburden rate (%)	63	٠		
SDG12 – Responsible Consumption and Production				
E-waste generated (kg/capita)	26.3	•		
Anthropogenic wastewater that receives treatment (%)	97.D	٠		
Production-based SO ₂ emissions (kg/capita)	17	٠		
Net imported SO ₂ emissions (kg/capita)	34,4 58,4	:		
Reactive nitrogen production footprint (kg/capita) Net imported emissions of reactive nitrogen (kg/capita)	432,4	1		
Non-Recycled Municipal Solid Waste (MSW in kg/person/day)	1.8			
SDG13 - Climate Action				
Energy-related CD2 emissions per capita (tCDs/capita)	43	٠	1	
Imported CD ₂ emissions, technology-adjusted (tCD ₂ /capita)	0.9	٠		
Climate Change Vulnerability Monitor (best 0-1 worst) CO ₂ emissions embodied in fossil fuel exports (ka/capita)	2.1	:		
Effective Carbon Rate from all non-road energy, excluding emissions from biomass (E/ACD)	28.6	÷		
SDG14 – Life Below Water				
Mean area that is protected in marine sites important to biodiversity (%)	NA	٠	••	
Ocean Health Index Goal-Biodiversity (0-100)	NA	٠	••	
Ocean Health Index Goal-Clean Waters (0-100)	NA	٠	••	
Ocean Health Index Goal-Fisheries (0-100)	NA NA	:		_
Fish Stocks overexploited or collapsed by EEZ (%) Fish caught by trawling (%)	NA	5		
SDG15 - Life on Land	195			3
			-	PART
	26.2			
Mean area that is protected in terrestrial sites important to biodiversity (%)	35.2 59.9	:	4	
		:	\$	ŧ
Mean area that is protected in terrestrial sites important to biodiversity (%) Mean area that is protected in fleshwater sites important to biodiversity (%)	59.9	:	**	#
Mean area that is protected in terrestrial sites important to biodiversity (%) Mean area that is protected in feedwater sites important to biodiversity (%) Red List Index of species survival (0-1)	59.9 1.0	:	***	4,000
Mean area that is protected in terrestrial sites important to biodiversity (%) Mean area that is protected in feedmater sites important to biodiversity (%) Red List Index of species survival (0-1) Annual change in forest area (%)	59.9 1.0 1.8	:	***	4. COOM
Mare are that is potentiat in montail desimptorters to biofwork (%) Mare are that is potential in Montaina desimptorters to biofwork (%) Red List Index of species survival (0-1) Annual durage in Exerca are (%) Imponed biofwork y hauss themas per million population) SDG16 – Peace, Justice and Strong Institutions Homidals (per 10000 population)	59.9 1.0 1.8 26.1	:	***	H. COONTRI
Mean area that is protected in terrestal aleas important to blockwarky thi) Main area that is protected in helemater areas important to blockwarky (%) Red List Index of explores survival (F). Annual drange in forcer area (%) Imported blockwarky threats threat per million population() SDG16 – Peace, Justice and Strong Institutions Homidski (per 100,000 population) Frien population (per 100,000 population)	59.9 1.0 1.8 26.1 0.7 78.3	:	***	4. COONTRE
Mara and har is potential in menutal desimptants to biofixenity (%) Mara and that is potential in Mediana and astrophotometro biofixenity (%) Red List Index of process survival (0-1) Annual change in foreits area (%) imponde biofixenity in mars (threates per million population) SDG16 – Peace, Justice and Strong Institutions Homicals (per 100000 population) Prices population (per 100,000 population) Prices population (per 100,000 population)	59.9 1.0 1.8 26.1 0.7 78.3 85.0	:	****	4. COONTRE
Mean as that is postened in investuid also important to biodiverally (%) Mean as with its postened in indiverse training more to biodiverally (%) Red List Indiver of postens are (%) Imported biodiversity threats threats per million population() SOCII = - Peace, Justice and Strong Institutions Homidatis (per 100,000 population) Pisco position (per 100,000 population) Reputation who field also validing date at right in dy or asia when they ke (%) Government Efficiency (1-7)	59.9 1.0 1.8 26.1 0.7 78.3	:	++++	4. COUNTRE PROF
Mara and har is potential in menutal desimptants to biofixenity (%) Mara and that is potential in Mediana and astrophotometro biofixenity (%) Red List Index of process survival (0-1) Annual change in foreits area (%) imponde biofixenity in mars (threates per million population) SDG16 – Peace, Justice and Strong Institutions Homicals (per 100000 population) Prices population (per 100,000 population) Prices population (per 100,000 population)	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5	•••••••••••••••••••••••••••••••••••••••	****	4. COUNTRE PROF
Mara and har is postencial in winestial des important to bioliversky (%) Mara and that is protected in Nedwards and simportant to bioliversky (%) Red List Index of gracies survival (b-1) Annual change in forest area (%) imported bioliversky huasts (threates per million population) SDG16 – Peace, Justice and Strong Institutions Homicals (per Indood population) Prices population (per IN0,000 population) Proton population (per IN0,000 population) Population who field availing dates are right in dry or acts where they kee (%) Government Efficiency (1-7) Birth registrations with old autority, childen under 5 years of age (%) Company Registration Index (P-100)	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0	•••••••••••••••••••••••••••••••••••••••	+++++	4. COONTRE
Mean are that is postened in investuid also importance to biodiverally (%) Mean are that is postened in indiverse attributions biodiverally (%) Red List Indiver of postens are (%) Invested biodiverse are (%) SOGIA = Peace, Justice and Strong Institutions SOGIA = Peace, Justice and Strong Institutions Homissitis (par 100,000 population) Reputation who field also vallets gates at right in dy or assumes they ker (%) Government Efficiency (1-7) Property Rights (1-7) Print registrations with cell authority, children under 5 years of age (%) Company Neuropsino Micke (3-04)	59.9 1.0 1.8 26,1 78,3 85,0 5,5 6,6 100,0 85,0 0,0		*****	4. COUNTRE PROF
Mara are that is postened in invested also importance to biodiverity (%) Mara are that is postened in indiverse training more to biodiverity (%) Red List Indiver of postens are (%) Annual charge in Informat area (%) Imported biodiversity threats threats per million population) SOCIA = Peace, Justice and Strong Institutions SOCIA = Peace, Justice and Strong Institutions Residents (per 100,000 population) Residents (per 100,000 population) Reputation who field allowalking dates at right in dy orasis where they kee (%) Government Efficiency (1-7) Respert Reports (1-1) Rethin egostations with civit authority, children under 5 years of age (%) Compton Reception Indive (>1-00) Transfers of major conventional weapons (sieports) Exernance 1990(100) population)	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0	•••••••••••••••••••••••••••••••••••••••	+++++	4. COUNTRE PROF
Mara and har is postencial in winestial desimportant to bioliverity (%) Mara and har is protected in Nedward Servingmant to bioliverity (%) Prol List Index of greacies survival (%) Provide Service Interact and (%) Provide Service Index and Serving Institutions Homodes (per 100000 population) Principalitation (per 100,000 population) Prince population (per 100,000 population) Diables – 14 years cell involved in child Libour (%) Econator (%) Econat	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4	•••••••••••••••••••••••••••••••••••••••	*****	4. COUNTRE PROF
Mara are that is postened is invested also importance to biodiverity (%) Mara are that is postened in indiverse training more to biodiverity (%) Red List Indiver of postens are (%) Internationary in Intera are (%) Internationary in Intera are (%) Internationary in Intera are (%) Internationary intera and interactionary (%) Internationary intera and interactionary (%) Internationary interactionary (%) Internationary	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4		*****	4. COUNTRE PROF
Mara are that is postered in investigations important to biodiversity (%) Mara are that is protected in indiverse are similary term to biodiversity (%) Real List Indian of greacies survival (%) Annual charge in Informat ana (%) Homicals (part Indiana and Strong Institutions Homicals (part Indiana) Micro Topolation (per 100,000 population) Pictor Topolation (helde P-long) Children 5-14 years cell involved in child Libour (%) Constant's of Anger Commercial wages (separt) Constant's (Micro Technistics (Pictor) Constant's (Pictor) Constan	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4	•	*****	4. COUNTRE PROF
Mara are that is postened is invested also importance to biodiverity (%) Mara are that is postened in indiverse training more to biodiverity (%) Red List Indiver of postens are (%) Internationary in Intera are (%) Internationary in Intera are (%) Internationary in Intera are (%) Internationary intera and interactionary (%) Internationary intera and interactionary (%) Internationary interactionary (%) Internationary	59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4	•••••••••••••••••••••••••••••••••••••••	*****	4. COUNTRE PROF
Mara are that is postered is invested also imported to biodiverly (%) Mara are that is postered in indiverse training month to biodiverly (%) Red List Indiver of posters are (%) Imported biodiverse are (%) Imported biodiverse are (%) Imported biodiverse are (%) Imported biodiverse (%) SOG16 = Parce, justice and Strong Institutions Imported biodiverse (%) Imported biodiverse (%) Impor	59,9 1.0 1.8 26,1 78,3 85,0 5,5 6,6 100,0 85,0 0,0 3,4 16,8 0,5	•••••••••••••••••••••••••••••••••••••••	*****	4. COUNTRE PROF
Mean as that is postened in investual data importance to blockwarky (%) Mean as that is postened in indiversary to investigation to blockwarky (%) Red List Indiversaria (%) Meanal change in Intera arae (%) Meanal change in Intera arae (%) SOCIS – Peace, Justice and Strong Institutions SOCIS – Peace, Justice and Strong Institutions Mean position (%) Provide the Interaction (%) Bookstone (%) Provide (%) Provide (%) Compared to the Meanage (%) Provide (%) Compared to the Meanage (%) Provide (%) Compared (%) Provide (%) Provide (%) December (%) Provide (59.9 1.0 1.8 26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4 16.8 0.5 NA	•••••••••••••••••••••••••••••••••••••••	*****	4. COUNTRE PROF

Value Rating Trend

<u>naturama</u>

SWITZERLAND OECD Countries ▼ OVERALL PERFORMANCE 906 17 15 Index score Regional average score 906 14 966 13 80.1 76.9 900 112 100 1^{s Global} 69 CURRENT ASSESSMENT – SDG DASH j, ††i ŧÊı ▼ SDG TRENDS 1 POVERY 2 111 3 CONTINUES 4 CONTY 5 CENER 6 AND AMERICA 1 \rightarrow -> 7 **>** 7 → ... Т 10 REDUCED 11 SECURATE STUD 12 CONSIDER 13 ALTER 14 10.000 15 Ut. 16 PLACE AND THE ADDITIONS 17 PARTNERSHIPS 1 1 Ϯ 7

SWITZERLAND

Performance by Indicator

DG1 – End Poverty	Mar	Rating	; lend		Value	Rativ	9 T
werty headcount ratio at \$1.90/day (% population)	0.0			Quality of overall infrastructure (1 = extremely underdeveloped; 7 = extension and efficient by inner science (modified)	6.6	•	
ojected poverty headcount ratio at \$1.90/day in 2030 (% population) werty rate after taxes and transfers, poverty line 50% (% population)	0.0			7= extensive and efficient by international standards) Logistics performance index: Quality of trade and transport-related	42		
DG2 - Zero Hunger	1.3			infrastructure (1=low to 5=high)		•	
evalence of undernourishment (% population)	25			The Times Higher Education Universities Ranking, Average score of top 3 universities (D-100)	74.6	٠	1
evalence of stunting (low height-for-age) in children under 5 years of age (%)	26	•	-	Number of scientific and technical journal articles (per 1,000 population)	25		
evalence of wasting in children under 5 years of age (%)	0.7	٠	•	Research and development expenditure (% GDP)	30	-	
evalence of obesity, BMI ≥ 30 (% adult population)		:	\$	Research and development researchers (per 1,000 employed)	8.8		
veal yield (z/ha) istainable Nitsogen Management Index			7	Triadic patent families filed (per million population)	142,4		1
DG3 - Good Health and Well-Being				Gap in internet access by income (%)	472		
aternal mortality rate (per 100,000 live births)	5.0		-	Women in science and engineering (%)	21.6	•	
ionatal mortality rate (per 1,000 live births)		•	4	SDG10 – Reduced Inequalities	34.6		
ortality rate, under-5 (per 1,000 live births)	4.1		÷	Gini Coefficient adjusted for top income (1-100) Palma ratio		-	
cidence of tuberculosis (per 100,000 population)		•	+	Elderly Poverty Rate (%)	19.4	-	
V prevalence (per 1,000) je-standardised death rate due to cardiovascular disease, cancer,	0.1		2	SDG11 – Sustainable Cities and Communities			
e-standardised death rate due to cardiovascular disease, cancer, liabetes, and chronic respiratory disease in populations age 30–70 years	8.7	•	*	Annual mean concentration of particulate matter of less than 2.5 microns	12.9		
per 100,000 population)				of diameter (PM2.5) in urban areas (µg/m ³)			
e-standardised death rate attributable to household air pollution and	8.3	٠	••	Improved water source, piped (% urban population with access)	100.0		1
mbient air pollution (per 100,000 population) Sc deaths rate (per 100,000 population)	36		4	Satisfaction with public transport (%) Rent overburden rate (%)	84D 63		1
terretaria de la recepción popularia de la recepción de la rec	83.4		4	SDG12 – Responsible Consumption and Production			
per 1,000 women ages 15-19)	3.1	٠	÷	E-waste generated (kg/capita)	26.3		
stilled waar personnel (%)	100.0	٠		Anthropogenic wastewater that receives treatment (%)	97.0		
solved 2 WHD-recommended vaccines (%)	94.0 86.2	:	1	Production-based SO ₂ emissions (kg/capita)	17	٠	
er Index (0-100) Eder score, 0-100	7.5	2	3	Net imported SD ₂ emissions (kg/capita)	34,4		
ong regions (years)	13			Reactive nitrogen production footprint (kg/capita)	58,4		
Vie (0-100)	21,1	٠		Net imported emissions of reactive nitrogen (kg/capita) Non-Recycled Municipal Solid Waste (MSW in kg/person/day)	432,4		
	20,4	٠	••	SDG13 - Climate Action			
				Energy-related CD2 emissions per capita (tCD2/capita)	43		
	93.5	٠	+	Imported CD ₂ emissions, technology-adjusted (tCD ₂ /capita)			
	13,4	•	•	Climate Change Vulnerability Monitor (best 0-1 worst)			
	41.2	-	4	CO2 emissions embodied in fossil fuel exports (kg/capita)		٠	
	506.3			Effective Carbon Rate from all non-road energy, excluding emissions from biomass (6/tCD ₂)	28,6	٠	
students' socio-economic	15.6			SDG14 - Life Below Water			
			4	Mean area that is protected in marine sites important to biodiversity (%)	NA		
The second se	29.1			Ocean Health Index Goal-Biodiversity (0-100)	NA	÷	
A STATE OF A	4.0.4			Ocean Health Index Goal-Clean Waters (0-100)	1.000	٠	
% women married or in	50	•	-	Ocean Health Index Goal-Fisheries (0-100)	NA	•	
				Fish Stocks overexploited or collapsed by EEZ (%)		•	
pulation age 25 + (%)	98.5		••	Fish caught by trawling (%)	NA	•	
20 (%) (15 (%)	84.8 32.5		;	SDG15 – Life on Land Mean area that is protected in terrestrial sites important to biodiversity (%)	35.2		
(mage)	16.9		-	Mean area that is protected in freshwater sites important to biodiversity (%) Mean area that is protected in freshwater sites important to biodiversity (%)	59.9	-	l,
nitation	10.5			Red List Index of species survival (D-1)	1.0		
			٠	Annual change in forest area (%)	18	٠	
	95.5						
using safely managed water services (%)		:		Imported biodiversity threats (threats per million population)	26.1	٠	
				SDG16 - Peace, Justice and Strong Institutions	26.1		
Ising safely managed water services (%) Ig at least basis driving water services (%) John using safely managed sentiation services (%) John using at least basis carritation services (%)	NA 99.0 NA	•	÷	SDG16 – Peace, Justice and Strong Institutions Homicides (per 100,000 population)	26.1	•	
sing citily managed water services (%) og at least basic dinking water services (%) inten using stilly managed services (%) som using at least basic cantation services (%) owal as % total menweable water resources	NA 99.0 NA 7.4	•	;	SDG16 – Peace, Justice and Strong Institutions Homicides (per 100,000 population) Prison population (per 100,000 population)	26.1 07 78.3	:	
Lang alikiy managed water services (k) ung at least basic chining water services (k) con using stilly managed nationation winkers (k) non using at least basic services (k) mena as % total menvedik water resources performant deplotion (m/kyaa/capita)	NA 99.0 NA	•	;	SDG16 – Peace, Justice and Strong Institutions Homicides (per 100,000 population) Pricen population (per 100,000 population) Papulation who fiel as wailing abneat might in city or area where they live (H)	26.1	•	
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Ang alky maraget water meases (w) or at least back dening water renders (w) on using alky managet and alky on the set on using alky managet and alky on the set on using alky maraget and set on the set of the s	NA 99.0 NA 7.4 8.4	•	;	SDG16 - Peace, Justice and Strong Institutions Homissie (pr. 10000 population) Piton population (per 10,000 population) Pipulation veb data Havilang parear anglint chy or area when they kee (%) Government Efficiency (1-7) Piperty Tilgitst (1-7) Birth majorations with olik authority, children under 5 years of age (%) Comprison Presention Inside (3-00	26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0	:	
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And participation of the second secon	NA 99.0 NA 7.4 8.4 100.0 100.0 0.6	•		SDG16 - Peace, Justice and Strong Institutions Homissie (pr. 10000 population) Piton population (per 10,000 population) Pipulation veb data Havilang parear anglint chy or area when they kee (%) Government Efficiency (1-7) Piperty Tilgitst (1-7) Birth majorations with olik authority, children under 5 years of age (%) Comprison Presention Inside (3-00	26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0		
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And pathy managehouse wrises (%) is a that batter write write managehouse the	NA 99.0 NA 7.4 8.4 100.0 100.0 0.6 25.3 -0.2	· · · · · · · · · · · · · · · · · · ·		SOG16 – Peace, Justice and Strong Institutions Hernicals (pr. 10000 population) Pion population (pr. 10000 population) Typulation veh bolt de walking planet and planet dray takes (%) Government Efficiency (1-7) Birch registrations (1-7) Birch registrations with olik authority, children under 5 years of age (%) Comparison Prevention Index (%) and blob of %) Tanaffriss of registration Index (%) Children 5-14 years ciki indexid in child blob of %) Tanaffriss of registration Index (%) and blob of %) Tanaffriss of registration part (30,000 spokularion) SDG17 – Partnenships for the Goals Government Health and Elocation sponding (% CDP) High-Income and IGCEDD AC counters from addicat concessional	26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4		
Andra staff, managet news merias (N) or a text bate intering water merias (N) or an exploring (N) or an exploring (N) or an exploring (N) or an explored (N) are of merias (N) or an explored (N) are of merias (N) are of merias (N) are of merias (N) are of merias (N) are stored (N) water (N) water (N) with a media-meria) explored (N)	NA 99.0 NA 7,4 8,4 100.0 0,6 25.3 -0,2 100.0 98,4	•		SOG16 – Peace, Justice and Strong Institutions Homiologic (per 100,000 population) Price population (per 100,000 population) Population who that date walking during a first dy or axis where they live (%) Compared Tellines (fi-27) Brien registrations with with authority, children under 5 years of age (%) Comparison Pricespiton Intel (%) Comparison Pricespiton Intel (%) Tanditors of major commerciant weights (%	26.1 0.7 78.3 85.0 5.5 6.6 100.0 85.0 0.0 3.4 16.8 0.5	•	
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Nexts: The full title of Gail 2"Zero Hunger" is "End hunger, achieve food security and improved nutrition and premote sustainable agriculture".

PART 4. COUNTRY PROFILES

<u>naturama</u>

Where do I start?

- Make a choice: select those issues where you have influence.
- Make it local: Define what success on your chosen SDG looks like in your community.
- Collaborate: Find partners that can help you achieve your local goal.
- Focus on impact, not commitments. The SDGs are a funding and PR opportunity for museums.
- Spread the message.

(according to Jasper Visser, https://themuseumofthefuture.com/author/jaspervisser/,19.9.2018)

Energy





«Aarau lives 2000 Watt»

How is culture relevant?

- By involving creative voices in the design of educational and awareness-raising activities
- By fostering an understanding of the cultural factors that underpin energy production and consumption
- Organisational ecology

Based on: Draft Culture in the Sustainable Development Goals: A Guide for Local Action, Agenda 21 for Culture & Committee on Culture of the world association of United Cities and Local Governments

Waterconsumption & energy







Der letzte Ausstellungsraum bietet Besucherinnen und Besuchern Gelegenheit zur Reflexion über die Wasser-Zukunft. Sechs Fragen regen an, Erfahrungen, Wünsche, Ängste und Hoffnungen an die Nachgeborenen zu formulieren. Die Botschaften werden in eine Boje gelegt, die das Alpine Museum auf dem «Laga della Piazza» im Gotthardgebiet auswassen wird. Im. Jahr 2051, soll der Inbalt der übertaben dersteine übersteine Bergeben

Alpine Museum «Our Water»

How is culture relevant?

- By recognizing traditional knowledge and practices that ensure an appropriate, sustainable use of water-related ecosystems.
- By fostering an understanding of the cultural factors that underpin energy production and consumption.

Based on: Draft Culture in the Sustainable Development Goals: A Guide for Local Action, Agenda 21 for Culture & Committee on Culture of the world association of United Cities and Local Governments

Consumption & sustainable cities





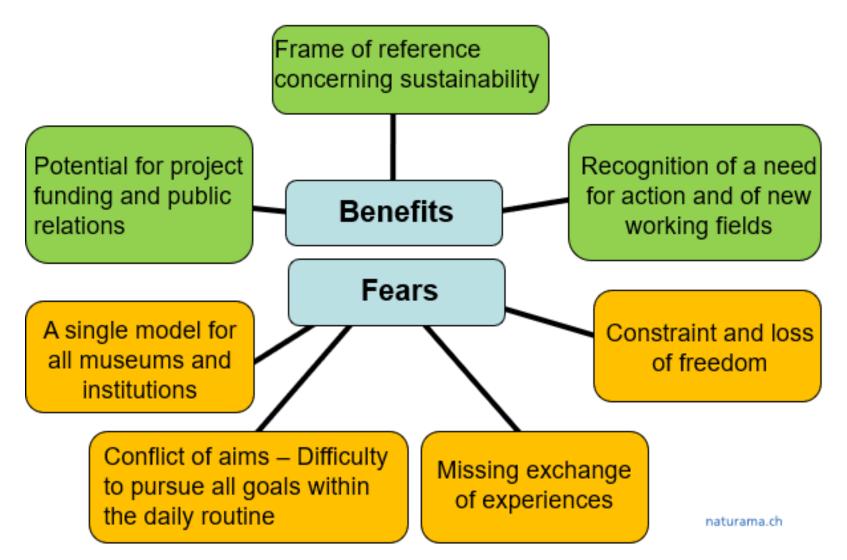
«autumnal market Aarau»

How is culture relevant?

- By fostering an appreciation of local, traditional products
- By adopting measures to protect cultural heritage and explore its role in sustainable local development.
- By ensuring that green and public spaces are accessible and allow for the development of cultural activities

Based on: Draft Culture in the Sustainable Development Goals: A Guide for Local Action, Agenda 21 for Culture & Committee on Culture of the world association of United Cities and Local Governments

Conclusions



SDGs and ,Happy Museum'

