Environmentally related SDG indicators

Experiences and challenges in the monitoring of the SDG indicators

Kaia Oras Fifth Meeting of the Expert Group on Environment Statistics UNSD, New York, 16-18 May 2018



Coordination mechanism: main players

Implementing the 2030 Agenda and National Sustainable Development Strategy:

- **Government Office** is a central coordinator (Strategy Unit)
- Inter-ministerial Working Group for Sustainable Development (ministries and Statistical Office)
- Estonian Sustainable Development Commission (nongovernmental organizations, stakeholders)

Compilation of SDIs and the role of statistical office

Agreement of indicator framework and selection principles

Government Office Strategy Unit, inter-ministerial Working Group for Sustainable Development, Statistics Estonia

Proposal and discussion of indicators

Sustainable Development Commission, Government Office Strategy Unit, inter-ministerial Working Group for Sustainable Development, Statistics Estonia

Approval of the list of indicators

Sustainable Development Commission

Preparation of datasets for the indicators

Publication of indicators

Inter-ministerial Working Group for Sustainable Development, Statistics Estonia

Statistics Estonia

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Basic national indicator framework relevant to Estonian Sustainable Development Strategy "Sustainable Estonia 21" (2005) and transition to SDG framework



Strategic framework for SD in Estonia

- Sustainable Development Law (1995)
- Estonian Sustainable Development Strategy "Sustainable Estonia 21" (2005)

Estorian National Strategy on Sustainable Development Sustainable Estonia 2 Four interconnected developmet goals

- Viability of Estonian cultural space
- Growth of welfare
- Coherent society
- Ecological balance

Less than 100 sustainable development indicators relevant to 4 goals and 18 subgoals



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First attempt for taking SDGs on board: proposed framework based on national strategy

Adding the missing SDG goals and sub golas to existing SDI framework.

Seminar on implementation of SDGs and on planning activities for the future – February 2017



Criteria for choosing SDG indicators

- Policy relevance
- Timeliness
- Frequency = Regular data production
- International comparability (EU-28)
- Comparability over time
- Length of time series



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Second attempt for taking SDGs on board: proposed framework



OUTMOST CIRCLE: national SDG indicators

> INNER CIRCLE: global SDG indicators

> > RED: number of UN SDG indicators

BLUE: number of national indicator

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The set was approved in December 2017.

Total of 88 indicators

- of what **41** (~46%) are in line with SDG indicators
- 47 indicators are either proxy's or are important at national level

• **31%** are not produced by Statistical Office

Global sustainable development goals (SDG)	Estonia's indicators of sustainable development (2017)	Global sustainable development goals (SDG)		Estonia's indicators of sustainable development (2017)
Goal 1 End poverty in all its forms everywhere.	Relative poverty rate Gross household saving rate People at risk of poverty or social exclusion	Goal 6 6 Penta vesi a Aanta aaa	Ensure availability and sustainable management of water and sanitation for all.	The share of wastewater that is treated according to the requirements in total collected wastewater Share of consumers who receive proper drinking water from the public water supply Groundwater extraction Status of surface water
Goal 2 Control of the security and the	Share of organic agricultural area in relation to the total	Goal 7 7 Investeritati 	Ensure access to affordable, reliable, sustainable, and modern energy for all.	Energy productivity Energy dependency rate Energy efficiency of the building stock * Share of energy expenses from total household expenses Share of renewable energy in total final energy consumption
Goal 3 3 Market 	Healthy life years Obesity rate Deaths due to external causes of morbidity and mortality per 100 000 inhabitants Avoidable mortality Death due to chronic diseases	Goal 8 8 techning ia Millingiscary	Promote sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all.	Employment rate (20–64-year-olds) Long-term unemployment rate (15–74-year-olds) Young people neither in education nor in employment and training (NEET) Real GDP growth Resource productivity Productivity
	Cases of HIV, tuberculosis, hepatitis B and hepatitis C per 100,000 inhabitants Suicides per 100,000 inhabitants New cases of mental and behavioural disorders per 100,000 inhabitants (including mental and behavioural disorders due to psychoactive substances among young people) Alcohol consumption Smoking prevalence	Goal 9 9 Totstus, suesees	Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation.	Share of expenditures on research and development of the GDP Research and development personnel Share of connections with the speed of 100 Mbp/s or faster of the total number of fixed Internet connections Rate of Internet use Modal split of freight transport and passenger transport by mode of transport
Goal 4 4 Construction for all and promote lifelong learning opportunities for all.		Goal 10 10 EANNAME	Reduce inequality within and among countries	Income per household member Income inequality Self-reported unmet need for medical care
	(proportion of students who have achieved the fifth and sixth level of PISA reading, maths and science) Share of young people in hobby activities Share of young people with basic education or lower level of education who will not continue their studies		Make cities inclusive, safe, resilient, and sustainable.	Proportion of architectural monuments in good and satisfactory status Number of people injured or killed in traffic accidents in cities Fine particulate matterPM10 and PM2.5 in ambient air
Goal 5 5 2 4 Chieve gender equality and empower all women and girls.	Gender pay gap Women in leadership positions Time use of men and women			Green urban areas* Satisfaction with the status of dwellings People commuting work by public transport or by bicycle, or on foot

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Global sustainable development goals (SDG)		Estonia's indicators of sustainable development (2017)		
Goal 12	Ensure sustainable	Waste generation		
12 SAASTEV TOOTMINE	consumption and	Recycling rate of municipal waste		
	production patterns.	The share of hazardous waste of for recovery		
00		Companies and institutions implementing environmental management systems		
		Volume of oil shale mining		
Goal 13	Take urgent action to combat climate	Greenhouse gas emissions per GDP		
13 KLIIMAMUUTUSTE VASTASED MEETINED	change and its	Greenhouse gas emissions from the energy sector		
	impacts	Greenhouse gas emissions from the transport sector		
Goal 14	Conserve and sustainably use the	Proportion of marine protected areas		
	oceans, seas and marine resources.	Snawning stock biomass of fish species populations used for		
		The share coastal bodies in good status		
Goal 15		Share of protected natural objects from the land territory		
15 BAA	manage forests	Share of protected forest land in the total forest land		
		Emission of acidifying pollutants		
		EU Habitats Directive habitats in favourable conservation state		
		EU Habitats Directive species in favourable conservation state		
Goal 16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.	Corruption perceptions index		
16 RAHUMEELSED IA INSTITUTSIOONID		Number of persons with undetermined citizenship		
		Share of people who consider their neighbourhood safe		
		Number of people killed due to assault		
		Number of people who have been victims of violence per year		
Goal 17 17 REELMNE	Strenghten the means of implementation and revitalize the global partnership for sustainable development	Share of official development assistance from gross national income		
- AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		Structural balance of the consolidated budget of the general government sector		
		Share of general government debt in the GDP		
		Share of environmental taxes in total tax revenues		
Viability of		Natural increase		
Estonian		Total fertility rate		
cultural		Speakers of Estonian language		
space				
		Visitors of cultural institutions		
		Share of persons participated in cultural hobby activities		

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- Production of data for indicators and metadata June 2018
- Update of the thematic webpage for SD (SDGs) –October 2018
- Publication of the Estonian SDG indicator set November 2018
- Possible development of dashboard for current set of sustainable development indicators 2019-2020

Environmental indicators in national SDG framework



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UN SDG Goal	National SDG indicator	Comparability global/national/EU	FDES theme	Institution producing data	Old /New
2 ZERO HUNGER	Share of organic agricultural production in total agricultural production	national	-	Statistical Office	new
	Pesticides placed on the market	national	3.4.1 Release of chemical substances	Statistical Office	new
	Use of fertilisers	national	3.4.1 Release of chemical substances	Statistical Office	new
6 CLEAN WATER AND SANITATION	The share of wastewater that is treated according to the requirements	global, national, EU	3.2.2 Collection and treatment of wastewater	Statistical Office	new
	Proportion of inhabitants who receive proper drinking water from public water supply	global	5.1.2 Access to selected basic services	Estonian Health Board	new
	Groundwater extraction	national, proxy for EU (Water exploitation index)	-	Estonian Environment Agency	new
	Status of surface water	global, national	-	Estonian Environment Agency	old

UN SDG Goal	National SDG indicator	Comparability global/national/EU	FDES theme	Institution producing data	Old /New
7 AFFORDABLE AND CLEAN ENERGY	Energy productivity	national, EU	-	EU	new
	Energy dependence	national, EU	-	Statistical Office	old
	Share of renewable energy in gross final energy consumption	global, national, EU	2.2.2 Production, trade and consumption of energy, diferent concept;	EU	old
8 DECENT WORK AND ECONOMIC GROWTH	Resource productivity	global, national, EU	-	Statistical Office	old
	Fine particles PM10 and PM2.5 in ambient air (emissions)	global, national, EU	1.3.1 Air quality	Estonian Environment Agency	old
	Green urban areas*	national	5.1.5 Environmental concerns specific to urban settlements	Statistical Office	new

UN SDG Goal	National SDG indicator	Comparability global/national/EU	FDES	Institution producing data	Old /New
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Recycling rate of municipal waste	global, national, EU	3.3.2 Management of waste	Statistical office	new
CO	Generation of waste	national, proxy EU (Generation of waste excluding major mineral wastes)	3.3.1 Generation of waste	Statistical Office	old
	Proportion of recovered hazardous waste	global, national	3.3.2 Management of waste	Statistical Office	new
	Companies and institutions implementing environmental management systems	national	-	Ministry of Environment(EMAS) International Organizations for Standardization	old
	Volume of oil shale mining	national	-	Estonian Land Board	old
13 CLIMATE	Greenhouse gas emissions with relation to the GDP	global, national, EU	3.1.1 Emissions of greenhouse gases	Ministry of Environment	old
	Greenhouse gas emissions from the energy sector	national	-	Ministry of Environment	new
	Greenhouse gas emissions from the transport sector	national	-	Ministry of Environment	new

UN SDG Goal	National SDG indicator	Comparability global/national/EU	FDES	Institution producing data	Old /New
14 LIFE BELOW WATER	Proportion of marine areas under protection	global, national, proxy for EU (Sufficiency of marine sites designated under the EU habitats directive)	1.2.2 Ecosystems and biodiversity	Estonian Environment Agency	new
	Spawning stock biomass of fish species populations used for commercial purposes	proxy for global (Proportion of fish stocks within biologically sustainable levels), national	2.5.2 Aquatic resources	Statistical Office	new
	Proportion of coastal water bodies in good status	global, national	-	Estonian Environment Agency	new
15 LIFE ON LAND	Share of protected areas of in total terrestrial territory	global, national, proxy for EU (Sufficiency of terrestrial sites designated under the EU Habitats Directive)	1.2.2 Ecosystems and biodiversity	Estonian Environment Agency	old
	Proportion of protected forest land in the total forest land	national	1.2.2 Ecosystems and biodiversity 1.2.3 Forests	Estonian Environment Agency	old
	Emission of acidifying pollutants	national		Statistical Office	old
	EU Habitats Directive habitats in favourable conservation state	national, EU	-	European Environment Agency	new
	EU Habitats Directive species in favourable conservation state	national, EU	1.2.2 Ecosystems and biodiversity	European Environment Agency	new

Future tasks and challenges on SDGs in Statistics Estonia

Statistics Estonia's role in coordination widens:

IN 2018: 88 national SDG indicators and around 20 data providers to coordinate IN FUTURE: work on global SDG-s will come in addition: 232 global SDG indicators and more than 60 custodian agency's

Development of "national reporting platform" Visualisation and SDG topic related dashboards Growing responsibilities of NSI-s and the central role in monitoring of the implementation of Agenda 2030:

New developments

- UN Statistical Comission on the 48 th session (March 2017) strongly recommended that national data to be used for global reporting and that adjustments and estimates to the country data be undertaken in full consultation with countries and through fully transparent mechanisms. (<u>StatCom 48 report, para. l, 1</u>).
- General Assembly adopted the resolution (6 July2017) which outlines that global review is to be primarily based on national official data sources and ensures that National Statistical Offices have a coordinating and central role (A/RES/71/313 para. 6). Methodologies used for harmonisation need to be disclosed (A/RES/71/313 para.7) as well.
- UN Statistical Comission on 49 th session (March 2018):

"(f) ...welcomed the draft guidelines on data flows and global data reporting for the SDGs as an initial step"

"(g) requested the IAEG-SDGs to work jointly with custodian agencies and establish a fruitful dialogue between all parties, to further refine the guidelines by taking into account concerns raised at UNSC..." (StatCom 49 report, Decisions f and g)

UNECE expert group on Member States are carrying out the pilots on data flows

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Future challenges regarding global SDGs on national level

- Nationalisation of gobal indicators
- Identification of national data providers and focal points;
- Ensuring of the harmonization of global and national indicators and indicator sets;
- Developing of the competence:
 - -to explain the difference between global and national indicators and indicator sets, incl the indicators provided outside NSOs
 - for the validation of non-statistical indicators
 - Development of metadata
- Development of sub-national statistics as aditional dimension

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S_ Final thoughts

- Statistical Office's role in SDG monitoring coordination widens
- Enhancing the position of statistics on all levels will help the implementation of the 2030 Agenda by providing evidence and guide policy interventions

FDES could have new demands from the side of environmental SDG-s and needs to adjust possible new indicators



Thank you!

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1 ND # **** *	End poverty in all its forms everywhere	10 REDUKCED INEQUALITIES	Reduce inequality within and among countries
2 ZERO HUNGER	End hunger, achieve food security and improved nutrition and promote sustainable agriculture	11 SUSTAINABLE CITIES	Make cities inclusive, safe, resilient, and sustainable
	Ensure healthy lives and promote well-being for all at all ages	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Ensure sustainable consumption and production patterns
4 QUALITY EDUCATION	Ensure inclusive and quality education for all and promote lifelong learning opportunities for all	13 CLIMATE	Take urgent action to combat climate change and its impacts
5 BENDER EQUALITY	Achieve gender equality and empower all women and girls	14 Life Below water	Conserve and sustainably use the oceans, seas and marine resources.
6 CLEANWATER AND SANITATION	Ensure availability and sustainable management of water and sanitation for all	15 LIFE ON LAND	Protect and restore terrestrial ecosystems and promote their sustainable use; manage forests sustainably; halt and reverse desertification and biodiversity loss
7 AFFORDABLE AND CLEAN ENERGY	Ensure access to affordable, reliable, sustainable, and modern energy for all	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels
8 DECENT WORK AND ECONOMIC GROWTH	Promote sustained, inclusive and sustainable economic growth, full and productive employment, and decent work for all	17 PARTNERSHIPS FOR THE GOALS	Strenghten the means of implementation and revitalize the
9 INDUSTRY INNOVATION AND INFRASTRUCTURE	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	<u> </u>	global partnership for sustainable development