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Table of content

E	XECUTI	VE SUMMARY	1
I	NTRODU	CTION	3
1	COMI	PLEMENTARY INDICATORS – WELL-BEING	7
	1.1 Com	MPLEMENTARY INDICES	7
	1.1.1	Regional Quality of Life Index	
	1.1.2	Territorial Quality of Life Index	10
	1.1.3	EU regional Social Progress Index	11
	1.1.4	EU regional Human Development Index	13
	1.2 Com	IPLEMENTARY WELL-BEING DOMAINS	15
	1.2.1	Access to services of general interest	15
	1.2.2	Environment	16
	1.2.3	Governance	17
	1.2.4	Health	18
	1.2.5	Housing	18
	1.2.6	Life satisfaction	19
	1.2.7	Material well-being	20
	1.2.8	Safety & security	20
	1.2.9	Social inclusiveness	
	1.2.10	Others – Connectivity	21
2	COMI	PLEMENTARY INDICATORS – SDGS	23
	2.1 INPU	JT INDICATORS	24
	2.2 OUT	PUT AND RESULT INDICATORS	27
	2.3 REG	IONAL SDG INDICATORS	30
3	LESS	ONS FOR COHESION POLICY POST 2027	37
	3.1 Pos	SIBLE WELL-BEING INDICATORS TO COMPLEMENT GDP	37
		SIBLE INDICATORS TO MEASURE PROGRESS ON SDGs	
		ROACH TO PRESENTING COMPOSITE INDICATORS	
		'A COLLECTION NEEDS AND GAPS	
4		TIONS FOR THE COHESION ALLIANCE WORKSHOP	
	_		
		[CES	47
		- ERDF AND ESF+ FIELDS OF INTERVENTION	
		TION TO SDGS	51
		- ERDF AND ESF+ COMMON OUTPUT AND RESULT	
\mathbf{L}^{\dagger}	NDICAT(ORS ATTRIBUTION TO SDGS	56

List of figures

Figure 1.1	Indicators of the EU Regional Quality of Life Index	8
Figure 1.2	Territorial Quality of Life measurement system	.10
Figure 1.3	Indicators of the EU regional Social Progress Index 2020	.13
Figure 1.4	Indicators of the EU Regional Human Development Index	.14
Figure 2.1	UN SDGs	.23
Figure 2.2	EU climate coefficients	.24
Figure 2.3	European Court of Auditors on ERDF and Cohesion Fund contribution to	
	2014-2020 climate reporting	
Figure 2.4	SDGs and their attribution to ERDF and ESF+ fields of intervention	.26
Figure 2.5	SDGs and their attribution to ERDF common output and result indicators	
Figure 2.6	SDGs and their attribution to ESF+ common output and result indicators	
Figure 3.1	OECD – Unboxing Regional Well-Being	
Figure 3.2	SDG Index – Unboxing SDG indicators	
Figure 3.3	DG REGIO – Unboxing EU regional Social Progress Index	
Figure 3.4	ESPON – Unboxing SDG benchmarking tool	
Figure 3.5	ESPON – Unboxing Territorial Quality of Life	.43
List o	of maps	
Map 1.1	EU Regional Quality of Life Index	9
Map 1.2	Territorial Quality of Life Index	
Map 1.3	European regional Social Progress Index – 2020 EU-SPI	
Map 1.4	EU Regional Human Development Index	.15
List o	of tables	
Table 1.1 Table 2.1	Well-being indices reviewed	

Acronyms

CCO – Regio core output

CCR – Regio core result

CF – Cohesion Fund

CoR – European Committee of the Regions

ECA – European Court of Auditors

ERDF - European Regional Development Fund

ESF – European Social Fund

EU-SPI – EU regional Social Progress Index

EU-RHDI – EU Regional Human Development Index

GDP – Gross Domestic Product

GDWe – Gross Domestic Wellbeing

GERD – Gross Expenditure on Research and Development

GVA – Gross Added Value

HDI – Human Development Index

IWI – Inclusive Wealth Index

JRC – Joint Research Centre

PM – Particulate Matter

PO – Policy Objective

PPP – Purchasing Power Parity

R&D – Research and Development

RCO – Regio common output

RCR – Regio common result

RHDI – Regional Human Development Index

RQLI – Regional Quality of Life Index

SDG – Sustainable Development Goals

SGI – Services of General Interest

SME – Small and medium-sized enterprise

SPI – Social Progress Index

TQoL – Territorial Quality of Life

Executive Summary

Cohesion in Europe needs to be understood in a broader perspective and encourage policy making beyond gross domestic product (GDP). In light of today's challenges and policy objectives, well-being or quality of life, sustainable development goals (SDGs) and resilience should be included in the debate about cohesion and thus about EU cohesion policy.

Cohesion policy post 2027 could benefit from a closer link to well-being and SDG indicators. A review of existing indicators shows there are already various composite indicators as well as indicators which could be used, with examples of well-being and SDG indices to learn from. This report provides some reflections.

A wide range of well-being indices and indicators could complement GDP in the debate about future cohesion policy. This report reviews 13 of these. Among the EU-wide indices available, the EU regional Social Progress Index (EU SPI) developed by DG REGIO is probably most likely to be regularly updated and thus useful as a complement to GDP. An alternative to a composite well-being indicator, could be to work with common domains of well-being used by existing indices. These include access to services of general interest, the environment, governance, health, housing, life satisfaction, material well-being, safety and security as well as social inclusiveness. For each of these, different regional indicators could be identified from the indices. This would help to select the most relevant domains and within these the most relevant indicators.

A wide range of SDG indices and indicators could support cohesion policy to better understand regional diversity in terms of contributions to the SDGs as well as links between cohesion policy and SDGs. This report reviews six of these. Links between cohesion policy and SDGs could be better highlighted in three ways. Firstly, a better understanding of how much the EU cohesion policy budget supports SDGs could come from developing coefficients linking planned funding to each SDG. Secondly, to better understand how cohesion policy contributes to SDGs, ERDF and ESF+ common indicators have been compared to SDG indicators. Common ERDF and ESF+ output and result indicators have been identified which relate to individual indicators for 12 of the 17 SDGs. Thirdly, SDG indicators can help to better understand (regional) disparities related to individual SDGs. There are no harmonised EU regional SDG indicators and no coherent composite regional SDG index. However, SDG indicator work by the Joint Research Centre (JRC) and ESPON provides stepping-stones towards regional mapping for SDGs. In particular the ESPON SDG benchmarking tool provides a good basis to assess regional disparities across the EU for SDG indicators. If this tool were used to develop continuous monitoring it could help

in selecting the most relevant SDGs or SDG indicators to inform future cohesion policy.

The review of indices going beyond GDP and SDG leads to several questions:

- Does the EU regional Social Progress Index satisfy the needs for a 'well-being complement' to GDP?
- Which common domains of beyond GDP indices are most relevant for regional policy makers (i.e. services of general interest, environment, governance, health, housing, life satisfaction, material well-being, safety and security and social inclusiveness)?
- What is better suited for complementing GDP in future cohesion policy debates, an index or a compilation of different indicators or several domains indexes?
- Would it help to attribute planned cohesion policy spending to individual SDGs to have a better overview of what budget is expected to support SDGs?
- Would it help to have regular monitoring and mapping of regional development linked to SDGs as a composite indicator, or for particular SDGs and selected indicators?
- Would it help to link common ERDF and ESF+ output and result indicators to SDGs to better understand how cohesion policy contributes to them?
- Does the EU need an EU-wide regional monitoring tool for well-being and SDGs which is constantly updated and which enables an EU-wide overview as well as regional benchmarking and factsheets?
- Would regional well-being and SDG monitoring benefit from a regional resilience indicator?

Introduction

Cohesion in Europe needs to be understood in a broader perspective to encourage policy making beyond GDP (European Committee of the Regions, Spatial Foresight, t33, & ÖIR, 2021; Terzi, 2021). Indeed, in light of today's challenges and policy objectives, well-being or quality of life, SDGs and resilience should be included in the debate about cohesion and EU cohesion policy.

Following the Great Depression and World War II, the success story of GDP started in Europe and North America. It rapidly spread to other countries in the 1960s, 1970s and 1980s. Currently all 200+ countries in the world publish GDP figures following the same methodology. This led to a common terminology and vast global infrastructure producing economic data and policy advice based on GDP as the default way to measure progress. (Hoekstra, 2020)

GDP is the main macroeconomic indicator used around the world to quantify economic activity. However, since the 1970s there are considerable debates about the shortcomings of GDP as it e.g. does not reflect well-being and the damage done to the environment by certain economic activities. Indeed, GDP was not designed to be comprehensive measures of prosperity and well-being. As among others highlighted by Terzi (2021), GDP e.g. does not track inequality, or poverty, does not account for environmental sustainability, nor for the value of housework, and does not sufficiently capture intangible assets. Consequently, there is a need for adequate indicators to address the challenges of the 21st century such as climate change, poverty, resource depletion, health and quality of life.

Increasingly the short comings of GDP as well as the need to adequality address environmental and well-being issues are recognised. These debates come together under the notion 'beyond GDP'.

At EU level a comprehensive process of defining appropriate social and environmental indicators started in 2007. This involved a high-level conference and the Stiglitz-Sen-Fitoussi report (2007). The European Commission, the European Parliament, the Club of Rome, the OECD and the WWF hosted a high-level conference on beyond GDP. This addressed the issue of indicators for measuring this progress beyond GDP and how to incorporate them into decision-making process. The Stiglitz-Sen-Fitoussi report presented a series of recommendations for the measurement of current well-being and sustainability. Successively this lead to the 'Beyond GDP initiative' and the 'GDP and beyond'

¹ https://ec.europa.eu/environment/beyond_gdp/index_en.html

roadmap (COM(2009) 433 final) in 2009. (Barth, Lavorel, Miller, & Hafele, 2021)

Since 2019, the issue is approached more directly and with a stronger political touch at EU level. As highlighted by Terzi (2021), the 2019 Annual Sustainable Growth Strategy (COM/2019/650 final)² states clear that economic growth is not seen as an end in itself, and that the economy has to work for the people and the planet. Basically, the EU is looking for sustainable growth that is measured in more than GDP, as highlighted by Charles Michel in 2021.³ These considerations are also reflected by the EU Heads of State and Government in the Porto Declaration⁴, in which they welcomed the idea of an alternative set of indicators to measure economic, social and environmental progress, supplementing GDP as a welfare measure for inclusive and sustainable growth.

Also in 2021, the European Commission Directorate-General for Economic and Financial Affairs (DG ECFIN) published a discussion paper 'Economic Policy Making Beyond GDP' (Terzi, 2021). This paper reiterates the need to develop indicators complementary to GDP that will enable more effective monitoring of the transformation of society and the economy to be carried out as policies driven by the European Green Deal are implemented. It also sets out the efforts made in recent years by some countries seeking to develop complementary tools to monitor well-being and the environmental impact of economic activities.

Still, so far, the financial allocation of EU cohesion policy is based on GDP. This is most visible in the definition of less developed, transitions and more developed regions and their co-financing rates. These change however, between funding periods (see table).

Table Definition of cohesion policy regions

	Less developed regions	Transition regions	More developed regions
2021-2027 period			
Definition	GDP per capita < 75% EU-27 average	GDP per capita between 75% and 100% EU-27 average	GDP per capita > 100% EU-27 average
Co-financing rate	85%	60% or 70% (former less developed regions)	40% or 50% (would have been transition regions under 2014-20 period)

² See https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1578392227719&uri=CELEX%3A52019DC0650

4

 $^{^3}$ See https://www.consilium.europa.eu/en/press/press-releases/2021/03/24/main-messages-from-the-tripartite-social-summit-24-march-2021/

⁴ See https://www.consilium.europa.eu/en/press/press-releases/2021/05/08/the-porto-declaration/

2021-2027 period							
Definition	GDP per capita < 75% EU-27 average	GDP per capita between 75% and 90% EU-27 average	GDP per capita > 90% EU-27 average				
Co-financing rate	80% or 85% (crisis impact)	60% or 80% (former less developed regions)	50%				

Source: https://ec.europa.eu/regional_policy/2021-2027_en

However, as outlined by Terzi (2021), GDP does not help to understand how the benefits of growth spread across the population, and how much these are concentrated in certain pockets of society. It takes into account neither the costs of increasing social fragmentation, nor the depletion of natural resources and environmental sustainability. Consequently, Terzi puts forward arguments for complementing GDP in a less controversial or bolder way. He also proposes criteria to consider in any debate about complementing GDP: (a) Limiting modifications of existing metrics, (b) Timeliness in publication, (c) Easy to understand, (d) Clear sense of direction, and (e) Move hand-in-hand with GDP.

Keeping these criteria in mind, insights can be gained from the 'beyond GDP debate' which has been ongoing since the 1970s and has led to various attempts to measure well-being and quality of life. Besides a range of academic and think tank studies, also various regional and national governments have addressed the issue and also international organisations have developed indicators. Most prominently there is the work by OECD (2017, 2022), JRC (2014), Eurostat (2022), DG REGIO (2020) and ESPON (2021). Still, there is no common definition of the quality of life or well-being dimension focused on in the beyond GDP debate, nor a common indicator set.

Nevertheless, the various attempts provide additional insights on regional disparities beyond the economic dimension of GDP. Most well-being and quality of life indices show a similar pattern to GDP in the EU, as Northwest Europe and metropolitan areas generally fare better than Eastern, Southern and rural areas. This fits the Stroper's (2023) observation that there is a high correlation between economic growth and most of the good things that are wanted from economic development. At present, existing alternative indices capture subtlety and detail but the overall picture of regional disparities in Europe are similar across most indices.

Still, some of the beyond GDP indices and indicators used might be relevant to a debate on complementing GDP when allocating EU cohesion policy funding post 2027. Chapter 1 provides an overview of some well-being indices as well as domains addressed by several of these indices.

In addition, the UN 2030 Agenda for Sustainable Development, adopted in 2015 stresses the need for peace and prosperity for people and the planet, now and into the future. At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries in a global partnership. The adoption of the SDGs has resulted in a need for indicators to measure whether the world is moving towards these goals. Besides setting up worldwide indicators to assess the SDG performance of each country, there have also been attempts to develop indices better tailored to Europe which measure local or regional SDG performance, e.g. by JRC (2021) and ESPON (2020). These indicators can improve understanding of how much EU cohesion policy or regions contribute to SDGs. Based on a review of global and European SDG indices, chapter 2 reflects on how to address SDG indicators in EU cohesion policy. This could be linked to the financial allocation of cohesion policy, common indicators measuring what cohesion policy does, or simply a better understanding of how regions in Europe are performing vis-à-vis the SDGs.

Based on the review of well-being and SDG indicators, chapter 3 draws conclusions about which indicators best complement GDP and enriches the debate about cohesion policy post 2027. It also outlines data collection needs and questions for further discussion.

In the light of current developments, cohesion is notably also about reliability and long-term perspectives. In other words, resilience to short-term shocks, robustness and stability are important. This emphasises continuity, dependability and rule of law rather than short term benefits and constant changes of direction. As cohesion is a long-term objective it should not be subject to short-term projects, flexible political flows, or changes in mood and fashion. The reviewed beyond GDP and SDG indices and indicators do not address resilience. Possibly, this would require and additional complement to cohesion policy indicators.

1 Complementary indicators – Well-being

For this study 13 well-being indices have been reviewed (see Table 1.1). Four are global, six European, and three national. Four work exclusively with national data, while the other nine work predominantly with regional data. However, the regional level varies and, in most cases, mixes geographical levels, .

Table 1.1 Well-being indices reviewed

Indicator name	Source	Predominant geographical level
Global examples		
Better Life Index	(OECD, 2017)	National
Inclusive Wealth Index (IWI)	(UNU-IHDP & UNEP, 2012); (UNEP, 2018)	National
Regional Well-Being	(OECD, 2022)	Regional
Social Progress Index (SPI)	(Social Progress Imperative, 2022)	National
EU level examples		
Beyond GDP dashboard	(ZOE, 2021)	National
EU Regional Human Development Index (EU-RHDI)	(European Commission - Joint Research Centre, 2014)	Regional
EU Social Progress Index (EU SPI)	(European Commission - DG REGIO, 2020)	Regional
Quality of Life Dashboard	(Eurostat, 2022)	National
Regional Quality of Life Index (RQLI)	(Hanell, 2018)	Regional
Territorial Quality of Life Index (TQoL)	(ESPON, 2021)	Regional
National examples		
Gross Domestic Wellbeing (GDWe)	(Carnegie UK, 2021)	Regional
Liveability Meter	(Ministry of the Interior and Kingdom Relations of Netherlands, 2022)	Regional
Monitor of Well-Being & the Sustainable Development Goals (SDGs)	(Statistics Netherlands, 2021)	Regional

The number of individual indicators that have been brought together ranges from 11 in OECD regional well-being, 102 in the Eurostat Quality of Life Dashboard and even 118 in the Monitor of Well-Being Netherlands.

This implies that some indicators used in the indices or a complete index can be used to complement GDP. There follows first a discussion a possible complete index and then a selection of possible indicators.

1.1 Complementary indices

Four of the well-being indices best help understand regional disparities at European level, as they have EU-wide coverage at regional level. Most can be linked to attempts to push the beyond-GDP debate. They all offer good potential to complement GDP, however they all have advantages and disadvantages.

1.1.1 Regional Quality of Life Index

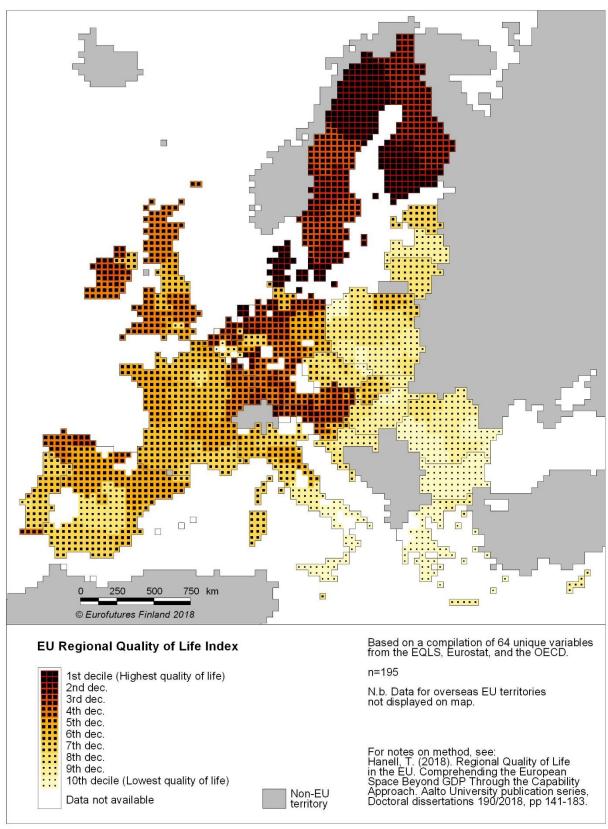
The Regional Quality of Life Index (RQLI)⁵ combines indicators from various sources, mainly the European Quality of Life Survey⁶, Eurostat and OECD. Many of the indicators come from the European Quality of Life Survey. Often these are disaggregated from the national to the regional level. This implies that the information relies on survey data and thus on the quality of the survey and representativeness of the samples. It also implies that regional disparities are biased to the approach used to disaggregate national and regional data. This index has been developed in PhD research and will not be updated in the current format.

Figure 1.1 **Indicators of the EU Regional Quality of Life Index**

Domain	Domain 5. Leisure and social interactions						
	Variable name	30.	Spending time with family				
		31.	Spending time w. other social contacts				
Domain 1. Ma	terial living conditions	32.	Having time for hobbies				
1.	Disposable income of private hh in euro	33.	Having time for voluntary work				
2.	At-risk-of-poverty rate	34.	Time to do enjoyable things in daily life				
3.	Disposable income quintile ratio (S80/S20)	35.	Access to cinema, theatre or cultural centre				
4.	Satisfaction with present standard of living	36.	Access to recreational or green areas				
5.	Ability to make ends meet	37.	Satisfaction with social life				
6.	Satisfaction with accommodation	38.	Not feeling lonely				
7.	Shortage of space	39.	Frequency of doing voluntary work				
	onertage of opace	40.	Getting support: help around the house when ill				
Domain 2 Pro	oductive or main activity	41.	Getting support: advice about a serious personal or family matter				
8.	Employment rate 20-64 years	42.	Getting support: urgently raise amount of money to face an emergen				
9.	Unemployment rate	43.	Getting support: wanting someone to talk to if depressed				
10.		44.	General trust in other people				
		Domair	6. Economic and physical safety				
11.	, , ,	45.	Household in arrears during past 12 months				
12.	Average number of usual weekly hours of work in main job Work-life balance	46.	Problems with crime, violence, or vandalism in area				
13.							
14.	Working hrs fit family or social commitments	Domair	7. Governance and basic rights				
15.	Mean commuting time in minutes	47.	Trust in the legal system				
16.	Job contract stability	48.	Trust in the press				
17.	Satisfaction with job	49.	Trust in the police				
		50.	Quality of 7 public services				
Domain 3. Hea		51.	Tension between poor and rich people				
18.	Life expectancy at birth	52.	Tension between management and workers				
19.	Subjective health	53.	Tension between men and women				
20.	Feeling cheerful and in good spirits	54.	Tension between old and young people				
21.	Feeling calm and relaxed	55.	Tension between different racial and ethnic groups				
22.	Feeling active and vigorous	56.	Tension between different religious groups				
23.	Feeling particularly tense	57.	Tension between groups with different sexual orientation				
24.	Weekly sports or exercise	58.	Feeling left out of society				
25.	Ease of seeing doctor	59.	Gender employment gap				
		60.	Unpaid voluntary work for political parties or trade unions				
Domain 4. Ed	ucation	61.	Active citizenship				
26.	Tertiary education share						
27.			8. Natural and living environment				
28.	Never used a computer		Problem with litter or rubbish in immediate neighbourhood				
29.	Participation in education and training last 4 weeks	63.					
	,	64.	Problem with air quality in immediate neighbourhood				

https://aaltodoc.aalto.fi/bitstream/handle/123456789/34080/isbn9789526082134.pdf?sequence=1&isAllowed=y ⁶ https://www.eurofound.europa.eu/data/european-quality-of-life-survey

Map 1.1 EU Regional Quality of Life Index



 $Source: Hanell, 2018\ https://aaltodoc.aalto.fi/bitstream/handle/123456789/34080/isbn9789526082134.pdf? sequence = 1\&isAllowed = yallowed = y$

1.1.2 Territorial Quality of Life Index

Most of the indicators in Territorial Quality of Life Index (TQoL) enable comparison across European regions of regional disparities. However, the approach also highlights that understanding and emphasis for different dimensions of quality of life varies between places. Therefore, the underlying philosophy of this approach is to facilitate regional quality of life living labs – participatory approaches with regional stakeholders to identify relevant indicators and their weight in the index – to enable indicators for each region. This index is the result of an ESPON project and there may not be regular updates.

Good life enablers Life maintenance Life flourishing Personal enablers Housing & Personal health nealth & safety Self-esteem basic utilities flourishing indicators Personal Enablers of good Personal shelter, education, Healthcare sphere health Personal safety Self-actualisation indicators Education Transport Economic & societal health Socio-economic enablers Inclusive Interpersonal Community flourishing economy trust (social Digital connectivity Enablers of indicators belonging) good mobility, Socio-Work connectivity, work economic and consumption sphere Consumption choices, social and Institutional Healthy cultural life Public spaces society trust (good indicators governance) Cultural assets Healthy Ecological environment lourishing **Ecosystems** infrastructure Enablers of good **Ecological** indicators services and life in green sphere biodiversity environments Protected Climate change wealth areas indicators **QoL ENABLERS PILLAR QoL OUTCOMES PILLAR**

Figure 1.2 Territorial Quality of Life measurement system

Source: ESPON, 2021 https://www.espon.eu/sites/default/files/attachments/ESPON%20Policy%20Brief%2C%20Quality%20of%20life.pdf

Map 1.2 Territorial Quality of Life Index

Source: ESPON, 2021 https://www.espon.eu/programme/projects/espon-2020/applied-research/quality-of-life

1.1.3 EU regional Social Progress Index

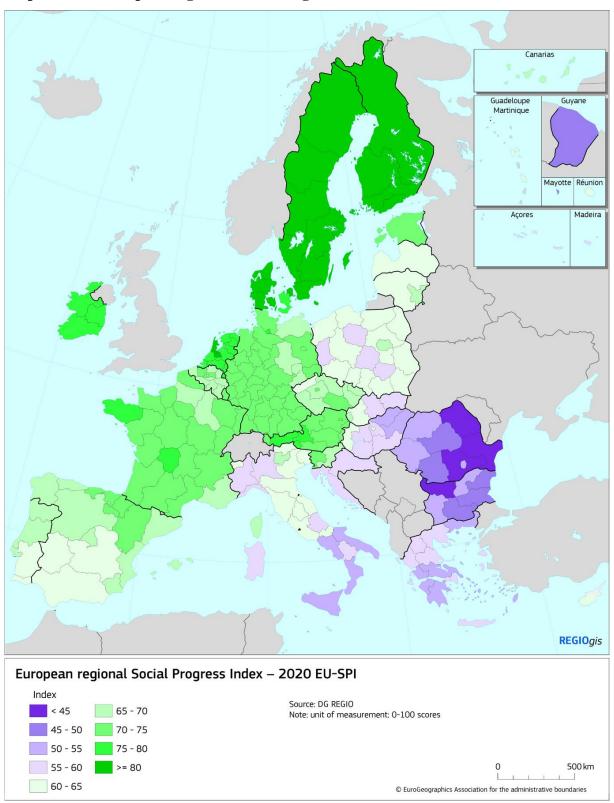
The EU regional Social Progress Index (EU-SPI)⁷ is based on the global Social Progressive Index. The EU-SPI is designed to complement GDP and be used as a robust, comprehensive and practical measure of regional inclusive growth. The 2020 index brings together a wide range of data, including data from surveys (see also remarks in section 1.1.1). This index was first developed in 2016 and updated in 2020. A new updates of the EU regional Social Progress Index is ensvisaged for late 2023/early 2024.

Origin of data: Eurostat, ESPON projects, EU-SPI. European Regiona Database, Euroba

The index publication explicitly states that it has not been created for funding allocation.

⁷ https://ec.europa.eu/regional policy/en/information/maps/social progress2020/

Map 1.3 European regional Social Progress Index – 2020 EU-SPI



 $Source: DG \ REGIO \ 20202 \ \underline{https://ec.europa.eu/regional_policy/sources/docgener/work/202006_spi_en.pdf}$

Figure 1.3 Indicators of the EU regional Social Progress Index 2020

Basic Human Needs	Foundations of Wellbeing	Opportunity
1. Nutrition and Basic Medical Care Mortality rate before 65 Infant mortality Unmet medical needs Insufficient food 2. Water and Sanitation Satisfaction with water quality Lack of toilet in dwelling Uncollected sewage Sewage treatment 3. Shelter Burden cost of housing Housing quality due to dampness NEW Overcrowding Adequate heating 4. Personal Security Crime NEW Safety at night Money stolen NEW	5. Access to Basic Knowledge • Upper secondary enrolment rate age 14-18 • Lower secondary completion rate • Early school leavers 6. Access to Information and Communications • Internet at home • Broadband at home • Online interaction with public authorities • Internet access NEW 7. Health and Wellness • Life expectancy • Self-perceived health status • Cancer death rate • Heart disease death rate • Leisure activities NEW • Traffic deaths 8. Environmental quality • Air pollution NO2 NEW	9. Personal Rights Trust in the national government Trust in the legal system Trust in the police Active citizenship NEW Female participation in regional assemblies NEW Quality of public services 10. Personal Freedom and Choice Freedom over life choices Job opportunities NEW Involuntary part-time/temporary employment NEW Young people not in education, employment or training NEI Corruption in public services 11. Tolerance and Inclusion Impartiality of public services Tolerance towards immigrants Tolerance towards minorities Tolerance towards homosexuals Making friends NEW Volunteering, NEW
 Assaulted/Mugged NEW 	 Air pollution ozone Air pollution pm10 Air pollution pm2.5 	Gender employment gap 12. Access to Advanced Education and LLL Tertiary education attainment Tertiary enrolment Lifelong learning Female lifelong education and learning NEW

55 indicators 14 new to this edition

Maximum number of indicators by component: 7 in Opportunity/Tolerance and Inclusion

 $\label{lem:minimum number of indicators by component: \textbf{3} in Foundations of Well-being/Access to Basic Knowledge$

 $Source: DG\ REGIO\ 20202\ https://ec.europa.eu/regional_policy/sources/docgener/work/202006_spi_en.pdf$

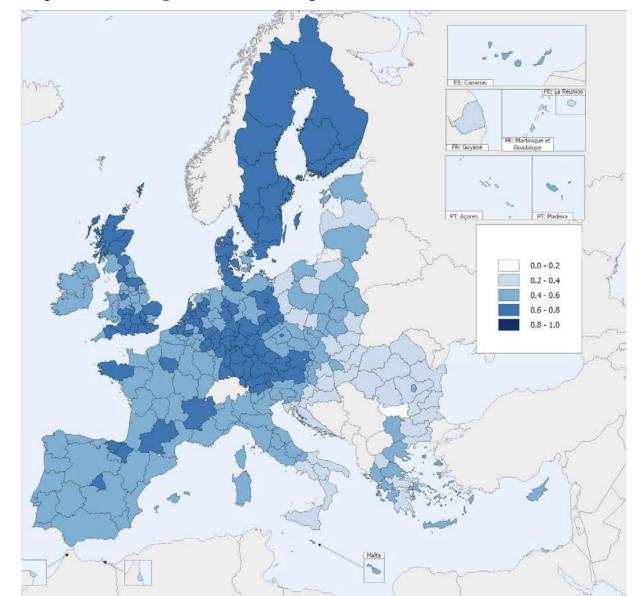
1.1.4 EU regional Human Development Index

The EU regional human development index is based on the three-partite structure of the UN-HDI but adjusted to the European context and focuses on regional rather than national information. There are 22 variables in the composite indicator, one is GDP per capita. All variables have been retrieved from Eurostat. The latest version of the index is from 2012. It is not known whether there will be any updates.

Figure 1.4 Indicators of the EU Regional Human Development Index

Variable	Source	Description	Dimension	Perspective
ife expectancy at pirth	Eurostat	The mean number of years still to be lived at birth if subjected throughout the rest of his or her life to the current mortality conditions	Health	Functionings/ basic needs
Healthy life expectancy	Eurostat	The number of years a person is expected to live in good perceived health. Indicator combines mortality data with data on self-perceived health	Health	Functionings/u ilitarian
nfant mortality	Eurostat	The ratio of the total number of deaths of children under one year of age during the year to the number of live births in that year. The value is expressed per 1000 live births.	Health	Basic needs
Access to health care	Eurostat	The number of physicians or doctors per 100,000 inhabitants.	Health	Capabilities
Age specific death rate at age 70	Eurostat	Age specific death rate at age 70	Health	Functionings
Probability of dying beforet age 70	Eurostat	Probability of dying between exact ages with age is 65 years: the probabilities that an individual of exact age x will die before exact age $x + n$.	Health	Functionings
Probability of dying before age 55	Eurostat	The probability that an individual of age 65 will die before that age	Health	Functionings
Early school eavers	Eurostat	The percentage of the population aged 18-24 having attained at most lower secondary education and not being involved in further education or training	Knowledge	Basic needs
NEET	Eurostat	The percentage of the population aged 18-24 that is not employed and not involved in further education or training.	Knowledge	Basic needs
ifelong learning	Eurostat	Participation of adults aged 25-64 in education and training	Knowledge	Capabilities
nowledge ntensity hare of 30-34	Eurostat	Share of higher education students in total population Persons aged 30-34 with tertiary education attainment as a	Knowledge	Capabilities
ertiary education	Eurostat	share of total population in that age group	Knowledge	Capabilities
Human resources n science & echnology	Eurostat	The number of people who either successfully completed education at the third level in a S&T field of study or are employed in a S&T occupation (as a share of the total population)	Knowledge	Capabilities
&D personnel	Eurostat	R&D personnel (expressed as head count) as a percentage of the active population; whereby R&D is defined in accordance with the OECD Frascati/Oslo manual (2002).	Knowledge	Capabilities
ower secondary	Eurostat	Persons aged 25-64 with lower secondary education attainment (as the percentage of people of the given age class)	Knowledge	Functionings
General tertiary Education	Eurostat	Persons aged 25-64 with tertiary education attainment (as the percentage of people of the given age class)	Knowledge	Functionings
ong term inemployment	Eurostat/ DG- REGIO	The percentage of total unemployed persons seeking a job for longer than one year.	Income	Capabilities
Employment	Eurostat	The share of employed persons of 15 year or older as a share of the population of 15 year or older	Income	Capabilities
CT access	Eurostat	Households with access to the Internet at home (as a percentage of all households)	Income	Capabilities
DP per capita	Eurostat	Gross domestic product (GDP) at current market prices (PPS) per inhabitant	Income	Functionings
let adjusted lisposable lousehold income	Eurostat/ DG- REGIO	A region's net disposable income weighted the region's country gross adjusted disposable income divided by the region's country net disposable income (per capita)	Income	Functionings
conomic activity		The number of employed and unemployed persons as a		

 $Source: JRC, 2014\ https://op.europa.eu/en/publication-detail/-/publication/7d39 defa-ec14-4e33-87e2-db567f709a47/language-en12016-10016$



Map 1.4 EU Regional Human Development Index

Source: JRC, 2014 https://op.europa.eu/en/publication-detail/-/publication/7d39defa-ec14-4e33-87e2-db567f709a47/language-en

1.2 Complementary well-being domains

All 13 well-being indices reviewed (see Table 1.1) group individual indicators to domains of well-being. These show strong similarities across the 13 indices and can be grouped into nine thematic clusters.

1.2.1 Access to services of general interest

Access to services of general interest, e.g. education or health care) is an important aspect of well-being. Indicators measure enrolment in education and the number of doctors or hospital beds per inhabitant. More interesting approaches consider the time needed to reach a school or health care service.

Examples of indicators at regional level in Europe

- Accessibility to health services (pharmacies, doctors and hospitals) (Territorial Quality of Life, ESPON)
- Accessibility to education (primary and secondary schools) (Territorial Quality of Life, ESPON)
- Accessibility to commercial services (shops and banks) (Territorial Quality of Life, ESPON)

Examples of other interesting indicators (not regional level)

• Self-reported unmet needs for medical examination by sex, age, main reason declared and educational attainment level (Quality of Life Dashboard, Eurostat)

Beyond the indicators in the indices reviewed, some ESPON indicators work on inner peripheries (ESPON, 2018) and emphasise access to services of general economic interest. This study also mapped inner peripheries with poor access to services of general interest such as banks, cinemas, doctors, hospitals, pharmacies, retail shops, primary schools, secondary schools, train stations and jobs.⁸

1.2.2 Environment

The state of the environment including environmental quality, environmental resources, biodiversity, pollution, noise, access to green infrastructure, etc. are considered by most indices as an important domain of well-being.

Examples of indicators at regional level in Europe

- Availability of natural areas (Territorial Quality of Life, ESPON)
- Existence of protected areas (Territorial Quality of Life, ESPON)
- Population covered by Sustainable Action Plans (Territorial Quality of Life, ESPON)
- Invasive alien species (Territorial Quality of Life, ESPON)
- Ecosystem services net value (Territorial Quality of Life, ESPON)
- Air pollution NO2, ozone, PM10, PM 2.5 (EU regional Social Progress Index, DG REGIO)

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⁸ https://www.espon.eu/inner-peripheries

Examples of other interesting indicators (not at regional level)

- Problem with litter or rubbish in immediate neighbourhood (Regional Quality of Life Index, Hanell)
- Problem with noise in immediate neighbourhood (Regional Quality of Life Index, Hanell)
- Problem with air quality in immediate neighbourhood (Regional Quality of Life Index, Hanell)
- Distance from green field area (Well-being and SDGs Netherlands)

1.2.3 Governance

Good governance, including trust in public institutions & services, active civil society, active citizenship, basic rights and personal freedom & choice, is considered by most indices as important to well-being.

Examples of indicators at regional level in Europe

- Quality of public services (EU regional Social Progress Index, DG REGIO)
- Corruption in public services (EU regional Social Progress Index, DG REGIO)
- Quality and accountability of government services (Territorial Quality of Life, ESPON)
- European Quality of Government Index (Territorial Quality of Life, ESPON)
- Female participation in regional assemblies (EU regional Social Progress Index, DG REGIO)
- Active citizenship (EU regional Social Progress Index, DG REGIO)

Examples of other interesting indicators

- Trust in national government (EU regional Social Progress Index, DG REGIO)
- Trust in the legal system (EU regional Social Progress Index, DG REGIO)
- Trust in the police (EU regional Social Progress Index, DG REGIO)
- Population participating in associative activities (organisational work or participatory events) (Territorial Quality of Life, ESPON)

1.2.4 Health

People's health is regarded in most well-being indices. This includes life expectancy, health statues, healthy environment, nutrition, access to medical care, and safety at work.

Examples of indicators at regional level in Europe

- Life expectancy (EU regional Social Progress Index, DG REGIO)
- Healthy life expectancy (EU regional Human Development Index, JRC)
- Subjective health (Regional Quality of Life Index, Hanell) or self-perceived health (EU regional Social Progress Index, DG REGIO)

Examples of other interesting indicators (not at regional level)

- Persons reporting exposure to risk factors that can adversely affect mental well-being (Quality of Life Dashboard, Eurostat)
- Current depressive symptoms (Quality of Life Dashboard, Eurostat)
- Self-reported unmet needs for medical examination (Quality of Life Dashboard, Eurostat)
- Overweight population (Well-being and SDGs Netherlands)
- Persons reporting an accident at work (Quality of Life Dashboard, Eurostat)

1.2.5 Housing

Housing is addressed in various forms by many of the indices. This ranges from housing conditions, housing stock and basic utilities, to water and sanitation.

Examples of indicators at regional level in Europe

- Burden cost of housing (EU regional Social Progress Index, DG REGIO & Territorial Quality of Life, ESPON)
- Overcrowding (EU regional Social Progress Index, DG REGIO)
- Households lacking adequate heating (EU regional Social Progress Index, DG REGIO & Territorial Quality of Life, ESPON)
- Sanitation conditions (% uncollected sewerage & % sewerage treatment (Territorial Quality of Life, ESPON)
- Lack of toilet in dwelling (EU regional Social Progress Index, DG REGIO)

Examples of other interesting indicators (not at regional level)

- Population living in a dwelling with a leaking roof, damp walls, floors or foundation, or rot in window frames or floor (Quality of Life Dashboard, Eurostat)
- Share of people living in under-occupied dwellings by household (Quality of Life Dashboard, Eurostat)
- Housing expenditure (Better Life Index, OECD)
- Housing quality (Wellbeing Netherlands)
- Accommodation satisfaction (Cross-domestic Well-being / UK)

1.2.6 Life satisfaction

Well-being is essentially about people's perception of their satisfaction. Indices have addressed this in various forms including work-life balance, quality and quantity of leisure, self-actualisation, self-esteem, wealth, unpaid work, well-being and life satisfaction.

Examples of indicators at regional level in Europe

- Standardised suicide death rate (Territorial Quality of Life, ESPON)
- Attitudes toward people with disabilities (Territorial Quality of Life, ESPON)

Examples of other interesting indicators (not at regional level)

- Time devoted to leisure and personal care (Better Life Index, OECD)
- Participation in cultural or sport activities (Quality of Life Dashboard, Eurostat)
- Persons who have someone to discuss personal matters (Quality of Life Dashboard, Eurostat)
- Persons who have someone to ask for help (Quality of Life Dashboard, Eurostat)
- Feelings of discrimination (Wellbeing and SDGs Netherlands)
- Average self-evaluation of life satisfaction (Regional Well-being, OECD)
- Frequency of being happy in the last four weeks (Quality of Life Dashboard, Eurostat)

1.2.7 Material well-being

Quality of life and well-being also have a strong material dimension, which is reflected in most indices reviewed. Domains cover the inclusive economy, income, material deprivation, material living conditions, material prosperity, personal finance, etc.

Examples of indicators at regional level in Europe

- Disposable household income (Regional Quality of Life Index, Hanell & Territorial Quality of Life Index, ESPON)
- At-risk-of-poverty rate (Regional Quality of Life Index, Hanell & Territorial Quality of Life Index, ESPON)
- Disposable income quintile ratio 80/20 (Regional Quality of Life Index, Hanell)
- Economic activity rate (EU regional Human Development Index, JRC)

Examples of other interesting indicators (not at regional level)

- Severe material deprivation (Quality of Life Dashboard, Eurostat)
- Inability to make ends meet (Quality of Life Dashboard, Eurostat)
- Inability to face unexpected financial expenses (Quality of Life Dashboard, Eurostat)
- Average household debt (Well-being and SDGs Netherlands)

1.2.8 Safety & security

Personal safety and security is another dimension of well-being which is addressed by various indices.

Examples of indicators at regional level in Europe

- Crime (EU regional Social Progress Index, DG REGIO)
- Safety at night (EU regional Social Progress Index, DG REGIO)
- Standardised traffic accident death rate (Territorial Quality of Life Index, ESPON)
- Standardised homicide death rate (Territorial Quality of Life Index, ESPON)

Examples of other interesting indicators (not at regional level)

• Often feeling unsafe in the neighbourhood (Well-being and SDGs Netherlands)

1.2.9 Social inclusiveness

Many of the indices include domains related to social cohesion. This covers inclusiveness, interpersonal trust, societal belonging, relationships with people, social cohesion, discrimination, equal opportunities and tolerance.

Examples of indicators at regional level in Europe

- Population participating in associative activities (organizational work or participatory events) (Territorial Quality of Life Index, ESPON)
- Population that believes voluntary work is very important (Territorial Quality of Life Index, ESPON)
- Gender employment gap (EU regional Social Progress Index, JRC)
- Tolerance towards immigrants (EU regional Social Progress Index, JRC)
- Tolerance towards minorities (EU regional Social Progress Index, JRC)
- Tolerance towards homosexuals (EU regional Social Progress Index, JRC)

Examples of other interesting indicators (not at regional level)

- Equal protection index (Social Progress Index, Social Progress Imperative)
- Equal access index (Social Progress Index, Social Progress Imperative)
- Power distributed by sexual orientation (Social Progress Index, Social Progress Imperative)
- Access to public services distributed by social group (Social Progress Index, Social Progress Imperative)
- Average rating of trust by domain (Quality of Life Dashboard, Eurostat)
- Gender pay gap (Quality of Life Dashboard, Eurostat)

1.2.10 Others – Connectivity

Besides the domains outlined above, other domains are addressed by the indices but these have fewer common features. Among those domains are culture, education and connectivity, in both digital and physical terms.

Examples of indicators at regional level in Europe

• Internet at home (Territorial Quality of Life Index, ESPON)

- Internet access (EU regional Social Progress Index, JRC)
- Online interaction with public authorities (Territorial Quality of Life Index, ESPON)
- Access to high-level transport infrastructure (Territorial Quality of Life Index, ESPON)

Examples of other interesting indicators (not at regional level)

- Self-reported unmet needs for mobility (Quality of Life Dashboard, Eurostat)
- Distance to fast road or highway up to 300 meters (Livability Netherlands)
- Distance to train station (Livability Netherlands)

For more insights related to vulnerabilities and resilience to hazards and catastrophes, corresponding studies of JRC and ESPON (ESPON, 2006; Schmidt-Thomé & Greiving, 2008) can provide additional insights on possible indicators. They are based on a vulnerability concept which brings together the risk of catastrophes to happen, a place's exposure to the risk and the potential economic, societal and environmental damage a catastrophe may cause. In most cases GDP per capacity and population density play a major role in defining the potential damage and thus a place's vulnerability. Taken this into account, the JRC vulnerability index⁹ could provide an interesting addition to those indicators and indices presented above. However, many of the indicators used on this index¹⁰ correspond to the above discussed indicators on well-being.

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⁹ See https://drmkc.jrc.ec.europa.eu/risk-data-hub/#/vulnerability-in-europe

¹⁰ https://arcgis.irc.ec.europa.eu/portal/apps/opsdashboard/index.html#/0ada035991974e1197ca4fc0a4dff615

2 Complementary indicators – SDGs

In 2015 the 17 UN SDGs (see Figure 2.1) were adopted by all UN member states, and came into force in 2016.

Figure 2.1 UN SDGs





Source: https://www.un.org/en/sustainable-development-goals

For this study six SDG indices have been reviewed (see Table 2.1). Three of these are global and three work at European level. Three work mainly with national data, while two use predominantly regional data, though the regional level varies, and one example concerns mainly cities. Most of the examples apply a mix of geographical levels as data is not available at the same level of detail for all these indicators.

The number of indicators ranges from 47 for Doughnut Economics to 248 for UN SDIs. This implies that either a selection of indicators or a complete index can help better understand how cohesion policy links to the SDGs.

The following sections, firstly consider input indicators which could help understand how much funding could be linked to the SDGs. Then a section addresses indicators used by the indices in relation to commonly used indicators in EU cohesion policy. This provides initial hints on how to measure the contribution of EU cohesion policy to SDGs. The third section discusses possible indicators resulting from a review of indices which could show regional progress towards the SDGs – though without a clear link to EU cohesion policy.

Table 2.1 SDG indices reviewed

Indicator name	Source	Predominant geographical level
Doughnut Economics	(Fanning, O'Neill, Hickel, & Roux, 2021)	National
ESPON's SDGs benchmarking tool	(ESPON, 2020)	Regional
European Handbook for SDG Voluntary Local Reviews	(European Commission - Joint Research Centre, 2022)	City level
Regional indicators for the Sustainable Development Goals	(European Commission - Joint Research Centre, 2021)	Regional
SDG Index and Dashboards	(Bertelsmann Stiftung, Sustainable Development Solutions Network, & Cambridge University Press, 2022)	National
Sustainable development indicators	(UN, 2017)	National

2.1 Input indicators

Following the EU approach to climate budgeting¹¹ which identifies the EU budget used for climate action, developing input indicators for cohesion policy could cover all or just selected SDGs. This would imply monitoring the funding allocated and/or spent on projects linked to a particular SDG.

To identify the share of EU budget which supports climate action, the Commission has assigned coefficients to EU programme components such as intervention fields or projects. In a recent report, the European Court of Auditors (2022) provided a review and suggested improvements.¹² This report includes figures related to climate budgeting for cohesion policy (see below).

Figure 2.2 EU climate coefficients

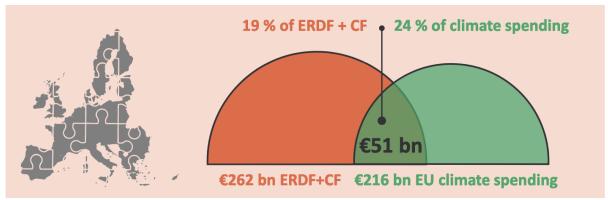


Source: European Court of Auditors, 2022 https://www.eca.europa.eu/Lists/ECADocuments/SR22_09/SR_Climate-mainstreaming_EN.pdf

 $^{11}~See~COM (2022) 500~https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX\%3A52011DC0500$

¹² https://www.eca.europa.eu/Lists/ECADocuments/SR22_09/SR_Climate-mainstreaming_EN.pdf

Figure 2.3 European Court of Auditors on ERDF and Cohesion Fund contribution to 2014-2020 climate reporting



Source: European Court of Auditors, 2022 https://www.eca.europa.eu/Lists/ECADocuments/SR22_09/SR_Climate-mainstreaming_EN.pdf

To better understand how much the EU cohesion policy budget supports SDGs, a similar approach could be developed to identify coefficients linking planned funding to each SDG.

A start to developing such a coefficient could be the fields of intervention. A comparison of SDG indicators used in indices with ERDF and ESF+ fields of intervention, which approximately match some of the indicators used in the SDG indices.

The detailed listing of the ERDF and ESF+ fields of intervention (including the full names of the fields of intervention) attributed to the SDGs is provided in Annex 1. This listing is the basis for the summary Figure 2.4. Presenting only the indicator codes it shows that for most SDGs there are fields of intervention which approximately match some of the indicators used in the indices.

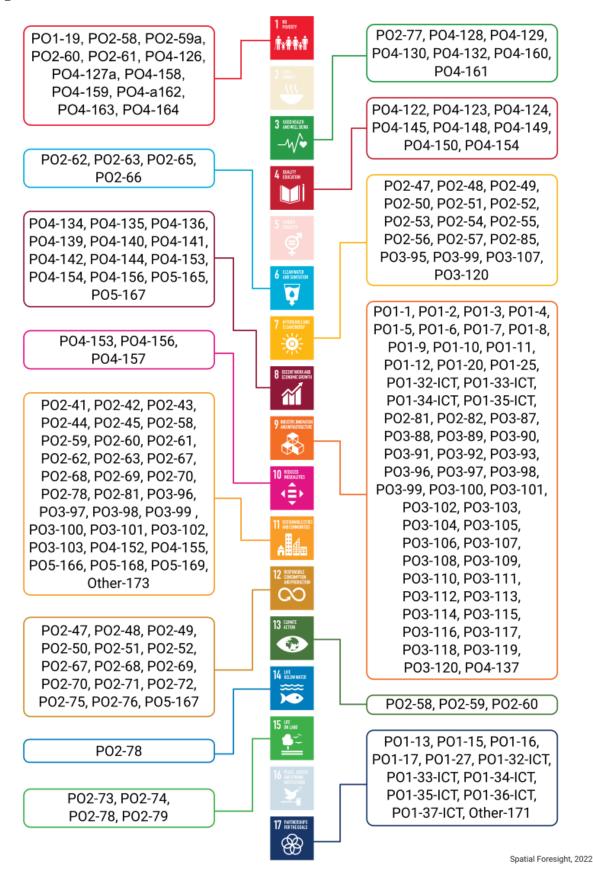
Large number of fields of intervention can be associated with SDGs '9. Industry, innovation and infrastructure' and '11. Sustainable cities and communities'.

At the same time, no matches could be found for three SDGs. For these, a deeper analysis of common indicators and the scope of each SDG are needed to identify possible matching indicators since the topics are addressed by cohesion policy. These thee cases are SDG '2. Zero hunger', '5. Gender equality', and '16. Peace, justice and strong institutions'.¹³

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¹³ See also the following section on outcome and result indicators.

Figure 2.4 SDGs and their attribution to ERDF and ESF+ fields of intervention



2.2 Output and result indicators

EU cohesion policy works with a wide range of common indicators to measure outputs, results and performance¹⁴. A comparison of the SDG indicators used in the reviewed indices with the common indicators shows that for most SDGs there are common indicators which approximately match some of the indicators used in the indices. However, no matches could be found for five SDGs. For these, a deeper analysis of common indicators and the scope of the SDG are needed to identify possible matching indicators since the topics are addressed by cohesion policy. These five cases are SDG '2. Zero hunger', '5. Gender equality', '10. Reduced inequalities', '14. Life below water' and '16. Peace, justice and strong institutions'. The reason they are not covered is a different policy approach for SDGs and cohesion policy, as the same policy objectives are addressed in different ways. For SDG '2. Zero hunger' ESF common result indicators related to food support could be considered. For SDG '5. Gender quality' common indicators which consider male and female population separately or concern other types of discrimination could be considered, as this is a horizontal principle in cohesion policy.

As for the 12 SDGs where matches have been identified, these indicators can be used in a debate on how to measure the contribution of EU cohesion policy to SDGs using existing indicators.

The detailed listing of the ERDF and ESF+ common output and result indicators (including the full naming of the indicators) is provided in Annex 2. This listing is the basis for the summary Figure 2.5 showing ERDF the common output and result indicators (using the indicator codes) which can be attributed to SDGs, and Figure 2.6 doing the same for ESF+. These two figures also allow for a more nuance differentiation between the ERDF and ESF+ components of cohesion policy.

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¹⁴ Regulation (EU) 2021/1058 of the European Parliament and of the Council of 24 June 2021 on the European Regional Development Fund and on the Cohesion Fund

Regulation (EU) 2021/1057 of the European Parliament and of the Council of 24 June 2021 establishing the European Social Fund Plus (ESF+) and repealing Regulation (EU) No 1296/2013

Figure 2.5 SDGs and their attribution to ERDF common output and result indicators

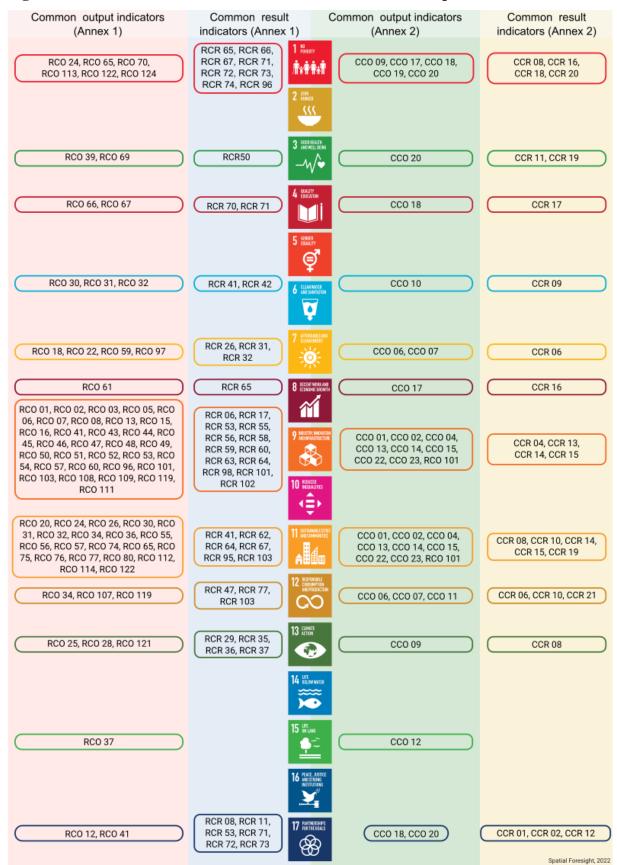
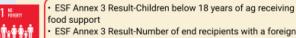


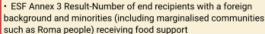
Figure 2.6 SDGs and their attribution to ESF+ common output and result indicators

Common output indicators

- ESF Annex 1/2 Output-minorities (including marginalised communities, such as Roma people participate in operations targeting people
- ESF Annex 1/2 Output-With disabilities participate in operations targeting people
- ESF Annex 3 Output-Tonnes/Share of food for which only transport, distribution and storage were paid for by the programme (in %)
- ESF Annex 3 Output-Total monetary value of distributed food for other target groups
- ESF Annex 3 Output-Total monetary value of distributed food for the homeless
- ESF Annex 3 Output-Total monetary value of distributed goods for children
- ESF Annex 3 Output-Total monetary value of distributed goods for homeless
- ESF Annex 3 Output-Total monetary value of distributed goods for other target groups
- ESF Annex 1/2 Output-With lower secondary education or less participate in operations targeting people
- ESF Annex 1/2 Output-With upper secondary or post-secondary education participate in operations targeting people
- ESF Annex 1/2 Output-Participants from rural areas participate in operations targeting people
- ESF Annex 1/2 Output-With tertiary education participate in operations targeting people
- ESF Annex 1/2 Output Unemployed, including long-term unemployed participate in operations targeting people
 ESF Annex 1/2 Output Long-term unemployed participate in
- Person and the state of th
- targeting people
 ESF Annex 1/2 Output Employed, including self-employed
- participate in operations targeting people
- ESF Annex 1/2 Output-Young people between 18 and 29 years of age participate in operations targeting people
- ESF Annex 1/2 Output Number of supported micro, small and medium-sized enterprises (including cooperative enterprises and social enterprises).

Comon result indicators



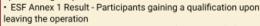


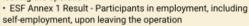
- ESF Annex 3 Result-Number of homeless end recipients or end-recipients affected by housing exclusion receiving food support
- ESF Annex 3 Result-Number of recipients of 65 years of age or older receiving food support
- ESF Annex 3 Result-Number of women receiving food support
- ESF Annex 3 Result-Number of young people between 18 and 29 years of age receiving food support
- ESF Annex 3 Result-People with disabilities receiving food support











 ESF Annex 1 Result - Participants in employment, including self-employment, six months after leaving the operation

 ESF Annex 1 Result - Participants with an improved labour market situation six months after leaving the operation

 ESF Annex 3 Result - Number of job placements under targeted mobility schemes

















Spatial Foresight, 2022



2.3 Regional SDG indicators

Following the examples of SDG indicators, the focus is on measuring change towards reaching a goal. This can be measured at regional level.

At European level there are no harmonised regional SDG indicators and no coherent composite regional SDG index. JRC and ESPON provide stepping-stones towards partially comparative regional mapping concerning the SDGs.

JRC¹⁵ compiled a proposal for indicators – though not all of them exist EU-wide – and offers a knowledge base for SDGs, the JRC KnowSDGs¹⁶. This web platform organises knowledge on policies, indicators, methods and data with tools to support evidence-based implementation of the SDGs.

ESPON has developed an SDG benchmarking tool¹⁷ at regional level. The ESPON SDG tool contains a wide range of indicators. This provides a picture of EU-wide disparities on SDG indicators. It also offers insights on whether a region is making progress towards SDG targets, or how it is doing compared to other (comparable) European regions. At present not all indicators are updated.

Both tools provide insights on indicators which enable measurement of how a region is doing in relation to an SDG. However, it will be difficult to analyse exactly how much cohesion policy has contributed to the change. To some degree an assessment of impact pathways can establish a rationale linking a particular change to cohesion policy, but this will often be qualitative.

Nevertheless, for regional policies it helps to know how much a region is moving towards the SDGs. Following the JRC and ESPON work, for each SDG there are some regional indicators—though not all of have EU-wide data.

• **SDG 1 – No poverty:**

- At-risk-of-poverty or social exclusion rate
- o Direct economic loss attributed to disasters in relation to regional GDP
- o Disaster Risk Reduction Strategies
- Housing cost overburden rate
- o Lack of adequate heating

¹⁵ https://op.europa.eu/en/publication-detail/-/publication/0917c17e-c8cb-11eb-84ce-01aa75ed71a1/language-en

¹⁶ https://knowsdgs.jrc.ec.europa.eu/

¹⁷ https://sdg.espon.eu/benchmark

- Number of deaths, missing persons and people directly affected attributed to disasters per 100,000 inhabitants
- Overcrowded living conditions
- o Percentage of people at risk of income poverty after social transfers
- o Percentage of people living in households with very low work intensity
- o Percentage of people with severe material deprivation
- Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with national or regional disaster risk reduction strategies

• SDG 2 – Zero hunger:

- Change to organic farming
- o Gross Value Added (GVA) of agriculture, livestock and fishing with respect to the GVA of all sectors (current prices)
- Organic farming
- Overweight rate
- o Percentage of land dedicated to organic agriculture
- o Percentage of surface area dedicated to organic livestock farming

• SDG 3 – Good health and well-being:

- Air quality index
- o Death rate due to tuberculosis, HIV and hepatitis
- o Fatalities in traffic accidents
- General good health status
- Life expectancy at birth (separated for men and women)
- Maternal mortality ratio
- Unmet need for medical examination and care

• SDG 4 – Quality education:

- Early leavers from education and training
- o Employment rates of young people not in education and training
- Life-long learning (separated for men and women)
- Low performance in reading, mathematics and science
- o Participation in early childhood education
- o Participation rates of young people in education

- o Population between 30 and 34 years old with higher education level (separated for men and women)
- School drop-out rate
- o Tertiary educational attainment

• SDG 5 – Gender equality:

- o Average gross annual salary (separated for men and women)
- Employment rates of young females not in education and training
- o Female early leavers from education and training
- o Female students enrolled in tertiary education
- Inactive population rate due to caregiving responsibilities (separated for men and women)
- Victims of violence against women
- Women in Parliament and Government

• SDG 6 – Clean water and sanitation:

- Lack of toilet in dwelling
- Percentage of population connected to wastewater with at least secondary treatment
- Percentage of population served by safely managed drinking water supply services
- Rate of groundwater that exceed a standardised quality rating
- o Rate of water bodies that exceed a standardised quality rating
- Sewage treatment
- o Total water demand

• SDG 7 – Affordable and clean energy:

- Final energy intensity
- o Household energy consumption per capita
- o Inability to keep home adequately warm
- o Percentage of people affected by energy poverty
- Share of renewable energy in gross final energy consumption
- o Share of renewable energy in heating and cooling buildings

• SDG 8 – Decent work and economic growth:

o Employment

- o GDP at market prices (per capita)
- Incidence of occupational accidents
- Long-term unemployment
- People in work at-risk-of-poverty
- o Regional GDP as Purchasing Power Parity per capita
- Unemployment rate (separated for men and women)
- Youth unemployment rate

• SDG 9 – Industry, innovation and infrastructure:

- o Greenhouse Gas Emissions from the industrial sector
- o Gross Value Added (GVA) of the industry with respect to GVA of all sectors (current prices)
- o R&D expenditure (GERD)
- o Public transport vehicles
- o Total R&D personnel

• SDG 10 – Reduced inequalities:

- o Disposable income of private households per inhabitant
- o Disposable income of private households relative to national average
- GINI Index
- o People at risk of poverty or social exclusion
- Regional Indicators JRC
- o Unemployment rate of people with disabilities
- Unemployment rate of the immigrant population

• SDG 11 – Sustainable cities and communities:

- Air pollution Particle pollution (PM2.5)
- o Air pollution Particulate matter pollution (PM10)
- Artificial land use
- Household and commercial waste generation per inhabitant
- Knowledge of the second official language (in territories with two official languages)
- Overcrowded living conditions
- Proportion of population residing in municipalities with local sustainable development plans

- Settlement area per million population
- Subsidised housing
- Victims killed in road accidents

• SDG 12 – Responsible consumption and production:

- Energy consumption per capita
- Food waste
- Hazardous Waste
- Material footprint (per capita)
- Municipal waste
- Number of sustainable tourism plans
- o Rate of selective collection of household and commercial waste
- o Responsible public procurement
- Uncollected sewage

• SDG 13 – Climate action:

- o Air pollution NO2
- o Air pollution ozone
- Air pollution Particle pollution (PM2.5)
- Air pollution Particulate matter pollution (PM10)
- o Greenhouse Gas Emissions (per capita)
- o Percentage of budget allocated to climate action

• SDG 14 – Life below water:

- Coastal areas with good/very good water quality
- Estuarine with high/very high water quality
- Forest area as a proportion of total land area
- o Marine sites protection
- Plastic pollution of seas and oceans
- Protected natural areas including coastal and estuarine sites

• SDG 15 – Life on land:

- Control of invasive species
- o Forest area protection

- Land covered by artificial surfaces
- Nature area protection
- Percentage of forest area over total surface area
- o Potentially contaminated area (cumulative) reclaimed for new uses
- Potentially contaminated land area
- o Proportion of threatened (endangered and vulnerable) species with management or recovery plans
- Protected natural areas

• SDG 16 – Peace, justice and strong institutions:

- Confidence in the Government
- Crime rate
- European Quality of Government
- o Participation in the last elections
- Transparency index
- o Trust in the EU
- o Trust in the legal system
- Trust in the police

• SDG 17 – Partnerships for the goals:

- o Broadband at home
- o Imports from developing countries
- o Innovative SMEs collaborating with others
- International scientific co-publications
- o Official Development Assistance
- Online interaction with public authorities
- o Partnerships to achieve the SDGs
- Public-private co-publications

3 Lessons for cohesion policy post 2027

Cohesion policy post 2027 could benefit from a closer link to well-being and SDG indicators. The review of existing indicators shows there are already composite as well as individual domain indicators which could be used. However, in both cases they would need continued monitoring and a wider political debate about which are the most appropriate. Beyond selecting the most suitable indicators, presenting and communicating the indicators should be considered. There are already well-being and SDG indices.

3.1 Possible well-being indicators to complement GDP

A wide range of well-being indices and indicators could complement GDP in the debate about future cohesion policy.

However, most of the composite indicators and indices are not regularly updated. Among those EU-wide indices available, the EU regional Social Progress Index developed by DG REGIO is likely to be regularly updated and thus complement GDP indices.

Still, the EU regional Social Progress Index as well as other indices rely on input from the European Quality of Life Survey. This allows to better reflect the subjectivity of personal well-being or quality of life. However, it also risks results being biased to survey sampling. Furthermore, stronger monitoring of well-being would be helped by increasing the frequency of the European Quality of Life Survey and a strong sample allowing for regional data (rather regionalising national data).

Alternatively, instead of a composite well-being indicator, it could be possible to identify which common domains of the well-being indices are most relevant for policy makers. These include access to services of general interest, environment, governance, health, housing, life satisfaction, material well-being, safety & security and social inclusiveness. For each of these, different regional indicators could be identified from the indices. This would allow selection of the most relevant domains and thus the most relevant indicators. This, however, is a political decision.

3.2 Possible indicators to measure progress on SDGs

There is a wide range of SDG indices and indicators which could support cohesion policy to better understand both regional contributions to an SDG as well as the link between cohesion policy and SDGs.

Firstly, to have a better understanding of how much EU cohesion policy budget supports the SDGs, coefficients could be developed linking planned funding to each SDG. Inspiration can be taken from the EU approach to climate budgeting. Furthermore, the field of interventions laid down in the common provision can be used to develop proxies linking funding allocations and SDGs.

Secondly, to better understand how cohesion policy outcomes and results contribute to achieving SDGs, ERDF and ESF+ common indicators have been compared to SDG indicators. Several output and result indicators have been identified which can be approximated to individual indicators for 12 of the 17 SDGs. This allows for a more in-depth discussion and review of how to measure cohesion policy contributions to SDGs using common indicators. For the remaining five SDGs it might also be possible to identify common output and result indicators in a more in-depth analysis.

Thirdly, SDG indicators can help to better understand (regional) disparities related to individual SDGs. At European level there are no harmonised regional SDG indicators and no coherent composite regional SDG index. However, the SDG indicator work by JRC and ESPON provides stepping-stones towards partially comparative regional mapping for SDGs. In particular the ESPON SDG benchmarking tool provides a good basis to assess regional disparities for selected SDG indicators. This tool could be the basis for a continuous monitoring tool selecting the most relevant SDGs or SDG indicators to inform future cohesion policy. This, however, is a political decision.

3.3 Approach to presenting composite indicators

In most cases composite indicators are difficult to understand for decision makers as the reasons for a place's performance remain unclear. In recent years, many approaches to composite indicators have been accompanied by interactive tools highlighting the composite indicator and/or benchmark territories.

Below are a few examples from beyond GDP and SDG indices. They show different ways a composite index can be presented to enable insights into which components or sub-indicators are strong or weak points for a particular place. The OECD introduced this type of visualisation with its Better Life Index¹⁸ and then progressed with the Regional Well-Being Index. The global SDG Index follows a similar approach and even includes trend data indicating the direction of changes over time for each SDG and indicator. At European level, DG REGIO's European regional Social Progress Index offers a scorecard and benchmarking spider diagram providing insights on individual indicators in the index. For the SDG

¹⁸ https://www.oecdbetterlifeindex.org

benchmarking tool, ESPON focuses on comparisons of individual indicators rather than presenting an overall index value. The ESPON Territorial Quality of Life Index provides an EU-wide map of the index enabling disaggregated insights and benchmarks for individual domains. However, unfortunately this is not available as an interactive online tool.

Regional Well-Being Stockholm Q Search (3) Share Explore the map to find out how life is across OECD Regions with similar well-being in other countries regions and discover regions with similar well-being Each region is measured in eleven topics important for well-being. The values of the indicators are expressed as a score between 0 and 10. A high score indicates better performance relative to the other regions. @ Help Well-being in detail 0 Access to services Civic Engagement **Education** Stockholm reaches 9.7 / 10 points in Access to Stockholm reaches 9.0 /10 points in Civic Stockholm reaches **8.4** / 10 points in Education. This puts the region in position 2 / 8 regions in This puts the region in position 3/8 regions in This puts the region in position 7/8 regions in Sweden. Sweden. Compared across all OECD regions, the region is in the Compared across all OECD regions, the region is in the Compared across all OECD regions, the region is in the top 36% in Education top 7% In Access to services. top 19% in Civic Engagement. top 20% bottom 20% top 20% Indicators

Figure 3.1 OECD – Unboxing Regional Well-Being

Indicators

Households Broadband access: 96.0 %

Source: https://www.oecdregionalwellbeing.org

Share of labour force with at least secondary

☑ Share

Compare Sweden to other countries

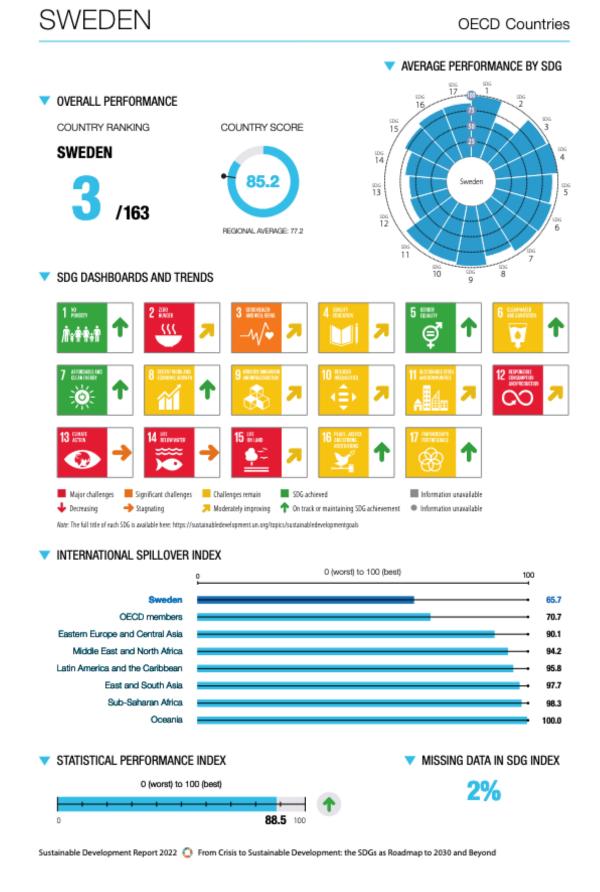
education: 86.2 %

Indicators

Voter turnout: 85.7 %

O Compare Sweden to other countries

Figure 3.2 SDG Index – Unboxing SDG indicators



SWEDEN

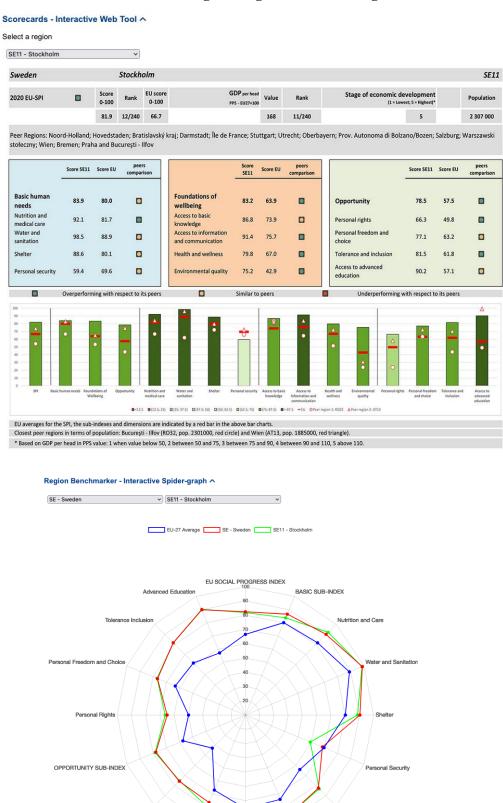
SDG1 - No Poverty	Value Tear Rating Tren			Year R 2020	ang	400
Noverty headcount ratio at \$1.90/day (%) Noverty headcount ratio at \$3.20/day (%)	0.6 2022	Population using the internet (%) Mobile broadband subscriptions (per 100 population)		2019	7	I
Poverty rate after taxes and transfers (%)	9.3 2019	Logistics Performance Index: Quality of trade and transport-related				Ţ
	5.3 2015 W	infrastructure (worst 1–5 best)	4.2	2018	•	Ť
SDG2 – Zero Hunger		The Times Higher Education Universities Ranking: Average score of		2022		_
Prevalence of undernourishment (%)	2.5 2019 • 💠	top 3 universities (worst 0-100 best)	54.7	2022	•	•
Prevalence of stunting in children under 5 years of age (%)	2.6 2019 • 💠	Articles published in academic journals (per 1,000 population)	4.3	2020	•	1
Prevalence of wasting in children under 5 years of age (%)	• 0.7 2019 • •	Expenditure on research and development (% of GDP)	3.3	2018	•	Ť
Prevalence of obesity, BMI ≥ 30 (% of adult population)	20.6 2016 • 4	Researchers (per 1,000 employed population)	15.1	2019	•	4
Human Trophic Level (best 2–3 worst)	2.5 2017 • →	Triadic patent families filed (per million population)	84.9	2019	•	Ť
Cereal yield (tonnes per hectare of harvested land)	3.5 2018 • 1	Gap in internet access by income (percentage points)	15.1	2020	•	4
Sustainable Nitrogen Management Index (best 0–1.41 worst)	0.5 2015 • 🕹	Female share of graduates from STEM fields at the tertiary level (%)	35.5	2017	•	1
Yield gap closure (% of potential yield)	68.0 2018 • •	SDG10 – Reduced Inequalities				
Exports of hazardous pesticides (tonnes per million population)	75.8 2019 • •	Gini coefficient	30.0	2018	٠	4
SDG3 – Good Health and Well-Being		Palma ratio		2019		÷
Maternal mortality rate (per 100,000 live births)	4 2017 • 💠	Elderly poverty rate (% of population aged 66 or over)		2019		ä
Neonatal mortality rate (per 1,000 live births)	1.4 2020 • 💠	-	117-9	2012	_	•
Mortality rate, under-5 (per 1,000 live births)	2.6 2020 • 💠	SDG11 – Sustainable Cities and Communities				
ncidence of tuberculosis (per 100,000 population)	3.6 2020 • 💠	Proportion of urban population living in slums (%)	0.0	2018	•	Ŧ
New HIV infections (per 1,000 uninfected population)	1.0 2020 • ->	Annual mean concentration of particulate matter of less than	6.0	2019	•	4
Age-standardized death rate due to cardiovascular disease, cancer,	8.4 2019 • 🛧	2.5 microns in diameter (PM2.5) (µg/m³)	00.0	2022		
diabetes, or chronic respiratory disease in adults aged 30–70 years (%)	0.4 2019 • T	Access to improved water source, piped (% of urban population) Satisfaction with public transport (%)		2020		7
Age-standardized death rate attributable to household air pollution and	7 2016 • •	Population with rent overburden (%)		2019		Ţ
ambient air pollution (per 100,000 population)			9.3	2017	-	-
Traffic deaths (per 100,000 population)	3.1 2019	SDG12 – Responsible Consumption and Production				
Life expectancy at birth (years)	82.4 2019	Electronic waste (kg/capita)		2019	•	
Adolescent fertility rate (births per 1,000 females aged 15 to 19)	4.2 2018 • ↑	Production-based SO ₂ emissions (kg/capita)		2018	•	
Births attended by skilled health personnel (%)	NA NA	SO ₂ emissions embodied in imports (kg/capita)		2018		0
Surviving Infants who received 2 WHO-recommended vaccines (%)	97 2020 • ↑	Production-based nitrogen emissions (kg/capita)		2015		1
Universal health coverage (UHC) index of service coverage (worst 0–100 best)		Nitrogen emissions embodied in imports (kg/capita)		2015		4
Subjective well-being (average ladder score, worst 0–10 best)	7.4 2021	Exports of plastic waste (kg/capita)		2021		
Gap in life expectancy at birth among regions (years)	1.8 2019 • 💠	Non-recycled municipal solid waste (kg/capita/day)	0.7	2019	•	1
Gap in self-reported health status by income (percentage points)	22.5 2019 • 💠	SDG13 – Climate Action				
Daily smokers (% of population aged 15 and over)	10.4 2019 • 💠	CO2 emissions from fossil fuel combustion and cement production	2.0	2020		
SDG4 – Quality Education		(tCO ₂ /capita)	3.6	2020	•	ò
Participation rate in pre-primary organized learning (% of children aged 4 to 6)	99.9 2019 • 💠	CO ₂ emissions embodied in imports (tCO ₂ /capita)	3.3	2018	•	4
Net primary enrollment rate (%)	99.9 2019 • 💠	CO ₂ emissions embodied in fossil fuel exports (kg/capita)	67.5	2020	•	0
ower secondary completion rate (%)	107.6 2019 • 💠	Carbon Pricing Score at EUR60/tCO ₂ (%, worst 0-100 best)	29.0	2018	•	4
Literacy rate (% of population aged 15 to 24)	NA NA ·	SDG14 – Life Below Water				
Tertiary educational attainment (% of population aged 25 to 34)	49.1 2020 • 💠	Mean area that is protected in marine sites important to biodiversity (%)	60.2	2020	•	4
PISA score (worst 0-600 best)	502.3 2018 • 💠	Ocean Health Index: Clean Waters score (worst 0-100 best)		2020		i
Variation in science performance explained by socio-economic status (%)	12.7 2018 🔸 👃	Fish caught from overexploited or collapsed stocks (% of total catch)		2018		ĭ
Underachievers in science (% of 15-year-olds)	19.0 2018 🔸 💠	Fish caught by trawling or dredging (%)		2018		ă
SDG5 – Gender Equality		Fish caught that are then discarded (%)		2018		ė
Demand for family planning satisfied by modern methods		Marine biodiversity threats embodied in imports (per million population)		2018		ė
(% of females aged 15 to 49)	86.7 2017 • 👚		6.1	2010	Ť	Ť
Ratio of female-to-male mean years of education received (%)	102.4 2019 • 💠	SDG15 – Life on Land				
Ratio of female-to-male labor force participation rate (%)	89.0 2020 • 💠	Mean area that is protected in terrestrial sites important to biodiversity (96)		2020	•	7
Seats held by women in national parliament (%)	47.0 2020 • 💠	Mean area that is protected in freshwater sites important to biodiversity (96)		2020		7
Gender wage gap (% of male median wage)	7.4 2020 • 💠	Red List Index of species survival (worst 0–1 best)		2021		7
SDG6 – Clean Water and Sanitation		Permanent deforestation (% of forest area, 5-year average)	0.0	2020	•	1
	00.9 2020 -	Terrestrial and freshwater biodiversity threats embodied in imports	1.6	2018	•	0
Population using at least basic drinking water services (%) Population using at least basic sanitation services (%)	99.8 2020 • ↑	(per million population)				
repulation using at least basic sanitation services (%) Freshwater withdrawal (% of available freshwater resources)	3.4 2018	SDG16 – Peace, Justice and Strong Institutions				
	100.0 2018	Homicides (per 100,000 population)		2020	•	1
Anthropogenic wastewater that receives treatment (%) Scarce water consumption embodied in imports (m ³ H ₂ O eq/capita)	2676.0 2018	Unsentenced detainees (% of prison population)	28.1	2019	•	1
carce water consumption embodied in imports (mr. HgO eq/capita) Population using safely managed water services (%)	99.8 2020 • •	Population who feel safe walking alone at night in the city or area where	81	2021	•	4
Population using safely managed water services (%)	94.9 2020	they live (%)				į
	24.2 2020			2020	:	1
SDG7 – Affordable and Clean Energy		Birth registrations with civil authority (% of children under age S)		2020	-	-
Opulation with access to electricity (%)	100.0 2019 • 🛧	Corruption Perception Index (worst 0–100 best)		2021	:	Ţ
opulation with access to clean fuels and technology for cooking (%)	100.0 2019 • 💠	Children involved in child labor (% of population aged 5 to 14)	0.0	2019	•	-
O ₂ emissions from fuel combustion per total electricity output (MtCO ₂ /TWh)		Exports of major conventional weapons (TV constant million USD	1.9	2020	•	0
Share of renewable energy in total primary energy supply (%)	40.1 2019 • 💠	per 100,000 population) Prays Freedom Index (heat 0 - 100 west)	7.9	2021		
DG8 – Decent Work and Economic Growth		Press Freedom Index (best 0=100 worst) Access to and affordability of justice (worst 0=1 best)		2020		1
Adjusted GDP growth (%)	-0.2 2020 • •					I
/ictims of modern slavery (per 1,000 population)	1.6 2018 • •	Persons held in prison (per 100,000 population)	00.9	2019	•	7
Adults with an account at a bank or other financial institution or with a	_	SDG17 – Partnerships for the Goals				
mobile-money-service provider (% of population aged 15 or over)	99.7 2017 • 💠	Government spending on health and education (% of GDP)	16.9	2019	•	1
Fundamental labor rights are effectively guaranteed (worst 0–1 best)	0.8 2020 • 💠	For high-income and all OECD DAC countries: International concessional				A
Fatal work-related accidents embodied in imports (per 100,000 population)		public finance, including official development assistance (% of GNI)	0.9	2021	•	1
implayment-to-population ratio (%)	74.9 2020 • •	Other countries: Government revenue excluding grants (% of GDP)		NA.		0
Youth not in employment, education or training (NEET)		Corporate Tax Haven Score (best 0–100 worst)	56.0	2019	•	0
AND THE PARTY OF T	7.6 2020 • 💠	Financial Secrecy Score (best 0-100 worst)	45.7	2020	•	
(% of population aged 15 to 29)						
(% of population aged 15 to 29)	•	Shifted profits of multinationals (US\$ billion)	13.7	2018	•	1

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Sustainable Development Report 2022 💍 From Crisis to Sustainable Development: the SDGs as Roadmap to 2030 and Beyond

Source: https://dashboards.sdgindex.org/map

Figure 3.3 DG REGIO – Unboxing EU regional Social Progress Index



https://ec.europa.eu/regional_policy/en/information/maps/social_progress2020/#4

ICT Access

Environmental Quality

FOUNDATION SUB-INDEX

Source:

Basic Knowledge

Social Traylogical State of Countries covered at NUTS 1 or NUTSO levels only: BE, NL)

My region

Social Traylogical by the number of rooms and family situation (Countries covered at NUTS 1 or NUTSO levels only: BE, NL)

My region: Stockholm

P Check out relevant initiatives in Europe

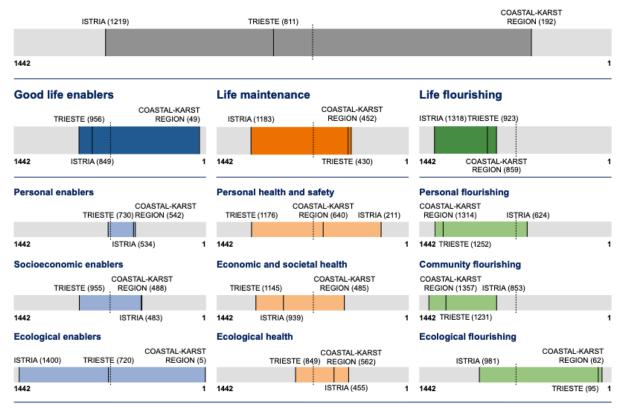
Figure 3.4 ESPON – Unboxing SDG benchmarking tool

Source: https://sdg.espon.eu/

Figure 3.5 ESPON – Unboxing Territorial Quality of Life

(unfortunately not yet available as an interactive tool)

Territorial Quality of Life index of the trinational region in a European context



Source: https://www.espon.eu/sites/default/files/attachments/ESPON%20 Policy%20 Brief%2C%20 Quality%20 of%20 life.pdf

3.4 Data collection needs and gaps

The review of beyond GDP and SDG indicators reveals the need for more continuous EU-wide monitoring at regional level.

Regular updating of the EU regional Social Progress Index by DG REGIO or the Territorial Quality of Life Index by ESPON would allow better monitoring of regional well-being. This in turn might help to strengthen each index as a suitable complement to GDP.

Furthermore, to strengthen monitoring of regional well-being, it would help if Eurofound could increase the frequency of the European Quality of Life Survey and enlarge the sample to result in representative regional data (rather than the present need to regionalise national data).

There is no current regular EU-wide comparable regional monitoring of SDG performance. The ESPON SDG benchmarking tool offers a good starting point, but this would require regular data updates. Also the JRC overview of regional SDG indicators and KnowSDGs provide good starting points for EU-wide regional monitoring. However, this would require moving from identifying indicators to data collection and mapping.

4 Questions for the Cohesion Alliance workshop

The review of beyond GDP and SDG indices leads to questions for further discussion:

- Does the EU regional Social Progress Index satisfy policy needs for a 'well-being complement' to GDP?
- Which common domains of beyond GDP indices are most relevant for regional policy makers (i.e. services of general interest, environment, governance, health, housing, life satisfaction, material well-being, safety & security and/or social inclusiveness)? Which of the reviewed indicators (see section 1.2) for each domain are considered most relevant by regional policy makers?
- What is better suited for complementing GDP in future cohesion policy debates, an index or a compilation of different indicators or several domains indexes?
- Would it help to attribute planned cohesion policy spending to individual SDGs to have a better overview of what budget is expected to support them?
- Would it help to link common ERDF and ESF+ output and result indicators to individual SDGs to better understand how and how much cohesion policy contributes to the SDGs?
- Would it help to have regular monitoring and mapping of regional development linked to SDGs as a composite indicator, or for particular SDGs and indicators?
- Does the EU need an EU-wide regional monitoring tool for well-being and SDGs which is constantly updated and allows an EU-wide overview as well as regional benchmarking and factsheets?
- Would regional well-being and SDG monitoring benefit from the development of a regional resilience indicator?

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Annex 1 – ERDF and ESF+ fields of intervention attribution to SDGs

	Intervention Fields
SDG 1	 PO1-19-e-Health services and applications (including e-Care, Internet of Things for physical activity and ambient assisted living) PO2-58-Adaptation to climate change measures and prevention and management of climate related risks: floods and landslides (including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches) PO2-59-Adaptation to climate change measures and prevention and management of climate related risks: fires (including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches) PO2-60-Adaptation to climate change measures and prevention and management of climate related risks: others, e.g. storms and drought (including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches) PO2-61-Risk prevention and management of non-climate related natural risks (for example earthquakes) and risks linked to human activities (for example technological accidents), including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches PO4-126-Housing infrastructure (other than for migrants, refugees and persons under or applying for international protection) PO4-127-Other social infrastructure contributing to social inclusion in the community PO4-158-Measures to enhancing the equal and timely access to quality, sustainable and affordable services PO4-162-Measures to modernise social protection systems, including promoting access to social protection PO4-163-Promoting social integration of people at risk of poverty or social exclusion, including the most deprived and children PO4-164-Addressing material deprivation through food and/or material assistance to the most deprived, including accompanying measures
SDG 2	including accompanying measures
SDG 3	 PO2-77-Air quality and noise reduction measures PO4-128-Health infrastructure PO4-129-Health equipment PO4-130-Health mobile assets PO4-132-Critical equipment and supplies necessary to address emergency situation PO4-160-Measures to improve the accessibility, effectiveness and resilience of healthcare systems (excluding infrastructure)
SDG 4	 PO4-161-Measures to improve access to long-term care (excluding infrastructure) PO4-122-Infrastructure for primary and secondary education PO4-123-Infrastructure for tertiary education PO4-124-Infrastructure for vocational education and training and adult learning PO4-145-Support for the development of digital skills PO4-148-Support for early childhood education and care (excluding infrastructure) PO4-149-Support for primary to secondary education (excluding infrastructure) PO4-150-Support for tertiary education (excluding infrastructure) PO4-154-Measures to improve access of marginalised groups such as the Roma to education, employment and to promote their social inclusion
SDG 5	
SDG 6	 PO2-62-Provision of water for human consumption (extraction, treatment, storage and distribution infrastructure, efficiency measures, drinking water supply) PO2-63-Provision of water for human consumption (extraction, treatment, storage and distribution infrastructure, efficiency measures, drinking water supply) compliant with efficiency criteria (17) PO2-65-Waste water collection and treatment PO2-66-Waste water collection and treatment compliant with energy efficiency criteria (18)
SDG 7	 PO2-47-Renewable energy: wind PO2-48-Renewable energy: solar PO2-49-Renewable energy: biomass (13) PO2-50-Renewable energy: biomass with high greenhouse gas savings (14) PO2-51-Renewable energy: marine

• PO2-52-Other renewable energy (including geothermal energy) • PO2-53-Smart Energy Systems (including smart grids and ICT systems) and related storage PO2-54-High efficiency co-generation, district heating and cooling PO2-55 (15)-High efficiency co-generation, efficient district heating and cooling with low lifecycle emissions (16) PO2-56-Replacement of coal-based heating systems by gas-based heating systems for climate mitigation purposesPO2-57-Distribution and transport of natural gas substituting coal PO2-85-Digitalisation of transport when dedicated in part to greenhouse gas emissions reduction: urban transport • PO3-95-Digitalisation of transport when dedicated in part to greenhouse gas emissions reduction: road PO3-99-Other newly built or upgraded railways – electric/zero emission (25) PO3-107-Mobile zero emission/electric powered (26) rail assets PO3-120-Digitising transport when dedicated in part to greenhouse gas emissions reduction: other transport PO4-134-Measures to improve access to employment • PO4-135-Measures to promote access to employment of long-term unemployed PO4-136-Specific support for youth employment and socio-economic integration of young people PO4-139-Measures to modernise and strengthen labour market institutions and services to assess and anticipate skills needs and to ensure timely and tailor-made assistance • PO4-140-Support for labour market matching and transitions • PO4-141-Support for labour mobility PO4-142-Measures to promote women's labour market participation and reduce gender-based segregation in the labour market SDG 8 PO4-144-Measures for a healthy and well-adapted working environment addressing health risks, including promotion of physical activity PO4-153-Pathways to integration and re-entry into employment for disadvantaged people PO4-154-Measures to improve access of marginalised groups such as the Roma to education, employment and to promote their social inclusion PO4-156-Specific actions to increase participation of third-country nationals in employment PO5-165-Protection, development and promotion of public tourism assets and tourism services PO5-167-Protection, development and promotion of natural heritage and eco-tourism other than Natura 2000 PO1-1-Investment in fixed assets, including research infrastructure, in micro enterprises directly linked to research and innovation activities PO1-2-Investment in fixed assets, including research infrastructure, in small and medium-sized enterprises (including private research centres) directly linked to research and innovation activities PO1-3-Investment in fixed assets, including research infrastructure, in large enterprises (4) directly linked to research and innovation activities PO1-4-Investment in fixed assets, including research infrastructure, in public research centres and higher education directly linked to research and innovation activities PO1-5-Investment in intangible assets in micro enterprises directly linked to research and innovation activities PO1-6-Investment in intangible assets in SMEs (including private research centres) directly linked to research and innovation activities PO1-7-Investment in intangible assets in large enterprises directly linked to research and innovation activities PO1-8-Investment in intangible assets in public research centres and higher education directly linked to research and innovation activities SDG 9 PO1-9-Research and innovation activities in micro enterprises including networking (industrial research, experimental development, feasibility studies) PO1-10-Research and innovation activities in SMEs, including networking • PO1-11-Research and innovation activities in large enterprises, including networking • PO1-12-Research and innovation activities in public research centres, higher education and centres of competence including networking (industrial research, experimental development, feasibility studies) • PO1-20-Business infrastructure for SMEs (including industrial parks and sites) • PO1-25-Incubation, support to spin offs and spin outs and start ups • PO1-32-ICT: Very High-Capacity broadband network (backbone/backhaul network) • PO1-33-ICT: Very High-Capacity broadband network (access/local loop with a performance equivalent to an optical fibre installation up to the distribution point at the serving location for multi-dwelling premises) • PO1-34-ICT: Very High-Capacity broadband network (access/local loop with a performance equivalent to an optical fibre installation up to the distribution point at the serving location for homes and business PO1-35-ICT: Very High-Capacity broadband network (access/local loop with a performance equivalent to

an optical fibre installation up to the base station for advanced wireless communication

- PO2-81-Clean urban transport infrastructure (21)
- PO2-82-Clean urban transport rolling stock (22)
- PO3-87 (24)-Newly built or upgraded motorways and roads TEN-T core network
- PO3-88-Newly built or upgraded motorways and roads TEN-T comprehensive network
- PO3-89-Newly built or upgraded secondary road links to TEN-T road network and nodes
- PO3-90-Newly built or upgraded other national, regional and local access roads
- PO3-91-Reconstructed or modernised motorways and roads TEN-T core network
- PO3-92-Reconstructed or modernised motorways and roads TEN-T comprehensive network
- PO3-93-Other reconstructed or modernised roads (motorway, national, regional or local)
- PO3-96-Newly built or upgraded railways TEN-T core network
- PO3-97-Newly built or upgraded railways TEN-T comprehensive network
- PO3-98-Other newly built or upgraded railways
- PO3-99-Other newly built or upgraded railways electric/zero emission (25)
- PO3-100-Reconstructed or modernised railways TEN-T core network
- PO3-101-Reconstructed or modernised railways TEN-T comprehensive network
- PO3-102-Other reconstructed or modernised railways
- PO3-103-Other reconstructed or modernised railways electric/zero emission (26)
- PO3-104-Digitalisation of transport: rail
- PO3-105-European Rail Traffic Management System (ERTMS)
- PO3-106-Mobile rail assets
- PO3-107-Mobile zero emission/electric powered (26) rail assets
- PO3-108-Multimodal transport (TEN-T)
- PO3-109-Multimodal transport (not urban)
- PO3-110-Seaports (TEN-T)
- PO3-111-Seaports (TEN-T) excluding facilities dedicated to transport of fossil fuels
- PO3-112-Other seaports
- PO3-113-Other seaports excluding facilities dedicated to transport of fossil fuels
- PO3-114-Inland waterways and ports (TEN-T)
- PO3-115-Inland waterways and ports (TEN-T) excluding facilities dedicated to transport of fossil fuels
- PO3-116-Inland waterways and ports (regional and local)
- PO3-117-Inland waterways and ports (regional and local) excluding facilities dedicated to transport of fossil fuels
- PO3-118-Security, safety and air traffic management systems, for existing airports
- PO3-119-Digitising transport: other transport modes
- PO3-120-Digitising transport when dedicated in part to greenhouse gas emissions reduction: other transport modes
- PO4-137-Support for self-employment and business start-ups

SDG 10

- PO4-153-Pathways to integration and re-entry into employment for disadvantaged people
- PO4-156-Specific actions to increase participation of third-country nationals in employment
- PO4-157-Measures for the social integration of third-country nationals
- PO2-41-Energy efficiency renovation of existing housing stock, demonstration projects and supporting measures
- PO2-42-Energy efficiency renovation of existing housing stock, demonstration projects and supporting
 measures compliant with energy efficiency criteria (10)
- PO2-43-Construction of new energy efficient buildings (11)
- PO2-44-Energy efficiency renovation or energy efficiency measures regarding public infrastructure, demonstration projects and supporting measures
- PO2-45-Energy efficiency renovation or energy efficiency measures regarding public infrastructure, demonstration projects and supporting measures compliant with energy efficiency criteria (12)
- PO2-58-Adaptation to climate change measures and prevention and management of climate related risks: floods and landslides (including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches)

SDG 11

- PO2-59-Adaptation to climate change measures and prevention and management of climate related risks: fires (including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches)
- PO2-60-Adaptation to climate change measures and prevention and management of climate related risks: others, e.g. storms and drought (including awareness raising, civil protection and disaster management systems, infrastructures and ecosystem based approaches)
- PO2-61-Risk prevention and management of non-climate related natural risks (for example earthquakes) and
 risks linked to human activities (for example technological accidents), including awareness raising, civil
 protection and disaster management systems, infrastructures and ecosystem based approaches
- PO2-62-Provision of water for human consumption (extraction, treatment, storage and distribution infrastructure, efficiency measures, drinking water supply)

	DOG CO. D. C.
	• PO2-63-Provision of water for human consumption (extraction, treatment, storage and distribution in factor water of facing a management distribution water supply) complicate with efficiency private (17)
	infrastructure, efficiency measures, drinking water supply) compliant with efficiency criteria (17)
	PO2-67-Household waste management: prevention, minimisation, sorting, reuse, recycling measures PO2-68 Household waste management: recidual waste treatment.
	PO2-68-Household waste management: residual waste treatment PO2-60 Commercial industrial waste management; provention minimisation serting rayse recycling
	 PO2-69-Commercial, industrial waste management: prevention, minimisation, sorting, reuse, recycling measures
	PO2-70-Commercial, industrial waste management: residual and hazardous waste
	PO2-76-Commercial, industrial waste management. residual and hazardous waste PO2-78-Protection, restoration and sustainable use of Natura 2000 sites
	PO2-76-Protection, restoration and sustamable use of Natura 2000 sites PO2-81-Clean urban transport infrastructure (21)
	PO3-96-Newly built or upgraded railways - TEN-T core network
	PO3-97-Newly built or upgraded railways - TEN-T comprehensive network
	PO3-98-Other newly built or upgraded railways PO3-98-Other newly built or upgraded railways
	PO3-99-Other newly built or upgraded railways – electric/zero emission (25)
	PO3-100-Reconstructed or modernised railways - TEN-T core network
	PO3-101-Reconstructed or modernised railways - TEN-T comprehensive network
	PO3-102-Other reconstructed or modernised railways
	PO3-103-Other reconstructed or modernised railways – electric/zero emission (26)
	PO4-152-Measures to promote equal opportunities and active participation in society
	PO4-155-Support to the civil society working with marginalised communities such as the Roma
	PO5-166-Protection, development and promotion of cultural heritage and cultural services
	PO5-168-Physical regeneration and security of public spaces
	PO5-169-Territorial development initiatives, including preparation of territorial strategies
	Other-173-Enhancing institutional capacity of public authorities and stakeholders to implement territorial
	cooperation projects and initiatives in a cross-border, transnational, maritime and inter-regional context
	PO2-47-Renewable energy: wind
	PO2-48-Renewable energy: solar
	• PO2-49-Renewable energy: biomass (13)
	• PO2-50-Renewable energy: biomass with high greenhouse gas savings (14)
	PO2-51-Renewable energy: marine
	PO2-52-Other renewable energy (including geothermal energy)
	PO2-67-Household waste management: prevention, minimisation, sorting, reuse, recycling measures
	PO2-68-Household waste management: residual waste treatment
SDG 12	PO2-69-Commercial, industrial waste management: prevention, minimisation, sorting, reuse, recycling
	measures 2. DO2 70 Commercial industrial wests management, residual and heaverloss wests
	 PO2-70-Commercial, industrial waste management: residual and hazardous waste PO2-71-Promoting the use of recycled materials as raw materials
	PO2-72-Use of recycled materials as raw materials compliant with the efficiency criteria (19)
	PO2-75-Support to environmentally-friendly production processes and resource efficiency in SMEs
	PO2-76-Support to environmentally-friendly production processes and resource efficiency in large
	enterprises
	• PO5-167-Protection, development and promotion of natural heritage and eco-tourism other than Natura 2000
	sites
	PO2-58-Adaptation to climate change measures and prevention and management of climate related risks:
	floods and landslides (including awareness raising, civil protection and disaster management systems,
	infrastructures and ecosystem based approaches)
ars a se	PO2-59-Adaptation to climate change measures and prevention and management of climate related risks:
SDG 13	fires (including awareness raising, civil protection and disaster management systems, infrastructures and
	ecosystem based approaches) • PO2 60 Adoptation to climate change measures and prevention and management of climate related risks:
	 PO2-60-Adaptation to climate change measures and prevention and management of climate related risks: others, e.g. storms and drought (including awareness raising, civil protection and disaster management
	systems, infrastructures and ecosystem based approaches)
SDG 14	PO2-78-Protection, restoration and sustainable use of Natura 2000 sites
2DG 14	
	PO2-73-Rehabilitation of industrial sites and contaminated land PO2-74 Pahabilitation of industrial sites and contaminated land compliant with afficiency criteria (20).
SDG 15	 PO2-74-Rehabilitation of industrial sites and contaminated land compliant with efficiency criteria (20) PO2-78-Protection, restoration and sustainable use of Natura 2000 sites
	 PO2-78-Protection, restoration and sustamable use of Natura 2000 sites PO2-79-Nature and biodiversity protection, natural heritage and resources, green and blue infrastructure
SDC 16	• 1 02-17-ivalure and olourversity protection, natural heritage and resources, green and blue infrastructure
SDG 16	
	PO1-13-Digitising SMEs (including e-Commerce, e-Business and networked business processes, digital inconstant bub a living laborated part of the processes of ICT start and ICT.
	innovation hubs, living labs, web entrepreneurs and ICT start-ups, B2B)
SDG 17	PO1-15-Digitising SMEs or large enterprises (including e-Commerce, e-Business and networked business processes digital imposition hubs living labs, web entrepreneurs and ICT start use, R2R) compliant with
	processes, digital innovation hubs, living labs, web entrepreneurs and ICT start-ups, B2B) compliant with greenhouse gas emission reduction or energy efficiency criteria (5)
	PO1-16-Government ICT solutions, e-services, applications
<u> </u>	- 101-10-Oovernment IC1 solutions, e-services, applications

- PO1-17-Government ICT solutions, eservices, applications compliant with greenhouse gas emission reduction or energy efficiency criteria (6)
- PO1-27-Innovation processes in SMEs (process, organisational, marketing, co-creation, user and demand driven innovation)
- PO1-32-ICT: Very High-Capacity broadband network (backbone/backhaul network)
- PO1-33-ICT: Very High-Capacity broadband network (access/local loop with a performance equivalent to an optical fibre installation up to the distribution point at the serving location for multi-dwelling premises)
- PO1-34-ICT: Very High-Capacity broadband network (access/local loop with a performance equivalent to an optical fibre installation up to the distribution point at the serving location for homes and business premises)
- PO1-35-ICT: Very High-Capacity broadband network (access/local loop with a performance equivalent to an optical fibre installation up to the base station for advanced wireless communication)
- PO1-36-ICT: Other types of ICT infrastructure (including large-scale computer resources/equipment, data centres, sensors and other wireless equipment)
- PO1-37-ICT: Other types of ICT infrastructure (including large-scale computer resources/equipment, data centres, sensors and other wireless equipment) compliant with the carbon emission reduction and energy efficiency criteria (8)
- Other-171-Enhancing cooperation with partners both within and outside the Member State

Annex 2 – ERDF and ESF+ common output and result indicators attribution to SDGs

	ERDF	ESF+
	Common output indicators (Annex 1)	Common output indicators
	 RCO 24 - Investments in new or upgraded disaster monitoring, preparedness, warning and response systems against natural disasters* RCO 65 - Capacity of new or modernised social housing RCO 70 - Capacity of new or modernised social care facilities (other than housing) RCO113 - Population covered by projects in the framework of integrated actions for socioeconomic inclusion of marginalised communities, low income households and disadvantaged groups* RCO 122 - Investments in new or upgraded disaster monitoring, preparedness, warning and response systems against non-climate related natural risks and risks related to human activities RCO124: Gas transmission and distribution network lines newly constructed or improved 	 ESF Annex 1/2 Output-minorities (including marginalised communities, such as Roma people participate in operations targeting people ESF Annex 1/2 Output-With disabilities participate in operations targeting people ESF Annex 3 Output-Tonnes/Share of food for which only transport, distribution and storage were paid for by the programme (in %) ESF Annex 3 Output-Total monetary value of distributed food for other target groups ESF Annex 3 Output-Total monetary value of distributed food for the homeless ESF Annex 3 Output-Total monetary value of distributed goods for children ESF Annex 3 Output-Total monetary value of distributed goods for homeless ESF Annex 3 Output-Total monetary value of distributed goods for homeless ESF Annex 3 Output-Total monetary value of distributed goods for other target groups
	Common result indicators (Annex 1)	Common result indicators
SDG 1	 RCR 65 - Annual users of new or modernised facilities for employment services RCR 66 - Annual users of new or modernised temporary reception facilities RCR 67 - Annual users of new or modernised social housing RCR 71 - Annual users of new or modernised education facilities RCR 72 - Annual users of new or modernised e-health care services RCR 73 - Annual users of new or modernised health care facilities RCR 74 - Annual users of new or modernised social care facilities RCR 76 - Population benefiting from protection measures against non-climate related natural risks and risks related to human activities* Performance output indicators (Annex 2) 	 ESF Annex 3 Result-Children below 18 years of ag receiving food support ESF Annex 3 Result-Number of end recipients with a foreign background and minorities (including marginalised communities such as Roma people) receiving food support ESF Annex 3 Result-Number of homeless end recipients or end-recipients affected by housing exclusion receiving food support ESF Annex 3 Result-Number of recipients of 65 years of age or older receiving food support ESF Annex 3 Result-Number of women receiving food support ESF Annex 3 Result-Number of young people between 18 and 29 years of age receiving food support ESF Annex 3 Result-People with disabilities receiving food support
	CCO 09 - Investments in new or upgraded disaster monitoring, preparedness, warning and response systems CCO 17 - Surface of new or modernised facilities for employment services CCO 18 - New or modernised capacity for childcare and education facilities CCO 19 - New or modernised capacity of social housing facilities CCO 20 - New or modernised capacity for health care facilities Performance result indicators (Annex 2)	
	 CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 16 -Annual users of new or modernised facilities for employment services 	

	CCR 18 - Annual users of new or modernised social	
	housing facilities	
	CCR20 - Annual users of new or modernised temporary	
	reception facilities	
	Common output indicators (Annex 1)	Common output indicators
	RCO 39 - Area covered by systems for monitoring air pollution installed	none
	RCO 69 - Capacity of new or modernised health care facilities	
	Common result indicators (Annex 1)	Common result indicators
G3	RCR 50 - Population benefiting from measures for air quality	none
SDG	Performance output indicators (Annex 2)	
	Performance result indicators (Annex 2)	
	CCO 20 - New or modernised capacity for health care facilities	
	CCR 11 - Population benefiting from measures for air quality	
	CCR 19 - Annual users of new or modernised health care services	
	Common output indicators (Annex 1)	Common output indicators
	RCO 66 - Classroom capacity of new or modernised childcare facilities	ESF Annex 1/2 Output-With lower secondary education or less participate in operations targeting people
	RCO 67 - Classroom capacity of new or modernised education facilities	ESF Annex 1/2 Output-With upper secondary or post- secondary education participate in operations targeting
		people
		 ESF Annex 1/2 Output-Participants from rural areas participate in operations targeting people ESF Annex 1/2 Output-With tertiary education participate in operations targeting people
	Common result indicators (Annex 1)	Common result indicators
75	,	
SDG 4	RCR 70 - Annual users of new or modernised childcare facilities	ESF Annex 1 Result - Participants in education or training upon leaving the operation
	RCR 71 - Annual users of new or modernised education facilities	
	Performance output indicators (Annex 2)	
	CCO 18 - New or modernised capacity for childcare and education facilities	
	Performance result indicators (Annex 2)	
	CCR 17 - Annual users served by new or modernised childcare and education facilities	
	Common output indicators (Annex 1)	Common output indicators
	RCO 30 - Length of new or upgraded pipes for the distribution systems of public water supply	none
	RCO 31 - Length of new or upgraded pipes for the public	
9	network for collection of waste water	
SDG 6	RCO 32 - New or upgraded capacity for waste water treatment	
S	Common result indicators (Annex 1)	Common result indicators
	RCR 41 - Population connected to improved public water	none
	 supply RCR 42 - Population connected to at least secondary 	
	public waste water treatment	

	Performance output indicators (Annex 2)	
	1 errormance output muicators (Annex 2)	
	CCO 10 - New or upgraded capacity for waste water treatment	
	Performance result indicators (Annex 2)	
	CCR 09 - Additional population connected to at least secondary waste water treatment	
	Common output indicators (Annex 1)	Common output indicators
	 RCO 18 - Dwellings with improved energy performance RCO 22 - Additional production capacity for renewable energy (of which: electricity, thermal) (3) RCO 59 - Alternative fuels infrastructure (refueling/recharging points) RCO 97 -Renewable energy communities supported 	none
	Common result indicators (Annex 1)	Common result indicators
SDG 7	RCR 26 - Annual primary energy consumption (of which: dwellings, public buildings, enterprises, other) (3) RCR 31 - Total renewable energy produced (of which: electricity, thermal) (3) RCR 32 - Additional operational capacity installed for renewable energy Performance output indicators (Annex 2)	none
	CCO 06 - Investments in measures to improve energy	
	performance CCO 07 - Additional production capacity for renewable energy	
	Performance result indicators (Annex 2)	
	CCR 06 - Additional renewable energy produced	
	Common output indicators (Annex 1)	Common output indicators
	RCO 61 - Surface of new or modernised facilities for employment services	ESF Annex 1/2 Output - Unemployed, including long-term unemployed participate in operations targeting people ESF Annex 1/2 Output - Long-term unemployed participate in operations targeting people ESF Annex 1/2 Output - Inactive participate in operations targeting people ESF Annex 1/2 Output - Employed, including self-employed participate in operations targeting people ESF Annex 1/2 Output-Young people between 18 and 29 years of age participate in operations targeting people
SDG 8	Common result indicators (Annex 1)	Common result indicators
SD	RCR 65 - Annual users of new or modernised facilities for employment services	ESF Annex 1 Result - Participants engaged in job searching upon leaving in operation
	Performance output indicators (Annex 2)	ESF Annex 1 Result - Participants gaining a qualification
	CCO 17 - Surface of new or modernised facilities for employment services	upon leaving the operation ESF Annex 1 Result - Participants in employment, including self-employment, upon leaving the operation
	Performance result indicators (Annex 2)	 ESF Annex 1 Result - Participants in employment, including self-employment, six months after leaving the
	CCR 16 - Annual users of new or modernised facilities for employment services	operation ESF Annex 1 Result - Participants with an improved labour market situation six months after leaving the operation ESF Annex 3 Result - Number of job placements under targeted mobility schemes
	Common output indicators (Annex 1)	Common output indicators
SDG 9	RCO 01 - Enterprises supported (of which: micro, small, medium, large) RCO 02 - Enterprises supported by grants	none
		,

- RCO 03 Enterprises supported by financial instruments
- RCO 05 New enterprises supported
- RCO 06 Researchers working in supported research facilities
- RCO 07 Research organisations participating in joint research projects
- RCO 08 Nominal value of research and innovation equipment
- RCO 13 Value of digital services, products and processes developed for enterprises
- RCO 15 Capacity of incubation created
- RCO 16 Participations of institutional stakeholders in entrepreneurial discovery process
- RCO 41 Additional dwellings with broadband access of very high capacity
- RCO 43 Length of new or upgraded roads TEN-T (5)
- RCO 44 Length of new or upgraded roads -non-TEN-T
- RCO 45 Length of roads reconstructed or modernised -TEN-T
- RCO 46 Length of roads reconstructed or modernised non-TEN-T
- RCO 47 Length of new or upgraded rail TEN-T
- RCO 48 Length of new or upgraded rail non-TEN-T
- RCO 49 Length of rail reconstructed or modernised -TEN-T
- RCO 50 Length of rail reconstructed or modernised non-TEN-T
- RCO 51 Length of new, upgraded or modernised inland waterways - TEN-T
- RCO 52 Length of new, upgraded or modernised inland waterways -non-TEN-T
- RCO 53 New or modernised railway stations and stops
- RCO 54 New or modernised intermodal connections
- RCO 57 Capacity of environmentally friendly rolling stock for collective public transport
- RCO 60 Cities and towns with new or modernised digitised urban transport systems
- RCO 96 Interregional investments for innovation in Union projects
- RCO 101 SMEs investing in skills for smart specialisation, for industrial transition and entrepreneurship
- RCO 103 High growth enterprises supported
- RCO 108 Length of roads with new or modernised traffic management systems - TEN-T
- RCO 109 Length of European Rail Traffic Management System equipped railways in operation TEN T
- RCO 110 Length of roads with new or modernised traffic management systems - non-TEN-T
- RCO 111 Length of European Rail Traffic Management System equipped railways in operation non-TEN-T

Common result indicators (Annex 1)

- RCR 06 Patent applications submitted
- RCR 17 New enterprises surviving in the market
- RCR 53 Dwellings with broadband subscriptions to a very high capacity network
- RCR 55 Annual users of newly built, reconstructed, upgraded or modernised roads
- RCR 56 Time savings due to improved road infrastructure
- RCR 58 Annual users of newly built, upgraded, reconstructed or modernised railways
- RCR 59 Freight transport on rail
- RCR 60 Freight transport on inland waterways
- RCR 63 Annual users of new or modernised tram and metro lines
- RCR 64 Annual users of dedicated cycling infrastructure

Common result indicators

none

- RCR 98 SMEs staff completing training for skills for smart specialisation, for industrial transition and entrepreneurship (by type of skill: technical, management, entrepreneurship, green, other)
- RCR 101 Time savings due to improved rail infrastructure
- RCR 102 Research jobs created in supported entities

Performance output indicators (Annex 2)

- CCO 01 Enterprises supported to innovate
- CCO 02 Researchers working in supported research facilities
- CCO 04 SMEs supported to enhance growth and competitiveness
- CCO 13 Additional dwellings and enterprises with broadband access of very high capacity
- CCO 14 Road TEN-T: New upgraded, reconstructed, or modernised roads
- CCO 15 Rail TEN-T: New, upgraded, reconstructed, or modernised railways
- CCO 22 Road non-TEN-T: New, upgraded, reconstructed, or modernised roads
- CCO 23 Rail non-TEN-T: New, upgraded, reconstructed, or modernised railways
- RCO 101 SMEs investing in skills for smart specialisation, for industrial transition and entrepreneurship

Performance result indicators (Annex 2)

- CCR 04 SMEs staff completing training for skills for smart specialisation, for industrial transition and entrepreneurshipCCR 12 - Additional dwellings and enterprises with broadband subscriptions to a very high capacity network
- CCR 13 Time savings due to improved road infrastructure
- CCR 14 Annual number of passengers served by improved rail transport
- CCR 15 Annual users served by new and modernised tram and metro lines

Common output indicators (Annex 1)

- RCO 20 District heating and cooling network lines newly constructed or improved
- RCO 24 Investments in new or upgraded disaster monitoring, preparedness, warning and response systems against natural disasters
- RCO 26 Green infrastructure built or upgraded for adaptation to climate change
- RCO 30 Length of new or upgraded pipes for the distribution systems of public water supply
- RCO 31 Length of new or upgraded pipes for the public network for collection of waste water
- RCO 32 New or upgraded capacity for waste water treatment
- RCO 34 Additional capacity for waste recycling
- RCO 36 Green infrastructure supported for other purposes than adaptation to climate change
- RCO 55 Length of new tram and metro lines
- RCO 56 Length of reconstructed or modernised tram and metro lines
- RCO 57 Capacity of environmentally friendly rolling stock for collective public transport
- RCO 74 Population covered by projects in the framework of strategies for integrated territorial development
- RCO 65 Capacity of new or modernised social housing
- RCO 75 Strategies for integrated territorial development supported
- RCO 76 Integrated projects for territorial development"

Common output indicators

 ESF Annex 1/2 Output - Number of supported micro, small and medium-sized enterprises (including cooperative enterprises and social enterprises).

DG 11

	RCO 77 - Number of cultural and tourism sites	
	supported	
	RCO 80 - Community-led local development strategies supported.	
	 supported RCO 112 - Stakeholders involved in the preparation and 	
	implementation of strategies for integrated territorial	
	development	
	RCO 114 - Open space created or rehabilitated in urban	
	RCO 122 - Investments in new or upgraded disaster	
	monitoring, preparedness, warning and response systems	
	against non-climate related natural risks and risks related	
	to human activities	
	Common result indicators (Annex 1)	Common result indicators
	RCR 41 - Population connected to improved public	none
	water supply	
	RCR 62 - Annual users of new or modernised public	
	transport	
	RCR 64 - Annual users of dedicated cycling infrastructure	
	RCR 67 - Annual users of new or modernised social	
	housing	
	RCR 95 - Population having access to new or improved	
	green infrastructure RCR 103 - Waste collected separately	
	Performance output indicators (Annex 2)	
	1 crioimance output indicators (Annex 2)	
	CCO 09 - Investments in new or upgraded disaster	
	monitoring, preparedness, warning and response systems	
	CCO 11 - New or upgraded capacity for waste recycling CCO 12 - Surface area of green infrastructure	
	CCO 21 - Population covered by strategies for integrated	
	territorial development	
	CCO24 - Culture and tourism sites supported	
	Performance result indicators (Annex 2)	
	CCR 08 - Additional population benefiting from	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled CCR 14 - Annual number of passengers served by improved rail transport CCR 15 - Annual users served by new and modernised	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled CCR 14 - Annual number of passengers served by improved rail transport CCR 15 - Annual users served by new and modernised tram and metro lines	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled CCR 14 - Annual number of passengers served by improved rail transport CCR 15 - Annual users served by new and modernised tram and metro lines CCO 19 - New or modernised capacity of social housing	
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DG 12	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled CCR 14 - Annual number of passengers served by improved rail transport CCR 15 - Annual users served by new and modernised tram and metro lines CCO 19 - New or modernised capacity of social housing facilities Common output indicators (Annex 1) RCO 34 - Additional capacity for waste recycling RCO 107 - Investments in facilities for separate waste collection RCO 119 - Waste prepared for re-use Common result indicators (Annex 1) RCR 47 - Waste recycled RCR 77 - Visitors of cultural and tourism sites supported RCR 103 - Waste collected separately	none Common result indicators
SDG 12	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled CCR 14 - Annual number of passengers served by improved rail transport CCR 15 - Annual users served by new and modernised tram and metro lines CCO 19 - New or modernised capacity of social housing facilities Common output indicators (Annex 1) RCO 34 - Additional capacity for waste recycling RCO 107 - Investments in facilities for separate waste collection RCO 119 - Waste prepared for re-use Common result indicators (Annex 1) RCR 47 - Waste recycled RCR 77 - Visitors of cultural and tourism sites supported	none Common result indicators
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SDG 12	 CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters CCR 10 - Additional waste recycled CCR 14 - Annual number of passengers served by improved rail transport CCR 15 - Annual users served by new and modernised tram and metro lines CCO 19 - New or modernised capacity of social housing facilities Common output indicators (Annex 1) RCO 34 - Additional capacity for waste recycling RCO 107 - Investments in facilities for separate waste collection RCO 119 - Waste prepared for re-use Common result indicators (Annex 1) RCR 47 - Waste recycled RCR 103 - Waste collected separately Performance output indicators (Annex 2) CCO 06 - Investments in measures to improve energy performance CCO 07 - Additional production capacity for renewable energy 	none Common result indicators
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	CCR 10 - Additional waste recycled	
	CCR 21 - Visitors of culture and tourism sites supported Common output indicators (Annex 1)	Common output indicators
	RCO 25 - Coastal strip, river bank and lakeshore flood protection newly built or consolidated RCO 28 - Area covered by protection measures against wildfires RCO 121 - Area covered by protection measures against climate related natural disasters (other than floods and wildfire)	none
	Common result indicators (Annex 1)	Common result indicators
SDG 13	RCR 29 - Estimated greenhouse gas emissions RCR 35 - Population benefiting from flood protection measures RCR 36 - Population benefiting from wildfire protection measures RCR 37 - Population benefiting from protection measures against climate related natural disasters (other than floods or wildfire)	none
	Performance output indicators (Annex 2)	
	CCO 09 - Investments in new or upgraded disaster monitoring, preparedness, warning and response systems	
	Performance result indicators (Annex 2)	
	CCR 08 - Additional population benefiting from protection measures against floods, wild fires, and other climate related natural disasters	
	Common output indicators (Annex 1)	Common output indicators
	RCO 37 - Surface of Natura 2000 sites covered by protection and restoration measures	none
15	Common result indicators (Annex 1)	Common result indicators
SDG 15	Performance output indicators (Annex 2)	none
	CCO 12 - Surface area of green infrastructure	
	Performance result indicators (Annex 2)	
	Common output indicators (Annex 1)	Common output indicators
	RCO 14 - Public institutions supported to develop digital services, products and processes	none
	RCO 41 - Additional dwellings with broadband access of very high capacity	
	Common result indicators (Annex 1)	Common result indicators
SDG 17	RCR 08 - Publications from supported projects RCR 11 - Users of new and upgraded public digital services, products and processes RCR 53 - Dwellings with broadband subscriptions to a very high capacity network RCR 71 - Annual users of new or modernised education facilities	none
	RCR 72 - Annual users of new or modernised e-health care services RCR 73 - Annual users of new or modernised health	
	RCR 73 - Annual users of new or modernised health care facilities	

Performance output indicators (Annex 2)

- CCO 18 New or modernised capacity for childcare and education facilities
- CCO 20 New or modernised capacity for health care facilities

Performance result indicators (Annex 2)

- CCR 01 Small and medium-sized enterprises (3) (SMEs) introducing product, process, marketing or organisational innovation
- CCR 02 Annual users of new or upgraded digital products, services and processes
- CCR 12 Additional dwellings and enterprises with broadband subscriptions to a very high capacity network



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