



EUROPEAN COMMISSION  
EUROSTAT

Directorate E: Sectoral and Regional Statistics  
Unit E-2: Environmental statistics and accounts; sustainable development

## **EU SDG Indicator set 2019**

**Result of the review in preparation of  
the 2019 edition of the EU SDG monitoring report**

*Final version of 08/01/2019*

## 1 Purpose of the document

The EU SDG indicator set, used to monitor progress towards the Sustainable Development Goals (SDGs) in an EU context, is open to annual reviews to incorporate indicators from new data sources and to take into account new EU policy priorities, including EU longer-term visions beyond 2020.

This paper describes the result of the review launched on 1 October 2018, in preparation of the 2019 edition of the EU SDG monitoring report (the “2019 review”). Annex 1 summarises the principles and selection criteria for EU SDG indicators. Annex 2 shows the characteristics of the 2019 EU SDG indicator set. Annex 3 gives an annotated overview of the modifications made to the 2018 EU SDG indicator set in order to arrive at the 2019 indicator set.

## 2 Background

In 2017, the Commission developed a reference indicator framework to monitor the SDGs in an EU context, as requested by the Communication COM(2016) 739 final "Next steps for a sustainable European future"<sup>1</sup>. The EU SDG indicator set serves as the basis for Eurostat’s annual monitoring report on progress towards the SDGs in an EU context (the “EU SDG monitoring report”). Data and metadata are available [online in Eurostat’s database](#).

The EU SDG indicator set is the result of a broad consultative process, which involved a large number and variety of stakeholders, including Commission services, Member States, Council Committees, users, NGOs, academia and international organisations. The initial EU SDG indicator set 2017 was agreed on 25 April 2017 by the Working Group on SDG-related reporting of the Commission Services, mandated by the Inter Service Steering Group on SDGs, and received the favourable opinion of the European Statistical System Committee (ESSC) on 18 May 2017.

The purpose of annual reviews of the indicator set is to provide for continuous policy relevance and to enhance the statistical quality of the indicator set. The reviews follow the following principles:

- The key features of the EU SDG indicator set should be preserved, i.e. structured along the 17 SDGs, limited to 6 indicators per SDG and including multi-purpose indicators (MPIs) which are used to monitor more than one goal.
- The indicator set consists of at most 6 indicators per goal in order to attach equal importance to all goals and to allow a balanced measuring of progress across the social, economic, environmental and institutional dimensions of sustainability.
- As a consequence, new indicators will only be added by removing indicators already included in the set within the same goal.

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<sup>1</sup> Available at: <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52016DC0739&from=EN> . The Communication is accompanied by the Staff Working Document "[Key European action supporting the 2030 Agenda and the Sustainable Development Goals](#)", which gives an overview of key European actions and policies in relation to the 17 SDGs.

- Replacements of indicators should only be considered if leading to an improved measurement of progress towards the SDGs in an EU context, i.e. potential new indicators must be fully developed (“ready to use”) and should be more policy relevant and/or of better statistical quality than their predecessors.
- New indicators must be compliant with the selection criteria on policy relevance, admissibility requirements and quality grading used to define the EU SDG indicator set (see annex 1).

These principles allow ensuring continuity of the EU SDG monitoring based on the most policy relevant and highest quality indicators available.

Eurostat published the 2018 EU SDG monitoring report on 18 September 2018. It is planned to advance the release of the 2019 monitoring report to June 2019, in time to inform the High Level Political Forum (HLPF). Therefore, the 2019 review of the EU SDG indicator set had to be completed by the end of 2018.

### **3 Process and outcome of the 2019 review**

On 1 October 2018, Eurostat launched a consultation of DGs, Member States and stakeholders of civil society (via the subgroup on monitoring of the Multi-stakeholder platform on SDGs) on the review of the EU SDG indicator set. Eurostat invited comments primarily on the 100 EU SDG indicators used in the 2018 monitoring report and on the 18 indicators that – as a result of the 2018 review - were put “on hold” for possible future consideration.

Eurostat received over 120 comments and a number of new indicator proposals by 31 October 2018. 12 of 30 invited Commission Services<sup>2</sup> and 11 Member States<sup>3</sup> gave input to the review, as well as 4 other stakeholders<sup>4</sup>. In November 2018, bilateral contacts between Eurostat and several DGs were organised, to clarify comments and agree on proposals, also in the light of the input received from other DGs and from Member States.

A pre-final draft of the 2019 EU SDG indicator set was presented at the 23 November 2018 meeting of the Working Group on SDG-related reporting of the Commission Services and DGs were invited to further comment on this pre-final draft by 30 November 2018.

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<sup>2</sup> Feedback received from AGRI, CLIMA, EAC, EEA, EMPL, ENV, GROW, JRC, MARE, MOVE, RTD and SANTE.

<sup>3</sup> Feedback received from Germany, Spain, France, Latvia, Malta, the Netherlands, Poland, Portugal, Sweden, Slovenia and Slovakia.

<sup>4</sup> Feedback received from the European Disability Forum, the European Youth Forum, Housing Europe and the Italian Alliance for Sustainable Development.

The received feedback<sup>5</sup> was in particular related to the following topics:

- Enhance the monitoring of SDG 9 and SDG 12 by including new indicators on “Air emission intensity” and “Value added/employment in environmental goods and services sector” (green economy). As no consensus was achieved for the inclusion of these indicators, they are kept on hold and further discussion between Eurostat and the involved DGs on the balance of indicators for SDG 9 and SDG 12 will be pursued in view of future monitoring.
- Increase the use of Copernicus based data in the EU SDG indicator set. Two indicators based on Copernicus data will be included in the 2019 set: new indicator on “Imperviousness change rate” and new version of the existing indicator on “Ocean acidity”. Further Copernicus based indicators will be considered in future reviews.

Furthermore, Eurostat carried out in depth data assessments for indicator proposals on “Population exposure to environmental noise”, “Air emission intensity” and “Topsoil organic content”. The later two indicator proposals will be kept on hold, while the coverage of the indicator on noise exposure was assessed as too limited, compared to the existing indicator in the current set.

A final draft of the 2019 EU SDG indicator set was circulated on 17 December 2018 for final editorial checking.

### **3.1 Proposed modifications of the EU SDG indicator set**

The outcome of the review can be summarised as follows:

- 2 new indicators are included, replacing an equal number of current indicators, assuming that final data will become available by 28 February 2019 at the latest<sup>6</sup>;
- 1 indicator is moved from the set to the “on hold” list, due to detected data problems;
- 1 indicator is proposed for adjustment;
- 18 indicator proposals are “on hold”, for possible future consideration<sup>7</sup>.

To be noted: three indicators are relatively weak with respect to the necessary quality requirements<sup>8</sup>, but were kept in the EU SDG indicator set as they have strong support from the Commission services and no alternative indicators are currently available. Particular effort is needed for these indicators to improve data availability (see also section 3.2).

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<sup>5</sup> Written comments on the pre-final draft were provided by CLIMA, ECFIN, ENV, GROW, MOVE, REGIO, RTD and SANTE

<sup>6</sup> Please note that if data do not become available in time and in the required quality, the change proposed cannot be implemented. Should this happen, the current indicator has to be kept and the new indicator put “on hold”.

<sup>7</sup> Compared to the 2018 EU SDG indicator set, indicators on land use respectively on imperviousness were moved to the indicator set and indicator proposal on forest (growing stock, increment and felling) was dropped from the on hold list. Two new proposals (‘Ecological status of surface waters’ and ‘Air emission intensity from industry’) were added to the on hold list and indicator on population covered by the Covenant of Mayors for Climate and Energy signatories was moved from the indicator set to the on hold list.

<sup>8</sup> Indicator sdg\_05\_10 “Physical and sexual violence to women experienced within 12 months prior to the interview” has only one data point; indicators sdg\_06\_20 “Population connected to at least secondary wastewater treatment” and sdg\_06\_60 “Water exploitation index” provide no EU aggregates.

### **3.2 Indicators on hold for further refinement of the EU SDG indicator set**

18 indicator proposals were identified as relevant for EU SDG monitoring but are not included in the 2019 EU SDG indicator set, in most cases because of limited data availability. These indicators are put “on hold” for future reviews of the indicator set.

Unfortunately, a number of potentially interesting indicators are based on data collected only every 6 years or even only in the context of a one-off exercise. Since the purpose of the EU SDG indicator set is to monitor progress towards the SDGs on a regular basis, we are dependent on a higher frequency of data collection (see Annex 1 for a full list of requirements). This issue mainly affects the environmentally oriented SDGs 6, 14 and 15.

Eurostat is willing to assist initiatives that advance the development of “on hold” indicators.

### **3.3 Alignment with UN SDG indicator list and with high-level scoreboards of EU policies**

The EU SDG indicator set is aligned as far as appropriate with the UN list of global indicators, noting that the UN indicators are selected for global level reporting and are therefore not always relevant for the EU. Further alignment with the UN SDG indicator list is desirable. However, it is only considered for those global indicators which are already available (i.e. tier 1 indicators) and as far as the replacement of a current EU SDG indicator would improve the measurement of progress towards the SDGs in an EU context. The 2019 review of the EU SDG indicator set does not affect the number of EU SDG indicators aligned with the UN list.

The EU SDG indicator set includes as much as possible also indicators from high-level scoreboards of EU policies: impact indicators for Strategic Plan 2016-2020 referring to the 10 Commission priorities; the headline indicators of the Europe 2020 strategy; indicators included in the Social Scoreboard for the European Pillar of Social Rights.

## **4 Implementing the 2019 EU SDG indicator set**

Only a small number of modifications are suggested for the 2019 review of the EU SDG indicator set in line with the accelerated schedule for the production of the 2019 monitoring report due to the 2019 HLPF. A larger revision of the set is expected to take place in time for consideration for the 2020 monitoring report, in line with similar plans at the UN level.

The revised EU SDG indicator set will be implemented on Eurostat’s website together with the release of the 2019 EU SDG monitoring report. At the same date, the indicators agreed for replacement will be removed from the EU SDG indicator set.

## **Annex 1: Principles and selection criteria for EU SDG indicators**

### **Key features of the EU SDG indicator set**

The following principles are applied to frame the EU SDG indicator set:

- (1) The EU SDG indicator set is structured along the 17 SDGs and is balanced among the social, economic, environmental and institutional dimensions of sustainability as represented by the Agenda 2030's text for each goal.
- (2) The EU SDG indicator set consists of maximum 6 indicators per goal to attach equal importance to all goals and to limit the indicator set to around 100 different indicators, which is widely recognised as an upper limit for effective and harmonised reporting by experts from National Statistical Offices, OECD, Eurostat and many others<sup>9</sup>.
- (3) The EU SDG indicator set includes multi-purpose indicators (MPIs) which are used to monitor more than one goal. As a result, each goal is monitored through 5 to 12 indicators in total with the current set.

In order to respect the key elements of the framework and preserve the balance among the four dimensions of sustainability, new indicators will only be added by removing indicators already included in the set within the same goal.

Each selected indicator must be policy relevant, meet the admissible requirements and reach a minimum quality level according to the criteria set out below.

### **Requirements on policy relevance**

To ensure policy relevance, indicators considered for the EU SDG indicator set should either

- a. be part of a high-level scoreboard of EU policies such as:
  - impact indicators for Strategic Plan 2016-2020 referring to the 10 Commission priorities
  - headline indicators of the Europe 2020 strategy
  - indicators included in the Social Scoreboard for the European Pillar of Social Rights

or

- b. designed to monitor a policy or initiative as reported in the staff working document "Key European action supporting the 2030 Agenda and the Sustainable Development" accompanying the communication on "Next steps for a sustainable European future".

Only for areas where no such indicators exist, other indicators are considered. All indicators should be aligned where appropriate with the UN list of global indicators.

Furthermore, policy relevance implies that all selected indicators allow an unambiguous interpretation of the desired direction of change as set out in the relevant EU policies and initiatives.

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<sup>9</sup> See [Informal Note on Expert Group Meeting on the Indicator Framework for the Post-2015 Development Agenda](#), UNHQ, New York, 25-26 February 2015.

## **Admissibility requirements**

In addition to the policy relevance, indicators to be considered for the EU SDG indicator set must be produced and disseminated in line with the principles stipulated in the [Code of Practice of European statistics](#). In particular, they must meet the following requirements:

- I. Readiness of statistical production: indicators must have at least one data point ready to use and published by their producer.
- II. Sustainability of statistical production: regular data production must be ensured, preferably by an official mandate and by adequate human (including quality of staff) and financial resources.
- III. Sound methodology and procedures: indicators and their underlying data must be produced according to a well-founded methodology and procedures.
- IV. Accessibility and transparency: data on indicators must be accessible online and information on their data sources, methods of computation, etc. must be publicly available.
- V. Compliance: indicators must comply with international or EU standards where such standards exist (agreed methodology, definitions, classifications, standards and recommendations).

It is assumed that indicators provided by data producer with a strong commitment to quality, i.e. official statistics or other well established institutions having a quality policy and procedures in place to monitor and report on product quality, will fulfil the above requirements.

The admissibility requirements could only be relaxed in cases where there is a genuine lack of indicators that meet these criteria. In these cases, users will be informed as appropriate about the limitations of the affected indicators.

## **Requirements on data quality**

To be considered for the EU SDG indicator set, indicators have to be classified at least at "low" level for each criterion as shown in the rating table below and have to attain a minimum average rating of 1.5 point. The average rating is calculated by dividing the total number of points by the number of applied criteria.

If a criterion does not apply to a proposed indicator, no weight is given for this criterion. In particular, this is the case for newly produced indicators for which only one data point is available yet and therefore the length of the time series and the comparability over time cannot be assessed.

If a criterion cannot be assessed due to a lack of information, the indicator is not considered for the EU SDG indicator set.

EUROSTAT QUALITY ASSESSMENT SYSTEM FOR EU SDG INDICATORS					
Quality concept	Rating			Only for selection purpose: not accepted (= 0 points)	Comments
	High (= 3 points)	Medium (= 2 points)	Low (= 1 point)		
Frequency of dissemination	Every year	Every 2 years	Every 3 years	More than 3 years or A-periodic or Not specified	Indicators based on models: applies to the statistical input data as the frequency of running the model is not decisive for rating.
Timeliness (T = reference year)	T+1 year	T+2 years	T+3 years	> T+3 years or Not specified	Indicators based on models: applies to the statistical input data as the time of running the model is not decisive for rating.
Reference area	All EU MS  Data for all EU MS and EU aggregate available	> 75 % EU MS and EU-aggregate  EU MS data represent at least 75% of EU total and EU aggregate available	50-75 % EU MS or no EU aggregate  EU MS data represent 50 - 75% of EU total or EU aggregate not available	< 50 % EU MS or Only EU aggregate  EU MS data represent less than 50% of EU total (and assumed that no EU aggregate available) or only EU aggregate but no EU MS data available	Rating based on coverage according to the most recent data points.  Data on EFTA & candidate countries are also desirable.  Rating does not apply to a limited number of indicators which do not refer to individual countries (e.g. "Ocean acidity").
Comparability - geographical	All EU MS  Data comparable between all EU MS	> 75 % EU MS  Data comparable between EU MS representing at least 75% of EU total	50-75 % EU MS  Data comparable between EU MS representing 50 to 75% of EU total	< 50 % EU MS  Data comparable between EU MS representing less than 50% of EU total	Rating based on comparability according to the most recent data points.  Rating does not apply to a limited number of indicators which do not refer to individual countries (e.g. "Ocean acidity").
Time coverage (in years)	> 10 years	5 to 10 years	< 5 years	---	Rating based on years between first data point and most recent data point presenting EU-aggregates.  Rating applies only to indicators with at least 2 data points.
Comparability - over time (number of data points)	> 4 data points	3 to 4 data points	< 3 data points	---	Rating based on number of data points from last methodological break.  Rating applies only to indicators with at least 2 data points.



## Annex 2: Main characteristics of the 2019 EU SDG indicator set

This table is based on the assumption that all required data will be available in time so that the modifications outlined in Annex 3 can be implemented in full.

			Selected indicators, of which			Indicators replaced	Indicators adjusted	Indicators on hold
	Total	MPIs	Annual frequency	Provider Eurostat	In UN list			
1 Poverty	6	+ 4	6	6	5			2
2 Agriculture & nutrition	6	+ 3	5	4	2			1
3 Health	6	+ 5	5	5	3			1
4 Education	6	+ 1	5	5	3			1
5 Gender equality	6	+ 3	5	3	4			
6 Water	6	+ 1	4	3	6			2
7 Energy	6	+ 1	6	6	2			
8 Economy & labour	6	+ 3	6	6	3			
9 Infrastructure & innovation	6	+ 1	6	5	5			1
10 Inequality	6	+ 3	6	6	2			
11 Cities	6	+ 4	5	4	4	1		2
12 Consumption & production	6	+ 3	4	5	3			3
13 Climate	5	+ 4	5		2		1	1
14 Oceans	5		5		4			2
15 Ecosystems	6	+ 4	3	1	3	1		2
16 Institutions	6	+ 1	6	3	3			
17 Global partnership	5		5	3	1			
<b>Total</b>	<b>99</b>	<b>+ 41</b>	<b>87</b>	<b>65</b>	<b>55</b>	<b>2</b>	<b>1</b>	<b>18</b>
Compared to 2018 version	- 1	- 1	- 1	- 1	+/-	---	---	+/-

The indicator set as presented in Eurostat's database includes breakdowns by gender, age groups, educational level, NUTS 2 region, degree of urbanisation, poverty status, disability and others as far as data are available.

## Annex 3: Modifications of the 2018 EU SDG indicator set to arrive at the 2019 indicator set

### *SDG 1 – Poverty*

No modification of indicators for 2019 EU SDG monitoring report.

Indicator proposals on hold:

- “Severe material deprivation rate (SMD)” to consider as replacement of sdg\_01\_30 “Severely materially deprived people” once Europe 2020 strategy has run out.
- “Extent of homelessness in the EU” as a topic to consider provided data collection based on agreed methodology and meeting minimum quality requirements can be developed.

### *SDG 2 – Agriculture & nutrition*

No modification of indicators for 2019 EU SDG monitoring report.

Indicator sdg\_15\_61 “Butterfly index” will no longer be used as a multipurpose indicator in SDG 2, in order to keep the balance between environmental and socio-economic aspects within SDG 2.

Indicator proposal on hold:

- “Harmonised risk indicator for pesticides”: Indicator development is well advanced but will only be ready in April or May 2019, i.e. too late for inclusion into the 2019 EU SDG monitoring report but in time for 2020 EU SDG monitoring report. The temporary use of the indicator “Sales of pesticides” in the 2019 EU SDG monitoring report is not considered appropriate regarding the constraint of continuity of monitoring and due to the limited significance of sales data regarding risks for environment and human health.

### *SDG 3 – Health*

No modification of indicators for 2019 EU SDG monitoring report.

Indicator proposal on hold:

- “Antimicrobial Resistance (AMR)”: According to feedback received, indicator development is not advanced enough for inclusion into the 2019 EU SDG MR.

### *SDG 4 - Education*

No modification of indicators for 2019 EU SDG monitoring report.

Indicator proposal on hold:

- **(moved)** “Individuals with basic or above basic overall digital skills”: Indicator to consider as replacement of one of the existing indicators in SDG 4 once Education and Training 2020 (ET 2020) framework has run out. This on-hold indicator was previously assigned to SDG 9.

### *SDG 5 – Gender equality*

No modification of indicators for 2019 EU SDG monitoring report.

### *SDG 6 – Water*

No modification of indicators for 2019 EU SDG monitoring report.

Indicator proposal on hold:

- “Water exploitation index, plus (WEI+)”: Indicator to consider as replacement of sdg\_06\_60 “Water exploitation index” once data on Member States and EU aggregate are available (currently, only aggregated data by river basins are available).

- **(new)** Composite indicator "Ecological status of surface waters" will be re-considered as potential replacement of sdg\_06\_30 "Biochemical oxygen demand in rivers" and sdg\_06\_50 "Phosphate in rivers" (which are both used as input for the indicator "Ecological status of surface waters" according to knowledge) provided frequency and timeliness of the indicator production can be improved.

#### *SDG 7 - Energy*

No modification of indicators for 2019 EU SDG monitoring report.

#### *SDG 8 – Economy & labour*

No modification of indicators for 2019 EU SDG monitoring report.

#### *SDG 9 – Infrastructure & innovation*

No modification of indicators for 2019 EU SDG monitoring report.

Indicator proposal on hold:

- **(new)** Indicator proposal "Air emission intensity from industry" is a potential candidate for inclusion in order to strengthen monitoring of "inclusive & sustainable industrialisation" under SDG 9; could also be used as multipurpose indicator under SDG 12 ("Decoupling environmental impacts from economic growth"). Put on hold as no agreement was achieved on data source to be used, on selection and aggregation of pollutants to be presented and on existing indicator under SDG 9 (or SDG 12) to be replaced.

#### *SDG 10 – Inequality*

No modification of indicators for 2019 EU SDG monitoring report.

#### *SDG 11 – Cities*

##### **New indicator:**

- "Settlement area per capita" (indicator is an modified version of former sdg\_15\_30 "Artificial area per capita" moved from SDG 15 to SDG 11) as replacement of indicator sdg\_11\_30 "Difficulty in accessing public transport" (only 2012 data point available, no suitable indicator expected in short-term).

Indicator proposal on hold:

- "Share of population with access to public transport by service level": No data at MS level or EU aggregate can be expected in short-term. As alternative, data such as consumer satisfaction with urban transport services (available every 2 years) coming from the Consumer Markets Scoreboard<sup>10</sup> might be further explored in view of future monitoring.
- "Share of urban population without green urban areas in their neighbourhood": Kept on hold for further consideration in future reviews. According to current knowledge, only a single data point 2012 related to cities is available and inclusion would require agreement on replacement of existing indicator under SDG 11.

#### *SDG 12 – Consumption & production*

No modification of indicators for 2019 EU SDG monitoring report.

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<sup>10</sup> [https://ec.europa.eu/info/publications/consumer-markets-scoreboard\\_en](https://ec.europa.eu/info/publications/consumer-markets-scoreboard_en)

Indicator proposals on hold:

- “Value added in environmental goods and services sector”: Kept on hold (also as potential multipurpose indicator for SDG 9) as no agreement was achieved on existing indicator under SDG 12 to be replaced.
- “Material footprint, material footprint per capita, and material footprint per GDP”: Only modelling estimates at EU-level are currently available.
- “Food waste”: Only modelling estimates at EU-level are currently available.

### *SDG 13 – Climate*

**Indicator removed from indicator set and moved to “on hold” list:**

- Indicator sdg\_13\_60 “Population covered by the Covenant of Mayors for Climate and Energy signatories” is put on hold due to detected data problems. However, topic will still be addressed in the narrative part of 2019 EU SDG monitoring report. Ways forward are to either resolve the issue or to find an alternative indicator on support to climate action.

### *SDG 14 – Oceans*

**New data source:**

- “Mean ocean acidity” (sdg\_14\_50): Copernicus-based data provided under the Marine Environment Monitoring Service of the European Earth Observation Programme will replace current data source provided data development will be achieved in time for drafting the 2019 EU SDG monitoring report and data will be published by EEA in time before release of the 2019 EU SDG monitoring report. To be noted that to allow trend assessment in 2019 monitoring report, smoothed time series eliminating short-term fluctuation will be used.

Indicator proposals on hold:

- “Marine protected areas in Europe (MAR 004)”: Indicator is considered as potential replacement of sdg\_14\_10 “Surface of marine sites designated under NATURA 2000” provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved (further investigation with support of DG ENV and EEA needed).
- “Nutrients in transitional, coastal and marine waters (MAR 005)”: Indicator is considered as potential enlargement of monitoring progress towards SDG 14 provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved. Alternatively, indicator such as “Environmental status of marine waters” might be considered (further investigation with support of DG ENV and EEA needed).

### *SDG 15 – Ecosystems*

**New Indicator:**

- “Imperviousness change rate” based on Copernicus HRL data as replacement of indicator sdg\_15\_30 “Artificial land cover (sdg\_15\_30 was modified to “Settlement area per capita” and moved to SDG 11 to become the new indicator sdg\_11\_31, while still being used as a multipurpose indicator for SDG 15).

Indicator proposals on hold:

- “Conservation status of species and habitats of European importance (SEBI 003 & SEBI 005)”: Indicator is considered as potential replacement of sdg\_15\_20 “Surface of terrestrial sites designated under NATURA 2000” provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved (further investigation

with support of DG ENV and EEA needed).

- “Topsoil organic carbon content”: Kept on hold as indicator development is not finalised and interpretation of observed trends based on available data not clear. Adjusted TOC levels are expected to vary greatly between MS due to natural conditions but to show no important change over time. Alternative indicators capturing sustainable cropland management (e.g. based on Copernicus HRL data capturing phenomenon such as crop rotation) might be considered.

Indicator proposals no longer on hold:

- “Forest: Growing stock, increment and felling”: Dropped from the on hold list as data are not suitable to be assessed against a clear target trend. The potential of other data sources such as Forest HRLs to address the topic of sustainable forest management under SDG 15 needs to be analysed in more detail for further SDG monitoring.
- Indicators on “Urban land use” and “Soil sealing”: Removed from the on hold list as obsolete since new indicators sdg\_15\_41 “Imperviousness change rate” and sdg\_11\_31 “Settlement area per capita” (used as a multipurpose indicator for SDG 15) will be included in EU SDG indicator set and will cover this aspect.

#### *SDG 16 – Institutions*

No modification of indicators for 2019 EU SDG monitoring report.

#### *SDG 17 – Global partnership*

No modification of indicators for 2019 EU SDG monitoring report.

## Annex 4: Review of EU SDG indicators for 2019 monitoring report

The Excel file provides for each indicator further details in particular on:

- alignment with the UN indicator list and high-level scoreboards of EU policies
- presented breakdowns on the dedicated section of Eurostat's website



2019-01-08\_EU  
SDG indicator set\_20

The Excel file is also available on Eurostat's sustainable development indicators website <http://ec.europa.eu/eurostat/web/sdi/overview>.

### Legend:

MPI = multipurpose indicator, i.e. indicates the goal(s) to which the indicator is also allocated for monitoring purpose.

Quality rating: Assessment and rating of data quality according to the agreed criteria. 3 = highest rating; minimum rating for selected indicators is 1.5 points.

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<b>Goal 1. End poverty in all its forms everywhere</b>						
01_10		People at risk of poverty or social exclusion	No modification. Differences by sex, by age group, by household type, by educational level, by disability status, by degree of urbanisation and by country of birth are addressed in the narrative or the monitoring report.	every year	3.00	Eurostat
01_20	mpi -> 10	People at risk of income poverty after social transfers	No modification.	every year	3.00	Eurostat
01_30		Severely materially deprived people	No modification.	every year	3.00	Eurostat
01_40		People living in households with very low work intensity	No modification.	every year	3.00	Eurostat
01_41	mpi -> 8	In work at-risk-of-poverty rate	No modification.	every year	3.00	Eurostat
01_60	mpi -> 11	Population living in a dwelling with a leaking roof, damp walls, floors or foundation or rot in window frames or floor	No modification.	every year	2.83	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
03_60	mpi -> 1	Self-reported unmet need for medical care	No modification.	every year	2.67	Eurostat
06_10	mpi -> 1	Population having neither a bath, nor a shower, nor indoor flushing toilet in their household	No modification.	every year	2.83	Eurostat
07_60	mpi -> 1	Population unable to keep home adequately warm	No modification.	every year	3.00	Eurostat
11_10	mpi -> 1	Overcrowding rate	No modification.	every year	3.00	Eurostat

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold		Material and social deprivation rate (MSD)	Indicator kept on hold as replacement of sdg_01_30 "Severely materially deprived people" once Europe 2020 strategy has run out.	every year	3.00	Eurostat
on hold		Extent of homelessness in the EU	Indicator kept on hold as thematic placeholder; however no initiative for indicator development identified so far.	not specified		
not retained; ex 01_50 (del)		Housing cost overburden rate	Suggested for (re-)inclusion but not retained. This indicator was replaced in 2018 review by new indicator sdg_01_41 "In work at-risk-of-poverty rate" to allow further alignment with the Social Scoreboard of the European pillar of Social Rights.	every year	3.00	Eurostat
<b>Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture</b>						
02_10	mpi -> 3	Obesity rate	No modification.	more than 3 years	2.00	Eurostat
02_20		Agricultural factor income per annual work unit (AWU)	No modification.	every year	3.00	DG AGRI
02_30		Government support to agricultural research and development	No modification.	every year	2.83	Eurostat
02_40		Area under organic farming	No modification.	every year	2.67	Eurostat
02_50		Gross nutrient balance on agricultural land	No modification.	every year	2.33	Eurostat
02_60		Ammonia emissions from agriculture	No modification.	every year	2.83	EEA
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
06_40	mpi -> 2; 15	Nitrate in groundwater	No modification.	every year	2.00	EEA
15_50	mpi -> 2	Estimated soil erosion by water	No modification.	a-periodic	1.83	JRC
15_60	mpi -> 2	Common bird index	No modification. To be noted that currently, no MS data are available.	every year	2.00	European Bird Census Council

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold	mpi -> 3; 15	Harmonised risk indicator for pesticides	Indicator development is well advanced but will only be ready in April or May 2019, i.e. too late for inclusion into the 2019 EU SDG MR but in time for 2020 EU SDG MR. Therefore kept on hold. The temporary use of alternative indicator "Sales of pesticides" in the 2019 EU SDG MR is not considered appropriate as published data on pesticide sales does not allow assessment at EU level, sales data are of limited significance regarding risks for environment and human health and temporary replacement would not be in line with the principle of continuity of monitoring.	not specified		Eurostat
<b>Goal 3. Ensure healthy lives and promote well-being for all at all ages</b>						
03_10		Life expectancy at birth	No modification.	every year	2.83	Eurostat
03_20		Share of people with good or very good perceived health	No modification.	every year	2.83	Eurostat
03_30		Smoking prevalence	No modification.	every 3 years	2.67	DG SANTE
03_40		Death rate due to chronic diseases		every year	2.67	Eurostat
03_41		Death rate due to tuberculosis, HIV and hepatitis	No modification.	every year	2.50	Eurostat
03_60	mpi -> 1	Self-reported unmet need for medical care	No modification.	every year	2.67	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
02_10	mpi -> 3	Obesity rate	No modification.	more than 3 years	2.00	Eurostat
08_60	mpi -> 3	People killed in accidents at work	No modification.	every year	2.67	Eurostat
11_20	mpi -> 3	Population living in households considering that they suffer from noise	No modification. Replacement by indicator "Exposure to environmental noise" (TERM 005) was considered but not retained after assessment of data provided for this indicator. However, data reported under Environmental Noise Directive (2002/49/EC) will be included in the narrative of the 2019 EU SDG MR (as in 2018 edition).	every year	3.00	Eurostat
11_40	mpi -> 3	People killed in road accidents	No modification.	every year	2.83	DG MOVE
11_50	mpi -> 3	Exposure to air pollution by particulate matter	No modification.	every year	2.33	EEA



Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold		Antimicrobial Resistance (AMR)	According to feedback received, indicator development is not enough advanced for inclusion into the 2019 EU SDG MR; kept on hold.	not specified		ECDC
not retained; ex 03_50 (del)		Suicide rate	Suggested for (re-)inclusion but not retained. This indicator was replaced in 2018 review by new indicator sdg_03_41 "Death rate due to tuberculosis, HIV and hepatitis " to increase policy relevance of SDG 3 monitoring in EU context.	every year	2.67	Eurostat
not retained		Consumed litres of pure alcohol per capita	Suggested for inclusion but not retained. To be noted that several proposals on substance abuse (tobacco, alcohol...) were made during development of indicator set in 2017. Indicator sdg_03_30 "Smoking prevalence" was selected as the most relevant health threat. Key figures on alcohol consumption are difficult to interpret as their significance as health determinants is complex.	not specified		
<b>Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</b>						
04_10	mpi -> 5	Early leavers from education and training	No modification.	every year	3.00	Eurostat
04_20	mpi -> 5	Tertiary educational attainment	No modification.	every year	3.00	Eurostat
04_30		Participation in early childhood education	No modification.	every year	2.83	Eurostat
04_40		Underachievement in reading, maths and science	No modification.	every 3 years	2.50	OECD
04_50	mpi -> 5	Employment rate of recent graduates	No modification.	every year	3.00	Eurostat
04_60		Adult participation in learning	No modification.	every year	2.83	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
08_20	mpi -> 4	Young people neither in employment nor in education and training	No modification.	every year	3.00	Eurostat
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold	mpi -> 4	Individuals with basic or above basic overall digital skills	Indicator to consider as replacement of one of the existing indicators in SDG 4 once Education and Training 2020 (ET 2020) framework has run out. Indicator on hold was previously assigned to SDG 9.	every year	2.5	Eurostat

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<b>Goal 5. Achieve gender equality and empower all women and girls</b>						
05_10	mpi -> 16	Physical and sexual violence to women experienced within 12 months prior to the interview	No modification, but alternative indicator on "Gender based violence" needs to be developed as current indicator is discontinued since 2012.	a-periodic	1.50	DG JUST; EU Agency for Fundamental Rights
05_20		Gender pay gap in unadjusted form	No modification.	every year	2.67	Eurostat
05_30		Gender employment gap	No modification.	every year	3.00	Eurostat
05_40	mpi -> 8	Inactive population due to caring responsibilities	No modification.	every year	3.00	Eurostat
05_50		Seats held by women in national parliaments and governments	No modification.	every year	3.00	EIGE
05_60		Positions held by women in senior management	No modification.	every year	3.00	EIGE
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
04_10	mpi -> 5	Early leavers from education and training	No modification.	every year	3.00	Eurostat
04_20	mpi -> 5	Tertiary educational attainment	No modification.	every year	3.00	Eurostat
04_50	mpi -> 5	Employment rate of recent graduates	No modification.	every year	3.00	Eurostat
<b>Goal 6. Ensure availability and sustainable management of water and sanitation for all</b>						
06_10	mpi -> 1	Population having neither a bath, nor a shower, nor indoor flushing toilet in their household	No modification.	every year	2.83	Eurostat
06_20	mpi -> 11	Population connected to at least secondary wastewater treatment	No modification.	every 2 years	2.17	Eurostat
06_30	mpi -> 15	Biochemical oxygen demand in rivers	No modification.	every year	1.83	EEA
06_40	mpi -> 2; 15	Nitrate in groundwater	No modification.	every year	2.00	EEA
06_50	mpi -> 15	Phosphate in rivers	No modification.	every year	2.00	EEA
06_60		Water exploitation index	No modification. Replacement by more advanced indicator WEI+ produced by EEA to be considered once data on Member States and EU aggregate are available.	every 2 years	2.17	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
14_40	mpi -> 6	Bathing sites with excellent water quality	No modification.	every year	2.50	EEA

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold		Water exploitation index, plus (WEI+)	Indicator to consider as replacement of sdg_06_60 "Water exploitation index" once data on Member States and EU aggregate are available (currently, only aggregated data by river basins are available).	not specified		EEA, data collected by Eurostat
on hold		Ecological status of surface waters	Indicator proposal put on hold to be re-considered as potential replacement of sdg_06_30 "Biochemical oxygen demand in rivers" and sdg_06_50 "Phosphate in rivers" (which both are part of a bundle of indicators used as input for indicator "Ecological status of surface waters") provided frequency and timeliness of the indicator can be improved.	more than 3 years		WISE - EEA
<b>Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all</b>						
07_10	mpi -> 12; 13	Primary & final energy consumption	No modification.	every year	2.83	Eurostat
07_20		Final energy consumption in households per capita	No modification.	every year	2.83	Eurostat
07_30	mpi -> 12	Energy productivity	No modification. Transformation to "Energy intensity" to consider once Europe 2020 strategy has run out.	every year	2.83	Eurostat
07_40	mpi -> 12; 13	Share of renewable energy in gross final energy consumption	No modification.	every year	2.83	Eurostat
07_50		Energy dependence	No modification.	every year	2.83	Eurostat
07_60	mpi -> 1	Population unable to keep home adequately warm	No modification.	every year	3.00	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
13_20	mpi -> 7	Greenhouse gas emissions intensity of energy consumption	No modification.	every year	2.83	EEA; Eurostat
<b>Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</b>						
08_10		Real GDP per capita	No modification.	every year	3.00	Eurostat
08_11		Investment share of GDP	No modification.	every year	3.00	Eurostat
08_20	mpi -> 4	Young people neither in employment nor in education and training	No modification.	every year	3.00	Eurostat
08_30		Employment rate	No modification.	every year	3.00	Eurostat
08_40		Long-term unemployment rate	No modification.	every year	3.00	Eurostat
08_60	mpi -> 3	People killed in accidents at work	No modification.	every year	2.67	Eurostat

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
01_41	mpi -> 8	In work at-risk-of-poverty rate	No modification.	every year	3.00	Eurostat
05_40	mpi -> 8	Inactive population due to caring responsibilities	No modification.	every year	3.00	Eurostat
12_20	mpi -> 8	Resource productivity and domestic material consumption (DMC)	No modification.	every year	3.00	Eurostat
<b>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</b>						
09_10		Gross domestic expenditure on R&D	No modification.	every year	2.83	Eurostat
09_20		Employment in high- and medium-high technology manufacturing and knowledge-intensive services	No modification. Potential candidate for improvement or replacement in order to strengthen monitoring of "promote inclusive & sustainable industrialisation" under SDG 9.	every year	2.83	Eurostat
09_30		R&D personnel	No modification. Potential candidate for improvement or replacement in order to strengthen monitoring of "promote inclusive & sustainable industrialisation" under SDG 9.	every year	2.83	Eurostat
09_40		Patent applications to the European Patent Office (EPO)	No modification.	every year	2.67	EPO
09_50	mpi -> 11	Share of busses and trains in total passenger transport	No modification.	every year	2.50	Eurostat
09_60		Share of rail and inland waterways activity in total freight transport	No modification.	every year	2.83	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
12_30	mpi -> 9; 13	Average CO2 emissions per km from new passenger cars	No modification. Movement to SDG 13 might be considered in future reviews provided data bug of existing indicator sdg_13_60 "Population covered by the Covenant of Mayors for Climate and Energy signatories" cannot be resolved and no alternative indicator on climate action support can be found.	every year	3.00	EEA
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold	mpi -> 12	Air emission intensity from industry	Potential candidate for inclusion in order to strengthen monitoring of "inclusive & sustainable industrialisation" under SDG 9; could also be used as mpi under SDG 12 ("Decoupling environmental impacts from economic growth"). Put on hold as currently no agreement was achieved on data source to be used, on selection and aggregation of pollutants to be presented and on existing indicator under SDG 9 to be replaced.	not specified		Eurostat   EEA

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
not retained		Households - level of internet access	Suggested for inclusion but not retained as current indicators on infrastructure under SDG 9 are considered as more relevant.	not specified		
<b>Goal 10. Reduce inequality within and among countries</b>						
10_10		Purchasing power adjusted GDP per capita	No modification.	every year	3.00	Eurostat
10_20		Adjusted gross disposable income of households per capita	No modification.	every year	2.83	Eurostat
10_30		Relative median at-risk-of-poverty gap	No modification.	every year	3.00	Eurostat
10_41		Income distribution	No modification.	every year	3.00	Eurostat
10_50		Income share of the bottom 40 % of the population	No modification.	every year	3.00	Eurostat
10_60		Asylum applications	No modification.	every year	2.67	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
01_20	mpi -> 10	People at risk of income poverty after social transfers	No modification.	every year	3.00	Eurostat
17_20	mpi -> 10	EU financing to developing countries	No modification.	every year	2.83	OECD (DAC)
17_30	mpi -> 10	EU imports from developing countries	No modification.	every year	3.00	Eurostat
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
not retained		Residents who acquired citizenship as a share of resident non-citizens	Suggested as replacement of sdg_10_60 "Asylum applications". Agreement on the need to explore alternative indicator for sdg_10_60 "Asylum applications". However, indicator proposal is similarly limited as sdg_10_60 "Asylum applications" in view of meaningful trend assessment.	not specified		
<b>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</b>						
11_10	mpi -> 1	Overcrowding rate	No modification.	every year	3.00	Eurostat
11_20	mpi -> 3	Population living in households considering that they suffer from noise	No modification. Replacement by indicator "Exposure to environmental noise" (TERM 005) was considered but not retained after assessment of data provided for this indicator. However, data reported under Environmental Noise Directive (2002/49/EC) will be included in the narrative of the 2019 EU SDG MR (as in 2018 edition).	every year	3.00	Eurostat

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
11_30 (del)		Difficulty in accessing public transport	Replaced by new indicator sdg_11_31 "Settlement area per capita" (former sdg_15_30 "Artificial area", moved from SDG 15 to SDG 11) as SILC based data collection on access to public transport is discontinued since 2012.	a-periodic	1.50	Eurostat
11_31 (new)	mpi -> 15	Settlement area per capita	New indicator replacing sdg_11_30 "Difficulty in accessing public transport". Indicator is a modified version of former sdg_15_30 "Artificial area per capita" moved from SDG 15 to SDG 11). Indicator captures land take for settlement purposes such as buildings, industrial and commercial areas, infrastructure etc. (including green urban areas). It will be used as multipurpose indicator for SDG 15 to supplement new indicator on imperviousness change rate.	every 3 years	2.17	Eurostat
11_40	mpi -> 3	People killed in road accidents	No modification.	every year	2.83	DG MOVE
11_50	mpi -> 3	Exposure to air pollution by particulate matter	No modification.	every year	2.33	EEA
11_60		Recycling rate of municipal waste	No modification.	every year	2.83	Eurostat

*Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal*

01_60	mpi -> 11	Population living in a dwelling with a leaking roof, damp walls, floors or foundation or rot in window frames or floor	No modification.	every year	2.83	Eurostat
06_20	mpi -> 11	Population connected to at least secondary wastewater treatment	No modification.	every 2 years	2.17	Eurostat
09_50	mpi -> 11	Share of busses and trains in total passenger transport	No modification.	every year	2.50	Eurostat
16_20	mpi -> 11	Population reporting occurrence of crime, violence or vandalism in their area	No modification.	every year	2.83	Eurostat

*Indicators put on hold or not retained for the EU SDG indicator set 2019*

on hold		Share of population with access to public transport by service level	No data at MS level or EU aggregate can be expected in short-term. As alternative, data such as consumer satisfaction with urban transport services (available every 2 years) coming from the Consumer Markets Scoreboard <sup>11</sup> might be further explored in view of future monitoring.	not specified		DG REGIO
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<sup>11</sup> [https://ec.europa.eu/info/publications/consumer-markets-scoreboard\\_en](https://ec.europa.eu/info/publications/consumer-markets-scoreboard_en)

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
on hold		Share of urban population without green urban areas in their neighbourhood	Kept on hold for further consideration in future reviews. According to current knowledge, only a single data point 2012 related to cities is available and inclusion would require agreement on replacement of existing indicator under SDG 11.	not specified		DG REGIO
not retained		Population exposure to environmental noise (TERM 005)	Indicator proposal re-considered as replacement of sdg_11_20 "Population living in households considering that they suffer from noise". However, data provided on 26 Nov 2018 have a narrow scope on road noise and population within urban areas, provide no socio-economic breakdowns, have a higher reliance on data imputations and will be available only every 5 years. As conclusion, quality of EU SDG monitoring for SDG 11 and SDG 3 would suffer from such a replacement.	more than 3 years	1.83	EEA
not retained		Generation of municipal waste per capita	Suggested for inclusion in order to observe the efficiency of waste management. Not retained as current indicator sdg_11_60 "Recycling rate of municipal waste" is evaluated in terms of efficiency of waste management. Generation of waste is addressed by indicator sdg_12_50 "Generation of waste excluding major mineral wastes" under SDG 12.	every year	2.67	Eurostat
not retained		Percentage of the population with low or very low overall satisfaction with the dwelling	Suggested for inclusion but not retained. Indicators on key elements of housing quality (sdg_01_60 "Population living in a dwelling with a leaking roof, damp walls, floors or foundation or rot in window frames or floor" and sdg_11_10 "Overcrowding rate") are already included in the set. However, the (subjective) satisfaction with the dwelling might be included in the narrative part of the EU SDG monitoring report.	not specified		

### Goal 12. Ensure sustainable consumption and production patterns

12_10		Consumption of hazardous and non-hazardous chemicals	No modification. Name of indicator adjusted to fit better to (unchanged) definition of content.	every year	2.40	Eurostat
12_20	mpi -> 8	Resource productivity and domestic material consumption (DMC)	No modification.	every year	3.00	Eurostat
12_30	mpi -> 9; 13	Average CO2 emissions per km from new passenger cars	No modification. Movement to SDG 13 might be considered in future reviews provided data bug of existing indicator sdg_13_60 "Population covered by the Covenant of Mayors for Climate and Energy signatories" cannot be resolved and no alternative indicator on climate action support can be found.	every year	3.00	EEA
12_41		Circular material use rate	No modification.	every year	2.83	Eurostat

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
12_50		Generation of waste excluding major mineral wastes	No modification.	every 2 years	2.67	Eurostat
12_60		Recycling rate of waste excluding major mineral wastes	No modification.	every 2 years	2.33	Eurostat
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
07_10	mpi -> 12; 13	Primary & final energy consumption	No modification.	every year	2.83	Eurostat
07_30	mpi -> 12	Energy productivity	No modification. Transformation to "Energy intensity" to consider once Europe 2020 strategy has run out.	every year	2.83	Eurostat
07_40	mpi -> 12; 13	Share of renewable energy in gross final energy consumption	No modification.	every year	2.83	Eurostat
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold	mpi -> 9	Value added in environmental goods and services sector	Kept on hold (also as potential multipurpose indicator for SDG 9) as no agreement was achieved on existing indicator under SDG 12 to be replaced.	every year	2.50	Eurostat
on hold	mpi -> 2	Food waste	Kept on hold as only modelling estimates at EU-level are currently available.	not specified		Eurostat
on hold		Material footprint, material footprint per capita, and material footprint per GDP	Kept on hold as only modelling estimates at EU-level are currently available.	not specified		Eurostat
<b>Goal 13. Take urgent action to combat climate change and its impacts</b>						
13_10		Greenhouse gas emissions	No modification.	every year	2.83	EEA
13_20	mpi -> 7	Greenhouse gas emissions intensity of energy consumption	No modification.	every year	2.83	EEA; Eurostat
13_30		Mean near surface temperature deviation	In order to apply the CAGR formula in line with the evaluation of other EU SDG indicators, data will be presented as smoothed time-series based on 30-year moving averages instead of annual figures. The 30 year-moving-averages are chosen according to the World Meteorological Organisation (WMO) definition which considers a period of at least 30 years as appropriate to smoothen the short-term climate variability due to natural factors.	every year	3.00	EEA



Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
13_40		Climate-related economic losses	In order to apply the CAGR formula in line with the evaluation of other EU SDG indicators, data will be presented as smoothed time-series based on 30-year moving averages instead of annual figures (provided an agreement to supply the relevant source data can be achieved between EEA and Munich Re.). The 30 year-moving-averages are chosen according to the World Meteorological Organisation (WMO) definition which considers a period of at least 30 years as appropriate to smoothen the short-term climate variability due to natural factors.	every year	2.20	EEA
13_50		Contribution to the international 100bn USD commitment on climate related expending	No modification.	every year	2.17	DG CLIMA; EIONet

*Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal*

07_10	mpi -> 12; 13	Primary & final energy consumption	No modification.	every year	2.83	Eurostat
07_40	mpi -> 12; 13	Share of renewable energy in gross final energy consumption	No modification.	every year	2.83	Eurostat
12_30	mpi -> 9; 13	Average CO2 emissions per km from new passenger cars	No modification. Movement to SDG 13 might be considered in future reviews provided data bug of existing indicator sdg_13_60 "Population covered by the Covenant of Mayors for Climate and Energy signatories" cannot be resolved and no alternative indicator on climate action support can be found.	every year	3.00	EEA
14_50	mpi -> 13	Mean ocean acidity	Copernicus-based data provided under the Marine Environment Monitoring Service of the European Earth Observation Programme will replace current data source provided data development will be achieved in time for drafting the 2019 EU SDG MR and data will be published by EEA in time before release of the 2019 EU SDG MR. To be noted that to allow trend assessment in 2019 EU SDG MR, smoothed time series eliminating short-term fluctuation will be used.	every year	2.50	EEA / The Laboratory for Microbial Oceanography (Hawaii); CMIP; Copernicus

*Indicators put on hold or not retained for the EU SDG indicator set 2019*

on hold (13_60)		Population covered by the Covenant of Mayors for Climate and Energy signatories	Temporarily put on hold due to detected data problems. However, topic will still be addressed in the narrative part of 2019 EU SDG MR. Ways forward are to either resolve the issue or to find an alternative indicator on support to climate action.	every year	2.40	CoMO
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Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<b>Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development</b>						
14_10		Surface of marine sites designated under NATURA 2000	No modification.	every year	2.50	DG ENV
14_21		Estimated trends in fish stock biomass	No modification.	every year	2.75	JRC (STECF)
14_30		Assessed fish stocks exceeding fishing mortality at maximum sustainable yield (Fmsy)	No modification.	every year	2.75	JRC (STECF)
14_40	mpi -> 6	Bathing sites with excellent water quality	No modification.	every year	2.50	EEA
14_50	mpi -> 13	Mean ocean acidity	Copernicus-based data provided under the Marine Environment Monitoring Service of the European Earth Observation Programme will replace current data source provided data development will be achieved in time for drafting the 2019 EU SDG MR and data will be published by EEA in time before release of the 2019 EU SDG MR. To be noted that to allow trend assessment in 2019 EU SDG MR, smoothed time series eliminating short-term fluctuation will be used.	every year	2.50	EEA / The Laboratory for Microbial Oceanography (Hawaii); CMIP; Copernicus
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
on hold		Marine protected areas in Europe (MAR 004)	Kept on hold as potential replacement of sdg_14_10 "Surface of marine sites designated under NATURA 2000" provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved (further investigation with support of DG ENV and EEA needed).	not specified		EEA; DG ENV
on hold		Nutrients in transitional, coastal and marine waters (MAR 005)	Kept on hold. Indicator is consider as potential enlargement of monitoring progress towards SDG 14 provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved. Alternatively, indicator such as "Environmental status of marine waters" might be considered (further investigation with support of DG ENV and EEA needed).	not specified		DG ENV/ESTAT /EEA
<b>Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</b>						
15_10		Share of forest area	No modification. To be noted that significance of indicator for assessing sustainable forest management is limited. The potential of other data sources such as Forest HRLs to address the topic of sustainable forest management under SDG 15 needs to be analysed in more detail for further SDG monitoring.	every 3 years	2.17	Eurostat

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
15_20		Surface of terrestrial sites designated under NATURA 2000	No modification.	every year	2.50	EEA / DG ENV
15_30 (del)	mpi -> 44	Artificial land cover	Modified to new indicator sdg_11_31 "Settlement area per capita" and moved to SDG 11.	every 3 years	2.17	Eurostat
15_41 (new)		Imperviousness change rate	New indicator replacing sdg_15_30 "Artificial land cover" (sdg_15_30 was modified to "Settlement area per capita" and moved to SDG 11 to become the new indicator sdg_11_31, while still being used as a multipurpose indicator for SDG 15). Indicator is based on Copernicus HRL data and captures the loss of biologically productive land due to soil sealing/imperviousness (excluding green urban areas).	every 3 years	2.00	EEA
15_50	mpi -> 2	Estimated soil erosion by water	No modification.	a-periodic	1.83	JRC
15_60	mpi -> 2	Common bird index	No modification. To be noted that currently, no MS data are available.	every year	2.00	European Bird Census Council
15_61		Grassland butterfly index	No modification. To be noted that currently, no MS data are available.	every year	2.00	EEA (Butterfly Conservation Europe)

*Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal*

06_30	mpi -> 15	Biochemical oxygen demand in rivers	No modification.	every year	1.83	EEA
06_40	mpi -> 2; 15	Nitrate in groundwater	No modification.	every year	2.00	EEA
06_50	mpi -> 15	Phosphate in rivers	No modification.	every year	2.00	EEA
11_31 (new)	mpi -> 15	Settlement area per capita	New indicator replacing sdg_11_30 "Difficulty in accessing public transport". Indicator is a modified version of former sdg_15_30 "Artificial area per capita" moved from SDG 15 to SDG 11). Indicator captures land take for settlement purposes such as buildings, industrial and commercial areas, infrastructure etc. (including green urban areas). It will be used as multipurpose indicator for SDG 15 to supplement new indicator on imperviousness change rate.	every 3 years	2.17	Eurostat

*Indicators put on hold or not retained for the EU SDG indicator set 2019*

on hold		Conservation status of species and habitats of European importance (SEBI 003 & SEBI 005)	Kept on hold as potential replacement of sdg_15_20 "Surface of terrestrial sites designated under NATURA 2000" provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved (further investigation with support of DG ENV and EEA needed).	not specified		EEA
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Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
on hold	mpi -> 2	Topsoil organic carbon content	Kept on hold as indicator development is not finalised and interpretation of observed trends based on available data not clear. Adjusted TOC levels are expected to vary greatly between MS due to natural conditions but to show no important change over time. Alternative indicators capturing sustainable cropland management (e.g. based on Copernicus HRL data capturing phenomenon such as crop rotation) might be considered.	not specified		JRC
not retained		Forest: growing stock, increment and fellings (SEBI 017)	Dropped from the on hold list as data are not suitable to be assessed against a clear target trend. The potential of other data sources such as Forest HRLs to address the topic of sustainable forest management under SDG 15 needs to be analysed in more detail for further SDG monitoring.	not specified		EEA
not retained	mpi -> 11	Land take (LSI 001/CSI 014) or Land cover change (SEBI 004)	Removed from the on hold list as obsolete since new indicators sgd_15_41 "Imperviousness change rate" and sgd_11_31 "Settlement area per capita" (used as a multipurpose indicator for SDG 15) will be included in EU SDG indicator set and will cover this aspect.	not specified		EEA
<b>Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels</b>						
16_10		Death rate due to homicide	No modification.	every year	2.67	Eurostat
16_20	mpi -> 11	Population reporting occurrence of crime, violence or vandalism in their area	No modification.	every year	2.83	Eurostat
16_30		General government total expenditure on law courts	No modification.	every year	2.67	Eurostat
16_40		Perceived independence of the justice system	No modification.	every year	2.33	DG COMM
16_50		Corruption Perceptions Index	No modification.	every year	2.83	Transparency International
16_60		Population with confidence in EU institutions	No modification.	every year	3.00	DG COMM
<i>Multipurpose indicators: Supplementary indicators of other goals which complement the monitoring of this goal</i>						
05_10	mpi -> 16	Physical and sexual violence to women experienced within 12 months prior to the interview	No modification, but alternative indicator on "Gender based violence" needs to be developed as current indicator is discontinued since 2012.	a-periodic	1.50	DG JUST; EU Agency for Fundamental Rights

Code	MPI	Indicator name	Evaluation outcome	Frequency of data collection	Quality rating (3 = high)	Data provider
<i>Indicators put on hold or not retained for the EU SDG indicator set 2019</i>						
not retained		Prisoners in pre trial as a percentage of total prisoners	Suggested for inclusion as replacement of sdg_16_30 "General government total expenditure on law courts" but not retained as preference is given to existing indicator due to its policy relevance in EU context.	not specified		
not retained		Individuals obtaining information from public authorities web sites (last 12 months)	Suggested for inclusion but not retained as preference is given to existing indicators under SDG 16 regarding the limited policy relevance of the proposed indicator in an EU context.	not specified		
<b>Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development</b>						
17_10		Official development assistance as share of gross national income	No modification.	every year	3.00	OECD (DAC)
17_20	mpi -> 10	EU financing to developing countries	No modification.	every year	2.83	OECD (DAC)
17_30	mpi -> 10	EU imports from developing countries	No modification.	every year	3.00	Eurostat
17_40		General government gross debt	No modification.	every year	3.00	Eurostat
17_50		Shares of environmental and labour taxes in total tax revenues	No modification.	every year	2.83	Eurostat

## Annex 5: List of indicators as used for 2019 monitoring report

### Legend:

MPI = multipurpose indicator, i.e. indicates the goal(s) to which the indicator is also allocated for monitoring purpose.

Code	MPI	Indicator name	Unit(s)	Frequency of data collection	Data source	Data provider
<b>Goal 1. End poverty in all its forms everywhere</b>						
01_10		People at risk of poverty or social exclusion	% of population and thousand persons	every year	ESS (SILC)	Eurostat
01_20	mpi -> 10	People at risk of income poverty after social transfers	% of population and thousand persons	every year	ESS (SILC)	Eurostat
01_30		Severely materially deprived people	% of population and thousand persons	every year	ESS (SILC)	Eurostat
01_40		People living in households with very low work intensity	% of population aged less than 60 and thousand persons	every year	ESS (SILC)	Eurostat
01_41	mpi -> 8	In work at-risk-of-poverty rate	% of employed persons aged 18 or over	every year	ESS (SILC)	Eurostat
01_60	mpi -> 11	Population living in a dwelling with a leaking roof, damp walls, floors or foundation or rot in window frames or floor	% of population i. total ii. below 60% of median equivalised income iii. above 60% of median equivalised income	every year	ESS (SILC)	Eurostat
<b>Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture</b>						
02_10	mpi -> 3	Obesity rate	% of population aged 18 or over i. overweight (BMI>25) ii. pre-obese (BMI 25-30) iii. obese (BMI>30)	more than 3 years	ESS (EHIS)	Eurostat
02_20		Agricultural factor income per annual work unit (AWU)	Chain linked volumes (2010) in EUR and index 2010 = 100	every year	ESS (EAA)	DG AGRI
02_30		Government support to agricultural research and development	million EUR and EUR per capita (current prices)	every year	ESS (GBAORD)	Eurostat
02_40		Area under organic farming	% of total utilised agricultural area (UAA)	every year	ESS	Eurostat
02_50		Gross nutrient balance on agricultural land	kg per hectare i. nitrogen ii. phosphorous	every year	ESS	Eurostat
02_60		Ammonia emissions from agriculture	tonnes and kg per hectare utilised agricultural area (UAA)	every year	Reporting under National Emission Ceilings Directive (NECD) and Convention on Long-range Transboundary Air Pollution (CLRTAP)	EEA

<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
<b>Goal 3. Ensure healthy lives and promote well-being for all at all ages</b>						
03_10		Life expectancy at birth	years i. total ii. males iii. females	every year	ESS	Eurostat
03_20		Share of people with good or very good perceived health	% of population aged 16 or over i. total ii. males iii. females	every year	ESS (SILC)	Eurostat
03_30		Smoking prevalence	% of population aged 15 or over i. total ii. males iii. females	every 3 years	Eurobarometer	DG SANTE
03_40		Death rate due to chronic diseases	number per 100 000 persons aged less than 65 i. total ii. males iii. females	every year	ESS	Eurostat
03_41		Death rate due to tuberculosis, HIV and hepatitis	number per 100 000 persons i. total ii. males iii. females	every year	ESS	Eurostat
03_60	mpi -> 1	Self-reported unmet need for medical care	% of population aged 16 and over i. total ii. males iii. females	every year	ESS (SILC)	Eurostat
<b>Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</b>						
04_10	mpi -> 5	Early leavers from education and training	% of population aged 18 to 24 i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
04_20	mpi -> 5	Tertiary educational attainment	% of population aged 30 to 34 i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
04_30		Participation in early childhood education	% of children between 4-years-old and the starting age of compulsory education i. total ii. males iii. females	every year	ESS	Eurostat
04_40		Underachievement in reading, maths and science	% of 15-year-old students i. reading ii. maths iii. science	every 3 years	PISA	OECD

<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
04_50	mpi -> 5	Employment rate of recent graduates	% of population aged 20 to 34 with at least upper secondary education i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
04_60		Adult participation in learning	% of population aged 25 to 64 i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
<b>Goal 5. Achieve gender equality and empower all women and girls</b>						
05_10	mpi -> 16	Physical and sexual violence to women experienced within 12 months prior to the interview	% of women i. age 15-74 ii. age 18-29 iii. age 30-39 iv. age 40-49 v. age 50-59 vi. age 60+	a-periodic		DG JUST; EU Agency for Fundamental Rights
05_20		Gender pay gap in unadjusted form	% of average gross hourly earnings of men	every year	ESS (SES)	Eurostat
05_30		Gender employment gap	Percentage points	every year	ESS (LFS)	Eurostat
05_40	mpi -> 8	Inactive population due to caring responsibilities	% of inactive population aged 20 to 64 i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
05_50		Seats held by women in national parliaments and governments	% of seats i. national parliaments ii. national governments	every year	The Gender Statistics Database (GSD)	EIGE
05_60		Positions held by women in senior management	% of positions i. board members ii. executives	every year	The Gender Statistics Database (GSD)	EIGE
<b>Goal 6. Ensure availability and sustainable management of water and sanitation for all</b>						
06_10	mpi -> 1	Population having neither a bath, nor a shower, nor indoor flushing toilet in their household	% of population i. total ii. below 60% of median equivalised income iii. above 60% of median equivalised income	every year	ESS (SILC)	Eurostat
06_20	mpi -> 11	Population connected to at least secondary wastewater treatment	% of population	every 2 years	ESS (OECD/ESTAT joint questionnaire)	Eurostat
06_30	mpi -> 15	Biochemical oxygen demand in rivers	mg O2 per litre	every year	WISE-4 Waterbase	EEA
06_40	mpi -> 2; 15	Nitrate in groundwater	mg NO3 per litre	every year	WISE-4 Waterbase	EEA
06_50	mpi -> 15	Phosphate in rivers	mg PO4 per litre	every year	WISE-4 Waterbase	EEA



<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
06_60		Water exploitation index	% of long term average available water (LTAA) i. total ii. fresh surface water iii. fresh groundwater	every 2 years	OECD/ESTAT joint questionnaire	Eurostat
<b>Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all</b>						
07_10	mpi -> 12; 13	Primary & final energy consumption	million tonnes of oil equivalent and index 2005 = 100	every year	ESS	Eurostat
07_20		Final energy consumption in households per capita	kg of oil equivalent	every year	ESS	Eurostat
07_30	mpi -> 12	Energy productivity	Chain linked volumes (2010) in EUR and PPS per kg of oil equivalent	every year	ESS	Eurostat
07_40	mpi -> 12; 13	Share of renewable energy in gross final energy consumption	% i. all sectors ii. transport iii. electricity iv. heating and cooling	every year	ESS (SHARES)	Eurostat
07_50		Energy dependence	% of imports in total energy consumption i. all products ii. solid fuels iii. total petroleum products iv. gas	every year	ESS	Eurostat
07_60	mpi -> 1	Population unable to keep home adequately warm	% of population i. total ii. below 60% of median equivalised income iii. above 60% of median equivalised income	every year	ESS (SILC)	Eurostat
<b>Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</b>						
08_10		Real GDP per capita	Chain linked volumes (2010) in EUR and % change on previous year	every year	ESS (National accounts)	Eurostat
08_11		Investment share of GDP	% of GDP i. Total investment ii. Business investment iii. Government investment iv. Households investments	every year	ESS	Eurostat
08_20	mpi -> 4	Young people neither in employment nor in education and training	% of population aged 15 to 29 i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
08_30		Employment rate	% of population aged 20 to 64 i. total ii. males iii. females	every year	ESS (LFS)	Eurostat

<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
08_40		Long-term unemployment rate	% of active population i. total ii. males iii. females	every year	ESS (LFS)	Eurostat
08_60	mpi -> 3	People killed in accidents at work	number per 100 000 employees	every year	ESS (ESAW)	Eurostat
<b>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</b>						
09_10		Gross domestic expenditure on R&D	% of GDP i. total ii. business enterprise sector iii. government sector iv. higher education sector v. private non-profit sector	every year	ESS	Eurostat
09_20		Employment in high- and medium-high technology manufacturing and knowledge-intensive services	% of total employment i. total ii. high and medium high-technology manufacturing iii. knowledge-intensive services	every year	ESS	Eurostat
09_30		R&D personnel	% of active population i. total ii. business enterprise sector iii. government sector iv. higher education sector v. private non-profit sector	every year	OECD/ESTAT joint questionnaire	Eurostat
09_40		Patent applications to the European Patent Office (EPO)	total number and number per million inhabitants	every year	PATSTAT	EPO
09_50	mpi -> 11	Share of busses and trains in total passenger transport	% of total inland passenger-kilometres i. all collective transport modes ii. trains iii. motor coaches, buses and trolley busses	every year	ESS	Eurostat
09_60		Share of rail and inland waterways activity in total freight transport	% of total inland tonne-kilometres i. all railways and inland waterways ii. railways iii. inland waterways	every year	ESS	Eurostat
<b>Goal 10. Reduce inequality within and among countries</b>						
10_10		Purchasing power adjusted GDP per capita	PPS (current prices), index EU28 = 100 and coefficient of variation	every year	ESS	Eurostat

Code	MPI	Indicator name	Unit(s)	Frequency of data collection	Data source	Data provider
10_20		Adjusted gross disposable income of households per capita	PPS (current prices), index EU28 = 100 and coefficient of variation	every year	ESS	Eurostat
10_30		Relative median at-risk-of-poverty gap	% distance to poverty threshold	every year	ESS (SILC)	Eurostat
10_41		Income distribution	Quintile share ratio	every year	ESS (SILC)	Eurostat
10_50		Income share of the bottom 40 % of the population	% of income	every year	ESS (SILC)	Eurostat
10_60		Asylum applications	number per million inhabitants i. first time application ii. positive first instance decision	every year	ESS	Eurostat
<b>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</b>						
11_10	mpi -> 1	Overcrowding rate	% of population i. total ii. below 60% of median equivalised income iii. above 60% of median equivalised income	every year	ESS (SILC)	Eurostat
11_20	mpi -> 3	Population living in households considering that they suffer from noise	% of population i. total ii. below 60% of median equivalised income iii. above 60% of median equivalised income	every year	ESS (SILC)	Eurostat
11_31 (new)	mpi -> 15	Settlement area per capita	square meters per inhabitants	every 3 years	ESS (LUCAS)	Eurostat
11_40	mpi -> 3	People killed in road accidents	persons and number per 100 000 persons	every year	CARE database	DG MOVE
11_50	mpi -> 3	Exposure to air pollution by particulate matter	µg/m <sup>3</sup> i. particulates <2.5µm ii. particulates <10µm	every year	AirBase - The European air quality database	EEA
11_60		Recycling rate of municipal waste	% of total waste generated	every year	ESS	Eurostat
<b>Goal 12. Ensure sustainable consumption and production patterns</b>						
12_10		Consumption of hazardous and non-hazardous chemicals	million tonnes i. hazardous and non-hazardous - total ii. hazardous to health iii. hazardous to environment	every year	ESS (PRODCOM; COMEXT)	Eurostat
12_20	mpi -> 8	Resource productivity and domestic material consumption (DMC)	EUR (chain linked volumes, 2010) per kg DMC; index 2000 = 100; PPS per kg DMC and thousand tonnes DMC	every year	ESS	Eurostat
12_30	mpi -> 9; 13	Average CO2 emissions per km from new passenger cars	g CO2 per km	every year	Reporting under Regulation (EC) No 443/2009	EEA
12_41		Circular material use rate	% of total material use	every year	ESS	Eurostat

<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
12_50		Generation of waste excluding major mineral wastes	kg per capita i. hazardous and non-hazardous - total ii. hazardous iii. non-hazardous	every 2 years	ESS	Eurostat
12_60		Recycling rate of waste excluding major mineral wastes	% of total waste recycled	every 2 years	ESS	Eurostat
<b>Goal 13. Take urgent action to combat climate change and its impacts</b>						
13_10		Greenhouse gas emissions	index 1990 = 100 and tonnes of CO2 equivalent per capita	every year	UNFCCC reporting	EEA
13_20	mpi -> 7	Greenhouse gas emissions intensity of energy consumption	index 2000 = 100	every year	UNFCCC reporting and EU Greenhouse Gas Monitoring Mechanism	EEA; Eurostat
13_30		Mean near surface temperature deviation	Degree Celsius i. HadCRUT4 ii. GISSTEMP iii. NOAA Global Temp	every year	Met Office HC; NASA-GISS; NOAA-NCEI	EEA
13_40		Climate-related economic losses	million EUR (current values) i. all events ii. meteorological events iii. hydrological events iv. climatological events v. cumulative losses in EUR per capita (current values)	every year	Munich Re	EEA
13_50		Contribution to the international 100bn USD commitment on climate related expending	million EUR (current prices)	every year	Monitoring Mecanism Regulation (MMR) 525/2013	DG CLIMA; EIONet
<b>Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development</b>						
14_10		Surface of marine sites designated under NATURA 2000	km2	every year	ETC/BD	DG ENV
14_21		Estimated trends in fish stock biomass	i. Number of fish stocks assessed ii. index 2003 = 100	every year		JRC (STECF)
14_30		Assessed fish stocks exceeding fishing mortality at maximum sustainable yield (Fmsy)	i. Number of assessed fish stocks ii. Number of overfished fish stocks iii. % of overfished fish stocks iv. Model based mean value of all assessments	every year		JRC (STECF)
14_40	mpi -> 6	Bathing sites with excellent water quality	Number and % of bathing sites i. seawater ii. freshwater	every year	EEA	EEA

<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
14_50	mpi -> 13	Mean ocean acidity	pH value i. measured ii. calculated	every year	Station ALOHA Surface Ocean Carbon Dioxide  Copernicus Marine Service from 2018	EEA / The Laboratory for Microbial Oceanography (Hawaii); CMIP; Copernicus
<b>Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</b>						
15_10		Share of forest area	% of total land area i. all forest area FAO ii. forest FAO iii. other wooded land FAO	every 3 years	ESS (LUCAS)	Eurostat
15_20		Surface of terrestrial sites designated under NATURA 2000	km2	every year	ETC/BD	EEA / DG ENV
15_41 (new)		Imperviousness change rate	ha, %	every 3 years	Copernicus HRL	EEA
15_50	mpi -> 2	Estimated soil erosion by water	km2 and % of the non-artificial erosive area	a-periodic	Soil erosion database	JRC
15_60	mpi -> 2	Common bird index	index 2000 = 100 and index 1990=100 i. all common species ii. common farmland species iii. common forest species	every year	PECBMS	European Bird Census Council
15_61		Grassland butterfly index	index 2000 = 100 and index 1990 = 100	every year	BMS (Butterfly Monitoring Scheme)	EEA (Butterfly Conservation Europe)
<b>Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels</b>						
16_10		Death rate due to homicide	number per 100 000 persons i. total ii. males iii. females	every year	ESS	Eurostat
16_20	mpi -> 11	Population reporting occurrence of crime, violence or vandalism in their area	% of population i. total ii. below 60% of median equivalised income iii. above 60% of median equivalised income	every year	ESS (SILC)	Eurostat
16_30		General government total expenditure on law courts	million EUR and EUR per capita (current prices)	every year	ESS	Eurostat
16_40		Perceived independence of the justice system	% of population i. very good or fairly good ii. very good iii. fairly good iv. very bad or fairly bad v. very bad vi. fairly bad vii. unknown	every year	Eurobarometer	DG COMM

<i>Code</i>	<i>MPI</i>	<i>Indicator name</i>	<i>Unit(s)</i>	<i>Frequency of data collection</i>	<i>Data source</i>	<i>Data provider</i>
16_50		Corruption Perceptions Index	Score scale of 0 (highly corrupt) to 100 (very clean)	every year		Transparency International
16_60		Population with confidence in EU institutions	% of population i. European Parliament ii. European Commission iii. European Central Bank	every year	Eurobarometer	DG COMM
<b>Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development</b>						
17_10		Official development assistance as share of gross national income	% of GNI (at current prices)	every year	OECD database	OECD (DAC)
17_20	mpi -> 10	EU financing to developing countries	million EUR (current prices) i. total ii. official development assistance iii. grants by NGOs iii. private flows iv. other official flows v. officially supported export credits	every year	OECD database	OECD (DAC)
17_30	mpi -> 10	EU imports from developing countries	million EUR (current prices) i. DAC countries ii. least developed countries iii. lower middle income countries iv. other low income countries v. upper middle income countries excl. China vi. China (excl. Hong Kong)	every year	ESS	Eurostat
17_40		General government gross debt	% of GDP and million EUR (current prices)	every year	ESS	Eurostat
17_50		Shares of environmental and labour taxes in total tax revenues	% (current prices) i. environmental taxes ii. labour taxes	every year	ESS	Eurostat

## Annex 6: Indicator proposals put “on hold” for future EU SDG monitoring

The indicator proposals listed below were identified as relevant for EU SDG monitoring but are not included in the 2019 EU SDG indicator set, in most cases because of limited data availability.

Eurostat is willing to assist initiatives that advance the development of “on hold” indicators in view of future EU SDG monitoring.

<i>Code</i>	<i>Indicator name</i>	<i>Evaluation outcome</i>
<b>Goal 1. End poverty in all its forms everywhere</b>		
on hold	Material and social deprivation rate (MSD)	Indicator kept on hold as replacement of sdg_01_30 “Severely materially deprived people” once Europe 2020 strategy has run out.
on hold	Extent of homelessness in the EU	Indicator kept on hold as thematic placeholder; however no initiative for indicator development identified so far.
<b>Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture</b>		
on hold	Harmonised risk indicator for pesticides	Indicator development is well advanced but will only be ready in April or May 2019, i.e. too late for inclusion into the 2019 EU SDG MR but in time for 2020 EU SDG MR. Therefore kept on hold. The temporary use of alternative indicator "Sales of pesticides" in the 2019 EU SDG MR is not considered appropriate as published data on pesticide sales does not allow assessment at EU level, sales data are of limited significance regarding risks for environment and human health and temporary replacement would not be in line with the principle of continuity of monitoring.
<b>Goal 3. Ensure healthy lives and promote well-being for all at all ages</b>		
on hold	Antimicrobial Resistance (AMR)	According to feedback received, indicator development is not enough advanced for inclusion into the 2019 EU SDG MR; kept on hold.
<b>Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</b>		
on hold	Individuals with basic or above basic overall digital skills	Indicator to consider as replacement of one of the existing indicators in SDG 4 once Education and Training 2020 (ET 2020) framework has run out. Indicator on hold was previously assigned to SDG 9.
<b>Goal 5. Achieve gender equality and empower all women and girls</b>		
<b>Goal 6. Ensure availability and sustainable management of water and sanitation for all</b>		
on hold	Water exploitation index, plus (WEI+)	Indicator to consider as replacement of sdg_06_60 “Water exploitation index” once data on Member States and EU aggregate are available (currently, only aggregated data by river basins are available).
on hold	Ecological status of surface waters	Indicator proposal put on hold to be re-considered as potential replacement of sdg_06_30 “Biochemical oxygen demand in rivers” and sdg_06_50 “Phosphate in rivers” (which both are part of a bundle of indicators used as input for indicator “Ecological status of surface waters”) provided frequency and timeliness of the indicator can be improved.
<b>Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all</b>		
<b>Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all</b>		

Code	Indicator name	Evaluation outcome
<b>Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</b>		
on hold	Air emission intensity from industry	Potential candidate for inclusion in order to strengthen monitoring of "inclusive & sustainable industrialisation" under SDG 9; could also be used as mpi under SDG 12 ("Decoupling environmental impacts from economic growth"). Put on hold as currently no agreement was achieved on data source to be used, on selection and aggregation of pollutants to be presented and on existing indicator under SDG 9 to be replaced.
<b>Goal 10. Reduce inequality within and among countries</b>		
<b>Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable</b>		
on hold	Share of population with access to public transport by service level	No data at MS level or EU aggregate can be expected in short-term. As alternative, data such as consumer satisfaction with urban transport services (available every 2 years) coming from the Consumer Markets Scoreboard ( <a href="https://ec.europa.eu/info/publications/consumer-markets-scoreboard_en">https://ec.europa.eu/info/publications/consumer-markets-scoreboard_en</a> ) might be further explored in view of future monitoring.
on hold	Share of urban population without green urban areas in their neighbourhood	Kept on hold for further consideration in future reviews. According to current knowledge, only a single data point 2012 related to cities is available and inclusion would require agreement on replacement of existing indicator under SDG 11.
<b>Goal 12. Ensure sustainable consumption and production patterns</b>		
on hold	Value added in environmental goods and services sector	Kept on hold (also as potential multipurpose indicator for SDG 9) as no agreement was achieved on existing indicator under SDG 12 to be replaced.
on hold	Food waste	Kept on hold as only modelling estimates at EU-level are currently available.
on hold	Material footprint, material footprint per capita, and material footprint per GDP	Kept on hold as only modelling estimates at EU-level are currently available.
<b>Goal 13. Take urgent action to combat climate change and its impacts</b>		
on hold (13_60)	Population covered by the Covenant of Mayors for Climate and Energy signatories	Temporarily put on hold due to detected data problems. However, topic will still be addressed in the narrative part of 2019 EU SDG MR. Ways forward are to either resolve the issue or to find an alternative indicator on support to climate action.
<b>Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development</b>		
on hold	Marine protected areas in Europe (MAR 004)	Kept on hold as potential replacement of sgd_14_10 "Surface of marine sites designated under NATURA 2000" provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved (further investigation with support of DG ENV and EEA needed).
on hold	Nutrients in transitional, coastal and marine waters (MAR 005)	Kept on hold. Indicator is consider as potential enlargement of monitoring progress towards SDG 14 provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved. Alternatively, indicator such as "Environmental status of marine waters" might be considered (further investigation with support of DG ENV and EEA needed).
<b>Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</b>		
on hold	Conservation status of species and habitats of European importance (SEBI 003 & SEBI 005)	Kept on hold as potential replacement of sgd_15_20 "Surface of terrestrial sites designated under NATURA 2000" provided data meets minimum quality requirements and frequency and timeliness of the indicator production can be improved (further investigation with support of DG ENV and EEA needed).



<i>Code</i>	<i>Indicator name</i>	<i>Evaluation outcome</i>
on hold	Topsoil organic carbon content	Kept on hold as indicator development is not finalised and interpretation of observed trends based on available data not clear. Adjusted TOC levels are expected to vary greatly between MS due to natural conditions but to show no important change over time. Alternative indicators capturing sustainable cropland management (e.g. based on Copernicus HRL data capturing phenomenon such as crop rotation) might be considered.
<b>Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels</b>		
<b>Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development</b>		