

**Fourth Meeting of the Expert Group on
Environment Statistics
Prague, 3-5 May 2017**

Final Report

1. The Fourth Meeting of the Expert Group on Environment Statistics (EGES), organized by the United Nations Statistics Division (UNSD), was held in Prague from 3 to 5 May 2017.

2. The meeting was attended by 36 experts from Belize, Botswana, Brazil, Chile, Czech Republic, Finland, Hungary, India, Indonesia, Jamaica, Kenya, Mexico, Philippines, Suriname, Sweden, Tanzania, Zimbabwe, the United Nations Economic Commission for Europe (UN-ECE), the European Environment Agency (EEA), the United Nations Economic Commission for Latin America and the Caribbean (UN-ECLAC), the Statistical Office of the European Union (EUROSTAT), the Food and Agriculture Organization of the United Nations (FAO), the United Nations Economic Commission for Africa (UN-ECA), the United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP), the United Nations Economic and Social Commission for Western Asia (UN-ESCWA), the United Nations Environment Programme (UNEP), the United Nations University (UNU), the United Nations Framework Convention on Climate Change (UNFCCC) and Charles University.

3. Ms. Iva Ritschelova, Chair of the EGES, opened the meeting. Ms. Nancy Chin, UNSD spoke about the background and objectives of the meeting and reported on the status of the ongoing methodological work in support of the implementation of the Framework for the Development of Environment Statistics (FDES 2013). She thanked all experts who contributed to the work and emphasized the continued need for these contributions to implement the work programme and produce the expected output of the EGES.

4. The meeting was organized in four sessions as follows:

- Session 1: Environment Statistics Toolbox
- Session 2: Environment Statistics Data Collection and Surveys
- Session 3: Other Work in Environment Statistics
- Session 4: Other Issues

5. The discussions were based on documents and the corresponding presentations prepared by EGES members and UNSD.

6. The main conclusions of the meeting are summarized in the following paragraphs 8-48. A table detailing agreed responsibilities and timeline for manual chapters is attached as Annex A. The agenda of the meeting is attached as Annex B, and the list of participants is attached as Annex C.

7. The Expert Group expressed its appreciation to UNSD and to all experts who contributed to the work completed since the First Meeting of the EGES in March 2014 with respect to the drafting and review of the methodology sheets for the Manual on the Basic Set of Environment Statistics, the development and the finalization of the Environment Statistics Self-Assessment Tool (ESSAT), the submissions of environment statistics surveys and censuses, and other work in environment statistics.

I. Conclusions with regard to Session 1: Environment Statistics Toolbox

8. Draft chapters on Land Cover and Land Use Statistics, Forest Statistics, Air Quality Statistics, Environmental Protection Expenditure Statistics and Generation and Management of Waste Statistics were presented. This was followed by presentations of the ESSAT reporting template by Nancy Chin, UNSD and a country experience in completing the ESSAT and use of the reporting template, presented by Ruth Minja, Tanzania. There was extensive discussion of the Manual on the Basic Set of Environment Statistics and its draft chapters, which took place in five groups, and of the ESSAT reporting template.

A. Specific conclusions on new draft chapters

A.1. Draft chapter on Land Cover and Land Use Statistics (presented by Nancy Chin, UNSD)

9. In general, further clarification is to be made on the distinction between land use and land cover, and between issues relevant to the concepts and those relevant to the production of land use/land cover products. The concept of land cover/land use change is to be mentioned, emphasizing gross and net change. Discussion was held on sources for definitions and the appropriate relevance of various sources within FAO. The section on classifications should make reference to national classifications and discuss the mapping of national to international classifications, as well as the linkages between the land use classifications of the System of Environmental-Economic Accounting (SEEA), the World Census of Agriculture (WCA) and the Land Cover Classification System (LCCS). Additional sources for Section 5: Data collection and sources of data were suggested, which could include national and regional sources where the dataset produced by those sources is global. A distinction should be made between official statistics, other statistics from government or international agencies, and products from other sources. It was suggested to include in Section 5B: SDG indicators, indicators 9.1.1 Proportion of the rural population who live within 2 km of an all-season road, 15.2.1 Progress towards sustainable forest management, 15.3.1 Proportion of land that is degraded over total land area and 15.4.2 Mountain Green Cover Index.

10. The need to emphasize the potential of geospatial data was stressed, particularly for production of land use/land cover products.

11. UNSD will revise the chapter according to the comments.

A.2. Draft chapter on Forest Statistics (presented by Rayen Quiroga, UN-ECLAC)

12. In the chapter, links should be made between related components of biodiversity and land use/land cover. Definitions should be updated to take account of the guidance for the Forest Resources Assessment (FRA) 2020 once available, and where the terminology differs from the Basic Set of Environment Statistics a remark should be included indicating the FRA terminology. Similarly where other international definitions are used which differ from the FRA, these should be indicated in the remarks. Section 5 should be restructured into two parts with part one covering Topic 1.2.3 Forests and 2.3.2 Use of Forest Land; and part two covering 2.5.1 Timber Resources. Sub-categories of forest area should align with the FRA which covers natural forest, semi-natural forest and forest plantations, and not natural and planted forest.

13. UNSD will revise the document according to the comments and circulate to FAO.

A.3. Draft chapter on Air Quality Statistics (presented by Alvaro Shee, Chile)

14. The manual is being refocused and will be circulated at a later date. The restructuring will include a logical ordering of the general definitions, including a greater distinction between greenhouse (GHG) emissions and pollutants (air quality), the difference between GHG concentrations and emissions, and an explanation of air quality at various levels of disaggregation and scales. The chapter will make the link to the Intergovernmental Panel on Climate Change (IPCC) concepts for air quality. The SDG indicator 3.9.1 Mortality rate attributed to household and ambient air pollution will be included in the list of SDG indicators applicable to this chapter.

15. Chile will continue work on the draft chapter before submission to UNSD.

A.4. Draft chapter on Environmental Protection Expenditures Statistics (presented by Francisco Jiménez Nava, Mexico)

16. The definitions should be in line with System of National Accounts (SNA) and SEEA, in order to enable comparison with other expenditures. It was noted that expenditure on environmental protection and resource management can be significant, and in some cases the share of expenditure can be highest from the private sector.

17. UNSD will take forward the editing of the chapter and will circulate for further comments.

A.5. Draft chapter on Generation and Management of Waste Statistics (presented by Nancy Chin, UNSD)

18. Regarding the definitions it is important to mention the issues of geographical level, re-use and breakdown by waste categories in waste statistics. The Eurostat Regulations have been updated and the chapter should reflect the latest regulation numbers. The issue of informal sector waste collection and treatment should be included as a concept. Examples for the concepts and definitions were offered by: Michael Nagy, UN-ECE a figure on typologies of waste; Anna-Karin Nystrom, Sweden on Sweden's five step figure of waste by treatment type and Kees Baldé, UNU on real waste flows. Suggestion was made to use a decision tree if necessary to define waste. In Section 5: Data collection and sources of data, it was suggested to include administrative data as it is one of the main sources for waste statistics, but this should be flexible, as the systems of collection would vary according to country circumstances, so there is not one best method. It was mentioned that annual reporting is the most common and in many cases the only feasible periodicity. In Section 6B: SESA accounts and tables, the differences between the SESA approach to waste and the environment statistics approach should be explained, as this can differ, for example in treatment of imports and landfilling. Michael Nagy, UN-ECE has offered to contribute to section 6B. It was noted that the chapter would be completed, and any future revisions to the chapter would consider the findings of the UN-ECE Task Force on Waste Statistics with regard to frameworks and definitions for waste. During group work on this chapter there was a comment on how to improve the definition of waste. There was mention that the diagram that helps identify what is waste could be added. In the European Union *Communication from the Commission* includes the diagram which should be used for the Manual (Annex, p.13).

19. UNSD will take forward editing of the chapter, soliciting inputs as above.

20. The work programme for completion of the chapters was presented, see Annex 1.

B. Conclusions on the Reporting Template of the Environment Statistics Self-Assessment Tool (ESSAT)

21. The draft reporting template of the ESSAT was presented by UNSD, followed by a presentation of a country experience of Tanzania in application of the ESSAT, presented by Ruth Minja, Tanzania. The presentation covered the conceptualization of environment statistics in Tanzania, the institutional framework for environmental management, national efforts in promoting environment statistics, the work conducted to implement the FDES 2013, the results of the data gap analysis, the application of the ESSAT and lessons learned.

22. The discussions highlighted that some aspects of ESSAT such as type of data source were difficult to obtain. The complete ESSAT was conducted in Tanzania by selecting from the Basic Set of Environment Statistics, the Core Set and selecting Tier 1, Tier 2 or Tier 3 statistics. Comments from the experts suggested adjusting the reporting template to

link to the national planning process and to show the results of the ESSAT as an action oriented process linking the priorities for development of environment statistics to the causal chain of activities in the planning process.

23. The importance for stakeholder groups to include both users and producers was mentioned, as in the case of Kenya's Environment Statistics Committee, in order to better prioritize statistics and enable users to gauge the feasibility of their requests for statistics. Also mentioned was the importance of using the ESSAT process to build support with high level users and to link to the SDG process. Other comments highlighted the usefulness of presenting the Basic Set of Statistics of the ESSAT by institution producing the statistic (e.g., by Ministry) to facilitate coordination of the ESSAT by the National Statistical Office (NSO).

24. UNSD will take forward the revision of the ESSAT Reporting Template.

II. Conclusions with regard to Session 2: Environment Statistics Data Collection and Surveys

25. This session was sub-divided into three topics: (i) environmentally-related SDG indicators; (ii) environment statistics data collection and dissemination; and (iii) environment statistics surveys.

26. On the first topic, Miloslava Vesela, Czech Republic, presented on the Czech Statistical Office's experience in the monitoring of the SDG indicators. Tomas Hak of Charles University presented on cooperation between academia and statisticians on the national implementation of the SDGs, and Anna-Karin Nystrom, Sweden presented on the role of statistical offices in the compilation of the SDG indicators in Sweden.

27. On the second topic, environment statistics data collection and dissemination, Marcus Newbury, UNSD presented on the UNSD/UNEP Questionnaire on Environment Statistics and on selected SDG indicators related to this Questionnaire; on pilot testing of the UNSD/UN Environment Questionnaire on Environment Statistics; and on the inventory of regular, international environmental data collection, reporting and dissemination from countries. Karin Blumenthal, Eurostat presented on the Eurostat Questionnaire. Jillian Campbell, UNEP presented on water quality and ecosystems and Kees Baldé, UNU presented on e-waste statistics.

28. On the third topic, environment statistics surveys, Marcus Newbury, UNSD presented on the compilation of environmentally-related questions in censuses and surveys, and specialized environment surveys which can be found on the UNSD website. Mary Wanyonyi, Kenya presented on the use of the environmental data obtained from household surveys in Kenya.

29. Group work on the topic of environment statistics surveys and censuses took place with five discussion groups, followed by reporting to the plenary.

Environment Statistics Data Collection and Dissemination

30. Regarding the first topic, environmentally-related SDG indicators, presenters and discussants mentioned the multiple levels (national, regional and global) of data collecting and reporting, and different perspectives were shared regarding SDG indicator measurement. Mention was made of the usefulness of measuring distance to targets, and utilising correlations observed in analysis of SDG indicators to better inform estimates. Also mentioned was the importance of involving multiple stakeholders in addition to the NSOs, and of the need to validate data quality when the data source was an external institution. Several experts mentioned the importance of ensuring a shared responsibility and close coordination between the NSOs and other stakeholders. An example of such coordination was the use of a technical working group with participants from multiple countries at a sub-regional level. Such a group had helped identify priority indicators for countries to focus upon.

31. With respect to capacity building efforts for environmentally-related SDG indicators, comment was made that the measurement of SDG indicators is often a starting point in capacity building exercises, after which a country can be encouraged to then use the FDES and SEEA. In so doing, the country can advance and further develop robust environment statistics as relevant to SDG indicators but also to its own national policies. Efforts of this nature invariably involve line ministries working with NSOs to resolve data flow problems, but for such a capacity building effort to be initiated, it is much preferred for a country to make a request detailing their needs.

32. Regarding the second topic, environment statistics data collection and dissemination, experts commented on the natural variation in water quality due to local phenomena when measuring water quality at individual monitoring locations, and due to measuring stations' heights above sea level. It was commented that when collecting and reporting data on water quality statisticians should be mindful of this.

33. The lack of official statistics for electronic waste (e-waste) was raised and also the need for reporting on the informal sector. Estimation methodologies for e-waste data were discussed and mention was made of the use of the UN Comtrade database. It was further described that regional commonalities across Europe have informed estimates, and it was acknowledged that methodology for estimates had been tested more in Europe than in the rest of the world.

34. With respect to an inventory of regular, international environmental data collection, reporting and dissemination from countries, several experts expressed appreciation and support for the advancement of this initiative. Benefits of such an inventory are that countries' respondent burden can be reduced, and that there can be more harmonisation of standards, classifications and concepts which can lead to better data comparability across countries and better informed policy decisions. Experts expressed the usefulness for a similar inventory at national level to be produced by countries who wish to take such initiative forward. This would identify statistical responsibilities of each producing

entity within the country to facilitate coordination and communication with the large number of stakeholders involved in production of environment statistics.

35. Upon the question being raised by UNSD, experts expressed support for the addition of the following items to the inventory: focal point, institution's data, methodological guidance used for data collection, data validation process, assessment of data quality, and data collection and reporting. UNSD intends to approach the relevant agencies in the inventory for such data items later in 2017.

36. Regarding the third topic, environment statistics surveys, experts expressed support for the initiative and provided good feedback on the future direction of this work, and provided good comment to the written questions shared by UNSD.

37. It was observed that the range of environment statistics may be too vast to start with surveys and censuses on all possible environmental themes at once. In addition, topics related to the environment such as agriculture, biodiversity or hazardous waste is under other agencies' mandates, in this case respectively FAO, UNEP or the Basel Convention. Several experts supported focusing the censuses and surveys on the UNSD website toward the themes of waste and water.

38. Some experts proposed the idea to include accompanying text to the list of censuses and surveys detailing how different agencies in addition to an NSO play a role in a system for data collection, compilation and dissemination of environment statistics.

39. It was also suggested to include additional supporting documentation on the census and survey, such as field reports detailing problems encountered during a data collection exercise, quality reports and analytical reports, etc. It was also suggested to focus on topics known to be difficult for data collection such as water quality, agricultural waste, energy waste, medical waste and mining waste.

40. It was suggested to document the censuses and surveys using a suitable metadata standard, such as the Statistical Data and Metadata eXchange (SDMX), to enable international data comparability.

41. If agreeable to the country providing the census or survey to UNSD, a contact person's name and details could also be shared, as well as a short description of content/variables included in the census or survey and the objective of the data collection. Furthermore, experts commented that best practices in data collection, possibly filed by FDES topic or sub-component (and depending upon which themes are covered by censuses and surveys made public on the website) could be an option for inclusion.

42. Some experts suggested it relevant to draw a direct link between censuses and surveys, and policies such as the 2030 Agenda for Sustainable Development. Doing so may increase the relevance of the list of censuses and surveys on the UNSD website.

43. Administrative and geospatial data were mentioned as alternate sources of data which often complement censuses or surveys or are used as sources of environment statistics, and can help with validation of data. Suggestion was made to include text on the uses of administrative and geospatial data and the benefits in combining them with censuses or surveys.

44. Also raised was the importance to coordinate the work of the EGES with the work of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) given the relevance of geospatial data to environment statistics.

III. Conclusions with regard to Session 3: Other Work in Environment Statistics

45. Presentations on climate change statistics were delivered by Nancy Chin, UNSD outlining the initiation of work by UNSD on climate change statistics as mandated by the 47th session of the United Nations Statistical Commission in 2016. The 47th session of the Statistical Commission, encouraged climate change statistics to be developed at the national level, and recommended that the FDES be used to guide the development of climate change statistics and indicators. As mandated by the Statistical Commission, UNSD was requested to develop a global set of climate change statistics and indicators building on the work of the UN-ECE Task Force on Climate Change-Related Statistics and Indicators.

46. Presentations were made on work of the UN-ECE Task Force on Climate Change-Related Statistics and Indicators by Michael Nagy, UN-ECE which highlighted the work completed to date to develop the UN-ECE list of indicators and statistics, the survey on data availability and future work to pilot test and refine the indicators. Francesco Tubiello, FAO presented the FAO Emissions Database outlining the data available on GHG emissions from agriculture and land use, and the data available on agriculture and land use, as well as the indicators and other products on climate change relevant statistics available. Naziha Degroote and Livia Hollins, UNFCCC presented on the reporting process to UNFCCC and on the process of development of national adaptation plans and strategies.

47. Discussion on the development of a global set of climate change statistics and indicators took place in two working groups with feedback to the plenary. Issues raised were consideration of a core set of indicators plus complementary indicators to cover issues specific to certain regions and where data availability may be low. Experts discussed the need to adjust indicators to reflect attribution and to include new topics which may be pertinent to developing countries, such as risk and vulnerability or oceans, and to expand on areas such as adaptation which are of particular relevance to developing countries. Comments were made on the usefulness of showing the links between the Driving force-Pressure-State-Impact-Response (DPSIR) framework and other frameworks such as FDES or SEEA.

48. Presentations on extreme events and disaster statistics were delivered by Michael Nagy, UN-ECE on the work of the Conference of European Statisticians Task Force on Measuring Extreme Events and Disasters on the role of NSOs in the production of statistics on extreme events and disasters. Daniel Clarke, UN-ESCAP presented the work of the Asia-Pacific Expert Group on Disaster-related Statistics to develop a framework for disaster-related statistics and develop indicators to assess the challenges. The importance of geospatial data in relation to spatial indicators, such as disaster-related statistics was highlighted.

49. All presentations generated a rich discussion among experts especially with regard to the important involvement of NSOs for the measurement of disaster-related statistics. The need for coordination between the NSOs and National Disasters Management Offices was highlighted to ensure data quality and to compile disaster related statistics.

IV. Conclusions with regard to Session 4: Other Issues

50. Presentations were provided by Michael Nagy, UN-ECE on the UN-ECE Task Force on Waste Statistics; by Anna-Karin Nystrom, Sweden on Communication of Environment Statistics; and Jillian Campbell, UNEP on the Development Account Project.

51. Discussion was held on the need to promote modern methods of dissemination and additional communication methods and outreach activities to engage users. It was requested that the next meeting of the EGES include a session on dissemination for sharing new practices for presentation and dissemination of environment statistics.

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52. The next face-to-face meeting of the EGES will be held in April/May 2018. Exact dates will be discussed and agreed on electronically.

ANNEX A

Table 1: Status and responsibility for compilation of methodology sheets

Proposed drafter and contributors	FDES sub-components, topics to be covered	Date for final draft submission	Current Status
Mr. Anand Sookun, Mauritius; Ms. Denise Kronemberger, Brazil; Mr. Francesco Tubiello, FAO	Land use/land cover Sub-component 1.2, Topic 1.2.1: Land cover; and Sub-component 2.3, Topic 2.3.1: Land use	2 nd to 3 rd quarter 2017	Combined Land Use and Land Cover chapters circulated to and presented at EGES. UNSD to incorporate comments from EGES 4 th .
UNSD; Ms. Jillian Campbell, UNEP; Mr. Francisco Javier Jiménez Nava, Mexico	Ecosystems and Biodiversity Sub-component 1.2 Topic 1.2.2: Ecosystems and Biodiversity	3 rd to 4 th quarter 2017	Presented in 2016. Edited draft prepared. Circulated to UNEP and Mexico for further comments.
Mr. Francisco Javier Jiménez Nava, Mexico and Mr. Alvaro Shee, Chile; Ms. Rayen Quiroga, UN-ECLAC	Forest Sub-component 1.2 Topic 1.2.3: Forests; Topic 2.3.2: Use of forest land; and Topic 2.5.1: Timber resources	3 rd to 4 th quarter 2017	First draft circulated to and presented at EGES 4 th . ECLAC to prepare second draft and UNSD to incorporate comments from EGES 4 th , before circulating to FAO for comments.
Mr. Alvaro Shee, Chile; Ms. Rayen Quiroga, UN-ECLAC	Air Quality Sub-component 1.3 Topic 1.3.1: Air quality	To be determined.	Chapter presented to EGES 4 th . Draft to be received from Chile.
UNSD	Minerals and Energy Topic 2.1.1: Stocks and changes of mineral resources Topic 2.1.2: Production and trade of minerals Topic 2.2.1: Stocks and changes of energy resources Topic 2.2.2: Production, trade and consumption of energy resources	December 2016	Completed chapters have been uploaded to UNSD website.
UNSD; Mr. Pal Boday, Hungary; Mr. Francesco Tubiello, FAO	Crops and Livestock Sub-component 2.5 Topic 2.5.3: Crops Topic 2.5.4: Livestock	2 nd to 3 rd quarter 2017	Draft being edited by UNSD. Revision to be circulated to contributors.

Proposed drafter and contributors	FDES sub-components, topics to be covered	Date for final draft submission	Current Status
UNSD	Water Sub-component 2.6 Topic 2.6.1: Water resources Topic 2.6.2: Abstraction, use and returns of water	2 nd to 3 rd quarter 2017	Chapter has been revised. To be uploaded to the UNSD website.
Ms. Denise Kronemberger, Brazil; Mr. Michael Nagy, UN-ECE; Mr. Leo Kolttola, Finland and Mr. Anand Sookun	GHG Emissions Sub-component 3.1 Topic 3.1.1: Emissions of greenhouse gases	2 nd to 3 rd quarter 2017	Revised draft has been circulated for further comments to UNFCCC. Comments received by UNSD and being reviewed.
UNSD	Waste Sub-component 3.3 Topic 3.3.1: Generation of Waste Topic 3.3.2: Management of Waste	3 rd to 4 th quarter 2017	UNSD to complete revision of chapter and to incorporate comments of EGES 4 th .
UNSD; Ms. Angela Ferruzza, Italy; Mr. Michael Nagy, UN-ECE; Ms. Rayén Quiroga, UN-ECLAC; Ms. Kristina Taboulchanas, UN-ECLAC (tbc)	Natural Disasters Sub-component 4.1 Topic 4.1.1: Occurrence of natural extreme events and disasters; Topic 4.1.2: Impact of natural extreme events and disasters	Imminently after Open-ended Intergovernmental Expert Working Group on Indicators and Terminology Relating to Disaster Risk Reduction concludes (November 2016).	UNECE/Italy to take forward
Ms. Janet Martin, Jamaica; Ms. Angela Ferruzza, Italy; <i>UN-Habitat (tbc)</i>	Human Settlements Sub-component 5.1 Topic 5.1.1: Urban and rural population Topic 5.1.2: Access to selected basic services Topic 5.1.3: Housing conditions Topic 5.1.4: Exposure to ambient pollution Topic 5.1.5: Environmental concerns specific to urban settlements	3 rd to 4 th quarter 2017	Updated version of draft received. Circulated to UN Habitat for comments. Comments to be incorporated by UNSD.
Mr. Francisco Javier Jiménez Nava, Mexico; Ms. Iva	Environmental Protection Expenditures Sub-component 6.1 Topic 6.1.1: Government	To be determined.	UNSD to incorporate comments of EGES 4 th . Seek further comments from experts.

Proposed drafter and contributors	FDES sub-components, topics to be covered	Date for final draft submission	Current Status
Ritschelova, Czech Republic; Mr. Pal Boday, Hungary; <i>Ms. Kristina Taboulchanas, UN-ECLAC (tbc)</i>	environment protection and resource management expenditure Topic 6.1.2: Corporate, non-profit institution and household environment protection and resource management expenditure		
Ms. Roberta Pignatelli, EEA	All chapters: peer review	Continuous	

ANNEX B

Agenda

Wednesday, 3 May 2017

08:45 – 09:15 Registration

09:15 – 09:45 Opening

Objectives of the meeting

Adoption of the agenda

Session One: Environment Statistics Toolbox

09:45 – 10:00 **The FDES 2013**

Briefing - **UNSD**

10:00 – 12:00 **The Manual on the Basic Set of Environment Statistics**

Status of progress of the Manual [completed chapters - energy resources statistics, mineral resources statistics, water resources statistics] - **UNSD (10 mins)**

a) Presentations of draft chapters

- i. **Land Cover and Land Use Statistics - UNSD (15 mins)**
- ii. **Forest Statistics - ECLAC (15 mins)**
- iii. **Air Quality Statistics - Chile (15 mins)**
- iv. **Environmental Protection Expenditures Statistics - Mexico (15 mins)**
- v. **Generation and Management of Waste Statistics - UNSD (15 mins)**

b) Update of other draft chapters (GHG emissions, human settlements statistics, crops and livestock statistics, natural extreme events and disasters statistics, ecosystems and biodiversity statistics] - **UNSD (10 mins)**

12:00 – 13:00 Group work on draft chapters [based on guiding questions]

13:00 – 14:00 Lunch break

14:00 – 16:00 Group work on draft chapters (continued)

Presentation to plenary

16:00 – 16:15 Timetable for finalization of all chapters and new chapters to be developed (e.g., wastewater, water quality, technological disasters, environmental health) - **UNSD (15 mins)**

16:15 – 17:30 **Implementation of the FDES 2013 and the Environment Statistics Self-Assessment Tool (ESSAT)**

Reporting template for the results and analysis of the ESSAT - **UNSD (15 mins)**

Experiences from countries in the application of the ESSAT - **Tanzania (30 mins)**

Discussion

Thursday, 4 May 2017

Session Two: Environment Statistics Data Collection and Surveys

09:00 – 10:30 **Environmentally-related SDG indicators**

Country presentations:

Experience in the monitoring of the SDG indicators - **Czech Republic (20 mins)**

SDG indicators - **Charles University, Czech Republic (20 mins)**

Role of statistical offices in the compilation of the SDG indicators - **Sweden (20 mins)**

Discussion

10:30 – 12:00 **Environment Statistics Data Collection and Dissemination**

a) **UNSD/UNEP Questionnaire on Environment Statistics - UNSD (15 mins)**

Eurostat Questionnaire - **Eurostat (20 mins)**

b) **Selected SDG indicators related to the UNSD/UNEP Questionnaire**

6.3.1, 6.4.1 and 6.4.2: summary - **UNSD (10 mins)**

11.6.1, 12.4.2 and 12.5.1: metadata/work plans - **UNSD (20 mins)**

12:00 – 13:00 **Environment Statistics Data Collection and Dissemination (continued)**

c) **Pilot testing of UNSD/UN Environment Questionnaire on Environment Statistics - UNSD (30 mins)**

- Water quality as it relates to SDG indicator 6.3.2: Proportion of bodies of water with good ambient water quality and 6.6.1 Change in the extent of water-related ecosystems over time - **UN Environment (20 mins)**

- E-waste - **UNU (30 mins)**

13:00 – 14:00 Lunch break

14:00 – 15:00 **Environment Statistics Data Collection and Dissemination** (continued)

c) Pilot testing of UNSD/UN Environment Questionnaire on Environment

Statistics (continued)

Discussion

d) Inventory of regular, international environmental data collection, reporting and dissemination from countries undertaken by the United Nations, its specialized agencies, intergovernmental organizations and conventions -

UNSD (15 mins)

15:00 – 17:30 **Environment Statistics Surveys**

Compilation of environmentally-related questions in censuses and surveys and specialized environmental surveys (e.g., waste and water) - **UNSD (10 mins)**

Use of the environmental data obtained from the household survey - **Kenya (20 mins)**

Group work on censuses and surveys **(2 hours)**

[based on guiding questions in different areas such as waste, water and expenditures]

18:30 – 20:00 Reception

Friday, 5 May 2017

09:00 – 9:30 **Environment Statistics Surveys** (continued)

Presentations to plenary

Session Three: Other Work in Environment Statistics

09:30 – 11:00 **Climate Change Statistics**

Global work in climate change statistics and indicators - **UNSD (15 mins)**

Climate change and official statistics based on work of the UN-ECE Task Force on Climate Change-related Statistics and Indicators - **UN-ECE (20 mins)**

FAO Emissions Database - **FAO (20 mins)**

Recent developments in climate change policy - **UNFCCC (20 mins)**

11:00 – 13:00 **Climate Change Statistics** (continued)

Group work on the set of climate change-related statistics and indicators developed by UN-ECE Task Force (5 groups: drivers, emissions, impacts, mitigation, adaptation)

- review of indicators/statistics presented in UN-ECE list
- applicability of list to other countries
- data availability

Presentation to plenary

13:00 – 14:00 Lunch break

14:00 – 14:30 **Extreme Events and Disasters**

Presentation - **UN-ECE/Italy**

Presentation - **UN-ESCAP**

Session Four: Other Issues

14:30 – 15:30 UN-ECE Task Force on Waste Statistics - **UN-ECE**

Communication of environment statistics - **Sweden**

Development Account Project - **UN Environment**

15:30 – 15.45 Evaluation

15:45 Closing of the meeting

ANNEX C

List of Participants

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