# Why does e-waste matter? Setting the context

The importance of digitalization

Project partners:







# What is digitalization?

Digitalization refers to spreading, leveraging and using digital and information and communication technologies, tools and processes, to enable, improve and transform a sector (e.g., business). Digitalization thus move beyond digitization which simply refers to converting analog information into digital information.



Project partners:







## www.itu.int



## Global average number of selected appliances owned per capita, by country's income level

Setting the context



Sustainable Cycles Programme

# COVID-19 Regulatory framework initiatives for the Europe region



Sustainable Cycles Programme



# What is e-waste?

**EEE:** Electrical and electronic equipment (EEE) includes a wide range of products. Almost any household or business are with circuity or electrical components with power or battery supply (Step Initiative 2014).

**E-waste:** refers to all items of electrical and electronic equipment (EEE) and its parts that have been discarded by its owner as waste without the intent of re-use"

Source: Global E-waste Monitor, 2020

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Setting the context

# Global quantity of e-waste (2019)



## Setting the context

#### Legend

#### I E-waste generated (in Mt

- and kg per capita)
- C E-waste documented to be
- collected and properly recycled
- Population

0 to 5 kg per capita 🔵 5 to 10 kg per capita 10 to 15 kg per capita 15 to 20 kg per capita 20 to 25 kg per capita

E-waste generated

25+ kg per capita



## www.itu.int

# E-Waste status in Europe (2019)

12.0 Mt | 16.2 kg per capita e-waste generated 42.5% | 5.1 Mt e-waste documented to be collected and properly recycled **37 countries** have a national e-waste legislation/policy or regulation in place 740 39 population (millions) countries analysed \$12.9 billion USD: value of raw materials in e-waste



**12.7 Mt CO**<sub>2</sub>: equivalents potential release of GHG emissions From undocumented wasted fridges and air conditioners

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Sustainable Cycles Programm

UNU-VIE SCYCLE

σ

Montenegro Serbia

Bosnia and Herzegovina

Albania

North Macedonia



**11.4 kt:** amount of BFR undocumented flows of e-waste

Project partners:





E-waste

0

12

10

8

6

4

2

Generated, 2019 (kg per capita)



# Thank you!

**Contact:** Rosie McDonald *E-waste Data Associate Officer, ITU* <u>rosie.mcdonald@itu.int</u>

Sarah Delporte Project Officer, ITU Office for Europe <u>sarah.delporte@itu.int</u>





# Why does e-waste matter?

# The environmental issues of e-waste and the role of statistics

UNITAR – SCYCLE Programme

March 16th, 2022



# Table of contents





1. What is e-waste?

- 2. E-waste environmental issues and opportunities
- 3. E-waste key data
- 4. The role of statistics
- 5. SCYCLE and the GESP

## What is e-waste?



E-waste environmental issues and opportunities



# **E-waste environmental issues**

## 1. Hazardous materials in e-waste

e.g. fridges, phones, laptops, washing machines, sensors, TVs, lamps

- Heavy metals (such as mercury, lead, cadmium etc.)
- Chemicals (such as CFCs/chlorofluorocarbon or various flame retardants)



# 2. Impact on health

- Exposure to lead
  - > Mental development of children, toxic to kidneys
- When burning PVC  $\rightarrow$  dioxins
  - > One of the most hazardous carcinogens (cancer)
- Hexavalent Chromium
  - Kidney, liver, DNA
- Brominated Flame retardants
  Fetal damage
- Cadmium
  - Cancer, toxic to kidneys



## **E-waste environmental issues**





Exposure through food, water, air
 Home based workshops

#### Occupational exposure

 Inhaling fumes from burning wires and cooking circuit boards
 Pregnant women working as recyclers – exposure of fetuses

#### Environmental contamination

- Dumping acid used to remove gold into rivers
- Leaching of substances from landfills or stored electronics
- Particulate matter, dioxins, furans from dismantling electronics
- Contaminants entering the water system and food system through livestock, fish, and crops

#### Children

 Ingesting contaminated dust on surfaces
 Playing with dismantled electronics
 Children and adolescents working in collection, dismantling, and recycling

## 3. Losses of valuable material

- Precious metals including gold, silver, copper, platinum and palladium
- Valuable bulky materials such as iron and aluminum, and plastics



## **E-waste opportunities:**

- At least 60 elements:
  - Base metals (Fe, Cu, Al, etc.)
  - Precious metals (Ag, Au, Co, Pd, Pt, etc.)
  - Rare earth metals (Dy, Er, Eu, Gd, Ho, La, etc.)
  - Plastics (several polymers)
  - Glass
  - ....

### Hazardous materials

- Mercury
- CFCs
- Lead
- Flame retardants
- ....





E-waste key data



## **Global E-waste Monitor: e-waste quantities**



**Global E**waste **Monitor:** e-waste quantities



copper

iron

# Global Ewaste generation

*E-waste status by continent* 



C 0.06 Mt | 8.8% e waste documented

to be collected and properly recycled



Global E-waste Statistics



# Raw materials, BFR and CO2 eq. in e-waste: regional quantities



# **E-waste quantities and recycling rate**



# The role of statistics



## Why data are important



- Fast growing problem
- Little data
- Link to existing statistics and e-waste related data
- Needed to capture ewaste most essential features

# Why data are important

- To start addressing the e-waste challenge.
- Evaluate developments over time.
- Set and access targets.
- Identify best practices in policies.
- To improve comparability between countries.
- To serve as the basis for e-waste statistics, e-waste indicators and contribute to the SDGs.



# Harmonized framework to measure e-waste



# Potential achievements

## Some examples

- Improve the reporting under the Basel Convention
- Introduce more regulatory tools (e.g. E-waste collection categories, targets, etc.)
- Create a national baseline for monitoring e-waste over time
- Comply with the requirements of the EU Directive 2012/19/EU
- Progressing towards the SDGs indicators



# Thank you for your attention!



## **Giulia lattoni**

Assistant Programme Officer UNITAR – SCYCLE Programme Email: giulia.iattoni@unitar.org



## **Kees Baldé**

Senior Scientific Specialist UNITAR – SCYCLE Programme Email: balde@unitar.org



# SDG Indicator 12.5.1 "National recycling rate, tons of material recycled"

Relevance of E-waste data for SDGs

Dany Ghafari 16 March 2022

# Introduction



- By 2050, the world's population is expected to rise from 7 to nearly 10 billion people, resulting in a significant increase in waste generation, especially in cities.
- However, many countries and cities do not yet have the capacity to properly collect, transport, treat, and dispose of their waste, which can lead to:
  - Spread of disease
    Flooding from blocked drainage
    Environmental pollution
    Emission of Greenhouse Gases
    Unwanted sights and odours



# **E-waste Introduction**

- The main lifecycle of EEE into e-waste, and the waste management that generally occurs, can be summarized into 4 distinct phases:

Phase 1: Market Entry Phase 2: Stock Phase 3: E-waste Generated Phase 4: E-waste Management



- "E-waste is a growing global challenge that poses a serious threat to the environment and human health worldwide", said Stephan Sicars, Director of the Department of Environment at the UN Industrial Development Organization.
- The world produces as much as 50 million tonnes of electronic and electrical waste (e-waste) a year, weighing more than all of the commercial airliners ever made. Only 20% of this is formally recycled.



The production of the E-waste data using global agreed methodology will:

- Enhance visibility of the waste management policy at national, regional and global levels
- Support Policy Makers at national level to build sustainable waste management focusing on reducing waste generation through prevention, reduction, recycling and reuse
- Reduce the data gap by enabling countries to report to Multilateral Environmental Agreements (MEAs) and to the 2030 Agenda for Sustainable Development
- Provide comparable analysis about the status of E-waste at regional and global levels





# Thank you!

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# Regional E-waste Monitor for the Western Balkans

# **Project Overview**

Project partners:





# The Global E-waste Statistics Partnership


# Project background

- Provide technical assistance to 5 Western Balkan countries to assess e-waste statistics, e-waste management practices and the e-waste legislation landscape to produce a Regional E-waste Monitor report.
  - Albania, Bosnia and Herzegovina, North Macedonia, Montenegro and Serbia.
- Internationally comparable e-waste statistics and information on e-waste management in the Western Balkans is limited.
- Within the framework of data and statistics support provided by the Global E-waste Statistics Partnership.
- Builds foundations for making digitization and digitalization processes green and sustainable.

Project partners:









## Project aims and objectives

Project **aims** to collect statistics, map the situation of e-waste management and legislation in the beneficiary countries as well as build subregional capacities in the field of e-waste monitoring and reporting.

### The project has the following **objectives**:

- Train National Focal Points to produce e-waste data for monitoring of SDG 12.5.1.
- Access recycling opportunities from e-waste, pollutants and e-waste related health effects to help identify and share best practices in the region.
- Contribute to the development of internationally comparable e-waste statistics.
- The Regional E-waste Monitor will:
  - Analyse trends in transboundary movement of e-waste.
  - Inform policy makers, industries, and business about regional e-waste data.
  - Support the development of national and regional counter-measures through policies, regulations, awareness raising and industrial response.







### Project activities

environmen

Supporting NSOs to produce a regional e-waste data set for the Western Balkans.

Validating country data directly with NSO focal points.



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#### Objectives

orogramm

Assessment of the status of e-waste legislation, statistics and e-waste management.

#### Expected roles

- Identify relevant stakeholders to take part in the questionnaire/ interview;
- Take part in the questionnaire and/or liaise with necessary • stakeholders to provide the information;
- Take part in interview and/or facilitate contact with relevant national focal points and setting of interview.













- Drafting, final review, publication and launch of the Regional E-waste Monitor: Western Balkans report;
- Make the data available on the website of the Global E-waste Statistics Partnership;
- Raise awareness of stakeholders on e-waste, related challenges and opportunities.



- Take part in the different meetings;
- Final validation of the Report;
- Inform national stakeholders of the report's launch and related materials (i.e., publication on website, relaying of information through social media channel or newsletter etc.);
- Identify relevant stakeholders to be invited to the launching events.

### Project impact

	R
- I	$\sim$
ĻĻ	

Lamps

Temperature Screens exchange equipment

6
---

#### Large Small Small IT equipment equipment

The 6 categories of EEE commonly referred to in regulation that end as e-waste.

### • Help to improve data availability and quality.

- Produce internationally comparable e-waste statistics.
- Assist the beneficiary countries in making digitalization policies and strategies green and sustainable as well as based on evidence.
- Increase regional capacities on e-waste statistics for government officials, statisticians and other stakeholders such as industry essential for the sound environmental management of e-waste.
- Alignment with EU standards within the framework of the pathway towards EU accession.





### Thank you!

**Contact:** Rosie McDonald *E-waste Data Associate Officer, ITU* <u>rosie.mcdonald@itu.int</u>

Sarah Delporte Project Officer, ITU Office for Europe <u>sarah.delporte@itu.int</u>





# Overview of the project, main milestones and roles and responsibilities

UNITAR – SCYCLE Programme

March 16th, 2022



# Table of contents





Training workshop on e-waste statistics and data collection;

2. Elaboration of the country profiles and example from

previous monitors;

3. Elaboration of the Regional E-Waste Monitor report;

What's next?

### ... Training workshop on e-waste

### statistics and data collection



Worldwide data harmonization by the GESP *Regions that participated in e-waste statistics workshops between 2017 and 2020:* 



Information on the training workshop

- 3 days workshop
- April
- Remote setting
- Platform: Zoom
- What to bring: laptop with a recent version of MS Excel, PowerPoint and Word





### Topics covered

- E-waste and its challenges
- General principles of e-waste statistics
- How to quantify EEE put on the market and E-waste generated
- E-waste Toolkit: what it is, how to use it
- How to quantify the e-waste flows
- National roadmap to produce e-waste statistics





### Preliminary draft agenda

							Day 3	
	Draft version					Time	Presentation	Speaker
				Day 2		9.00-9.15	Recap from Day 2	UNITAR
			Time	Presentation	Speaker	9.15-10.00	Activity 4: availability of country data & how to get data (from formal and informal	Delegates
	Day 1		9.00-9.15	Recap from Day 1	UNITAR	10.00-10.15	Open discussion	All
Time	Presentation	Speaker		Session 2: E-waste Toolkit				
9.00-9.20	Welcome remarks and platform instructions	UNITAR, ITU, UNEP	9.15-9.45	E-waste Toolkit: EEE Put on Market Tool	UNITAR		Break	
9.20-9.30	Roundtable introduction	All					Session 4: E-waste Roadmap	
9.30-9.45	Agenda of the online workshop and workshop objectives	UNITAR	9.45-10.15	Activity 2: on how to use the EEE Put on Market Tool	Delegates	10.30-11.30	Development of a roadmap to produce e- waste statistics	Delegates
	Session 1: General principles on e-waste		10.15-10.45	E-waste Toolkit: E-waste Generated Tool	UNITAR	11.30-12.30	Presentation on the roadmap developed	Delegates
	statistics			Break		12 20-12 00	Recommendations and next steps	UNITAR, ITU,
9.45-10.15	General introduction to e-waste	UNITAR		Activity 3: on how to use the E-waste Generated		12.30-13.00	Recommendations and next steps	UNEP
10.15-11.00	Initial assessment of the e-waste situation	Delegates	11.00-11.45	Tool	Delegates	13.00-13.15	Closure	UNITAR, ITU, UNEP
	Break		11.45-12.15	Overarching questions and tips on how to use the E-waste Toolkit	UNITAR			
			-	Session 3: E-waste flows				
11.15-11.45	General principles of e-waste statistics	UNITAR		· · · · · · · · · · · · · · · · · · ·				
11.45-12.15	How to determine EEE Put on Market and E- waste generated	UNITAR	12.15-12.40	E-waste collected and recycled	UNITAR			
	Activity 1: availability of country EEE POM		12.40-13.20	E-waste imports and exports	UNITAR			
12.15-13.10	(import, export), sales, stocks, lifetimes & how to get data	Delegates	13.20-13.30	Wrap-up	UNITAR			
13 10-13 20	Open discussion	All	1					7

7

#### **Training material**

*E-waste Toolkit* 

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UNU-VIE SCYCLE ustainable Cycles Programe

- 1) EEE Put on the Market Tool (Excel file)
- *E-waste generated Tool (Excel file)* 2)
- Manuals on the use of the tools 3)
- E-waste statistics quidelines 4

*PowerPoint presentations* ۲



### **Objectives of** the training

- Build national capacity and skills in e-waste statistics principles and core indicators,
- Improve the quality, understanding, collection and interpretation of e-waste data,
- Support the independent production of internationally comparable e-waste statistics in the region,
- Contribute to the achievement of the SDGs,
- Bringing together different stakeholders to enhance national and international cooperation and collaboration,
- Make a roadmap for compiling e-waste statistics in the region.



### Data collection

#### Questionnaire

#### Questionnaire on e-waste statistics, legislation, management and transboundary movement

Country:	
Respondent:	
Contact:	
Institution:	
Current version:	February 2022
Responsible:	Giulia lattoni (giulia.iattoni@unitar.org)

#### Goal

The aim of this questionnaire is to communicate the current status of e-waste statistics, legislation and management in the country.

Contents	
Sheet name	Contents
Glossary	Definitions of e-waste terms
E-waste_Statistics	Summary of e-waste statistics in the country
E-waste_Legislation	Questions related to the country's legislation on e-waste in the country
E-waste_Management	Questions related to current practices of e-waste management per country
E-waste_TBM	Questions related to the status of transboundary movement of e-waste (and used EEE) in the country
General questions	More general questions on projects/initiatives/studies on e-waste in the country, personal views etc.
UNU-KEY_Correlation	Correlation table between UNU-KEYs and the e-waste categories

#### Questionnaire developed by



In the framework of the Regional E-waste Monitor for the Western Balkans project



For more information on UNITAR SCYCLE's activities, please refer to:

www.globalewaste.org https://www.scycle.info/ https://ewastemonitor.info/







# Data collection

#### **Content of the questionnaire**



- **1) Glossary**: univocal definitions of some essential concepts (EEE, POM, formal and informal sectors, etc.)
- 2) **E-waste Statistics**: generation, import, export and recovery of e-waste per year.
- **3) E-waste Legislation**: presence, extent and scope of e-waste legislation in the country regarding management, import and export, and agencies in charge for it.
- **4) E-waste Management**: current practices and recycling capacity of the country in the formal and informal sectors.
- 5) **Transboundary Movement:** status of transboundary movement of e-waste (and used EEE) in the country
- 6) **General questions:** projects/initiatives/studies on e-waste in the country, personal views etc.
- **7) UNU-KEY Correlation**: description and link with the EEE categories under EU-6 and EU-10.



### What's next?

# ... Five country profiles





#### **Examples of country profiles**



	Signature	Ratification/Accession	Entry into force
Basel Convention		9 January 2006	09 April 2006
Rotterdam Convention		17 February 2005	18 May 2005
Stockholm Convention	23 May 2001	29 August 2006	27 November 2006
Minamata Convention	24 September 2014	- A	



C Formal/environmentally sound e-waste management system in place

#### Country: Kazakhstan

			0	Leger
444	18.7 million inhabitants	Legislation:	-	
И	2,725,000 km <sup>2</sup>		•	Advar
	Borders: China, Kyrgyzstan, Russia,	Infrastructure:	•	Transit
	Turkmenistan, Uzbekistan	••	0	Basic
۲	GDP per capita PPP: \$24,904 USD	Collection Rate:		
÷.	Average household size: 3.5 members	• 8.8 %		

#### 🔨 National legislation on e-wast

Extended Producer Responsibility: Introduced in January 2016 On management safety requirements (draft) National e-waste standards: E-waste collection target: Min. 30% of the EEE POM in 2021 Legislation product coverage in UNU-KEYs: 35 of 54 Legislation product coverage in weight (%) on total and per category: Total: 77% of the e-waste generated in 2019



Legend: Advanced

	Signature	Ratification/Accession	Entry into force
Basel Convention		03/06/2003	01/09/2003
Rotterdam Convention		01/11/2007	30/01/2008
Stockholm Convention	23/05/2001	09/11/2007	07/02/2008
Minamata Convention			



✓ 30 treatment/recycling enterprises for treating and recycling e-waste. ✓ 15 cities covered.











Collection Rate: 0%

21/01/2016

17/08/2017

× Peru does not have facilities that process/treat POPs arising from e-waste

e-waste in the City of Lima and in Callao.

l e-waste s	tandards:	:		<ul> <li>Introdu</li> <li>Introdu</li> </ul>	iced in 2017 iced in 2012, on the ge	neration,	collection,	classification	
l standards	s for POPs	containe	ed	storage, c	and bedament of screet	13			
te:				In deve	lopment				
E-waste collection target:					✓ For some collection categories				
on product	t coverage	e in UNU	KEYs:	17 of 54					
on product otal and pe	t coverage er categor	e in weigl ry <sup>(152</sup> ):	ht	Total: 6 %	of the e-waste gener	oted in 2	019		
1%	2	%	•	0%	1%	1	1%	1	
	I standard: ite: collection ion product ion product otal and pi 1%	I standards for POPs te: collection target: ion product coverage otal and per categor 1% 2	I standards for POPs contain te: collection target: ion product coverage in uNU- ion product coverage in usigi otal and per category <sup>(15)</sup> ; % <b>2%</b>	I standards for POPs contained te: collection target: ion product coverage in UNU-KEYs: ion product coverage in weight otal and per category <sup>rtss</sup> ; % <b>2</b> %	e woats tandonos: I standards for POPs contained te: collection target: on product coverage in NW-FKPs: total and per category <sup>me</sup> ; total and per category <sup>me</sup> ; total 25 gr	the works resolution: table tableches for POPs constanted tableches to RPOPs constanted tableches to RPOPs constanted table constructions and tableches tableches tableches tableches tableches tableches	er waars sonoors:     • minococci in JU, Jo of the given contained to minococci in JU, Jo of the given contained ter       tabelechter NOPOs contained ter     • In development of the development of the development on product coverage in NUH-KSTN.       to and per coverage in NUH-KSTN.     17 of 54.       total and per coverage in NUH-KSTN.     15 of 64. In e-vosite generated in JU Stati. 64. In of the e-vosite generated in JU       type     2.46.     0%     14. In the formation of the period coverage in NUH-KSTN.	re woate sensorate: In MINSULADE AN L2, of the genetator contextuol, taronators for POPs contained ter In development on product coverage INUN-KEY: 17 of 54 total ond per cetegory <sup>2005</sup> . Total: 6 % of the e-waste generated in 2019 rg6 26 0% 1% 1%	

Minamata Convention [34] 10/10/2013



### **Country profiles validation**



- ✓ Support in data collection (e.g. questionnaire, interviews, etc.)
- ✓ Experiment with UNITAR-SCYCLE harmonized e-waste methodology after the training
- ✓ Review the information reported in the country profiles



What's next?

# ... Regional E-waste Monitor

# for the Western Balkans



### **Previous Regional E-waste Monitors**



#### **REGIONAL** E-WASTE MONITOR

CIS + Georgia



https://ewastemonitor.info/ regional-e-waste-monitorcisgeorgia-2021/





#### REGIONAL E-WASTE MONITOR

for the Arab States



https://ewastemonitor.info/re gional-e-waste-monitor-forthe-arab-states-2021/



#### REGIONAL E-WASTE MONITOR

for Latin-America, results for the 13 countries participating in project UNIDO-GEF 5554



https://ewastemonitor.i nfo/wpcontent/uploads/2022/ 01/REM\_LATAM\_2022 ENG\_Final.pdf



### **Regional E-waste Monitors approach**



Turkmenistan (TKM)

Source of the maps: <u>United Nations Geospatial Information</u> <u>Section Web Site</u> (https://www.un.org/geospatial/)

#### **Scope of the Monitor**



### **Outline of the Monitor (draft)**

#### **Monitor Features**



3. Regional Overview Legislation and Systems

Status, International Agreements, Stakeholders,

6. Management Assessment

Comparative Performance Review

#### 9. Country Profiles

Five Driving Reasons

# Purpose of the Monitor

- Allow relevant stakeholders and the general public to be more informed about e-waste challenges in the region;
- Provide an updated overview of the key e-waste statistics and indicators per country and at regional level;
- Evaluate the transboundary movement of e-waste by estimating quantities and providing and overview of import&export legislation and policies;
- Help to map the key e-waste stakeholders, the status of e-waste legislation, and recycling opportunities from e-waste in the region.







### **Successful stories**



Surveys system of the country was updated and the results validated through the data obtained by the project – *Environment Statistics Division* 



The outcome of the project contributed to the development of the National E-Waste Statistics Report (2019), the firstever analytical report on e-waste in Tanzania – *Naional Bureau of Statistics* 

Uses the results from the project for Basel Convention and Stockholm Convention (POPs) reporting, and OECD surveys.



Successfully calculated national e-waste data in accordance with the requirements of Directive 2012/19/EU and the Council of July 4<sup>th</sup> 2012 on Waste Electrical and Electronic Equipment – *Agency of Statistics* 





E-waste study was published on the government website, and a law was developed to include guidelines on e-waste management, and introducing the EPR and the concept of circular economy.



As a result of the project, ewaste recyclers and collection points in the country were mapped to develop a user platform. Some of the project key results



Let's create together a better picture of the e-waste situation in the Western **Balkans to** tackle the issue!



# Thank you for your attention!

![](_page_68_Picture_1.jpeg)

#### **Giulia lattoni**

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![](_page_68_Picture_4.jpeg)

#### **Kees Baldé**

Senior Scientific Specialist UNITAR – SCYCLE Programme Email: balde@unitar.org

# Regional E-waste Monitor for the Western Balkans

Promotional and awareness campaign & launching event

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Project partners:

![](_page_69_Picture_3.jpeg)

![](_page_69_Picture_4.jpeg)

![](_page_70_Picture_0.jpeg)

### Promotional and awareness campaign & Project overview launching event

Date: October 2022 - July 2023

### **Promotional campaign:**

- Make the data available on the website of the Global E-waste Statistics Partnership;
- Elaboration of a Story Map which constitutes an online interactive tool;
- Promotion on relevant webpages and social media channel.

### **Regional launching event of the Report:**

- **Regional briefing**
- **Objectives**:
  - Present to the regional community the outcomes of this study and to generate concrete impact at the country level by pinpointing key gaps, stimulating the discussion on country level needs;
  - Showcase the importance of addressing e-waste and the role of statistics in ٠ that sense;
  - Illustrate the way forward for acting at the country level. •
- Audience: Open event targeting partners at the national and regional levels, relevant EU structures, the Donors community as well as all interested stakeholders. Project partners:

![](_page_70_Picture_15.jpeg)

![](_page_70_Picture_16.jpeg)

![](_page_71_Picture_0.jpeg)

Promotional and awareness campaign & launching event Project overview National Awareness raising workshops (April-July 2023)

**Focus**: Providing a deep dive into the country's situation by showcasing the findings of the Report.

### **Objectives:**

- Lay the basis for concrete follow-up at the country level;
- Create momentum in the ICT sector and space for pursuing impact-generation initiatives at the national level;
- Specific objectives include:
  - 1. Presentation of the key national and sub-regional trends as well as potential initiatives to be leveraged related to e-waste;
  - 2. Discussion on the outstanding challenges to identify priority areas to be addressed;
  - 3. Identification of the type of support needed and expertise to be leveraged for potential future assistance or initiatives.

**Audience:** National stakeholders relevant to the e-waste sector: Ministry of ICTs, Ministry of Environment; National Statistical Office; the private sector, including recyclers and operators; the national donors community; EU Delegation; UN Country Teams; Customs; others.

Project partners:

![](_page_71_Picture_12.jpeg)

![](_page_71_Picture_13.jpeg)

![](_page_71_Picture_14.jpeg)
## Next steps

## Questionnaire and online trainings

E SCYCLE

Project partners:





Next steps

## Next steps **Data Validation Online Training July 2023** Dec 2021 05 04 02 03 01 **Research, Questionnaires &** Regional **Project Kick-off E-waste Monitor and** Interviews awareness campaign Questionnaire Online training The questionnaire to collect information on the status Information on the training will be sent by UNITAR • of e-waste and collect e-waste related data: (save the date – Online training expected by the end of April); Identify relevant stakeholders to take part in the Take part in the online training; • questionnaire; Engage additional relevant stakeholders in the training; Take part in the questionnaire and/or liaise with Circulate key information among the team members; • necessary stakeholders to provide the information; Support the elaboration of data set through data collection Take part in one-to-one discussion and/or facilitate and estimation, including by contacting relevant national

institutions.

contact with relevant national focal points.

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IN 🍘

www.itu.int



## Thank you!

**Contact:** Rosie McDonald *E-waste Data Associate Officer, ITU* <u>rosie.mcdonald@itu.int</u>

Sarah Delporte Project Officer, ITU Office for Europe <u>sarah.delporte@itu.int</u>

