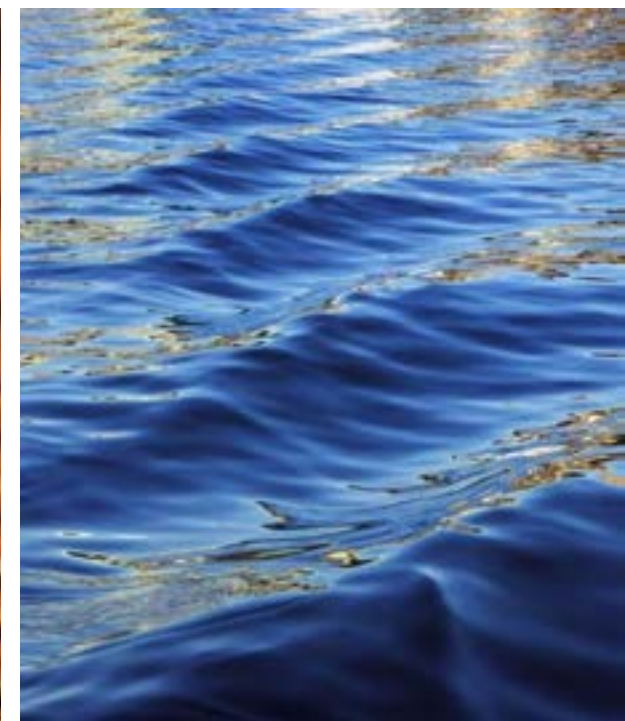


# STRiKE: Stronger Training and Increased Knowledge for better Enforcement against Waste & Mercury

Webinar #8: E-waste the key role of data and flows quantification



The STRiKE project is funded by the European Union's Internal Security Fund - Police (ISFP/2017/AG/ENV/821345)



## Webinar #8 E-waste: the key role of data and flows quantification



14

JANUARY

Friday,

11.30 AM CET

### AGENDA

1. Vittoria Luda di Cortemiglia, UNITAR-SCYCLE, *The Strike project and e-waste as a problematic waste stream + moderation*
2. Kees Balde, UNITAR-SCYCLE, *Overview from the global/regional e-waste monitors*
3. Kathleen McMahon, UL, *Quantifying used-eee and weee coming from Ireland*
4. Yvonne Ryan, UL, *Quantifying e-waste in scrap metals*
5. Q&A session and Conclusion





## Overview Stronger Training and Increased Knowledge for better Enforcement against Waste & Mercury (STRIKE)



- **Full Partners:** University of Limerick, German Police University, Dutch National Forensic Institute, and UNITAR
- **5 Associate Partners:** German Customs Authority (Germany); District of Lower Bavaria (Germany); Basel Convention Regional Centre (Slovakia); African Institute (South Africa), Waste Management Department - Ministry of Environment and Physical Planning (Macedonia).
- **Geographical scope:** EU, CEE/Balkan region and selected African countries
- **Objectives:** to **enhance operational activities & capacities of authorities** involved in addressing illegal trade & management of problematic waste streams
- Focus on: **e-waste, end-of-life vehicles, batteries, waste mercury** and **mercury-added products** (MAPs).
- The project is a follow up of [CWIT](#), [DOTCOM Waste](#) and the [WasteForce](#) project.





**Enhanced knowledge  
and risk analysis**

**Find out more**



**New tools and  
methodologies**

**Find out more**



**Capacity building  
and skills acquisition**

**Find out more**



## Knowledge and risks analysis of waste crime & mercury added products



**Objective:** To **enhance knowledge and understanding** of illegal trade and management of **problematic waste streams** and illegal production and trade of mercury-added products, in support of an improved risk analysis and possible harmonisation of national annual plans and enforcement strategies

### Actions:

- **Strategic Risk Analysis**
- **Guidelines** on the preparation of **annual plans and enforcement strategies**





## New Tools and Methodologies



**Objective:** to develop **practical tools and advanced methodologies** in support of practitioners across the compliance and enforcement chain, in their fight against waste and product trade crimes, including waste mercury and mercury-added products.

### Actions:

- **Forensic tools** for detection and investigation of waste and mercury crime
- **Methodologies for estimation of damages** caused by mercury and e-waste



**STRIKE**

**Impact of nonregulated mercury emissions in legal cases**

1 November 2021

**STRIKE**

**On-site detection of mercury**

Date: 11 January 2022

Version: 1

The STRIKE Project is funded by the European Union Internal Security Fund - Police (ISFP-2018-AG-OC-ENV-869173)



## Capacity Building and Skills Acquisition

**Objective:** to enhance capacities and skills of practitioners and stakeholders in selected countries in Western Europe, as well as CEE/Balkans region and Africa in the detection, investigation and prosecution of waste-crime cases and illegal trade in mercury-added products.

### Actions:

- **Training Needs Assessment**
- Update and development of **training tools and materials**
- **Multi-disciplinary training sessions:** 4 online trainings led by Germany (Oct.21), Slovakia (Nov. 21) and The Netherlands (Dec.21) and Ireland (25-27 Jan.22)
- **Webinars**





## Dissemination

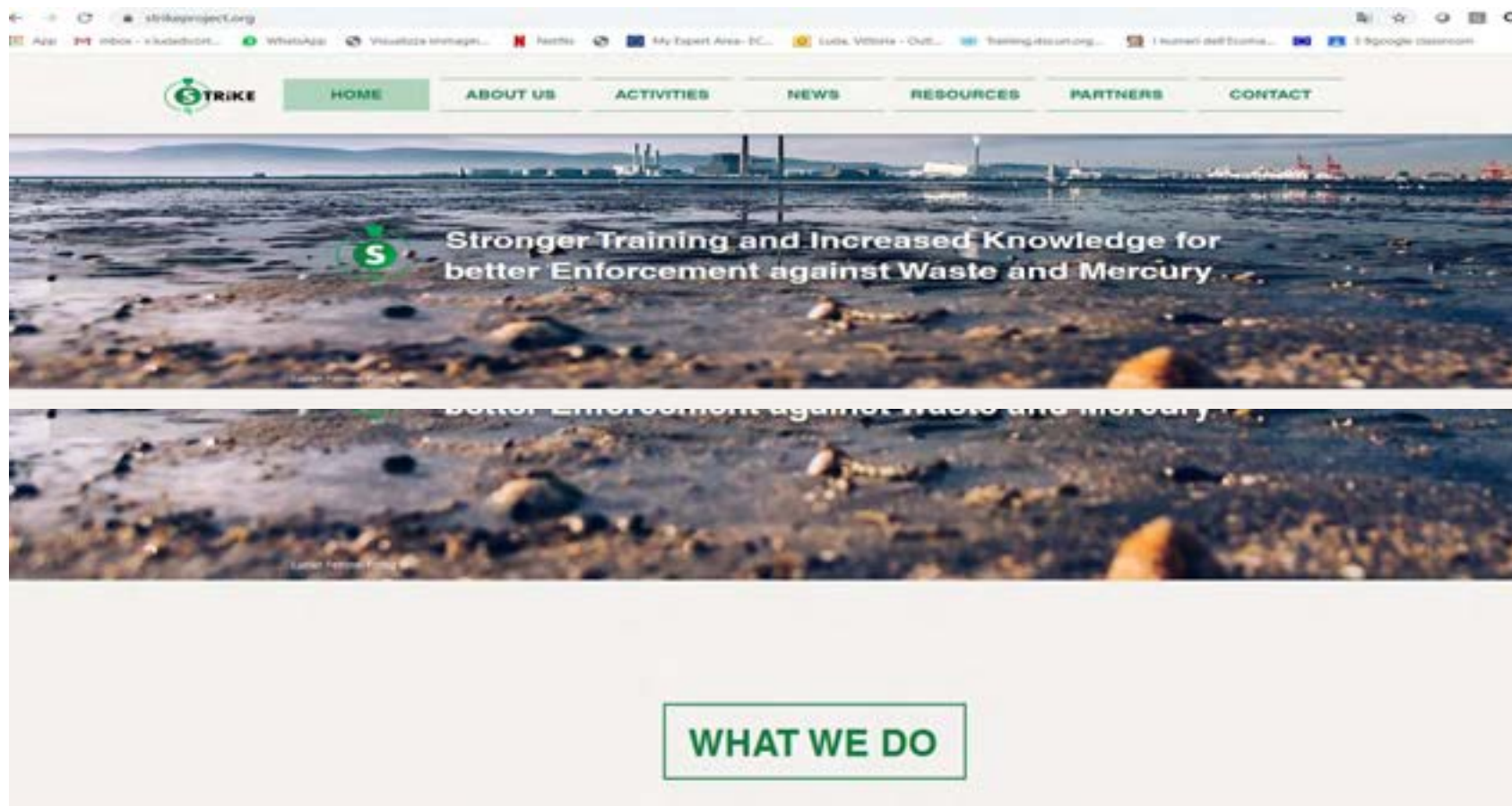


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CONFERENCE  
on 9 FEB.2022**





## Webinars

Visit:

<https://www.strikeproject.org/webinars>



### STRIKE Webinar #1 Trending Waste & Chemicals

- [Webinar Info](#)
- [Webinar Recording](#)
- [STRIKE Project Presentation](#)
- [Result of the STRIKE Strategic Risk Analysis on waste and chemicals Presentation](#)
- [Risks and Trends in the legal of pesticides - results from the UNEP and Grid Arenal report 'The illegal trade in chemicals' Presentation](#)

### STRIKE Webinar #2 Mercury in mind

- [Webinar Info](#)
- [Webinar Recording](#)
- [STRIKE Project Presentation](#)
- [Overview of the concerns and legislation associated with mercury trade Presentation](#)
- [Mercury trade in the African context Presentation](#)

### STRIKE Webinar #3 Building back better

- [Webinar Info](#)
- [Webinar Recording](#)
- [STRIKE Project Presentation](#)
- [Operation RETROVIRUS: Europe-wide operation to tackle unlawful sanitary waste disposal Presentation](#)
- [Ireland - Case Study - Inspectorate Adaptation to Covid-19 Conditions Presentation](#)

### STRIKE Webinar #4 Train-The-Trainers

- [Webinar Info](#)
- [Webinar Recording](#)
- [STRIKE participants' handbook](#)
- [STRIKE trainers' manual](#)

### STRIKE Webinar #5 Identification of mercury waste and mercury-added products in trade control

- [Webinar Info](#)
- [Webinar Recording](#)
- [STRIKE Project Presentation](#)
- [Presentation of Strike Project and the mercury problem](#)
- [On-site detection of mercury added products and mercury bearing wastes](#)
- [Mercury added products and internet trade](#)
- [Letter referring to the need for third party liability measures](#)

### STRIKE Webinar #7 Help is here! Tools, training and platforms to support the fight against illegal trade of waste and chemicals

- [Webinar Info](#)
- [Webinar Recording](#)
- [STRIKE Project Presentation](#)
- [Early indications from the use of the UN Mercury Inventory Tool in Predicting Mercury Waste in Ireland](#)
- [IOMC Toolbox short introduction](#)
- [Pollutant Release and Transfer Registers](#)
- [Green Customs Initiative](#)







# Training Materials



The screenshot shows the ITRAX website interface. At the top, there is a navigation menu with the following items: HOME, ABOUT US, ACTIVITIES, MEDIA, RESOURCES (highlighted in green), PARTNERS, and CONTACT. Below the menu is a large banner image of a hand holding a stack of papers, with the text "Training Materials" overlaid on the right side.

Below the banner, there are four training material cards:

- Training 1: Risk Management and legal trade of problematic waste streams and mercury-added products; special focus: ship-breaking**  
19-20 November 2021, 08:00-17:00 CET  
  
Save the date  
Website  
Information about mercury, which flows  
Collaboration between: Dutch Government of Health, Science, Research and Innovation and Sectoral Councils  
Jette De Alencar, Undersecretary  
Check out the full of the event on the website: [Save the date](#)
- Training 2: Better Enforcement against Waste and Mercury crime**  
24-25 November 2021, 08:00-17:00 CET  
  
Save the date  
Website  
ITRAX Workshop: Training 2 and  
Annual Convention: Friends in the Coast Republic,  
Department of Environment of the State of Mato Grosso  
State of Mato Grosso, Brazil  
Check out the full of the event on the website: [Save the date](#)
- Training 3: The Netherlands Training**  
14-15 November 2021, 08:00-17:00 CET  
  
Save the date  
Website  
Check out the full of the event on the website: [Save the date](#)  
Document 1  
Document 2  
Document 4
- Training 4: Ireland Training**  
14-15 November 2021, 08:00-17:00 CET  
  
Save the date  
Document 1  
Document 2  
Document 4



## E-waste: problematic waste stream



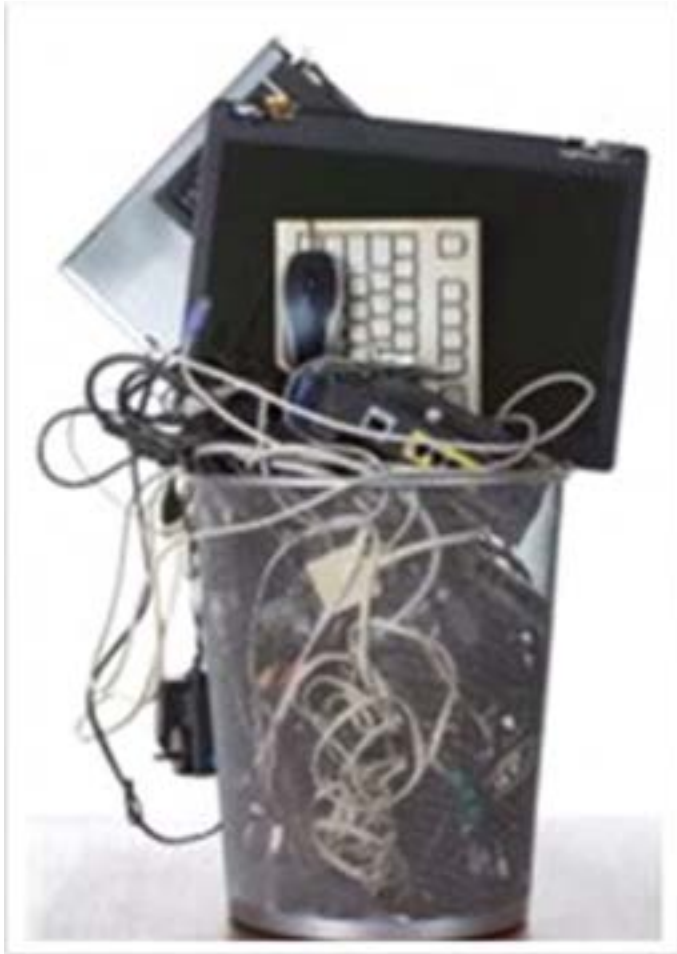


## Electric and Electronic Equipment -EEE





## WEEE or e-waste





# e-waste: challenges and opportunities



**Gold (Au)**

**Silver (Ag)**

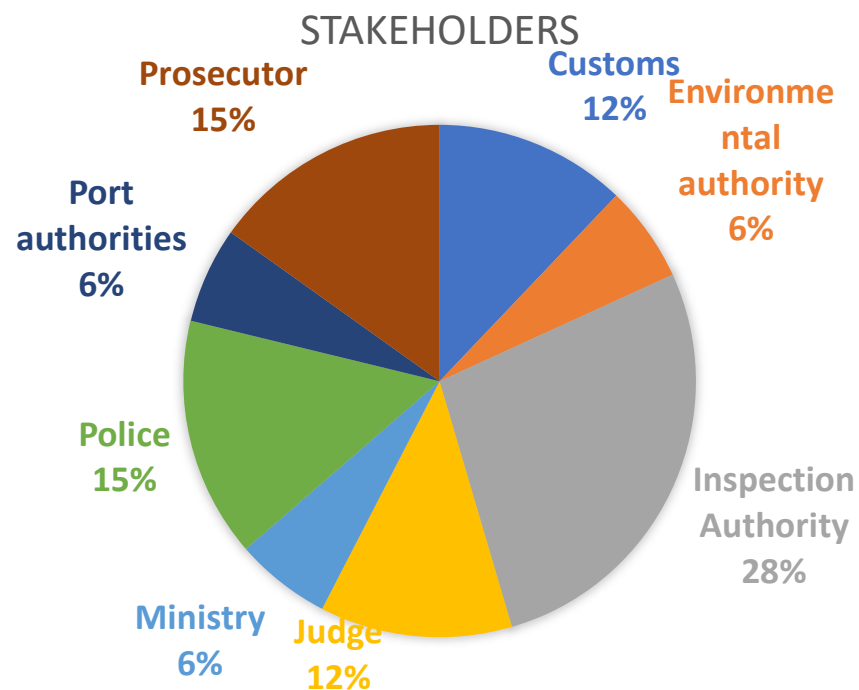
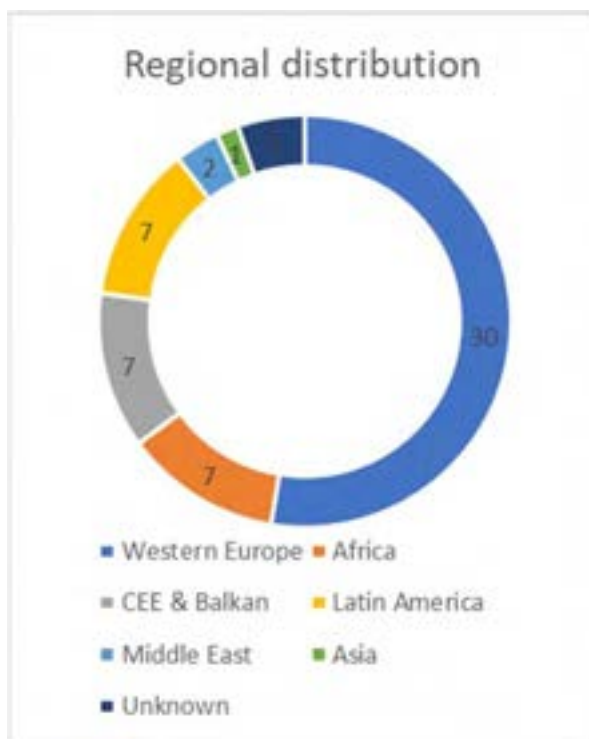
**Copper (Cu)**

**Platinum (Pt)**

**Palladium (Pd)**

The panel displays a vertical stack of images. On the left, there are five rows of e-waste components: 1) various green and gold printed circuit boards (PCBs); 2) stacks of gold-colored PCBs; 3) various electronic components like capacitors and resistors; 4) a stack of silver-colored PCBs; 5) a pile of grey, metallic-looking e-waste. On the right, there are five corresponding images of refined metal products: 1) two gold bars; 2) a stack of silver bars; 3) a stack of copper bars; 4) a stack of platinum bars; 5) a stack of palladium bars.

- Literature review
- **Questionnaires:** 57 questionnaires were collected, participants from 39 countries
- **Interviews:** 15 interviews, participants from 11 countries





## Trends and Risks: e-waste



### Routes:

- **Most reported routes** from Europe to West-Africa and from West to Eastern Europe. Top destinations include Nigeria, Senegal, Ghana and Poland, Czech Republic, Bulgaria, Romania.
- **Increase** reported in the illegal trade in e-waste is reported to Africa and specifically to Liberia and the Gambia.
- Examples **other destinations**: Spain (from North America), United Arab Emirates (from Europe).

### Modus operandi

- Most often false declaration as **used** electrical and electronic equipment or used good.
- E-waste is often **mixed with household waste** with false declaration, e.g. recyclable plastic
- A newly reported modus operandi was that e-waste is exported from the second-hand and charity stores to **textile recyclers**, who export it abroad.

### OCGs

- Three respondents from the questionnaire reported OCGs are involved in the illegal trade or management of e-waste (respondents from Afghanistan, Germany and the United Kingdom).



# Strategic Risk Analysis: outcomes of the questionnaire

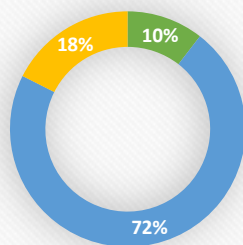


## Types of waste illegally traded

Waste types reported with selection	2018	2019	2020
E-waste	23	21	17
End-of-Life Vehicles (ELVs)	17	13	11
Plastics	17	11	12
Mercury	8	6	6
Metal	6	3	4

Waste types reported under other waste	2018	2019	2020
Oils (derivatives)	4	4	4
Paper waste	3	3	3
Tyres/spare vehicles parts	3	3	3
Construction and demolition waste	3	3	3
Household waste (mixed)	3	3	3
Treated wood	3	3	3
Used lead acid batteries	3	3	3
Asbestos	1	1	1
End-of-Life Ships	1	1	1
Recyclables	1		
Rubber	1		
Soil	1		
Textile	1		
Waste printing toner	1		
Liquid hazardous waste		1	
Medical waste			1
Solid Recovered Fuel			1
Cyanide			1

### Increase in illegal (bio) medical waste trade/management



■ Yes 
 ■ No 
 ■ No response



## Trends and Risks: e-waste





[Vittoria.luda@unitar.org](mailto:Vittoria.luda@unitar.org)