



CBRN  
**Centres  
of Excellence**  
*An initiative of the European Union*



**EUROPEAN UNION CHEMICAL, BIOLOGICAL,  
RADIOLOGICAL AND NUCLEAR RISK MITIGATION  
CENTRES OF EXCELLENCE INITIATIVE  
EU CBRN CoE**



Funded by  
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**unieri**  
United Nations  
Interregional Crime and Justice  
Research Institute

# Kazakhstan mine fire leaves at least 42 dead



**UGANDA POLICE FORCE**  
Counter terrorism experts recover stolen radioactive source and arrest 3 factory lab technicians



**AMMONIA LEAK.** Clad in hazmats, members of the Bureau of Fire Protection respond to an ammonia leak incident in an ice plant in Quezon City. In a statement on Friday (Dec. 28, 2023), the city government said it will investigate to determine the cause of the leak. (PNA file photo)

# Time to Tackle Bosnia and Herzegovina's Toxic Air

**Hackers Successfully Shut Down "Critical Infrastructure" in an Unprecedented Attack**



**hazardex** on i  
Regional focus, Industry News, Editorial, Products, Views, Events

## Uzbekistan chemical plant blast kills six

At least six people were killed in the chemical plant blast in Uzbekistan on Friday (Dec. 28, 2023). The blast occurred at the JSC "Uzbek Chemical Plant" in the city of Fergana. The authorities are currently investigating the cause of the blast and the extent of the damage. The official death toll has been released.

# Médicaments de mauvaise qualité en RDC: des conséquences préoccupantes

Des médicaments de mauvaise qualité sont distribués en République démocratique du Congo (RDC), ce qui pose de graves problèmes de santé publique. Les autorités sanitaires ont lancé une campagne de sensibilisation pour informer les citoyens sur les risques liés à l'utilisation de médicaments contrefaits ou de mauvaise qualité.

# North Korean leader's half brother: Malaysian police



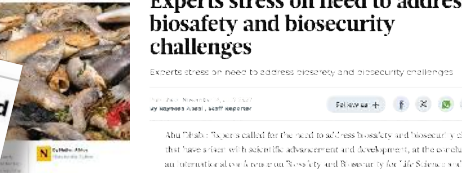
**REUTERS**  
16 killed in Pakistan chemical factory fire

# Cybersecurity 'Death Kitty' Ransomware Linked to South African Port Attack



**Malawi floods threaten animals and communities with disease**  
We're supplying medical treatment to more than a hundred thousand animals in Chikwawa, Malawi - where communities have been devastated by heavy rain

# Why fish are dying in Lake Victoria



Experts stress on need to address biosafety and biosecurity challenges

**Kenyan authorities foil major bio-terror attack**  
The terror network was planning a large-scale anthrax attack with the intention of killing innocent Kenyans, say authorities

# Sustainability driving GCC waste management market

Total waste generation in the GCC is estimated to reach 163.9 million metric tons by 2025, finds Frost & Sullivan in a new sustainability report

**WHO says making contingency plans for possible 'chemical assaults' in Ukraine**  
By Greta Feroz and Mercedes Itoy

# Serbian city declares emergency after ammonia leak



**The Cable**  
Boko Haram may deploy chemical weapon in future, says FG  
December 22

**Committee for Biosecurity reviews efforts on biological threats**

**The perils of air pollution in North Macedonia**  
The rate of premature deaths in North Macedonia is higher than in most European Union states

**Libya lost, then found, 2.5 tonnes of uranium - a red flag for nuclear safety**

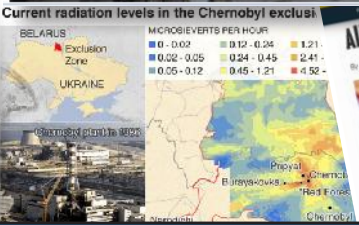
**Montenegro Further Safety with the EU**

**Georgia reports 11,225 new cases of coronavirus**

**Eight Serbian miners died from gas poisoning in a mine in the country's south on Friday**



explosion d'un camion



Security of Biological Materials Laboratory Analysis  
 Medical Waste Tanker Explosion  
 Drinking Water Contamination Security of Chemical Materials  
 Laboratory Safety  
 Pesticides Organized Crime  
 Security of Radioactive Materials  
 Chemical Waste  
 Illicit Trafficking Chemical Attack  
 Biological Attack  
 Radioactive Waste Cyber Security  
 Strategic Trade Control  
 Dirty Bomb Transportation of CBRN Materials  
 Biological Waste  
 New Technologies  
 Humans - Animals - Plants  
 Industrial Accidents Theft of Radioactive Sources  
 Infectious Diseases  
 Lost Radioactive Source  
 Port Security Legal Framework  
 Agro-terrorism  
 Drone Attack Port Explosion  
 Contaminated Scrap Metal  
 Terrorism  
 AfCFTA  
 Natural Disaster  
 Theft of Biological Materials  
 River Pollution  
 Food Contamination  
 Border Detection  
 CBRN Disinformation



# CBRN RISK MITIGATION IN WHAT CONTEXT DO WE WORK?

- There is a diverse spectrum of chemical, biological, radiological and nuclear (CBRN) risks and incidents
- Government bodies are each only mandated for a (small) part of the spectrum
- CBRN risks cannot be addressed in isolation (neither institutionally nor geographically)
- In recognition of the cross-border implications of CBRN risks, governments have signed up to regional and international agreements with obligations to meet
- Resources are limited...

**... how to manage, prepare and coordinate in such a context?**



# EUROPEAN UNION CBRN RISK MITIGATION

## CENTRES OF EXCELLENCE INITIATIVE (EU CBRN CoE)

**EU-funded initiative** to mitigate the risks related to CBRN materials. Launched in 2010 and jointly implemented by the European Union and the United Nations Interregional Crime and Justice Research Institute (UNICRI).

**Creates a framework for coordination and cooperation at the national, regional and international level** to enhance CBRN policies and capabilities. The EU funds projects that address common regional priorities.

### **All-hazards approach (safety *and* security):**

- **criminal** (e.g. theft, sabotage, illicit trafficking and terrorism)
- **accidental** (e.g. industrial / laboratory accidents, waste management, transport incidents)
- **natural** (e.g. infectious disease outbreaks, CBRN releases caused by natural hazards)

# 8 REGIONAL SECRETARIATS



## South East and Eastern Europe

- Albania
- Armenia
- Azerbaijan
- Bosnia and Herzegovina
- Georgia
- Moldova
- Montenegro
- North Macedonia
- Serbia
- Ukraine

## Middle East

- Iraq
- Jordan
- Lebanon

## Central Asia

- Afghanistan
- Kazakhstan
- Kyrgyzstan
- Pakistan
- Mongolia
- Tajikistan
- Uzbekistan

## Southeast Asia

- Brunei Darussalam
- Cambodia
- Indonesia
- Lao PDR
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Viet Nam

## African Atlantic Façade

- Benin
- Cameroon
- Côte d'Ivoire
- Gabon
- Liberia
- Mauritania
- Morocco
- Senegal
- Sierra Leone
- Togo

## North Africa and Sahel

- Algeria
- Burkina Faso
- Libya
- Mali
- Morocco
- Niger
- Nigeria
- Tunisia

## Gulf Cooperation Council

- Bahrain
- Kuwait
- Oman
- Qatar
- Saudi Arabia
- UAE

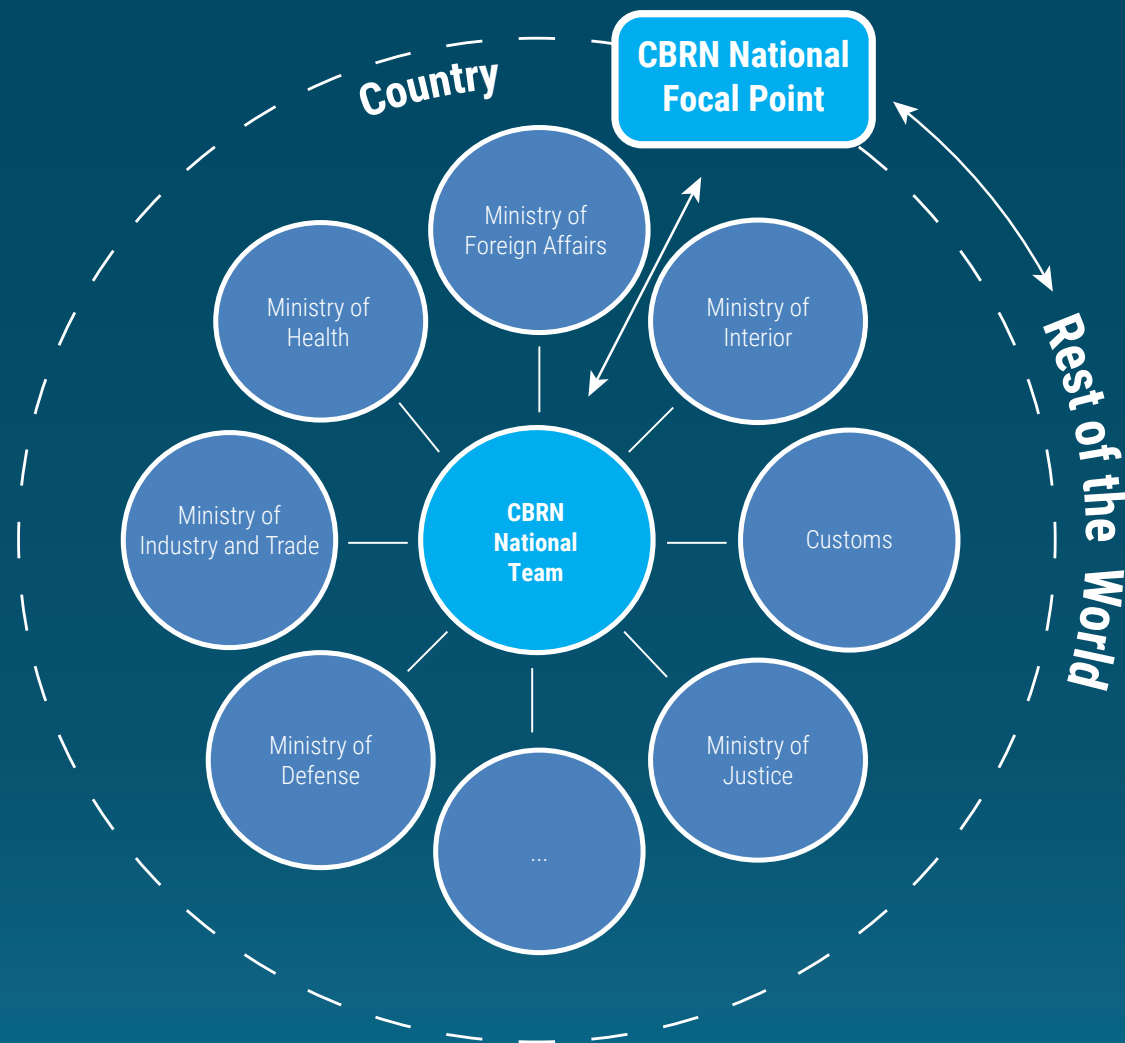
## Eastern and Central Africa

- Burundi
- DRC
- Ethiopia
- Ghana
- Kenya
- Malawi
- Rwanda
- Seychelles
- Tanzania
- Uganda
- Zambia





# 64 PARTNER COUNTRIES



## THE EU CBRN CoE APPROACH

1

### Establish a CBRN National Team

- Partner Countries appoint a focal point and establish an inter-agency CBRN National Team comprised of representatives from all government bodies addressing CBRN risks

2

### Draft a CBRN National Action Plan (NAP)

- Partner Countries produce an action plan identifying national priorities for capacity building

3

### Develop (regional) project proposals

- Partner Countries develop regional projects that are designed to address common regional needs. National projects are also developed, based on the CBRN National Action Plan

4

### Share experiences in the region and beyond

- Partner Countries share experience and engage with regional and international partners

# EU CBRN CoE Regional Secretariats

## STRUCTURE

- Head of Secretariat
- Deputy Head of Secretariat
- Regional Coordinator
- CBRN On-Site Technical Assistance Expert
- EU Programme Manager



## OBJECTIVES

1

Support the establishment and institutionalisation of inter-agency CBRN National Teams.

2

Support Partner Countries in the development of CBRN National Action Plans.

3

Facilitate exchange of experience between CBRN CoE Partner Countries.

4

Support the definition of regional projects and national activities funded through CBRN CoE.

5

Enhance ownership by Partner Countries in the region.

6

Engage and coordinate with regional organisations to develop long-term collaboration.

7

Reach out to and coordinate with international organisations and donors.





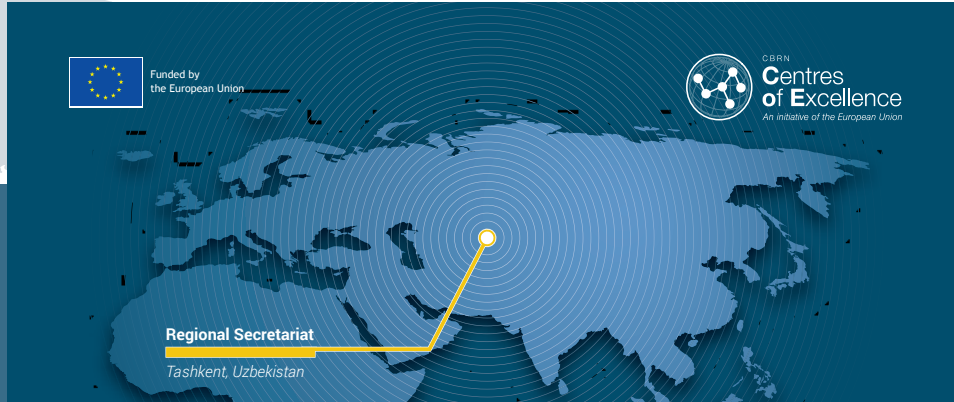
## African EU CBRN CoE Regional Secretariats

### Regional Priorities

- Safe transportation of chemical and biological materials
- Management of chemical and biological waste
- Illicit trafficking of Radiological and Nuclear materials
- Enhancing CBRN Legislative Framework
- CBRN Risk assessment
- Food Safety and Security

### African EU CBRN CoE Partner Countries

Algeria	Ethiopia	Mali	Seychelles
Benin	Gabon	Mauritania	Sierra Leone
Burkina Faso	Ghana	Morocco	Tanzania
Burundi	Kenya	Niger	Togo
Cameroon	Liberia	Nigeria	Tunisia
Côte D'Ivoire	Lybia	Rwanda	Uganda
DR Congo	Malawi	Senegal	Zambia



## Central Asia Regional Secretariat

### Regional Priorities

- Enhancing CBRN Legislative Framework
- Border Control for CBRN Safety and Security
- Strategic Trade Control of Dual Use Goods
- Zoonotic Diseases Risk Mitigation
- CBRN Infrastructure Protection and Security
- CBRN Forensics
- CBRN Safety and Security during Mass Gatherings
- CBRN Public Awareness
- Collaboration in Training

### Partner Countries





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Ministry of Interior

Abu Dhabi, United Arab Emirates

## Gulf Cooperation Council Regional Secretariat

### Regional Priorities



Border control and security



Biosafety



Chemical safety and security



CBRN Medical Preparedness



Cross-Border



### Partner Countries



Kingdom of Bahrain



Kingdom of Saudi Arabia



The State of Kuwait



The State of Qatar



The Sultanate of Oman



United Arab Emirates



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CBRN Centres of Excellence  
An Initiative of the European Union

Middle East Scientific Institute for Security

Amman, Jordan

## Middle East Regional Secretariat

### Regional Priorities



Protection of Critical Infrastructures



CBRN Forensics



CBRN Waste Management



Hazardous Materials Transportation



Human Resources Development in CBRN Risk Mitigation and Resources Mobilization



Enhance Capabilities of Haz.Mat and CBRN National Teams



### Partner Countries



The Hashemite Kingdom of Jordan



The Republic of Iraq



The Republic of Lebanon



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Office of the President of the Philippines  
Manila, Philippines

### Southeast Asia Regional Secretariat

#### Partner Countries



- Biosafety and Biosecurity
- Field Exercises to test and validate Partner Countries' capabilities.
- CBRN Medical Preparedness
- Legal framework
- Chemical Security and Safety.
- CBRN waste management



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Regional Secretariat  
Tbilisi, Georgia

### South East and Eastern Europe Regional Secretariat

#### Regional Priorities

- CBRN risk assessment
- CBRN capacity building
- Biosafety & Biosecurity
- CBRN Infrastructure Protection and Security
- Enhance border control of CBRN materials
- CBRN national legislation
- Food Safety and Defense
- CBRN Forensics Capabilities
- Transport safety and security of CBRN materials
- Strategic Trade Control of Dual Use Goods
- CBRN public awareness

#### Partner Countries



## CA

**17 projects** have been implemented in the region, of which **3 projects are ongoing**

### Project P87

Preparedness and Response for Mass Gatherings and other Health Threats in Central Asia.

**Budget: €3.5M**

### Project 105

EU P2P Export Control Programme for dual-use goods - Central Asia

**Budget: €2.2M**

### Project P101

Enhance of CBRN Critical Infrastructure Protection and Security in SEEE and CA regions

**Budget: €7.5M**

## SEEE

**30 projects** have been implemented in the region, of which **3 projects are ongoing**

### Project P88

Strengthening of CBRN Medical Preparedness and Response Capabilities in SEEE countries CBRN CoE.

**Budget: €5.4M**

### Project P100

Strengthening of Front Line Biosafety and Biosecurity Measures in SEEE Region

**Budget: €2M**

### Project P101

Enhance of CBRN Critical Infrastructure Protection and Security in SEEE and CA regions

**Budget: €7.5M**

## GCC

**7 projects** have been implemented in the region, of which **2 projects are ongoing**



### Project P82

Capacity Building for Medical Preparedness and Response to CBRN Incidents in the GCC countries

**Budget: €150,000**

### Project P89

EU P2P Export Control Programme for Dual-use Goods - Middle East

**Budget: €2M**

## MIE

**26 projects** implemented in the region, of which **3 projects are ongoing**

### Project P73

Protection of Critical Infrastructures.

**Budget: €3M**



### Project P97

Improvement of Chemical Safety and Security in the Middle East.

**Budget: €2M**

### Project P89

EU P2P Export Control Programme for Dual-use Goods - Middle East

**Budget: €2M**

### Project P85 - LABPLUS AFRICA

Strengthening Laboratory Capacities in Africa against CoVID-19 and other epidemics

**Budget: €10M**

### Project P92 - MediLabSecure phase II

Preventing biological risks increased by environmental and climate change

**Budget: €3.2M**

### Project P93 - STRONGLABS 2.0

Reducing biological risks by strengthening public health laboratories

**Budget: €1.2M**

### Project P103 - EU P2P

Export Control Programme for dual-use goods

**Budget: €3M**

**OVER 100 REGIONAL CAPACITY-BUILDING PROJECTS FUNDED BY THE EU**

## SEA

**28 projects** have been implemented in the region, of which **3 projects are ongoing**

### Project P81

BIOSEC - Enhanced Biosecurity in Southeast Asia.

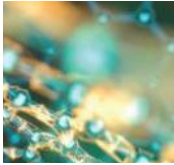
**Budget: €3.5M**



### Project P90

EU P2P Export Control Programme for Dual-use Goods in Southeast Asia.

**Budget: €2.4M**



### Project P98

Strengthening CBRN Medical Emergency Preparedness and Response in Southeast Asia

**Budget: €3.5M**



### Project P106 - CBRN TEST

Table top and field Exercises, Simulations, Training (TEST) to mitigate risks  
**Budget: €5M**

## AAF

**24 projects** have been implemented in the region, of which **2 projects are ongoing**

### Project P86 MANA

African CBRNE Master Programme

**Budget: €1.5M**



### Project P95 SAFETIC

Safe Transportation and Installations of Chemicals

**Budget: €3M**



## ECA

**11 projects** have been implemented in the region, of which **2 projects are ongoing**

### Project P99 - BIOCAP-ECA

Strengthening biosafety and biosecurity capabilities in ECA

**Budget: €3.5M**



### Project P102

Provision of specialised CBRN equipment

**Budget € 5.2M**



## NAS

**27 projects** have been implemented in the region, of which **2 projects are ongoing**

### Project P55 FRONSEC

Safety and security at borders

**Budget: € 3.5M**



### Project P91 BIOCHEM

Biological and chemical waste management

**Budget: € 3M**





## LESSONS LEARNT / SUCCESS FACTORS



- The human factor in the network makes all the difference – invest in focal points and key national experts and find ‘champions’ to mobilise support



- Developing an action plan is beneficial – first to get stakeholder buy-in and then for internal resource allocation and to engage outside partners



- Awareness-raising amongst different target groups is essential – to get support from (and for) decision-makers, implementers, beneficiaries



- Promote learning and experience-sharing between peers – bring countries together to share how they overcame challenges or had successes



# PRIORITY AREAS FOR POTENTIAL COLLABORATION

- Chemical safety and security
- Safe transportation of CBRN materials
- Management of CBRN waste
- Biosafety / Biosecurity
- CBRN Medical preparedness and response
- Management of epidemics / Zoonotic diseases risk mitigation
- Food safety and security
- CBRN National legislation
- Border control for CBRN safety and security / Dual use goods trade control
- Protection of Critical Infrastructure
- Public Awareness raising concerning CBRN hazards and threats
- CBRN safety and security during mass gatherings
- Strengthening forensics capabilities in CBRN
- Natural hazard triggered CBRN technological accidents (NaTech incidents)

# COOPERATION WITH INTERNATIONAL AND REGIONAL PARTNERS TO COLLECTIVELY MITIGATE CROSS-CUTTING GLOBAL RISKS



Among many others.



# UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS (SDGs)

**16** PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS



- Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

**3** GOOD HEALTH  
AND WELL-BEING



- Ensure healthy lives and promote well-being for all at all ages

**6** CLEAN WATER  
AND SANITATION



- Ensure availability and sustainable management of water and sanitation for all

**4** QUALITY  
EDUCATION



- Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

**5** GENDER  
EQUALITY



- Achieve gender equality and empower all women and girls

**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



- Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



- Ensure sustainable consumption and production patterns

**13** CLIMATE  
ACTION

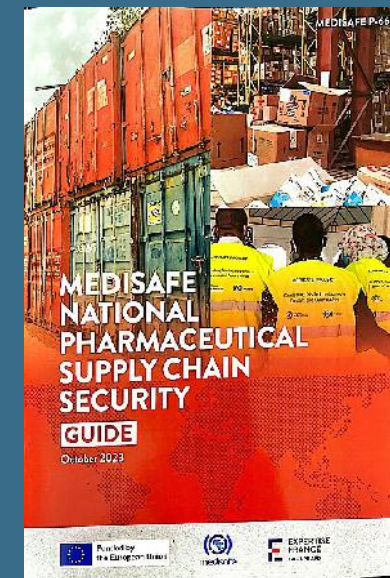
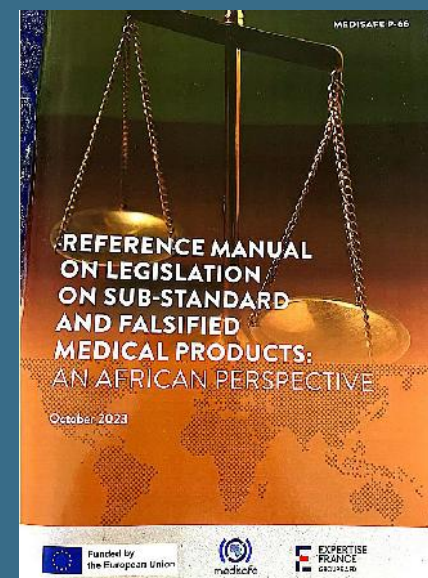
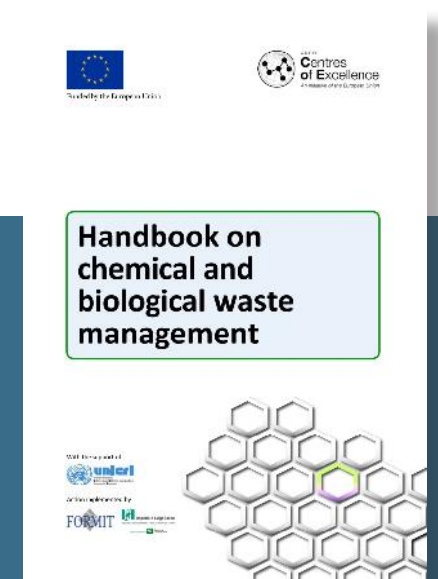
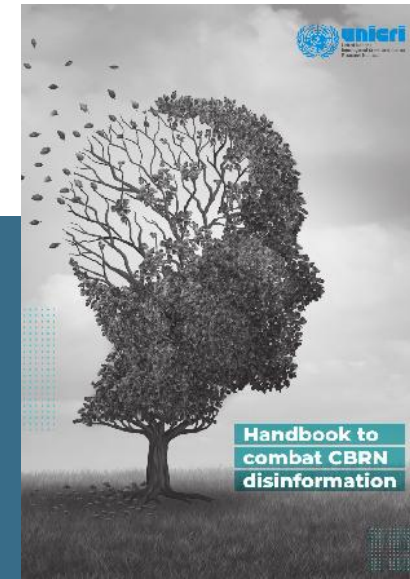
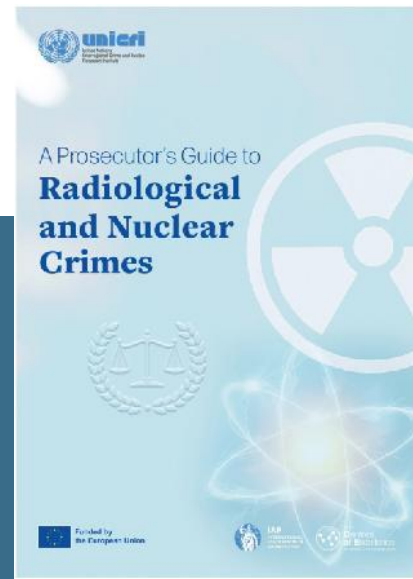
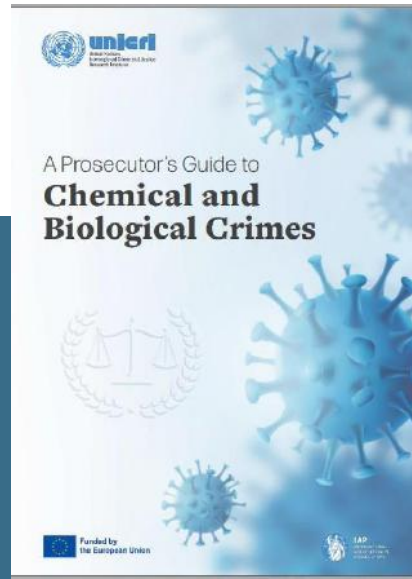
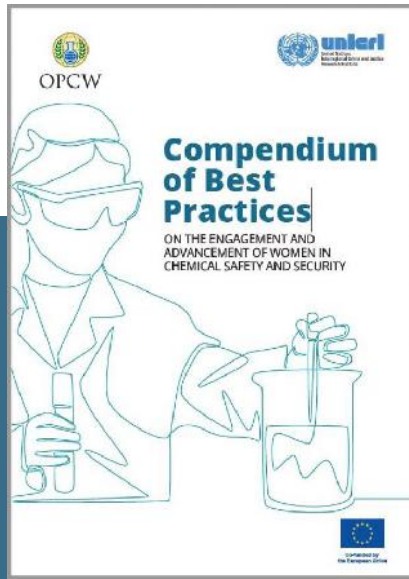


- Take urgent action to combat climate change and its impacts



## EXAMPLES OF CBRN REFERENCE GUIDES, HANDBOOKS AND MANUALS DEVELOPED THROUGH EU CBRN COE

- Compendium of best practices on the engagement and advancement of women in chemical safety and security
- Prosecutor's Guide to Chemical and Biological Crimes
- Prosecutor's Guide to Radiological and Nuclear Crimes
- Handbook to combat CBRN disinformation
- Handbook of chemical and biological waste management
- Guide to responding to a transport accident involving dangerous goods
- Guiding document on the organisation and implementation of a CBRN Counter-terrorism field exercise
- National Pharmaceutical Supply Chain Security Guide
- Reference manual on legislation on substandard and falsified medical products (SFMP) - An African Perspective





## EU CBRN Centres of Excellence

**European Commission Foreign Policy Instrument (FPI)**

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### Regional Secretariats

#### **Africa**

*African Atlantic Façade (AAF)*  
*Eastern and Central Africa (ECA)*  
*North Africa and Sahel (NAS)*  
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#### **Central Asia (CA)**

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#### **Southeast Asia (SEA)**

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#### **Gulf Cooperation Countries (GCC)**

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#### **South East and East Europe (SEEE)**

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#### **Middle East (MIE)**

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