



# INNOVATIVE APPROACHES TO AUDIT IN THE FIELD OF PREVENTION AND ELIMINATION OF THE CONSEQUENCES OF DISASTER

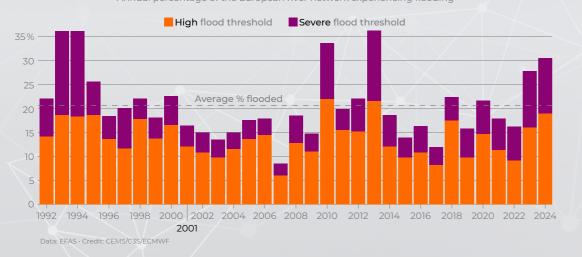
Ms Iryna Yurshevska, State Auditor, Accounting Chamber of Ukraine

### CLIMATE DATA FROM THE COPERNICUS CLIMATE CHANGE SERVICE

2024 saw the most widespread flooding since 2013, with river flows in 30% of the European river network exceeding the "high" flood threshold and 12% exceeding the "severe" flood threshold

Almost a third of the European river network experienced flooding in 2024

Annual percentage of the European river network experiencing flooding

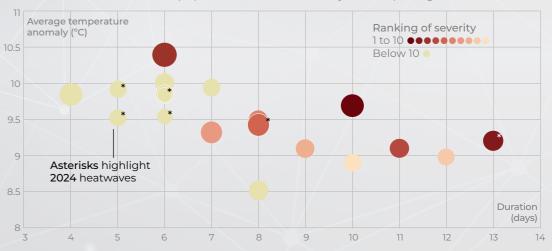


#### The Accounting Chamber Supreme Audit Institution of Ukraine

#### July 2024 saw the longest heatwave on record for southeastern Europe

#### Most severe heatwaves in southeastern Europe

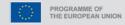
Heatwaves in southeastern Europe in 2024, alongside the 15 most severe heatwaves since 1950. The size of a circle is proportional to the area affected by the corresponding heatwave



**Heatwaves** are defined as periods when the maximum temperature exceeded the  $98^{th}$  percentile of the 1961-1990 reference period, and exceeded  $28^{\circ}$ C, for a period of three or more days. **Southeastern Europe** is defined here as  $39^{\circ}-46^{\circ}$ N,  $15^{\circ}-30^{\circ}$ E.

Data: E-OBS · Credit: DWD/C3S/ECMWF

https://climate.copernicus.eu/esotc/2024/trends-climate-indicator











## INNOVATIVE APPROACHES TO INFORMATION COLLECTION





#### SUPREME AUDIT INSTITUTION

can effectively contribute to strengthening the global capacity to respond to natural disasters





### CURRENT INITIATIVES AND PROJECTS AIMING TO ACHIEVE EUROSAI STRATEGIC GOALS





### ACTIVITIES OF THE EUROSAI WORKING GROUP

Recommendations
on best practices for audits
of Funds Allocated to Disasters
and Catastrophes



Recommendations on best practice for conducting audits in the field of flood prevention and liquidation







is a special kind of database maintained by numerous computers located around the world



### BASIC INNOVATIVE TOOLS AND APPROACHES IN AUDITS

#### **REAL TIME AUDITING**

is the auditing of actions as they occur and the publishing of findings before the audited action was completed

Real Time Audit Data

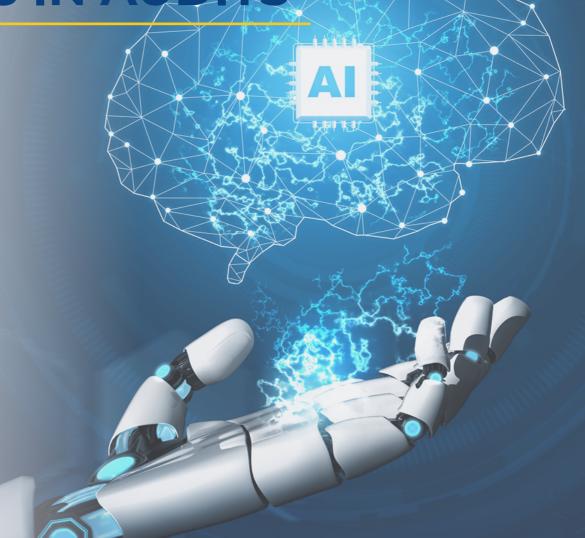
Real Time Control Monitoring

Real Time Risk Monitoring & Assessment

# BASIC INNOVATIVE TOOLS AND APPROACHES IN AUDITS

Artificial intelligence

can be used to analyze data and identify potential risks or problem areas





# BASIC INNOVATIVE TOOLS AND APPROACHES IN AUDITS

The adaptation of electronic audit accounting systems has a huge potential to improve the efficiency and accuracy of processes

The use of electronic systems helps reduce opportunities for error and fraud, providing a more accurate and reliable audit process

# BASIC INNOVATIVE TOOLS AND APPROACHES IN AUDITS

Open source intelligence,

#### OSINT\_

the concept, methodology and technology of obtaining and using financial, economic, military, political and other information from open sources





New technologies and innovations play one of main role in our collective ability to predict and therefore reduce the risk of disasters

Innovative applications can easily visualize/simulate the effects of a dam breach and resulting flooding or the likely speed and direction of a wildfire under current meteorological conditions

Satellite images of the Earth, collected over decades, now allow us not only to monitor the current situation in any part of the world, but also to compare data and analyze long-term trends

#### Disasters — a test of Global humanity

They define who we are, and how we respond to them shows our strength and cohesion



Together against disasters:

auditing that saves lives and restores the future







#### THANK YOU FOR ATTENTION!



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