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IPA DRAM

DISASTER RISK ASSESSMENT AND MAPPING IN THE WESTERN BALKANS AND TURKEY

DPPI Regional Meeting

Tirana

17 April 2019



Swedish Civil
Contingencies
Agency

ADMINISTRATION



FOR CIVIL PROTECTION
AND DISASTER RELIEF



PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile



duzs
DRŽAVNA UPRAVA ZA
ZAŠTITU I SPASAVANJE



PURPOSE AND EXPECTED RESULTS

Purpose: *To improve effective, coherent and EU oriented national systems for disaster loss data collection, risk assessment and mapping, and alignment and integration into the Union Civil Protection Mechanism.*

Results:

1. Disaster loss data collection
2. Risk assessment
3. Risk mapping and Electronic regional risk atlas (ERRA)



Connection with DPPI

- Sustainability of Programme Results
- IPA DRAM- DPPI Regional Meeting
 1. hazard-specific regional working groups
 2. capacity Development at the organizational and systemic levels, Regional pool of Experts
 3. Electronic Regional Risk Atlas (ERRA), Desinventar/Sendai and the South Eastern Europe Knowledge Management System (SEE KMS).



Disaster Risk Information

- Electronic Regional Risk Atlas
- Disaster Loss Data collection systems/DesInventar Sendai
- seeKMS



Policies

- Sendai and SDGs
- Union Civil protection mechanism (EU)- Risk assessment
- Guidelines
 - JRC Guidelines For Recording and Sharing Disaster Loss Data (April, 2015)
 - National Disaster Risk Assessment (UNISDR, 2017)
 - Risk Identification- Risk assessment and mapping guidelines for disaster management (Dec. 2010)



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What is ERRA?



The Risk Equation

Hazard **E**xposure

$$R = H \times V \times E / C$$

Risk **V**ulnerability **C**apacity

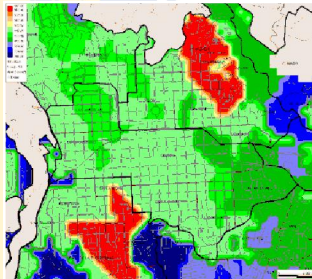
The underlying concept: risk

$$R = (H \times E \times V)$$

Risk =

=

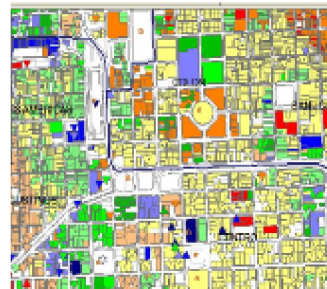
HAZARD



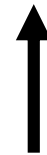
Expected occurrence of different intensities of events for a specific area



EXPOSURE

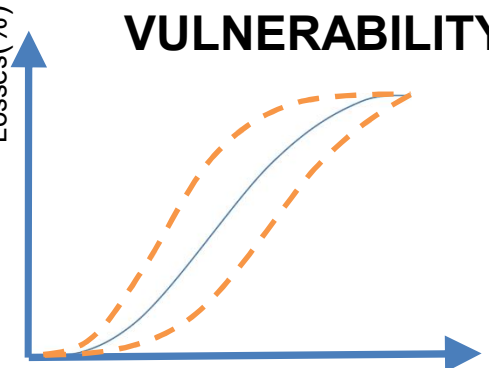


Persons and assets present in the hazard zone



Losses (%)

VULNERABILITY



Intensity of the hazards (e.g.): height of floods or velocity

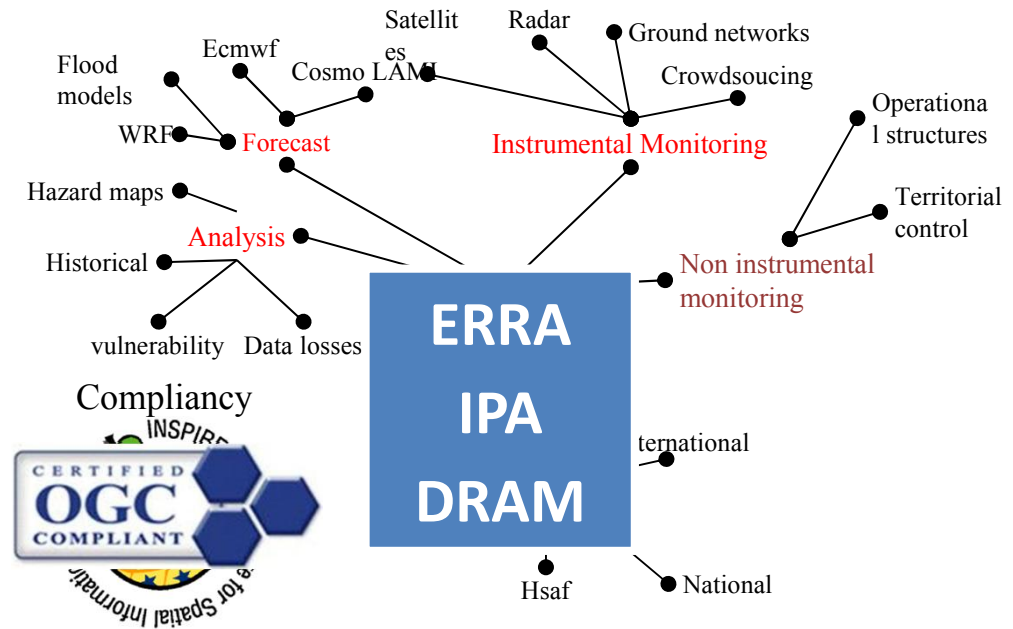
Index (0-1) or percentage of the potential losses resulting from different physical, social, economic and environmental factors.





Multiple-sources of data and products

- Data are spread into several local, regional, national and international organization
- ERRA: collection, harmonization and dissemination of data and information from multiple-sources





What is ERRA?

- Web-GIS online system, myDEWETRA
- organize disaster risk information in homogeneous form from multiple sources
- Improve the accessibility and comparability of disaster risk information for decision makers
- Collect existing information on Exposure and Hazards at National Level (on-going activity)
- Support the preparation of risk scenario (real-time and for planning)
- Ready to include EWS

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ERRA Access

myDEWETRA

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IPADRAM

LOGIN Guest

DISASTER RISK ASSESSMENT AND MAPPING IN THE WESTERN BALKANS AND TURKEY

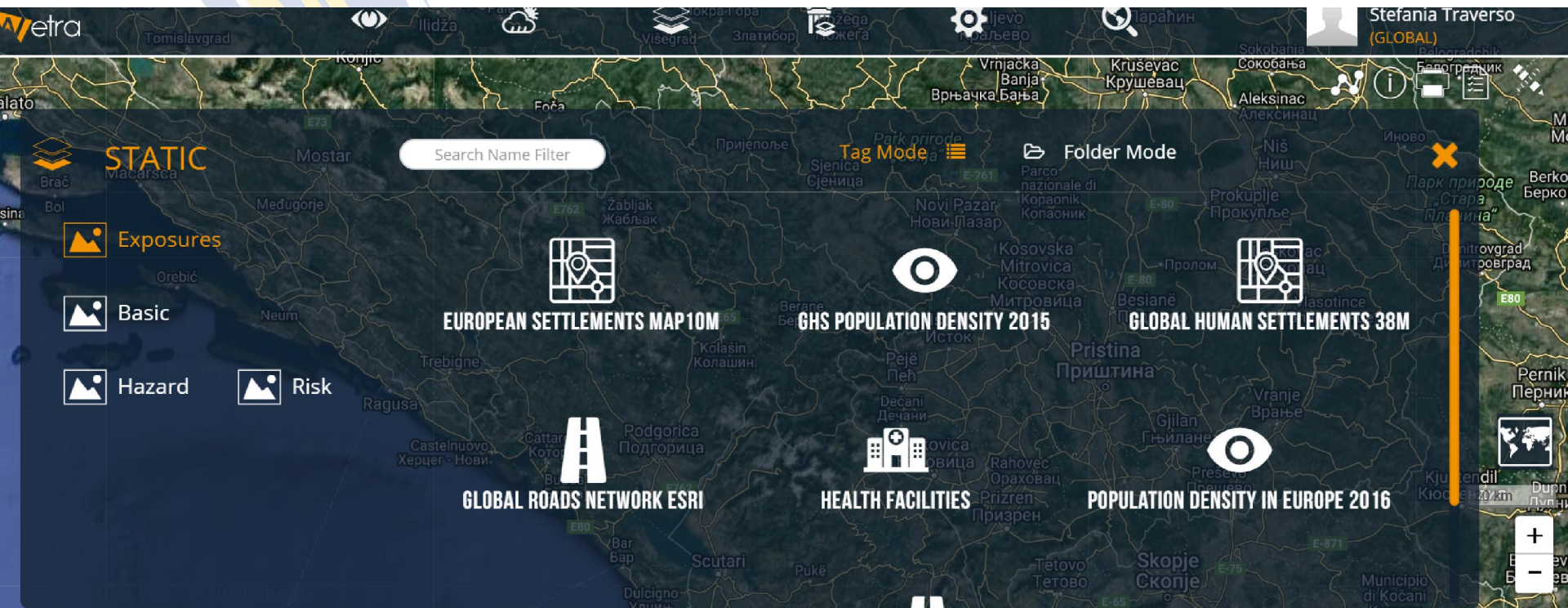


DATA ARE ORGANIZED AND COMPARABLE

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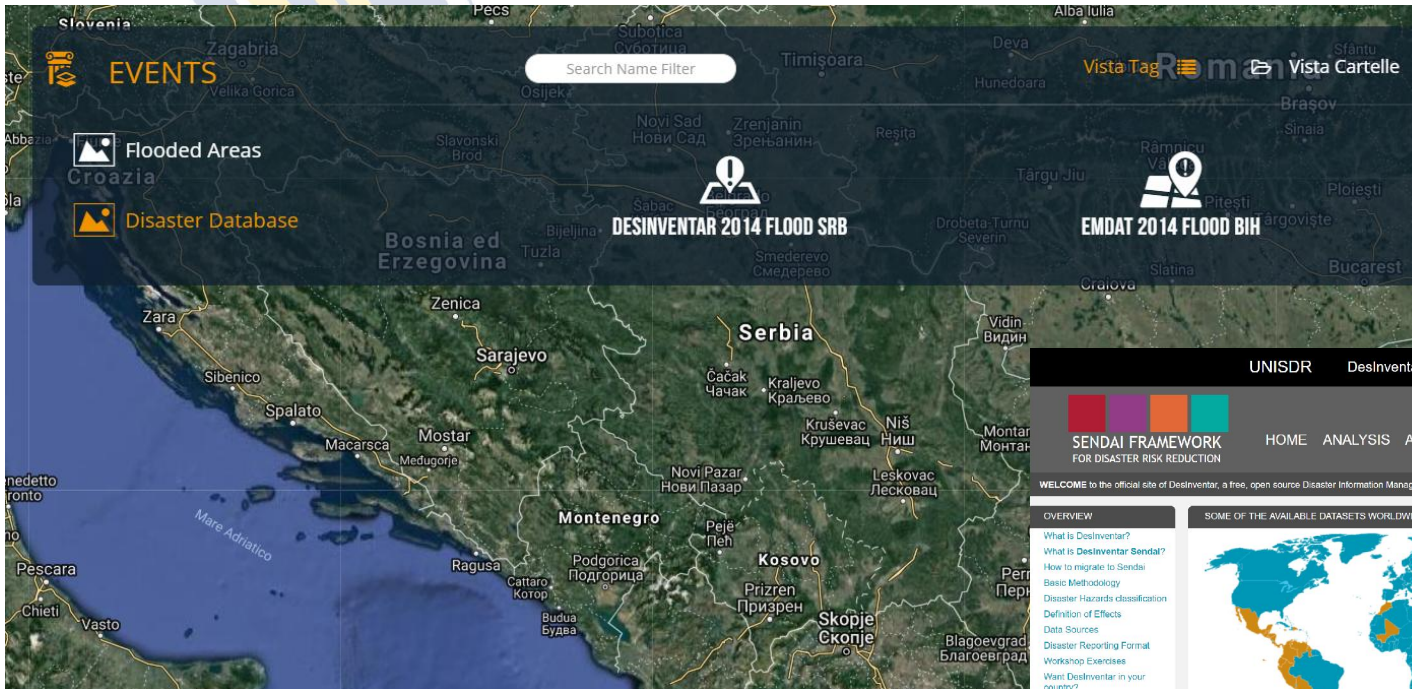


DATA OF HISTORICAL DISASTERS CAN BE VIEWED AND OVERLAPPED TO OTHER MAPS

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UNISDR DesInventar Sendai

SENDI FRAMEWORK
FOR DISASTER RISK REDUCTION

HOME ANALYSIS ADMINISTRATION ABOUT CONTACT DOWNLOAD

WELCOME to the official site of DesInventar, a free, open source Disaster Information Management System

OVERVIEW

- What is DesInventar?
- What is DesInventar Sendai?
- How to migrate to Sendai
- Basic Methodology
- Disaster Hazards classification
- Definition of Effects
- Data Sources
- Disaster Reporting Format
- Workshop Exercises
- Want DesInventar in your country?

Disaster type definitions

- Cyclones
- Tornado
- Storm/Gale
- Extreme Rain
- Lightning/Electrical Storm
- Hailstorm
- Snowstorm
- Cold Wave
- Frost
- Flood
- Urban flood
- Fleish flood
- Other (Specify)

SOME OF THE AVAILABLE DATASETS WORLDWIDE

Americas	Asia Pacific	Africa
Argentina	India (Orissa)	Angola
Bolivia	India (Tamil Nadu)	Guinea
Chile	India (Uttar Pradesh)	Egypt
Colombia	India (Mizoram)	Ethiopia
Costa Rica	Indonesia	Ecuador/El Guine
Ecuador	Iran	Ethiopia
El Salvador	Jordan	Gambia
Guatemala	Laos	Guinea
Guyana	Lebanon	Kenya
Honduras	Madagascar	Madagascar
Jamaica	Nepal	Mali
Mexico	Philippines	Morocco

DOCUMENTATION

- Executive Summary
- Tutorial
- Interactive Help
- Preliminary Analysis
- Analysis Module - User Manual
- Admin Module - User Manual
- Installation Guide
- Full list - Other languages

Recent Publications

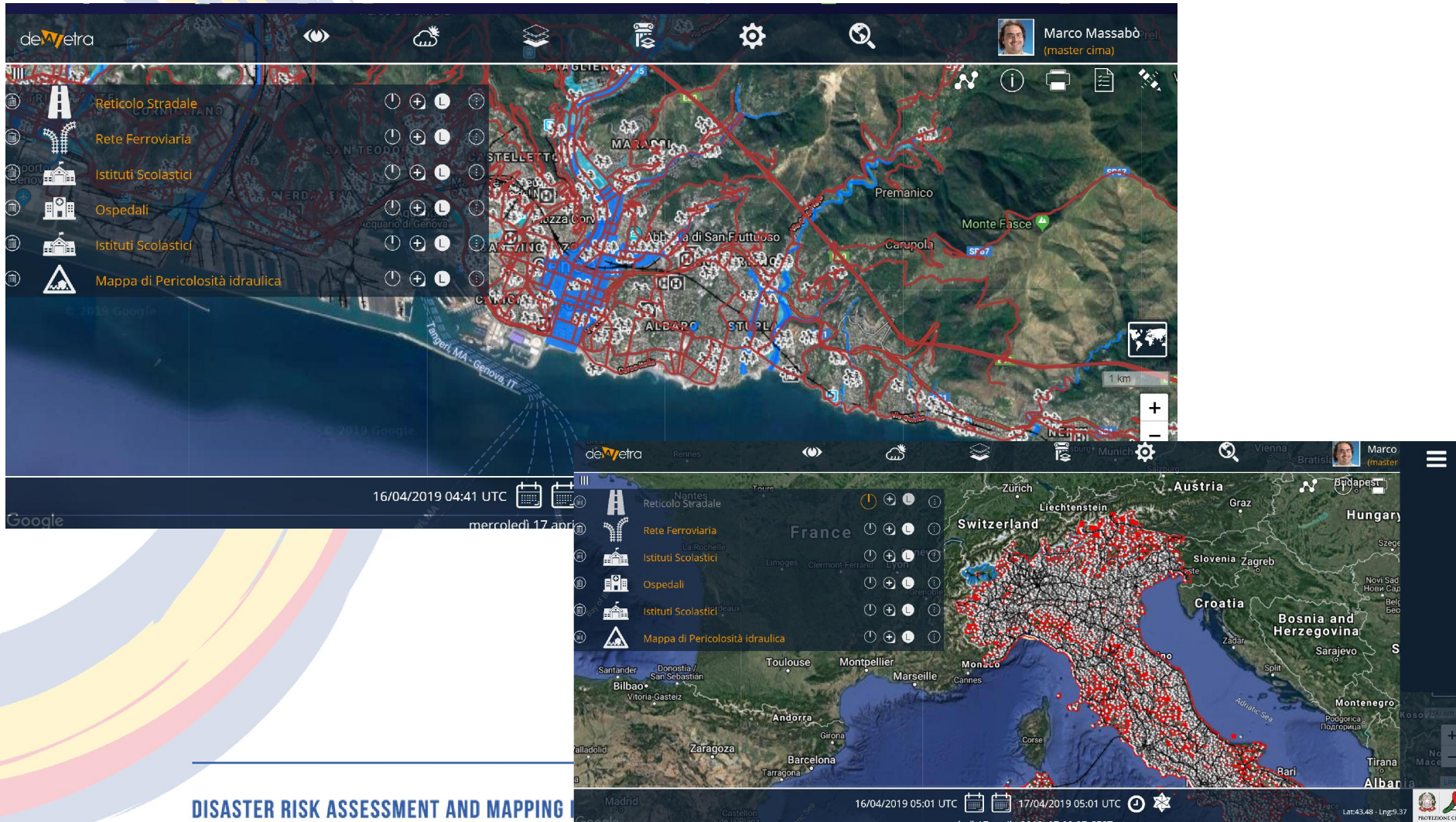
- Global Assessment Report 2013
- Global Assessment Report 2011
- Global Assessment Report 2009
- Sri Lanka National Report on Disaster Risk
- Viet Nam Flood and

An Example

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Tool Scenario

deVetra

MULTEDO

Reticolo Stradale

Rete Ferroviaria

Istituti Scolastici

Ospedali

Istituti Scolastici

Mappa di Pericolosità idraulica

Risk Scenario

Add other Layers

Census Tracts

Urban Areas

Hospitals

Public Schools

High-risk Industries

Social and Health Facilities

Go

Draw a new AOI

16/04/2019 04:46 UTC

17/04/2019 04:46 UTC

mercoledì 17 aprile 2019, 06:49:32 CEST

Lat:44.43 - Lng:8.86

PROTEZIONE CIVILE



Plan

- Collection of geospatial data from Partners, Population of ERRA system
- First ERRA release in June
- ERRA Training Workshop on 10th-12th June 2019 -> possibilities to extend to some DPPI partners

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What is seeKMS?

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**Building Resilience to Disasters in
Western Balkans and Turkey**

INFORMATION AND KNOWLEDGE MANAGEMENT SYSTEM FOR DRR & CCA IN WESTERN BALKANS AND TURKEY



see.KMS
BUILDING RESILIENCE TO DISASTERS IN THE WESTERN BALKANS AND TURKEY

Core elements seeKMS

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- Hosted and managed by DPPI
- Contains documents, multimedia, capacity building opportunities, news, maps and data
- Multi-criteria search engine
- Multi-language for intensify the usage of end users
- Compatible and interoperable with Preventionweb
- Documented:
 - User guides for uploading and tagging of documents
 - Multilanguage dissemination material

see.KMS
Sistem za Upravljanje Informacijama i Znanjem u Svrhu Smanjenja Rizika od Katastrofa i Prilagodavanja Klimatskim Promjenama na Području Zapadnog Balkana i Turske

SEEKMS: SISTEM UPRAVLJANJA INFORMACIJAMA I ZNANJEM U SVRHU SMANJENJA RIZIKA OD KATASTROFA I PRILAGODAVANJA KLIMATSKIM PROMJENAMA NA PODRUČJU ZAPADNOG BALKANA I TURSKJE

Razmjena znanja je suštinski dio aktivnosti koje se poduzimaju u oblasti efikasnog upravljanja rizicima od katastrofa i prilagodavanja klimatskim promjenama. Zasniva se na neometanom protoku informacija sa lokalnog na državni i međunarodni nivo i predstavlja zajedničku platformu koja osigurava integraciju između različitih nacionalnih jezika.

seeKMS – kroz svoj višezječni interfece za područje Zapadnog Balkana i Turske omogućava razmjenu znanja i informacija korištenjem nacionalnih jezika između različitih institucionalnih nivoa i subjekata. Rezultat je snažniji efekat i korištenje znanja u okviru inicijative Upravljanje rizicima od katastrofa i prilagodavanje klimatskim promjenama za područje Zapadnog Balkana i Turske.

SADRŽAJ SEEKMS-A

PROFILI DRŽAVA
IZGRADNJA KAPACITETA (AKTIVNI I TEKUĆI PROJEKTI, PROFESIONALNA OBUKA, AKADEMSKI PROGRAMI, OBRAZOVNE INICIJATIVE, RADIONICE, ITD.)
PROFILI ORGANIZACIJA
DOKUMENTI (POLITIKA, PLAN, IZVJEŠTAJI, PUBLIKACIJE, ZAKONSKI AKTI)
PODACI, MAPE I STATISTIKA
NOVOSTI, POSAO I MULTIMEDIA

Podijelite s nama i vašim kolegama sadržaje koje posjedujete, kao što su dokumenti, projekti, prilike za obuku, video sadržaji i dajte svoj doprinos razvoju seeKMS-a.

Vaš sadržaj možete poslati na seekms@dppi.info ili putem linka "podijeli svoj sadržaj" na adresi

www.seekms.dppi.info

Logos: European Union, UNISDR, Building Resilience to Disasters in the Western Balkans and Turkey, DPPI, CIMC

20141014_Agenda_final_meeting

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English Albanian Bosnian Hrvatski Macedonian Serbian Turkish



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HOME COUNTRIES ACTIVITIES & STAKEHOLDERS DISASTER RISK REDUCTION CLIMATE CHANGE ADAPTATION HAZARDS RESOURCES & TOOLS



News Multimedia Documents

- Ask an expert session on prevention web
August 8, 2014
- Increasing collaboration between Fermo Civil Protection and Albanian Volunteer Center for Civil Emer...
July 24, 2014
- Flood victims refuge in Belgrade stadium
May 27, 2014
- Berola: (Krupanj) devastated by flood damage
May 27, 2014

View all news

Multimedia



see.KMS is a project of the UN Office
for Disaster Risk Reduction (UNISDR)
hosted by OPRP SEE



Share Your Content

Last DRR and OCA publication

- Law on Customs Policy
Publication date: December 2, 2004
- Law on the Red Cross Association of Bosnia and Herzegovina
Publication date: November 3, 2004
- Law on Defence of Bosnia and Herzegovina
Publication date: January 1, 2003
- Law on ministries and other administrative bodies of Bosnia and Herzegovina
Publication date: February 13, 2002



GVR
Global Assessment Report
on Disaster Risk Reduction



www.seekms.dppi.info

home page

DISASTER RISK ASSESSMENT AND MAPPING

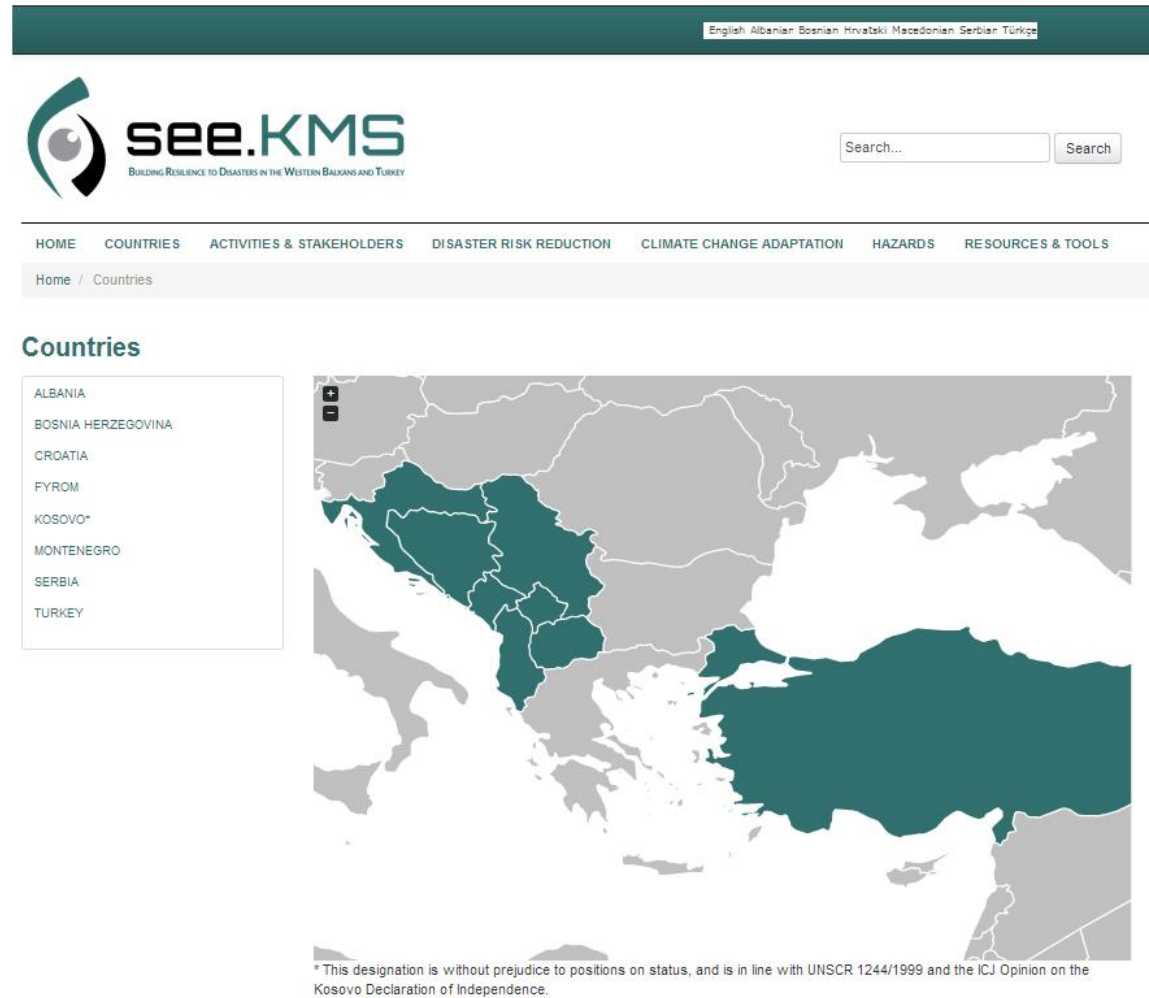
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Country and territories Profiles

- institutional and Legal Framework
- International Cooperation
- National Platform



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see.KMS
BUILDING RESILIENCE TO DISASTERS IN THE WESTERN BALKANS AND TURKEY

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Home / Countries

Countries

- ALBANIA
- BOSNIA HERZEGOVINA
- CROATIA
- FYROM
- KOSOVO*
- MONTENEGRO
- SERBIA
- TURKEY

* This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo Declaration of Independence.



Activities and Stakeholders

English Albanian Bosnian Hrvatski Macedonian Serbian Türkçe



HOME COUNTRIES ACTIVITIES & STAKEHOLDERS DISASTER RISK REDUCTION CLIMATE CHANGE ADAPTATION HAZARDS RESOURCES & TOOLS

Home / Activities & Stakeholders

PROJECTS



ORG'S PROFILE



TRAINING & WORKSHOPS



EDUCATIONAL INITIATIVES



COUNTRIES	ACTIVITIES & STAKEHOLDERS	DISASTER RISK REDUCTION	CLIMATE CHANGE ADAPTATION
<ul style="list-style-type: none">AlbaniaBosnia HerzegovinaCroatiaFYROMKosovo*MontenegroSerbiaTurkey	<ul style="list-style-type: none">Project & ActivitiesOrg's profileTraining & WorkshopsEducational Initiatives	<ul style="list-style-type: none">DRR Policy, Plan and LegislationBest Practices, Methodologies & GuidelinesCommunity Based DRR & Social ResilienceRisk Identification Assessment	<ul style="list-style-type: none">Polices & StrategiesData & IndicatorsPublicationsORG's Working on CCA

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Search and access to Information: Training & Workshops

Search engine

Training & Workshops



Access to Information



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HOME COUNTRIES ACTIVITIES & STAKEHOLDERS DISASTER RISK REDUCTION CLIMATE CHANGE ADAPTATION HAZARDS RESOURCES & TOOLS

Home / CB opportunity / Local Flood Risk Assessments in Montenegro

Local Flood Risk Assessments in Montenegro



Description English Description

The Objectives of the workshop are two
 1) Provide concrete advice and suggest measures for improving the national legislation- bylaws on the methodology for risk assessments and the methodology for the development of the preparedness plans- in line with the best international practices, UN and EU standards.
 2) Review the ongoing process of local flood risk assessments and suggest concrete measures for improving the process and ensuring its compliance with the above mentioned standards.

Date: 24/08/2011 CB Type: Workshop Country: Montenegro
 Location: Kolasin, Montenegro
 Main organizer: UNDP Montenegro, Ministry of Interior of Montenegro, SEE RDRMP, GRIP, UNDP
 Other organizer:
 Additional Information: <http://www.gripweb.org/gripweb/?q=events/review-workshop-local-flood-risk-assessments-montenegro>

CB opportunities

CB opportunities

Country: Choose one or more..

Hazard: Choose one or more..

Theme: Choose one or more..

Language: Choose one or more..

Professional training

Workshop

Submit

Results

Show 10 entries

Search:

Title	Date
Technical Training on Disaster Risk Assessment for UNCT	May 16, 2014
Using GIS and other computer simulation tools for Planning Rescue and protection operations	May 12, 2014
DRR Training of Trainers course	May 12, 2014
Floods Risk Assessment at the Local Level and The Role of System 112 in the context of DRR through DRM	May 12, 2014
Basic Hot Fire Training	May 12, 2014

COUNTRIES ACTIVITIES & STAKEHOLDERS DISASTER RISK REDUCTION CLIMATE CHANGE ADAPTATION

- COUNTRIES**
 - Albania
 - Bosnia Herzegovina
 - Croatia
 - FYROM
 - Kosovo*
 - Montenegro
 - Serbia
 - Turkey
- ACTIVITIES & STAKEHOLDERS**
 - Project & Activities
 - Org's profile
 - Training & Workshops
 - Educational Initiatives
- DISASTER RISK REDUCTION**
 - DRR Policy, Plan and Legislation
 - Best Practices, Methodologies & Guidelines
 - Community Based DRR & Social Resilience
 - Risk Identification Assessment
- CLIMATE CHANGE ADAPTATION**
 - Policies & Strategies
 - Data & Indicators
 - Publications
 - ORG'S Working on CCA

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DRR Themes

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Home / Disaster Risk Reduction

Disaster Risk Reduction

The concept and practice of reducing disaster risks through systematic efforts to analyse and manage the causal factors of disasters, including through reduced exposure to hazards, lessened vulnerability of people and property, wise management of land and the environment, and improved preparedness for adverse events.

Comment: A comprehensive approach to reduce disaster risks is set out in the United Nations-endorsed Hyogo Framework for Action, adopted in 2005, whose expected outcome is "The substantial reduction of disaster losses, in lives and the social, economic and environmental assets of communities and countries." The International Strategy for Disaster Reduction (ISDR) system provides a vehicle for cooperation among Governments, organisations and civil society actors to assist in the implementation of the Framework. Note that while the term "disaster reduction" is sometimes used, the term "disaster risk reduction" provides a better recognition of the ongoing nature of disaster risks and the ongoing potential to reduce these risks. (definition by UN/ISDR – UN Office for DRR, 16 January 2009).

TECHNOLOGIES FOR DRR DRR POLICY, PLAN AND LEGISLATION BEST PRACTICES, METHODOLOGIES & GUIDELINES CAPACITY DEVELOPMENT COMMUNITY BASED DRR & SOCIAL RESILIENCE DISASTER RISK & RISK TRANSFER LAND USE PLANNING DISASTER RECOVERY MEDIA & ADVOCACY	PUBLIC AND PRIVATE PARTNERSHIPS RISK IDENTIFICATION ASSESSMENT SPACE TECHNOLOGY DISASTER LOSS ACCOUNTING DISASTER PREPAREDNESS EARLY WARNING SYSTEMS PUBLICATIONS ORG'S WORKING IN DRR
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Home / Disaster Risk Reduction / Disaster Recovery

DISASTER RECOVERY

UN/ISDR – UN Office for DRR [16 January 2009]

Definition:

The restoration, and improvement where appropriate, of facilities, livelihoods and living conditions of disaster-affected communities, including efforts to reduce disaster risk factors. Comment: The recovery task of rehabilitation and reconstruction begins soon after the emergency phase has ended, and should be based on pre-existing strategies and policies that facilitate clear institutional responsibilities for recovery action and enable public participation. Recovery programmes, coupled with the heightened public awareness and engagement after a disaster, afford a valuable opportunity to develop and implement disaster risk reduction measures and to apply the "build back better" principle.

Find more on Disaster Recovery

MULTIMEDIA <ul style="list-style-type: none"> • Slovene, floods of 20/9/2012 March 20, 2014 • Slovene, floods of 20 September 2012 January 23, 2014 <p>View all Multimedia</p>	DATA AND MAPS <ul style="list-style-type: none"> • Flood situation in Serbia-DRR and UCRW assistance May 27, 2014 • Map of flood situation on 2/12/2012 in the municipality of Melkovic April 15, 2014 <p>View all Data and Maps</p>	CB OPPORTUNITIES <ul style="list-style-type: none"> • Using GIS and other computer simulation tools for Planning Rescue and protection operations May 12, 2014 • Mass Evacuation and Sheltering of the Emergency Affected Population May 12, 2014 <p>View all CB Opportunities</p>
PROJECTS AND ACTIVITIES <ul style="list-style-type: none"> • Macedonian Network "Climate Resilient" August 11, 2014 • Protection and rescue from floods April 29, 2014 <p>View all Projects and Activities</p>	DOCUMENTS <ul style="list-style-type: none"> • Law on the Red Cross Association of Serbia and Montenegro August 19, 2014 • Sistem integriranog upravljanja u emergency August 19, 2014 <p>View all Documents</p>	ORG'S WORKING <ul style="list-style-type: none"> • General Directorate of Civil Emergencies April 11, 2014 • Protection and Rescue Directorate April 11, 2014 <p>View all Org's Working</p>



Next steps

- Update the content of see.KMS
- update see.KMS IT system
 - graphical interface, guidelines and dissemination material;
 - search engine and classification of information material (keywords used for categorizing the content)
- Develop **Joint Action Plan** with DPPI how to upgrade the content of the system

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Faleminderit!

