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Knowledge **FOR** Resilient soCiEty

Presentation on Textbook 2

University of Tirana & Epoka University

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Outline of presentation

- *General Information*
- *Abstract and brief content*
- *Comments from reviewer*
- *Work plan*
- *Discussion and suggestions*





General Information

- **Title:** Disaster Risk Management in the **Western Balkans**— A comprehensive approach on **technical** and **economic** perspectives
- **Editors:**
 - *Elona Pojani - Department of Finance, University of Tirana*
 - *Julinda Keci- EPOKA University*
- **Authors:**
 - *Technical part: Epoka University; University of Novi Sad; VTSNS; University of Banja Luka*
 - *Economic part: University of Tirana*
 - *Guest authors*
- **Reviewers:**
 - *Ziline University – First review*
 - *Second review: Aalborg and Lund??*
- **Publishing:**
 - *Epoka University*
 - *E-book*





Abstract

- *Focus: The Balkans*
- *Practical approach – case studies*
- *Technical and economic perspectives in one book*
- *Concept:*
 - *Section 1: General overview on Disasters, development and risk assessment (introductory and basic concepts for disaster risk management and risk assessment)*
 - *Section 2: Technical perspective on Disaster Risk Assessment in the Balkans (in-depth analysis of risk assessment for different kind of disasters)*
 - *Section 3: Economic Perspective on Disaster Risk Management in the Balkans (economic impacts of disaster and strategies for building financial resilience)*
 - *Section 4: Concluding remarks*



Content

Chapters	Selected Topics	Authors (proposal)
Section 1: General overview on Disasters, development and risk assessment		
1. Disasters, poverty, and development		Elona Pojani - FEUT elonapojani@feut.edu.al <u>Julinda Keci</u> – EPOKA jkeci@epoka.edu.al
2. Disaster identification and analysis		<u>Branko Babic</u> – VTSNS babic_sombor@yahoo.com ; babic@vtsns.edu.rs
3. Stakeholders in DRM and decision making	Government role International organization and donors assistance Financial institutions Private sector role	<u>Dorina Koci</u> - FEUT dorinajanku@feut.edu.al <u>Mariola Kapidani</u> – FEUT mariolakapidani@feut.edu.al
4. Tools for Risk assessment and management	Risk identification Vulnerability and impact analysis Risk assessment Risk modelling Risk response	<u>Branko Babic</u> - VTSNS babic_sombor@yahoo.com ; babic@vtsns.edu.rs <u>Gordana Jakovljevic</u> - UNBL gordana.jakovljevic@aggf.unibl.org



Content...

Section 2: Technical perspective on Disaster Risk Assessment in the Balkans

1. Introduction	<u>Julinda Keci</u> – EPOKA jkeci@epoka.edu.al	
2. Flooding risk assessment	<u>Miriam Ndini</u> – Epoka mndini@epoka.edu.al <u>Slobodan Kolakovic</u> – UNS cole86grb@gmail.com	
3. Earthquake risk assessment	<u>Hüseyin Bilgin</u> - Epoka hbilgin@epoka.edu.al <u>Igor Džolev</u> – UNS igordzolev@gmail.com	
4. Fire risk assessment and modelling	Author from EPOKA/UNS? <u>Sokol Dervishi</u> – Epoka sdervishi@epoka.edu.al <u>Mirjana Laban</u> – UNS mlaban@uns.ac.rs	
5. Landslides and DRM	Assoc. prof. <u>Dr. Ylber Muceku</u> – Invited author from Polytechnic University of Tirana	
6. Risk assessment in landscape scale	<u>Artan Hysa</u> - Epoka ahysa@epoka.edu.al , <u>Egin Zeka</u> – Epoka ezeka@eepoka.edu.al	
7. Multi-hazard risk assessment	<u>Julinda Keci</u> – Epoka jkeci@epoka.edu.al	



Flooding risk assessment

- 1. Extreme weather and floods - Types of floods and their processes; Characteristics of flood and their Causes; Flood hazard probabilities; Nature and characteristics of floods: flood analysis – flood probability - probability and return period analysis of hydrological events and design floods.
- 2. Risk Assessment – Measuring and mapping flood processes- Delineation of the flood-prone area- Floodway and flood plain- Vulnerability analysis- Climate change - Floods in a changing world.
- 3. Adaptive measurements - Flood Control Mechanisms- Flood Preparedness and Mitigation; Emergency Preparedness and Response; Structural measurements; Non-structural measures
- 4. EU framework directive on floods- Directive 2007/60/EC on the assessment and management of flood risks



Fire risk assessment and modelling

- Fire safety engineering
- Fire safety design based on prescriptive codes
- Fire safety performance based design
- Fire safety requirements in CPR
- Case study



Multi-hazard risk assessment

•1. PUTTING MULTI-HAZARD RISK INTO PERSPECTIVE

- 1.1. Introduction
- 1.2. Multi-hazard risks
 - 1.2.1. Independent Events
 - 1.2.2. Coupled Events
 - 1.2.3. One hazard changes condition for the next
 - 1.2.4. Domino or cascading hazards

•2. MULTI-HAZARD RISK ANALYSIS APPROACHES

- 2.1. Quantitative risk assessment
- 2.2. Event tree Approach
- 2.3. Risk matrix approach

•3. MULTI-HAZARD RISK ANALYSIS AND DECISION MAKING

- 4. CASE STUDY: DISASTER RISK MANAGEMENT
 - 4.1. Brief history;
 - 4.2. Stakeholder involvement in DRM plan
 - 4.3. Analysis
 - 4.3.1. Hazard and Vulnerability Identification
 - 4.3.2. Scenario: a monument house in fire
 - 4.3.3. Prevention and mitigation
 - 4.3.4. Emergency preparedness and response
 - 4.3.5. Recovery and Rehabilitation

Content...



Section 3: Economic Perspective on Disaster Risk Management in the Balkans

8. Introduction on Financial strategies in DRM

Elona Pojani – FEUT
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9. Financial exposure and capacity in case of disasters

Edlira Luçi - FEUT
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Elona Pojani – FEUT
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10. Risk Transfer mechanisms – Insurance and reinsurance

Gentiana Sharku – FEUT
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11. Risk Transfer mechanisms – Capital market instruments

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12. Other Ex ante means for crisis management

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13. Ex post loss control measures

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Financial exposure and capacity in case of disasters

- Macroeconomic risk of natural disasters
- Approaches and instruments for financing the risk of natural disasters
 - market risk transfer
 - non-market risk transfer
 - inter-temporal risk spreading instruments
 - climate finance



Risk Transfer mechanisms – Insurance and reinsurance

- What do insurance and reinsurance mean?
- What types of risk are transferred through insurance? Does the natural disaster risk is an insurable risk?
- Which are the requirements of an insurable risk? Does the natural disaster risk satisfy these requirements?
- How the insurance companies provide coverage to natural disaster losses?
- What part of disaster risk is actually insured all over the world?
- Which are the reinsurance agreements used for covering disaster risk?



Risk Transfer mechanisms – Capital market instruments

- The role of Capital Markets in DRM
- An overview of capital market instruments and their role in Disaster Risk Transfer
- Identifying factors that hamper the development capital market instruments in WB countries.
- Recommendations to Policy Makers of WB countries in promoting the development of Risk Transfer Instruments



Other Ex ante means for crisis management

- Loss Control Methods
- Avoidance - actions that eliminate the chance of loss.
- Loss reduction actions that primarily influence the severity of losses that do occur often.
- Loss prevention - actions that primarily affect the frequency of losses.
- Segregation (Diversification) - segregating loss exposures into smaller exposure units.
- Alternative risk transfer methods (other than hedging and insurance) - the original party exposed to a loss shifts a part of the risk to another party.
 - For examples contracts, leases, hold-harmless agreements.



Ex post loss control measures

- An overview Ex-Post loss measurements techniques of loss assessment
- Ex-Post instruments
- Ex-Post disaster-related expenditures in WB
- The implementation of a framework for collecting Ex-Post disasters expenditures information
- A review of damage assessment databases in Europe and the implementation in WB countries



Work Plan

	July – September	September – December	Dec- January	January- March	March - April
1. Finalizing the table of contents					
2. Finalizing the list of authors					
3. Writing of respective chapters					
4. Submission to the editors					
5. Review process					
6. Submission to the publisher					
7. Final revisions and publication					



Comments from reviewer

- rather ambitious.
- a lot of editing work to avoid overlap
- financial part vs technical part.
- prepare a list of bullet points characterizing main parts of the proposed chapters
- expected extent of the book and / or each of the chapters.



Discussions/Suggestions??



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Thank you
for your attention
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