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# Knowledge **FOR** Resilient soCiEty

**Presentation on Textbook 2**

*University of Tirana*

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## ***Outline of presentation***

- *General Information*
- *Abstract and brief content*
- *Content*
- *First Work plan*
- *Update information on the Textbook*
- *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*





## **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)                                                                                                                                                                                   |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Section 1: General overview on Disasters, development and risk assessment</b> |                                                                                                                      |                                                                                                                                                                                                      |
| 1. Disasters, poverty, and development                                           |                                                                                                                      | Elona Pojani - FEUT<br><a href="mailto:elonapojani@feut.edu.al">elonapojani@feut.edu.al</a><br>Julinda Keci – EPOKA<br><a href="mailto:jkeci@epoka.edu.al">jkeci@epoka.edu.al</a>                    |
| 2. Disaster identification and analysis                                          |                                                                                                                      | Branko Babic – VTSNS<br><a href="mailto:babic_sombor@yahoo.com">babic_sombor@yahoo.com</a> ;<br><a href="mailto:babic@vtsns.edu.rs">babic@vtsns.edu.rs</a>                                           |
| 3. Stakeholders in DRM and decision making                                       | Government role<br>International organization and donors assistance<br>Financial institutions<br>Private sector role | Dorina Koci- FEUT<br><a href="mailto:dorinajanku@feut.edu.al">dorinajanku@feut.edu.al</a><br>Mariola Kapidani – FEUT<br><a href="mailto:mariolakapidani@feut.edu.al">mariolakapidani@feut.edu.al</a> |
| 4. Tools for Risk assessment and management                                      | Risk identification<br>Vulnerability and impact analysis<br>Risk assessment<br>Risk modelling<br>Risk response       | Branko Babic - VTSNS<br>;                                                                                                                                                                            |



## Content...

| Section 2: Technical perspective on Disaster Risk Assessment in the Balkans |                                                                                                                                                            |                                                                                                                                                                              |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. Flooding risk assessment                                                 | Extreme weather and floods, Risk Assessment, Adaptive measurements, EU framework directive on floods                                                       | Miriam Ndini – Epoka<br><a href="mailto:mndini@epoka.edu.al">mndini@epoka.edu.al</a>                                                                                         |
| 6. Earthquake risk assessment                                               |                                                                                                                                                            | Igor Džolev – UNS<br><a href="mailto:igordzolev@gmail.com">igordzolev@gmail.com</a>                                                                                          |
| 7. 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 | Endrit Hoxha – Epoka<br><a href="mailto:ehoxha@epoka.edu.al">ehoxha@epoka.edu.al</a><br><u>Mirjana Laban – UNS</u><br><a href="mailto:mlaban@uns.ac.rs">mlaban@uns.ac.rs</a> |
| 8. Risk assessment in landscape scale                                       |                                                                                                                                                            | Artan Hysa - Epoka<br>,<br>Egin Zeka – Epoka                                                                                                                                 |



|                                 |                                                                                                                                                                         |                                                                                                                          |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 9. Multi-hazard risk assessment | Putting multi Hazard Risk into perspective, Multi-Hazard Risk Analysis Approaches, Multi-Hazard Risk Analysis and Decision Making, Case Study: Disaster Risk Management | Julinda Keçi – Epoka<br><a href="mailto:jkeci@epoka.edu.al">jkeci@epoka.edu.al</a>                                       |
| 10. GIS and risk assessment     |                                                                                                                                                                         | Gordana Jakovljevic - UNBL<br><a href="mailto:gordana.jakovljevic@aggf.unibl.org">gordana.jakovljevic@aggf.unibl.org</a> |



## Content...

| <b>Section 3: Economic Perspective on Disaster Risk Management in the Balkans</b> |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. Financial exposure and capacity in case of disasters                          | <ul style="list-style-type: none"><li>• Macroeconomic risk of natural disasters</li><li>• Approaches and instruments for financing the risk of natural disasters</li></ul>                                                                                                                                                                                            | Edlira Luçi - FEUT<br><a href="mailto:edliraluci@feut.edu.al">edliraluci@feut.edu.al</a><br>Elona Pojani – FEUT<br><a href="mailto:elonapojani@feut.edu.al">elonapojani@feut.edu.al</a> |
| 12. Risk Transfer mechanisms – Insurance and reinsurance                          | What do insurance and reinsurance mean?, What types of risk are transferred through insurance?, Which are the requirements of an insurable risk?, 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? | Gentiana Sharku – FEUT<br><a href="mailto:gentianasharku@feut.edu.al">gentianasharku@feut.edu.al</a>                                                                                    |





|                                                                  |                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                     |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>13. Risk Transfer mechanisms – Capital market instruments</p> | <p>1. The role of Capital Markets in DRM, 2. An overview of capital market instruments and their role in Disaster Risk Transfer, 3. Identifying factors that hamper the development capital market instruments in WB countries, 4. Recommendations to Policy Makers of WB countries in promoting the development of Risk Transfer Instruments</p> | <p>Perseta Grabova<br/><a href="mailto:persetagrabova@feut.edu.al">persetagrabova@feut.edu.al</a><br/>Edlira Luçi - FEUT<br/><a href="mailto:edliraluci@feut.edu.al">edliraluci@feut.edu.al</a></p> |
| <p>14. Other Ex ante means for crisis management</p>             | <ul style="list-style-type: none"><li>• Loss Control Methods</li><li>• Avoidance - actions that eliminate the chance of loss.</li><li>• Loss reduction actions</li><li>• Loss prevention</li><li>• Segregation (Diversification)</li><li>• Alternative risk transfer methods</li></ul>                                                            | <p>Dorina Koci- FEUT<br/><a href="mailto:dorinajanku@feut.edu.al">dorinajanku@feut.edu.al</a><br/>Gentiana Sharku – FEUT<br/><a href="mailto:gentiana@feut.edu.al">gentiana@feut.edu.al</a></p>     |



16. 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

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## ***Content...***

### **Section 4: Concluding remarks**

|                                                                                |  |                                                                                                                                                                                   |
|--------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17. DRM in the Balkans and beyond – A comparative Overview and Recommendations |  | Julinda Keci – EPOKA<br><a href="mailto:jkeci@epoka.edu.al">jkeci@epoka.edu.al</a><br>Elona Pojani - FEUT<br><a href="mailto:elonapojani@feut.edi.al">elonapojani@feut.edi.al</a> |
|--------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## ***First Work Plan***

|                                     | July –<br>September | September<br>–<br>December | Dec-<br>January | January-<br>March | March -<br>May | May-June |
|-------------------------------------|---------------------|----------------------------|-----------------|-------------------|----------------|----------|
| 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  |                     |                            |                 |                   |                |          |



## ***Update information on Textbook***

### **Section 1: General overview on Disasters, development and risk assessment**

| <b>Chapter Title</b>                     | <b>Authors</b>                                | <b>Status</b>           |
|------------------------------------------|-----------------------------------------------|-------------------------|
| Disasters, poverty, and development      | Elona Pojani - FEUT,<br>Julinda Keci - EPOKA  | Submitted final version |
| Disaster identification and analysis     | Branko Babic – VTSNS                          | Not submitted           |
| Stakeholders in DRM and decision making  | Dorina Koci – FEUT<br>Mariola Kapidani - FEUT | Submitted final version |
| Tools for Risk assessment and management | Branko Babic – VTSNS                          | Not submitted           |



## ***Update information on Textbook***

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

| <b>Chapter Title</b>               | <b>Authors</b>                                  | <b>Status</b>                |
|------------------------------------|-------------------------------------------------|------------------------------|
| Flooding risk assessment           | Miriam Ndini - EPOKA                            | Not submitted, on process?   |
| Earthquake risk assessment         | Igor Džolev – UNS                               | Submitted                    |
| Fire risk assessment and modelling | Endrit Hoxha - EPOKA                            | Submitted Draft Version      |
| Fire Safety in Buildings           | Mirjana Laban, Suzana Draganić, Igor Džolev-UNS | Additional chapter Submitted |



| <b>Chapter Title</b>               | <b>Authors</b>                | <b>Status</b>           |
|------------------------------------|-------------------------------|-------------------------|
| Risk assessment in landscape scale | Artan Hysa, Egin Zeka - EPOKA | Submitted Draft Version |
| Multi-hazard risk assessment–      | Julinda Keci- EPOKA           | Submitted Draft Version |
| GIS and risk assessment            | Gordana Jakovljevic - UNBL    | Not Submitted           |



## ***Update information on Textbook***

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

| <b>Chapter Title</b>                                  | <b>Authors</b>                      | <b>Status</b>           |
|-------------------------------------------------------|-------------------------------------|-------------------------|
| Financial exposure and capacity in case of disasters  | Edlira Luci , Elona Pojani – FEUT   | Submitted               |
| Risk Transfer mechanisms – Insurance and reinsurance  | Gentiana Sharku – FEUT              | Submitted               |
| Risk Transfer mechanisms – Capital market instruments | Perseta Grabova, Edlira Luci – FEUT | Submitted               |
| Other Ex ante means for crisis management             | Dorina Koci, Gentiana Sharku – FEUT | Submitted Draft Version |





| <b>Chapter Title</b>                                                       | <b>Authors</b>                              | <b>Status</b>           |
|----------------------------------------------------------------------------|---------------------------------------------|-------------------------|
| Ex post loss control measures                                              | Perseta Grabova, Mariola Kapidani – FEUT    | Submitted Draft Version |
| DRM in the Balkans and beyond – A comparative Overview and Recommendations | Elona Pojani – FEUT<br>Julinda Keci – EPOKA | Submitted Draft Version |



***Discussions/Suggestions??***

***Final Work Plan???***



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Thank you  
for your attention  
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