



Date: JULY 2ND, 2018

Place: OHRID, FYR MACEDONIA

Knowledge FOR Resilient soCiEty TEXT BOOK

**CONSORTIUM MEETING, STUDY VISIT AND TRAINING
Ss. Cyril and Methodius University of Skopje**

University of Novi Sad

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6 textbooks by PA published

Thematic of the textbooks will be according to interdisciplinary nature of the DRM&FSE field and partners will decide its content in training and consultations.

University of Novi Sad, Faculty of Technical Sciences text book proposal

Publisher: Faculty of Technical Sciences

Edition: Technical Sciences – Textbooks (in Serbian)

Rule on publishing – 2 reviewers



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1. TITLE: Evacuation calculation and modelling

Authors (UNS): M. Laban, S. Draganić, +2

Content- first draft:

Evacuation – basic concepts and definitions

Evacuation decision making and human behaviour in fire

Egress strategies

Evacuation stages

Evacuation corridors

Evacuation walking speed

Evacuation of vulnerable groups

Calculation of evacuation

Computer modelling of evacuation

Evacuation drills, calculation of time, periodical repetition of drills
Evacuation plans

Calculation occupancy - the maximum number of people who need to be evacuated.





2. TITLE:

RISK INFORMED DECISION SUPPORT IN MANAGEMENT OF NATURAL HAZARDS

Authors (UNS): M. Laban, S. Draganić

On the characteristics and significance of natural hazards

On the nature of natural hazards

Global/local significance of natural hazards

The management context

Decision maker(s) and preferences

Stakeholders

Boundary conditions for risk management (time/space, budgets,
etc)

General objectives and metrics

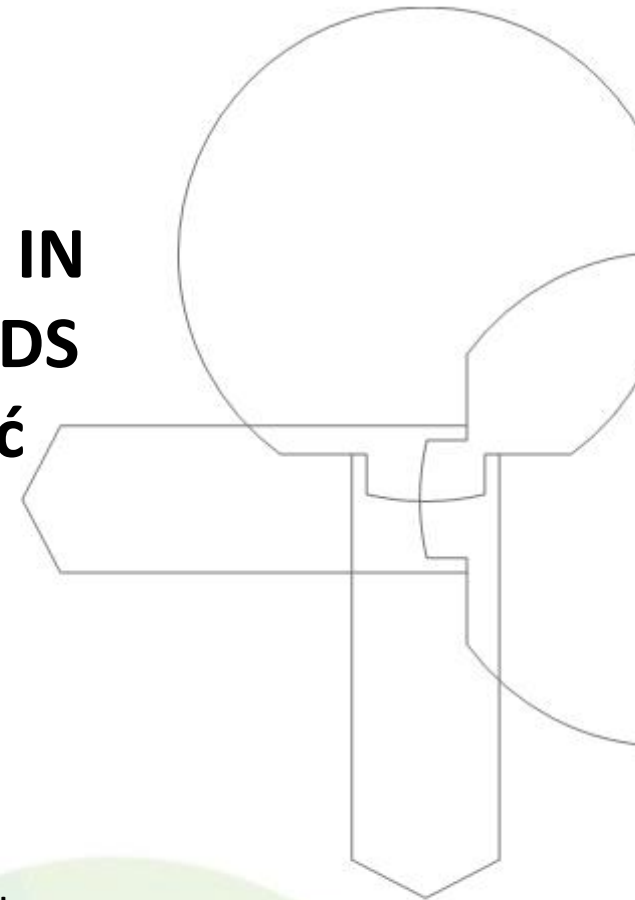
Strategic, operational and tactical risk management and measures

Decision making subject to uncertainty

Probability and modeling of uncertainty

Bayesian decision analyses

Value of Information





Systems in the context of natural hazards risk management

Geo-hazard systems

Social/governance systems

Antropological systems

Environmental systems

Structures and infrastructure systems

Systems of systems

Representation of systems

Modeling of scenarios of consequences

Scale and detail

Generic representations

Indicators

Systems performance indicators

- Risk, vulnerability, robustness and resilience

System analysis techniques

Simulation techniques

FORM/SORM

Bayesian Probabilistic Nets

Optimization

Cost-benefit analysis

Life safety

Environment

Robustness and resilience

Communication

Risk perception

Communication and communication protocols

Applications

Earthquake

Flood

Landslide and rockfall

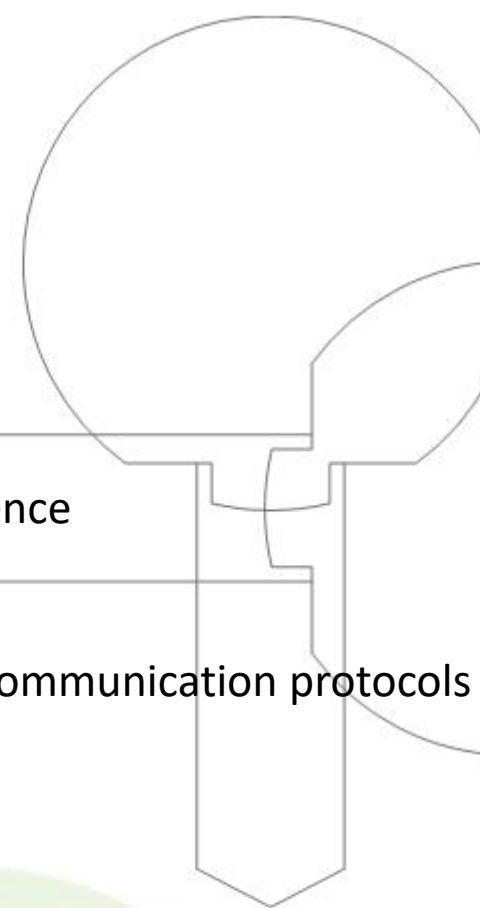
Volcanic eruption

Storm surge

Avalanches

Strong wind

Wildfires





3. TITLE: Fire Safety in Buildings

Authors (UNS): M. Laban, V. Bulatović, S. Draganić

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Fire safety engineering

Design concerns

Control of ignition

Control of flammability

Control of growth of fire

Fire safety management

Means of escape

Evacuation calculation and modeling

Detection and control of the fire

Fire detection

Smoke control

Fire-fighting systems

Compartmentation

Fire spread between structures

Structure collapse

Fire precautions during construction and maintenance

Fire protection active measures

Fire protection passive measures

Properties of materials at elevated temperatures





Interested coauthors from other HEIs?

Opportunities:

Publish the same book in ENG / SRB / BiH / ALB

We will exchange the knowledge and experience

The lecture papers could be adjusted to book chapters

We can save the time and split the job

UBL, VTSNS and UNS – share the same language

UTZ could easily adjust the book to BiH language

UBL, VTSNS and UNS could easily adjust BiH to SRB

EPOKA and UT – could contribute in ENG

We can translate to ENG chapters written in SRB/BiH

UT and EPOKA could translate ENG to ALB

PROPOSAL – 6 BOOKS, 1 PUBLISHED BY EACH HEI
IN FACT - ONLY 2 OR 3 DIFFERENT BOOKS





DEADLINE FOR PUBLISHING THE TEXTBOOKS ?

ACCORDING TO PROJECT PLAN: OCTOBER 2018 – UNREAL

PROPOSAL: UNS – MARCH 2019

VTSNS - ?

UBL – ?

UTZ - ?

UT – ?

EPOKA - ?





TEXTBOOK WORKING GROUPS ?

WE WILL PREPARE 2 OR 3 DIFERENT BOOKS?

BOOK TITLES?

WG 1 MEMBERS?

WG 2 MEMBERS?

WG 3 MEMBERS ?





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Thank you
for your attention

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