

RISK MANAGEMENT FROM THE PERSPECTIVE OF A DEVELOPING COUNTRY: THE CASE OF UNGHENI, REPUBLIC OF MOLDOVA



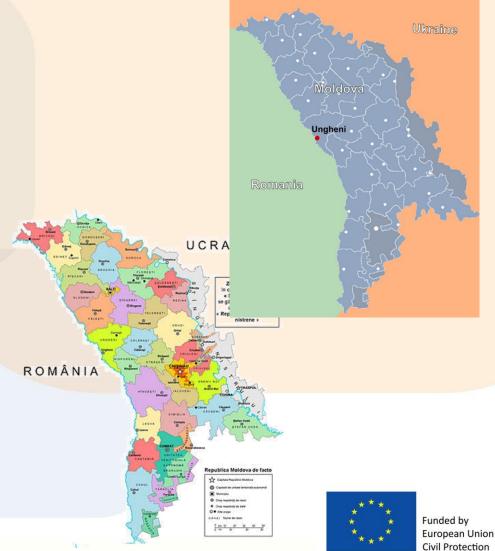
Coimbra, Portugal 24.05.2017





Administrative-territorial structure of the Republic of Moldova

- Republic of Moldova is located in southeastern Europe. Moldova is bordered on the west and southwest by Romania and on the north, south, and east by Ukraine. Most of its territory lies between two main rivers, the Dniester and the Prut.
- Districts 32
- Municipalities 13 (Chisinau, Balti, Bender, Comrat, Tiraspol + Cahul, Ungheni, Soroca, Orhei, Ceadîr-Lunga, Strășeni, Edineţ, Hîncești)
- Territorial units ATU Gagauzia,
 Transnistria
- **Towns** 52
- Communes and villages 1614





Ungheni District – General Data

- Geographical position of Ungheni District –
 in the Central-Western part of the Republic of Moldova
- Surface of Ungheni District 108,3 thousand hectares (49,9 thousand ha – agricultural surface, 28,8 thousand ha – forests and other lands with forest vegetation, 4,7 thousand ha – water resources)
- Population 110,5 thousand inhabitants
- Economic potential agriculture, processing agricultural products industry, 80 % in district industry is fibers preparation, carpets and mats production, 3650 small and middle enterprises, that can be find in all production and providing services branches.
- Ungheni District 33 mayoralties (12 villages, 19 communes, 2 towns)
 - Distance Ungheni Chisinau: 105 km
 - Distance Ungheni Balti: 80 km
 - Distance Ungheni Iasi (Romania): 21 km







CASE STUDY OF UNGHENI DISTRICT COUNCIL: MULTI-HAZARD RISK ASSESSMENT - CONTEXT



Multi-risk assessment preconditions:

- Need to achieve complete compatibility and interoperability with collective safety systems as are EU, UN
- Sector approach in evaluation of the situations and absence of a unified assessment of all the risks, threats and dangers;
- Need for rising the level of coordination and efficiency in the use of resources owned by a number of state institutions and local public authorities

Necessity to link multi-risk assessment and decision-making process that will lead to improvements in land-use planning, enhanced response capacity, identification of priorities for mitigation actions, and enhanced levels of risk awareness and cooperation.

Multi-risk assessment is a "support" to the decision-makers

Requirements

Stake holders

Dec formaker

Scientific Experts

Requirements







Multi-risk assessment preconditions

"Natural events can't be prevented, but potential disasters can be 'managed' to minimize loss of life through a four-part cycle of mitigation, preparedness, response and recovery"



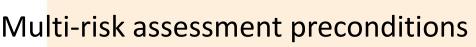


Emergency Management Cycle











- Draft of the National Strategy for Disaster Risk Management 2015-2020 is a response to the need to support and strengthen efforts to ensure nationally and internationally the resilience to disasters
- ✓ Sectoral Strategy of Disaster Risk Reduction 2016 2020 of Ungheni City, financed by UNDP Project "Moldova Disaster and Climate Risk Reduction", Phase II

Risk (R) = <u>Hazard (H) X Vulnerability (V)</u>
Coping capacapacities/Resilience(C)

✓ **CRISMAS Project** – appropriate environment for developing a Disater Risk Reduction Strategy for Ungheni district







CASE STUDY OF UNGHENI DISTRICT COUNCIL: Aim and Goal



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European Union Civil Protection

- To reduce the existing risks and prevent new risks, empower sustainability, including the local public authorities' responsibility to prevent and reduce the disaster risks, and engagement of the whole community and government institutions.
- The Disaster Risk Reduction Strategy determines the will of the local public authorities from Ungheni district for cooperation, coordination and unified approach of the local institutions and local/regional partnership to confront with natural, technological and biological-social disasters, and the challenges resulting from them.
- Prevention of new risks and reduction of current disaster risks, through implementation of integrated and overwhelming economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce the exposure and vulnerability from disaster risks, increase the preparedness, response and recovery, hence strengthening sustainability.



CASE STUDY OF UNGHENI DISTRICT COUNCIL: Challenges



- Limited local resources and limited national assistance
- Difficulties in collecting data, information on disasters and impacts
- Difficulty in aggregating vulnerability across sectors
- Large number of stakeholders with roles to play in shaping risks
- Difficulty of measuring human vulnerability
- Difference in expert risk assessments and public perceptions of risk









Multi-risk assessment process

Natural Risks

- Floods
- Earthquakes
- Soil erosion
- Heavy snow
- Glaze
- Strong wind
- Strong hail
- Torrential rains
- Drought

Biological-social risks

Self-assessment

of disaster risk

management

capabilities

- Epidemics
- Epizooties
- Epiphytotics

Technological risks

- Accidents with potential damage emission of dangerous chemicals
- Accidents with potential danger of radioactive emission substances
- Fire, explosion, explosion hazard
- Transportation accidents

Risk identification

Multi-risk assessment process

Risk analysis

Risk Evaluation













European Union Civil Protection

Multi-risk assessment process







Multi-risk assessment process

- Intensive stakeholder cooperation
- High level of involvement and commitment of entities to exchange information and knowledge
- Strong political leadership
- Close involvement of the population itself
- High involvement of the civil society and NGOs

Involvement





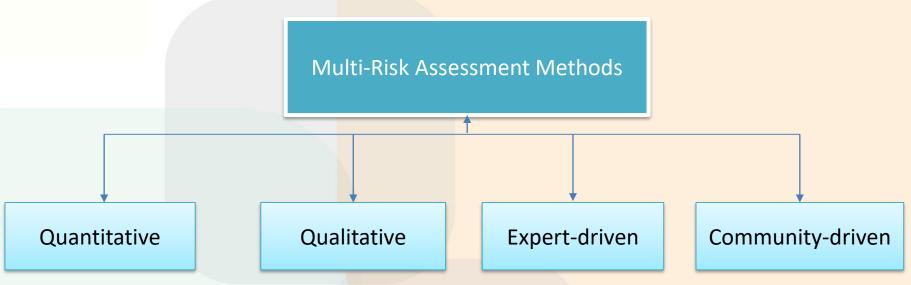


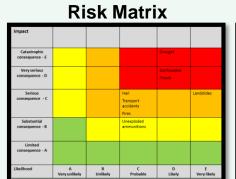






Multi-risk assessment methods and techniques









SWOT Analysis

SWOT analysis of prior disaster risks in Ungheni District			
STRENGTHS	S	W	WEAKNESSES Puncte slabe
Ungheni District has experience in elaborating local public policies, organizing informing, education and citizens participation in decision- making process at local level (public consultations) campaign Ungheni District has experience in promoting some mass-media awaring			Within local public administrations of Ungheni District there are no persons accountable for disaster prevention and liquidation in the locality Insufficient training of accountable persons in disaster prevention and liquidation Weak involvement of civil society in
and informing campaigns regarding disasters • There exist some efforts at local level to improve the inter-institutional			disaster prevention and liquidation field Very small budgetary allocations in disaster prevention and liquidation field Funding of projects in disaster

Cause-effect Analysis









Conclusions

- Disaster risk reduction is a cross-cutting issue in the context of sustainable development.
- There is a specific need to closely tie local DRM strategies to Sustainable Development Goals
 as disaster losses can seriously impede sustainable development.
- Reducing disaster risk and increasing resilience to natural hazards in different development sectors had multiplier effects and accelerate achievements of the MDGs.
- Building disaster resilience is critical to achieving the goal of eradicating extreme poverty.
- The high impact of disaster and climate risk on agriculture calls for enhanced mainstreaming of disaster risk reduction and climate adaptation strategies within the agriculture sector.
- Investing in disaster risk reduction and resilience is imperative to secure economic growth and development.
- DRR Strategy helps the local public authorities and the local stakeholders to prioritize the own actions and attract external donor funds.

Investing in disaster risk reduction is a precondition for developing sustainably in a changing climate.









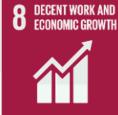


Conclusions









































Conclusions



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