

Synthesis of present situation and further Institutional and Technical recommendations to strengthen NMHS capacities in DRR support

Beneficiary	Recommendations						
	<i>Institutional framework/ enabling environment</i>	<i>Observational networks</i>	<i>Telecommunications and Computing</i>	<i>Data management</i>	<i>Forecasting system</i>	<i>Risk assessment/EWS/ Preparedness&Response</i>	<i>Regional/International cooperation</i>
SERBIA	<p>Guiding laws and major part of sets of bylaws adopted.</p> <p>Urgently draft remaining bylaws and relevant technical regulations (ongoing, to be completed in 2014).</p> <p>In 2013 with the broadening of its jurisdictions, and as a forum comprised of key stakeholders, representatives from all Ministries, public sector and civil organizations, the National Emergency Response HQ has been proclaimed into a National Platform for Disaster Risk Reduction.</p> <p>Instruction on Methodology for creation of National Risk Assessment and Emergency Protection and Rescue Plans has been adopted, according to which the National Risk Assessment and Emergency Plans will be developed.</p> <p>ISO Standard in NMHS adopted;</p> <p>Urgently draft SOP between DRM Agency and NMHS (in process).</p> <p>Further cooperation with the Agency for Environmental protection needed.</p>	<p>Weather radar network improved with one new SELEX S-Band dual-polarization Doppler radar in 2013.</p> <p>Further increase needed of the number of on-line meteorological and hydrological stations.</p> <p>Establishment of the second upper air station and implementation of the AMDAR system needed.</p> <p>Implementation of the Serbian part of the road weather meteorological monitoring and early warning system along the pan-European corridor 10 highway.</p> <p>There are needs to establish the second upper air station and to implement the AMDAR</p> <p>System. [Coordination on sub-regional scale MHEWS project...]</p>	<p>Investment in high performance (super computer) computational resources as a prerequisite for further development and efficient implementation of the RHMS MHEWS operational and research activities.</p> <p>Urgent need to improve telecommunications associated to radar data dissemination towards sub-national early warning centers in Niš, Novi Sad and Kraljevo, so that these sub-national centers could benefit the real-time observations.</p> <p>Telecommunications along the Serbian part of pan-European corridor 10 highway.</p> <p>Implementation of the next generation Regional Meteorological Data Communication Network RMDCN-NG (1Mbps).</p>	<p>There is still an urgent need to initiate a data rescue programme to digitize and quality ensure the historical data.</p> <p>There is a need to implement an efficient operational data base in order to improve the use of more real-time data.</p> <p>Explore the possibility to unify the software used for meteorological, climatological and hydrological data management. Proceed to testing of the database software MCH-BD, with a view to potentially migrate from existing CLIDATA to MCH.</p>	<p>National weather radar composite image is in place, but still there is a need to promote production of regional weather radar composite pictures to support short term weather forecasting.</p> <p>Even though the HBV and HYPROM hydrology models are in quasi-operational use, there is still a need to experiment on use of weather radar data as input for numerical flood models.</p> <p>Need to speed-up the work on data assimilation in NWP.</p> <p>Putting in operations the existing automatic analyzing and editing tools to help the work of forecasters.</p> <p>Need for a specialized weather forecasting product along the Serbian part of pan-European corridor 10 highway.</p>	<p>There is a need for a wide capacity building programs in vulnerability and risk assessment, hazard analysis (hazard mapping, risk analyses, ...) of all types of hazards, in order to implement international standards and EU directives related to Risk Assessment;</p> <p>In order to implement the Law on Emergency Situations in the part related to risk assessment and planning the protection and rescuing from natural disasters and other hazards on all levels in Serbia, there is a need to further increase the capacities of the competent bodies for the application of the available methodologies for vulnerability and risk assessment of citizens and different economy sectors' vulnerability from particular natural disasters, as well as for risk assessment and multi hazard risk assessment, including climate change risk.</p>	<p>Speed-up the cooperation under the EUMETNET OPERA Program in order to produce regional near real-time composite images.</p> <p>Some hydrological data exchange already in place through Sava River Commission, but there is still a need to enhance regional real-time data exchange of hydrological and meteorological measurements.</p> <p>Promote cooperation between the newly established SEEVCCC/NMMN NWP Consortium and other NWP modeling Consortia under the EUMETNET (C-SRNWP)</p> <p>Make available through web-mars user interface the MARS-SEEVCCC archives containing GRIB fields of operational seasonal forecasts for southeastern Europe.</p> <p>Implementation of the Long Term Programme for Meteorological and Hydrological R&D and Operational Activities.</p>

