








SWARM

Let's brainstorm strengths, weaknesses, opportunities and threats as part of our planning of actions for innovation in WRM for Western Balkans

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Strengths	Weaknesses
Creativeness and resilience 	Lack of water related laws implementation on all levels 
Human resources (professionals and academics)  	Corruption 
Good education (particularly in water-related issues) 	No politics to save water and to prevent pollution 
Possibilities to learn from good examples and practices e.g. in EU countries 	Lack of understanding (ignorance) of political class about Water Resource Management 
Human potential in IT sector to develop smart systems 	Lack of cooperation and communication between Ministries and authorities 
Possibilities to learn from mistakes already made somewhere else 	The penalties of polluters are not paid as nobody collects them 
Good geographical location, good climate, topography, high water resources potential 	Lack of hydrological/climate, etc. data 
Strategies are in place to move towards European policy framework 	Uncontrolled use of surface and ground water 
Awareness of the need to do something due to recent events 	No public awareness and political will 
Political will  	Old or lack of infrastructure (WWTPs, etc.) 
Possibilities to incorporate knowledge from Western Balkans knowledge, history and traditions 	Water is not valued (not fair water prices) 
Good media coverage (related to different types of media) 	Lack of finances 
Flexibility due to decentralization 	Not public access to hydrological/climate, etc. data 
	Not enough capacity 
	No requirements for occupying a place in water administration or if there are, they are not met 
Opportunities	Threats
Lessons learned - WB countries will not repeat the mistakes done in EU countries 	Corruption 
Information systems & digitalization - abundance of data 	Lack of educated people in decision-making positions 

Strengthen collaboration between countries in region		Unstable political situation	
Ready to apply for EU funds, with preparation of data and projects in time		Lack of political willingness for implementation of WRM	
Possibilities to obtain European support and funding for implementation		Not holistic vision of WRM	
Use international knowledge networks		Lack of transboundary cooperation	
IT sector, artificial intelligence		Lack of public awareness	
Increasing human capacities using projects, funds		Weak economy	
Master courses		Lack of good public data - inaccuracy	
Digitalization		Ecological hazard	
Organize cycle education for experts		Not clear responsibility role among the authorities	
Know-how practices		Climate change (growing population in cities, increased heat waves during summer)	
Efficiently and in time data preparation (information systems, platforms, ...)		Uncontrolled use of fertilizers and pesticides (diffuse pollution)	
Integrated management, interdisciplinary		Decrease and aging of population	
Green infrastructure		Increased touristic industry in coastal areas	
Use of nature-based solutions		Use EU legislation directly (adopt)	
laboratory and field measurement equipment		IT security threats (cybersecurity)	
Optimize and improve managing policies			
Use the existing knowledge, start directly to use top technologies, modelling based on remote sensing provided by European Space Agency			
Smart cities			
Reconstruction of existing hydraulic structures			
Raise awareness from primary user to global/higher level (Kosovo) - how to properly use the water? education of people=			
Provide information to public			
All identified weaknesses provide the opportunity to be turned into strengths			
Climate conditions (WR) availability of water resources			

Climate conditions (T_{ref}) availability of water resources

link between different planes (spatial planes, water management plans)



LLL courses



Innovative methods for payments of penalties



Introduce economic price of water (value)



introduction of public-private partnerships



Keep traditional systems for collecting and using water (rain harvesting for water supply of households)



Citizen science



Define sanitary protection zones



Immigration (threat or opportunity?)

