

Sustainable Historic Environments hoListic reconstruction through Technological Enhancement & community-based Resilience

Extract of D.6.4. Historic area resilience co-production playbook

Strategic blueprints for the Sava River Basin

30.11.2020

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 821282



### **Published in the framework of:**

SHELTER - Sustainable Historic Environments hoListic reconstruction through Technological Enhancement & community-based Resilience

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# Glossary

Acronym	Full name
CNH CHM DRM	Cultural and Natural Heritage Cultural Heritage Management Disaster Risk Management
HA NBS	Historic Area Nature-Based Solutions
OL	Open Labs
OLC UR	Open Lab Coordinator User Requirements



### 1 Strategic Blueprints

The following report is dedicated to outlining the OL specific strategic blueprints that were developed through the co-creation workshops. The strategic blueprints consist of the identified solutions which were discussed with the participating stakeholder.

The design of the strategic blueprints follows the discussed questions per topic and for each identified solution an own strategic blueprint sheet was created. Each sheet includes a suggestion for the implementation timeline as well as an assignment of the identified solution to the phases of DRM.

In addition, the results of the questionnaire for DRM and communities it was possible to receive an overview of the specific situations and the involvement of communities in the disaster risk management. With the feedback of the stakeholder information sheet, an analysis of the participating stakeholder structure was done. The structure of the strategic blueprints follows the discussed questions per topic and each identified solution is described in an own strategic blueprint sheet.

### 1.1 Stakeholder structure analysis

With the results of the stakeholder information sheet, an analysis of the stakeholder structure was possible. Due to COVID-19 situation, not all identified stakeholders were able to join the online meetings and contribute their specific expertise but the participation was balanced and OL case study coordinators were in contact with stakeholder which were not able to join meeting to catch their expertise.

#### 1.1.1 Sava River Basin

In total, 15 participants from five involved states participated the online co-creation workshop for the Sava River Basin. The participants were assigned to governmental organizations as well as civil society.



Figure 1. Stakeholder structure for Sava River Basin



#### 1.2 Results of the questionnaire

In this subchapter, the results of the questionnaires are visualized, which were forwarded from the stakeholders to the OL case study coordinators. The answers were translated from the national language into English and summarized into the questionnaire template.

The results of the questionnaire show the situation for each OL due to the experience and evaluation of the involved stakeholders. Some results may be used for further evaluations in the sense of involvement of communities in disaster risk management in all phases. A balanced and developed DRM in the respective OL region would have resulted in a total YES to all 5 questions by the stakeholders. As the questionnaires show this is not the case. In any case, a respective need for action has to be evaluated with all care and specifically identified from OL to OL.

In the following the answers of the Sava OL are visualized.

Question	YES/NO	If "Yes" please short description	additional comments for the HA if necessary	additional comments for improvements based on your expertise
Are public awareness programms executed? (Yearly frequency of execution of programs: once,	Ves and No	Albania, Montenegro, Slovenia = Yes, sometimes  Bosnia and Herzegovina, Croatia, Serbia=No		
sometimes, regular)				
Is regular (at lest yearly) emergency response training and drills at multiple levels ongoing?	Ves and No	Bosnia and Herzegovina, Croatia, Montenegro, Serbia, Slovenia=Yes	Authorities responsible for HA are not involved!	
		Albania=No		
Does a community risk management or emergency committee exist, that deals with prevention, mitigation, preparedness and response? (Meeting frequency: only during emergency, once in a year, at least quarterly)		Albania, Bosnia and Herzegovina, Croatia, Montenegro, Serbia, Slovenia= Yes. Only during emergency		
Do local institutions (administration, police, fire brigade, hospitals, building sector, etc) receive training on joint risk management?  (Frequency of training: once per year, every two years, other)	Yes	Bosnia and Herzegovina=Every two years Slovenia=Every two years		
		Albania, Croatia, Montenegro, Serbia=Still pending for the feedback		
Is the private sector represented as member in th	er in the ? Yes and No	Albania=NGOs Croatia=Businesses, NGOs, Civil society Montenegro=NGOs, Civil society		
Management/emergency committee? (businesses, civil society, NGOs, etc.)		Bosnia and Herzegovina, Serbia, Slovenia=No		

Figure 2. Questionnaire results for Sava River Basin

### 1.3 Strategic blueprints for Sava River Basin

The co-creation workshop results in 10 strategic blueprints. In the following subchapters the strategic blueprints are available.

### 1.3.1 Strategic blueprint 26

	STRATEGIC BLUEPRINT - SHELTER PROJECT
ID	26
OL ASSIGNMENT	Sava River Basin
TOPIC	Governance tools against transboundary flooding events
	DESCRIPTION
IDENTIFIED SOLUTION	Development of the proposal of DRM governance structure involving the CHH authorities
How can the identified tool improve the current situation?	STRENGTHENING RESILIENCE (national level and international level)
How should the design of this tool look like?	A paper form document  Responsible for the design should be SHELTER
How should the implementation of the tool look like?	Visual mapping of the different types of governance structures applicable at different stages of the DRM, with a detailed description of their advantages and limitations.  Responsible for the implementation should be Country-level authorities (Civil protection and/or water/flood management agencies)
What should be taken into account for the maintenance of the tool?	Existing procedures, SOPs and multilateral agreements
ASSIGNMENTS/COM	MENTS
TIME PERSPECTIVE	ALL phases  Can be implemented in SHORT TERM (Within one year)
ADDITIONAL COMMENTS	Final users should be national authorities and international organizations
STAKEHOLDER STRU ORGANISATIONS	Sava Commission Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency





Public Institution "Vode Srpske"
<u>Croatia:</u>
Ministry of Culture, Directorate for the Protection of Cultural
Heritage
Hrvatske vode
Montenegro:
Ministry of Culture
Ministry of Agriculture and Rural Development, Water Management
Directorate
Serbia:
Institute for the Protection of Cultural Monuments of Serbia
Public Water Management Company "Vode Vojvodine"
Slovenia:
Ministry of Culture, Cultural Heritage Directorate
Ministry of the Environment and Spatial Planning, Slovenian Water
Agency

### 1.3.2 Strategic blueprint 27

STRATEGIC BLUEPR	INT – SHELTER PROJECT
ID	27
OL ASSIGNMENT	Sava River Basin
ТОРІС	Governance tools against transboundary flooding events
DESCRIPTION	
IDENTIFIED SOLUTION	Preparation of a spatial GIS layer for cultural heritage for the entire basin
How can the identified tool improve the current situation?	STRENGTHENING RESILIENCE (national and international level) It will improve the development of flood hazard and risk maps on CH for AMIs
How should the design of this tool look like?	Development of methodology and templates/database formats for collecting and storing data, information and knowledge that will be extracted from relevant institutions.  Responsible for the design should be SHELTER
How should the implementation of the tool look like?	Collection of data on CH laying in flood-prone areas (AMIs), systematized and stored in existing Sava GIS. Implementation of collected data in the Sava GIS Geoportal and related web-based tools to be able to create and support web services-based data exchange.  Responsible for the implementation should be ISRBC/other PPs
What should be taken into account for the maintenance of the tool?	All relevant data on UNESCO's sites, national monuments, cultural/historical monuments, religious facilities, vernacular architecture, cemetery, graveyards, etc.



ASSIGNMENTS/COM	1MENTS	
DRM PHASE	Preparation, preparedness	
TIME PERSPECTIVE	Can be implemented in MID TERM (1-3 years)	
ADDITIONAL COMMENTS	Final users should be national authorities and international organizations; expert users	
	STAKEHOLDER STRUCTURE	
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia: Institute for the Protection of Cultural Monuments of Serbia Public Water Management Company "Vode Vojvodine" Slovenia: Ministry of Culture, Cultural Heritage Directorate Ministry of the Environment and Spatial Planning, Slovenian Water Agency	

### 1.3.3 Strategic blueprint 28

STRATEGIC BLUEPRINT – SHELTER PROJECT			
ID	28		
OL ASSIGNMENT	Sava River Basin		
ТОРІС	Governance tools against transboundary flooding events		
	DESCRIPTION		
IDENTIFIED SOLUTION	Development of methodologies how to assess flood risks on cultural heritage (including the type of necessary data) and methodology of how to assess cultural heritage damage		
How can the identified tool improve the current situation?	STRENGTHENING RESILIENCE (national and international level) It will improve the development of flood hazard and risk maps on CH for AMIs		
How should the design of this tool look like?	The process should describe a spatially explicit methodology to assess the flood risk regarding specific hazards and their synergistic impact.		
	Responsible for the design should be SHELTER		



How should the implementation of the tool look like?	This paper form document should include the procedure definition with the identification of required data sources and the methods for weighting and combining vulnerability/resilience factors and categorizing and performing sensitivity analysis.  Responsible for the implementation should be ISRBC/other PPs	
What should be taken into account for the maintenance of the tool?	Flood and damage data collection procedures	
ASSIGNMENTS/COM	IMENTS	
DRM PHASE	Preparation, preparedness	
TIME PERSPECTIVE	Can be implemented in MID TERM (1-3 years)	
ADDITIONAL COMMENTS	Final users should be national authorities and international organizations; expert users	
	STAKEHOLDER STRUCTURE	
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia: Institute for the Protection of Cultural Monuments of Serbia Public Water Management Company "Vode Vojvodine" Slovenia: Ministry of Culture, Cultural Heritage Directorate Ministry of the Environment and Spatial Planning, Slovenian Water Agency	

# 1.3.4 Strategic blueprint 29

STRATEGIC BLUEPRINT - SHELTER PROJECT		
ID	29	
OL ASSIGNMENT	Sava River Basin	
TOPIC	Governance tools against transboundary flooding events	
DESCRIPTION		



IDENTIFIED SOLUTION	A guide for the application of the best solutions in the protection of CH against floods
How can the identified tool improve the current situation?	RAISING AWARENESS ABOUT FLOOD RISKS (all levels)
How should the design of this tool look like?	Workshop on existing experiences, knowledge and methodologies for the status assessment. Using the results of the workshop manual in Sava River countries' languages.  Responsible for the design should be SHELTER
How should the implementation of the tool look like?	See design.  Responsible for the implementation should be ISRBC/other PPs
What should be taken into account for the maintenance of the tool?	
	ASSIGNMENTS/COMMENTS
DRM PHASE	Preparation, preparedness, response
TIME PERSPECTIVE	Can be implemented in SHORT TERM (within one year)
ADDITIONAL COMMENTS	Final users should be national, regional, local authorities; expert and non-expert private users
	STAKEHOLDER STRUCTURE
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia: Institute for the Protection of Cultural Monuments of Serbia



Ministry of the Environment and Spatial Planning, Slovenian Water
Agency

# 1.3.5 Strategic blueprint 30

9	STRATEGIC BLUEPRINT - SHELTER PROJECT
ID	30
OL ASSIGNMENT	Sava River Basin
TOPIC	Governance tools against transboundary flooding events
	DESCRIPTION
IDENTIFIED SOLUTION	Database of floods and cultural heritage and an internet application (IMMERSITE) for information exchange between stakeholders involved in emergency flood defence, as well as for informing the public
How can the identified tool improve the current situation?	RAISING AWARENESS ABOUT FLOOD RISKS (all levels)
How should the design of this tool look like?	Sava Geoportal - flood events, damage to cultural heritage, - flood hazard maps, maps of cultural heritage sites, structures and artefacts, - reports on data sources, - statistic reports  Responsible for the design should be ISRBC
	Responsible for the design should be 15RBC
How should the implementation of the tool look like?	Data collection from national water cadaster, cultural heritage register, register of damage assessment.
	Responsible for the implementation should be ISRBC
What should be taken into account for the maintenance of the tool?	flood and damage data collection procedures
	ASSIGNMENTS/COMMENTS
DRM PHASE	Preparation
TIME PERSPECTIVE	Can be implemented in SHORT TERM (within one year)
ADDITIONAL COMMENTS	Final users should be national, regional, local authorities; expert and non-expert private users
	STAKEHOLDER STRUCTURE
ORGANISATIONS	Sava Commission <u>Bosnia and Herzegovia:</u>



Commission to Preserve National Monuments
Sava River Watershed Agency
Public Institution "Vode Srpske"
<u>Croatia:</u>
Ministry of Culture, Directorate for the Protection of Cultural Heritage
Hrvatske vode
Montenegro:
Ministry of Culture
Ministry of Agriculture and Rural Development, Water Management
Directorate
Serbia:
Institute for the Protection of Cultural Monuments of Serbia
Public Water Management Company "Vode Vojvodine"
Slovenia:
Ministry of Culture, Cultural Heritage Directorate
Ministry of the Environment and Spatial Planning, Slovenian Water
Agency

## 1.3.6 Strategic blueprint 31

STRATEGIC BLUEPRINT – SHELTER PROJECT	
ID	31
OL ASSIGNMENT	Sava River Basin
TOPIC	Governance tools against transboundary flooding events
	DESCRIPTION
IDENTIFIED SOLUTION	Risk decision support tools including early warning system on the administration level including wide public
How can the identified tool improve the current situation?	
How should the design of this tool look like?	Sava Geoportal; web-based maps of cultural heritage endangerment hotspots; manual of best CH protection practices; handbook for vulnerability assessment procedures  Responsible for the design should be ISRBC
How should the implementation of the tool look like?	
What should be taken into account for the maintenance of the tool?	balanced and reasonable data-method-result relationship



	ASSIGNMENTS/COMMENTS
DRM PHASE	Preparation
TIME PERSPECTIVE	Can be implemented in SHORT TERM (within one year)
ADDITIONAL COMMENTS	Final users should be regional and local authorities
	STAKEHOLDER STRUCTURE
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia: Institute for the Protection of Cultural Monuments of Serbia Public Water Management Company "Vode Vojvodine" Slovenia: Ministry of Culture, Cultural Heritage Directorate Ministry of the Environment and Spatial Planning, Slovenian Water Agency

# 1.3.7 Strategic blueprint 32

STRATEGIC BLUEPRINT – SHELTER PROJECT	
ID	32
OL ASSIGNMENT	Sava River Basin
TOPIC	Governance tools against transboundary flooding events
	DESCRIPTION
IDENTIFIED SOLUTION	Rescue and recovery procedures handbook
How can the identified tool improve the current situation?	
How should the design of this tool look like?	web-based application IMMERSITE, early warning systems for CH, protocol document for cultural heritage hotspots (wrapping, walls, containers, etc.)  Responsible for design should be SHELTER



How should the implementation of	Based on national hydrology alarm service describe possible
implementation of	consequences and implement in fire safety plans and protocols
the tool look like?	Responsible for the implementation should be disaster management
	authority, municipality
What about he	Descible veryley wedges of mustacele
What should be taken into account	Possible regular update of protocols
for the	
maintenance of the	
tool?	
	ASSIGNMENTS/COMMENTS
	Preparedness,
DRM PHASE	response, recovery
	recovery
TIME	Can be implemented in MID TERM (1-3 years)
PERSPECTIVE	, , ,
ADDITIONAL	Final users should be local authorities (municipality, fire department)
COMMENTS	
	STAKEHOLDER STRUCTURE
	Sava Commission
	Sava Commission Bosnia and Herzegovia:
	Sava Commission
	Sava Commission <u>Bosnia and Herzegovia:</u> Commission to Preserve National Monuments  Sava River Watershed Agency  Public Institution "Vode Srpske"
	Sava Commission <u>Bosnia and Herzegovia:</u> Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" <u>Croatia:</u>
	Sava Commission Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage
	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode
	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro:
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture
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ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia:
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia: Institute for the Protection of Cultural Monuments of Serbia
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### 1.3.8 Strategic blueprint 33

STRATEGIC BLUEPRINT - SHELTER PROJECT	
ID	33
OL ASSIGNMENT	Sava River Basin
торіс	Governance tools against transboundary flooding events
DESCRIPTION	
IDENTIFIED SOLUTION	Plan for cultural heritage risk reduction



## 1.3.9 Strategic blueprint 34

STRATEGIC BLUEPRINT - SHELTER PROJECT	
ID	34



OL ASSIGNMENT	Sava River Basin
	Governance tools against transboundary flooding events
TOPIC	The state of the s
DESCRIPTION IDENTIFIED	Cooperation protocol
SOLUTION	Cooperation protocol
How can the identified tool improve the current situation?	IMPLEMENTING SOLIDARITY PRINCIPLE (national and international level)
How should the design of this tool look like?	Protocol document  Responsible for the design should be ISRBC
How should the	Bilateral agreements on aid during and after a flood event
implementation of the tool look like?	Responsible for the implementation should be ISRBC
What should be taken into account for the maintenance of the tool?	Existing bilateral agreements
ASSIGNMENTS/COM	
DRM PHASE	Response, recovery
TIME PERSPECTIVE	Can be implemented in LONG TERM (more than 3 years)
ADDITIONAL COMMENTS	Final users should be national authorities
STAKEHOLDER STRU	
ORGANISATIONS	Sava Commission  Bosnia and Herzegovia: Commission to Preserve National Monuments Sava River Watershed Agency Public Institution "Vode Srpske" Croatia: Ministry of Culture, Directorate for the Protection of Cultural Heritage Hrvatske vode Montenegro: Ministry of Culture Ministry of Agriculture and Rural Development, Water Management Directorate Serbia: Institute for the Protection of Cultural Monuments of Serbia Public Water Management Company "Vode Vojvodine" Slovenia: Ministry of Culture, Cultural Heritage Directorate Ministry of the Environment and Spatial Planning, Slovenian Water Agency



## 1.3.10 Strategic blueprint 35

	STRATEGIC BLUEPRINT – SHELTER PROJECT
ID	35
OL ASSIGNMENT	Sava River Basin
TOPIC	Governance tools against transboundary flooding events
DESCRIPTION	
IDENTIFIED SOLUTION	Border-crossing procedures for import and export of protection and rescue equipment and delivery of humanitarian aid
How can the identified tool improve the current situation?	IMPLEMENTING SOLIDARITY PRINCIPLE It will facilitate and speed up the process for the provision of mutual and international aid
How should the design of this tool	A paper form document (e.g. official protocol) implemented within a web-based application.
look like?	Responsible for the design should be ISRBC
How should the implementation of the tool look like?	Responsible for the implementation should be Country-level authorities (Civil protection and/or water/flood management agencies)
What should be taken into account for the maintenance of the tool?	
ASSIGNMENTS/COM	IMENTS
DRM PHASE	Preparedness, response
TIME PERSPECTIVE	Can be implemented in MID TERM (1-3 years)
ADDITIONAL	Due to the nature of the solution, a negotiation process and corresponding ratification at the country level may be required.
COMMENTS	Final users should be Country-level authorities and humanitarian aid organizations (e.g. EU Civil Protection Mechanism)
STAKEHOLDER STRU	
ORGANISATIONS	Sava Commission <u>Bosnia and Herzegovia:</u> Commission to Preserve National Monuments  Sava River Watershed Agency  Public Institution "Vode Srpske" <u>Croatia:</u> Ministry of Culture, Directorate for the Protection of Cultural Heritage
	Hrvatske vode





Montenegro:
Ministry of Culture
Ministry of Agriculture and Rural Development, Water Management
Directorate
Serbia:
Institute for the Protection of Cultural Monuments of Serbia
Public Water Management Company "Vode Vojvodine"
Slovenia:
Ministry of Culture, Cultural Heritage Directorate
Ministry of the Environment and Spatial Planning, Slovenian Water
Agency
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