

HU_SK_DU_AFP04 Esztergom

Danube



Country: **Slovakia / Hungary**

Centroid: **47.76°N 18.665°E**

Type: **active floodplain**

River kilometre: **1732.1 - 1719.4**

Floodplain length: **12.3 km**

Floodplain area: **31.2 km²**

HQ₁₀₀: **9176 m³/s**

FEM PARAMETER:



Download detailed report (PDF)
http://www.geo.u-szeged.hu/images/DFGIS/HU_SK_DU_AFP04.pdf



Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/HU_SK_DU_AFP.zip

Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

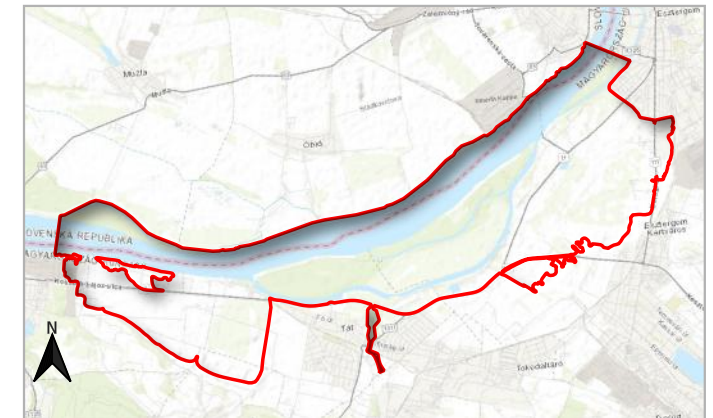
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

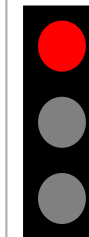
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_SK_DU_AFP05 Pilismarót Danube



Country: **Slovakia / Hungary**

Centroid: **47.802°N 18.875°E**

Type: **active floodplain**

River kilometre: **1710.1 - 1699.8**

Floodplain length: **10.5 km**

Floodplain area: **14.9 km²**

HQ₁₀₀: **9473 m³/s**

FEM PARAMETER:

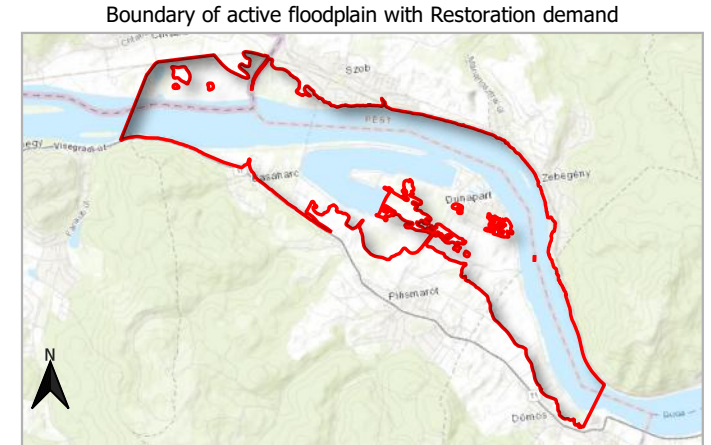
Minimum Parameter Set:



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Download floodplain object (ESRI Shape)
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3.7 km

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

FEM-EVALUATION:

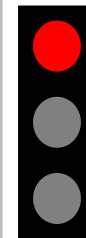
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high

Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP01

Danube

Szentendrei-sz. North



Country: **Hungary**

Centroid: **47.798°N 19.056°E**

Type: **active floodplain**

River kilometre: **1691.9 - 1679.1**

Floodplain length: **13.4 km**

Floodplain area: **32.3 km²**

HQ₁₀₀: **9412 m³/s**

FEM PARAMETER:



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Download floodplain object (ESRI Shape)
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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

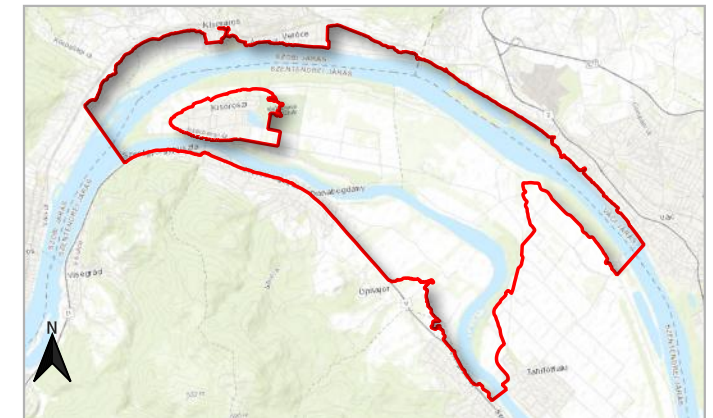
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP02

Danube

Szentendrei-sz. South



Country: **Hungary**

Centroid: **47.627°N 19.096°E**

Type: **active floodplain**

River kilometre: **1665.1 - 1657.5**

Floodplain length: **7.9 km**

Floodplain area: **18.2 km²**

HQ₁₀₀: **9352 m³/s**

FEM PARAMETER:



Download detailed report (PDF)
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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

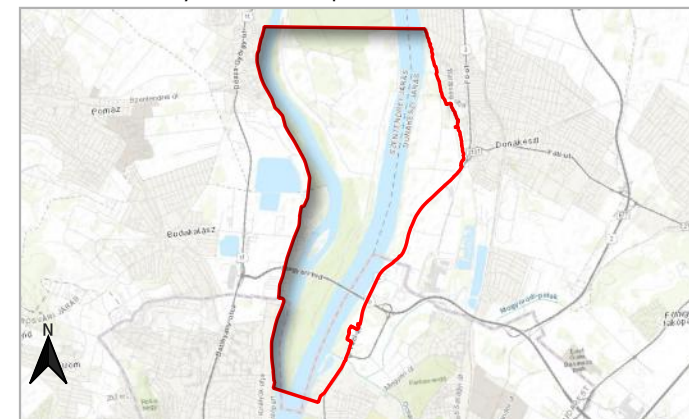
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



4 km

FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION

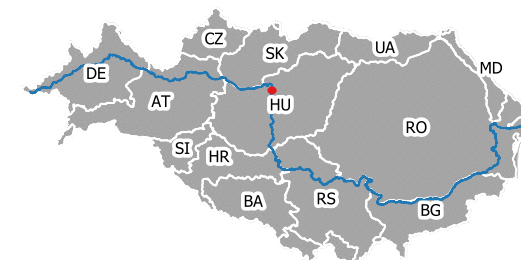


yes

RESTORATION DEMAND



high



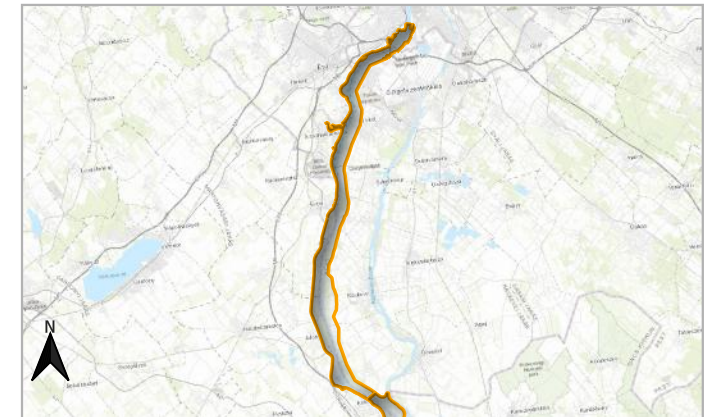
Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP03 Danube

Csepel-sziget

Boundary of active floodplain with Restoration demand



Country: **Hungary**

Centroid: **47.231°N 18.919°E**

Type: **active floodplain**

River kilometre: **1636.6 - 1590.8**

Floodplain length: **45.9 km**

Floodplain area: **70.8 km²**

HQ₁₀₀: **9272 m³/s**

FEM PARAMETER:



Download detailed report (PDF)
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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



medium



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP04

Danube

Dunaújváros



Country: **Hungary**

Centroid: **46.97°N 18.957°E**

Type: **active floodplain**

River kilometre: **1590.8 - 1564.8**

Floodplain length: **26.4 km**

Floodplain area: **44.7 km²**

HQ₁₀₀ : **9084 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

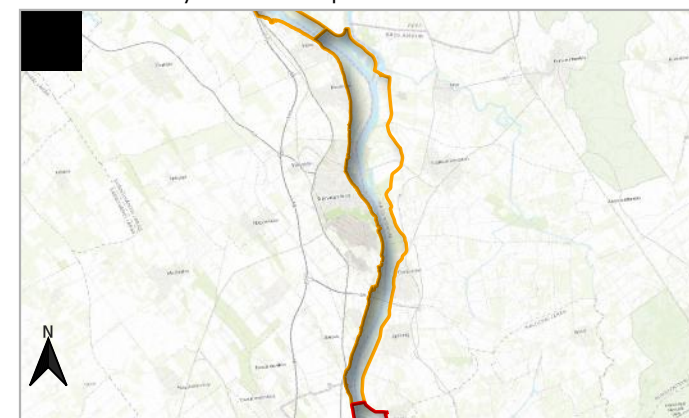
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



medium



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP05 Danube

Dunaföldvár



Country: **Hungary**

Centroid: **46.74°N 18.977°E**

Type: **active floodplain**

River kilometre: **1564.8 - 1535.8**

Floodplain length: **29.6 km**

Floodplain area: **63.8 km²**

HQ₁₀₀: **9022 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

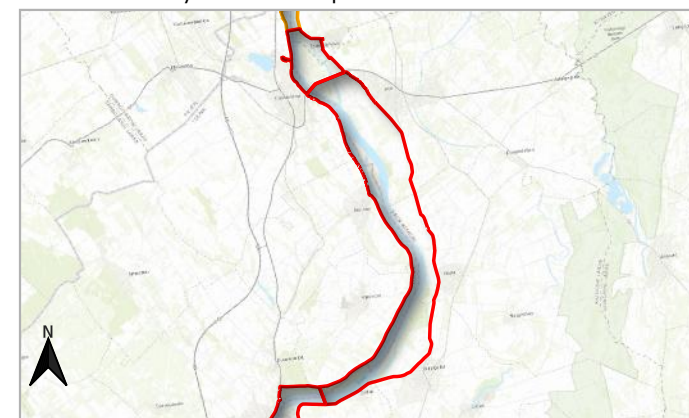
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP06

Paks

Danube



Country: **Hungary**

Centroid: **46.598°N 18.881°E**

Type: **active floodplain**

River kilometre: **1535.8 - 1520.7**

Floodplain length: **14.4 km**

Floodplain area: **20.3 km²**

HQ₁₀₀: **8871 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

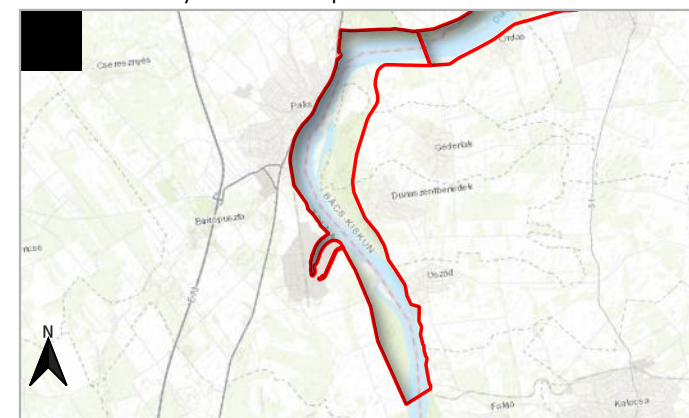
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP07

Danube

Veránka-sziget



Country: **Hungary**

Centroid: **46.217°N 18.871°E**

Type: **active floodplain**

River kilometre: **1498.1 - 1462.7**

Floodplain length: **36.3 km**

Floodplain area: **159 km²**

HQ₁₀₀: **8741 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

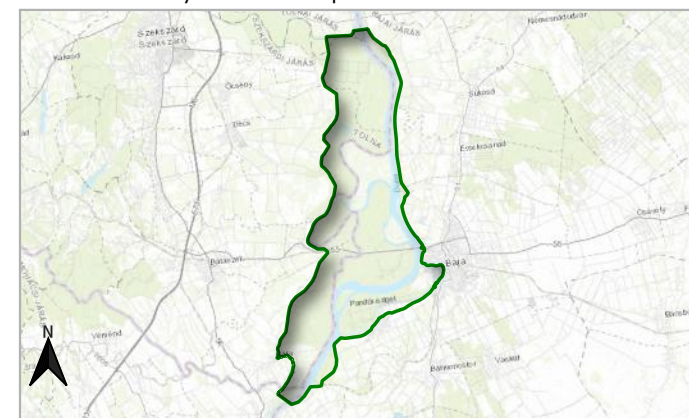
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



17 km

FEM-EVALUATION:

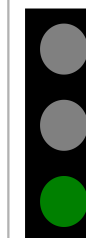
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



low



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HU_DU_AFP08

Danube

Bezerédy-sziget



Country: **Hungary**

Centroid: **46.054°N 18.74°E**

Type: **active floodplain**

River kilometre: **1458.9 - 1452.9**

Floodplain length: **6.2 km**

Floodplain area: **9 km²**

HQ₁₀₀: **8382 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

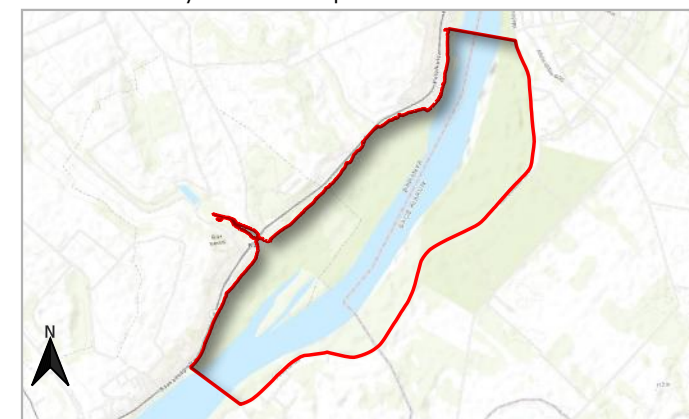
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



2.9 km

FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION

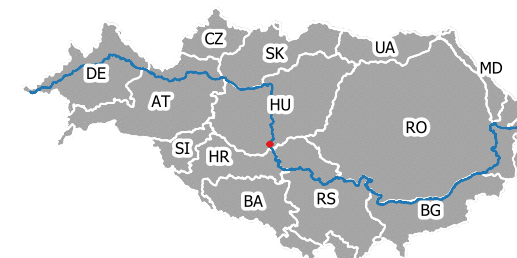


yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HR_HU_DU_AFP01 Béda-Karapnacs

Danube



Country: **Hungary / Croatia / Serbia**

Centroid: **45.908°N 18.793°E**

Type: **active floodplain**

River kilometre: **1444 - 1425**

Floodplain length: **18.6 km**

Floodplain area: **48.2 km²**

HQ₁₀₀ : **8312 m³/s**

FEM PARAMETER:

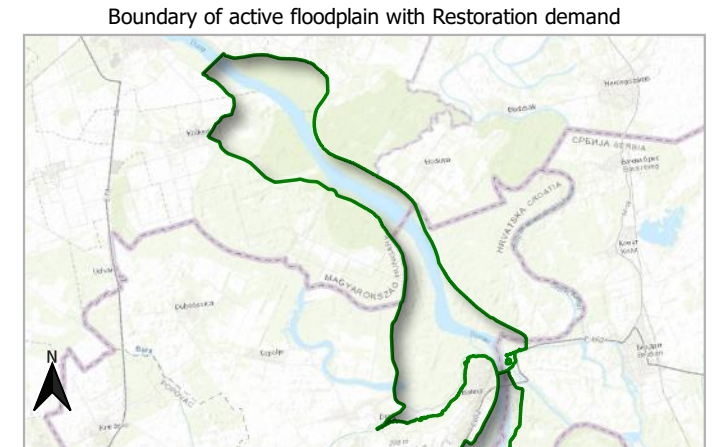
Minimum Parameter Set:



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Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

FEM-EVALUATION:

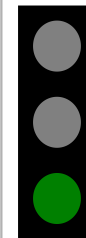
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



low



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HR_RS_DU_AFP01 Kopački rit/Gornje Podunavlje

Danube



Country: **Serbia / Croatia**

Centroid: **45.614°N 18.905°E**

Type: **active floodplain**

River kilometre: **1425 - 1354.2**

Floodplain length: **70.1 km**

Floodplain area: **279.9 km²**

HQ₁₀₀: **8614 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

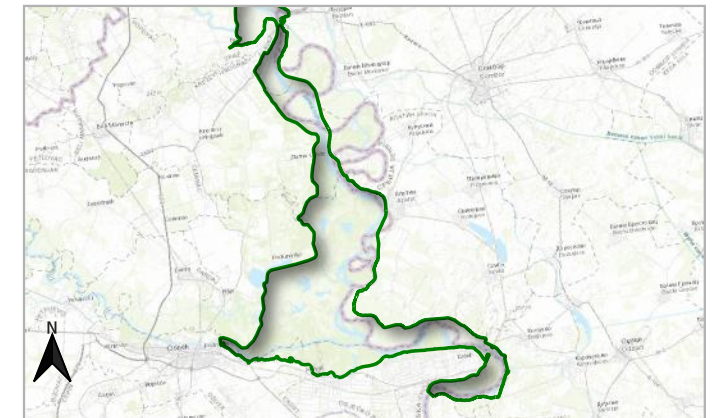
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

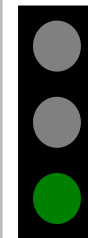
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



low



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HR_RS_DU_AFP02 Borovo/Vajska Danube



Country: **Serbia / Croatia**

Centroid: **45.41°N 18.999°E**

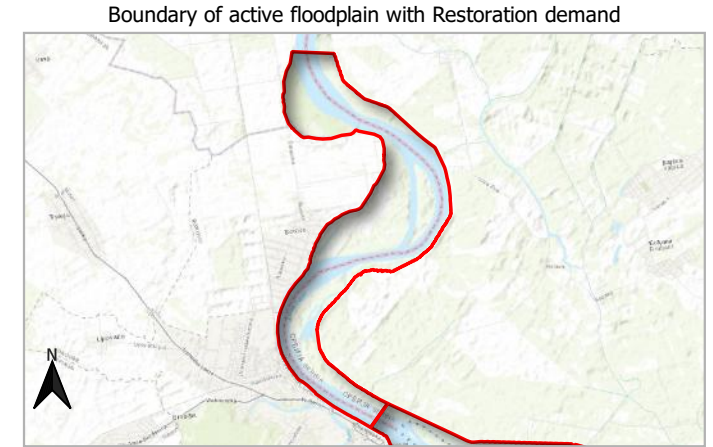
Type: **active floodplain**

River kilometre: **1349.8 - 1334**

Floodplain length: **16.2 km**

Floodplain area: **19.6 km²**

HQ₁₀₀: **8443 m³/s**



FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

FEM-EVALUATION:

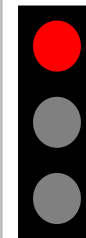
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HR_RS_DU_AFP03 Vukovar/Bačko Novo Selo

Danube



Country: **Serbia / Croatia**

Centroid: **45.323°N 19.084°E**

Type: **active floodplain**

River kilometre: **1334 - 1318**

Floodplain length: **16.8 km**

Floodplain area: **24.6 km²**

HQ₁₀₀: **8433 m³/s**

FEM PARAMETER:



Download detailed report (PDF)
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Download floodplain object (ESRI Shape)
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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

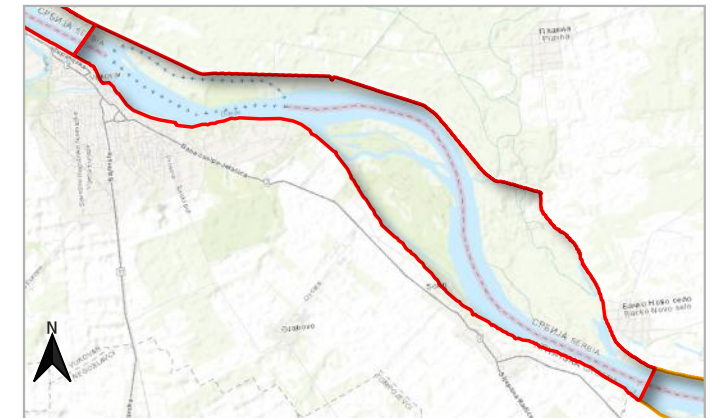
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

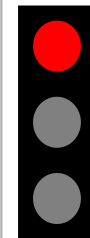
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HR_RS_DU_AFP04 Mohovo/Karadordevo

Danube



Country: **Serbia / Croatia**

Centroid: **45.268°N 19.226°E**

Type: **active floodplain**

River kilometre: **1318 - 1308.4**

Floodplain length: **9.3 km**

Floodplain area: **30 km²**

HQ₁₀₀: **8420 m³/s**

FEM PARAMETER:



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http://www.geo.u-szeged.hu/images/DFGIS/HR_RS_DU_AFP04.pdf



Download floodplain object (ESRI Shape)
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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

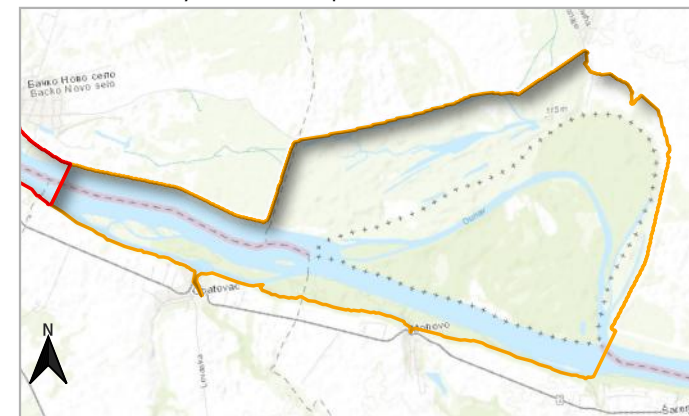
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



3.9 km

FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



medium



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

HR_RS_DU_AFP05 Ilok/Bačka Palanka

Danube



Country: **Serbia / Croatia**

Centroid: **45.235°N 19.485°E**

Type: **active floodplain**

River kilometre: **1303.8 - 1275.8**

Floodplain length: **27.2 km**

Floodplain area: **49.2 km²**

HQ₁₀₀ : **8406 m³/s**

FEM PARAMETER:



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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

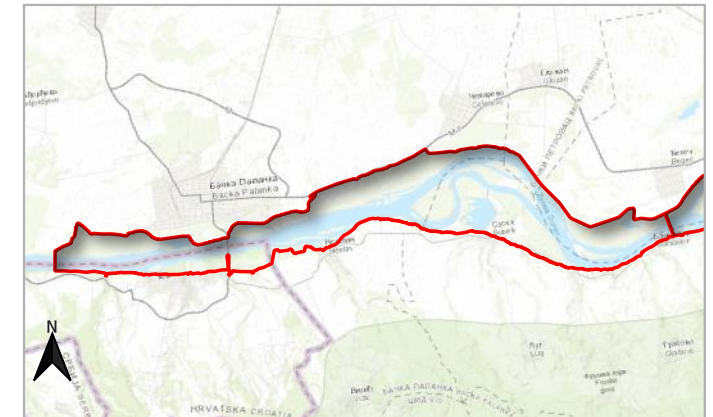
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



8 km

FEM-EVALUATION:

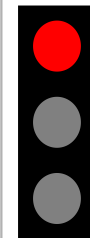
based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

RS_DU_AFP01 Danube

Futog-Beočin



Country: **Serbia**

Centroid: **45.224°N 19.729°E**

Type: **active floodplain**

River kilometre: **1275.8 - 1258.2**

Floodplain length: **16.8 km**

Floodplain area: **34.8 km²**

HQ₁₀₀: **8367 m³/s**

FEM PARAMETER:



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Download floodplain object (ESRI Shape)
http://www.geo.u-szeged.hu/images/DFGIS/RS_DU_AFP.zip

Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

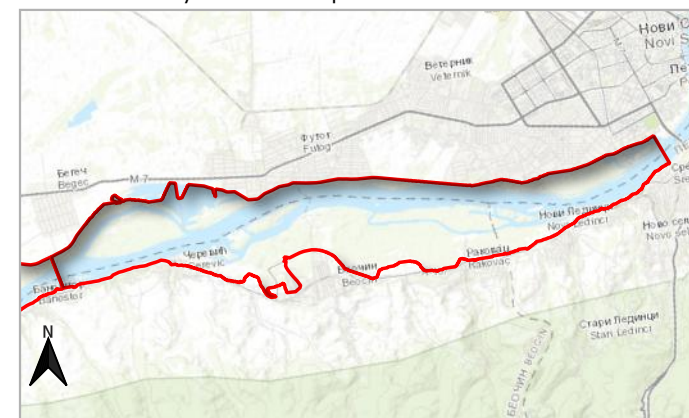
Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

FEM performance

- high
- medium
- low

Boundary of active floodplain with Restoration demand



FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

RS_DU_AFP02 Danube

Koviljsko-petrovaradinski rit



Country: **Serbia**

Centroid: **45.195°N 20.028°E**

Type: **active floodplain**

River kilometre: **1250.7 - 1224.8**

Floodplain length: **25.2 km**

Floodplain area: **74.8 km²**

HQ₁₀₀: **8338 m³/s**

FEM PARAMETER:



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Download floodplain object (ESRI Shape)
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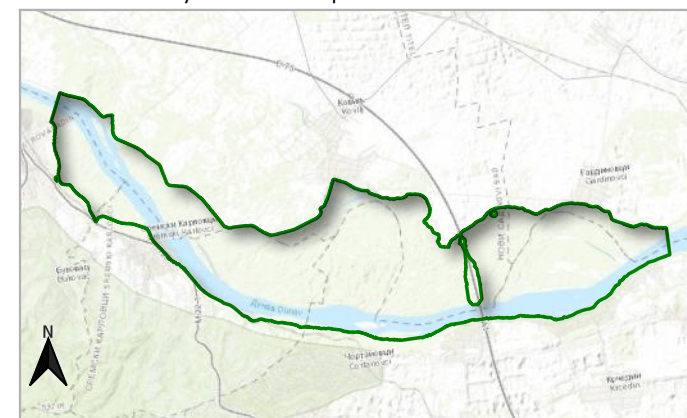
Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
FEM performance high medium low	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

Boundary of active floodplain with Restoration demand



8 km

FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



low



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

RS_DU_AFP03 Danube

Novi Banovci



Country: **Serbia**

Centroid: **44.928°N 20.333°E**

Type: **active floodplain**

River kilometre: **1195.5 - 1176.8**

Floodplain length: **17.3 km**

Floodplain area: **27.7 km²**

HQ₁₀₀: **11265 m³/s**

FEM PARAMETER:



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Download floodplain object (ESRI Shape)
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Minimum Parameter Set:

Hydrology	Hydraulics	Ecology	Socio-Economics
Peak reduction	Water level change	Connectivity of floodplain water bodies	Potentially affected buildings
Flood wave translation		Existence of protected species	Land use

Additional Parameter Set:

Effects in case of extreme discharges	Flow velocity	Existence of protected habitats	Prencence of documented planning interests
	Bottom shear stress	Vegetation naturalness	
		Water level dynamics	
		Potential for typical habitats	
		Ecological water body status	

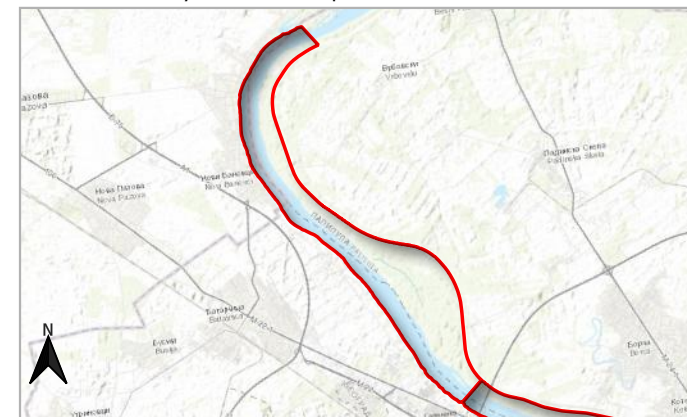
FEM performance

high

medium

low

Boundary of active floodplain with Restoration demand



8 km

FEM-EVALUATION:

based on minimum parameters

NEED FOR PRESERVATION



yes

RESTORATION DEMAND



high



Danube Floodplain

Reducing the flood risk through floodplain restoration along the Danube River and tributaries

