

D. All factsheets for the active and potential floodplains along the Danube River

# DE\_DU\_AFP01 Danube

Donaueschingen



Country: **Germany**

Centroid: **47.935°N 8.549°E**

Type: **active floodplain**

River kilometre: **nodata**

Floodplain length: **13.3 km**

Floodplain area: **9.7 km<sup>2</sup>**

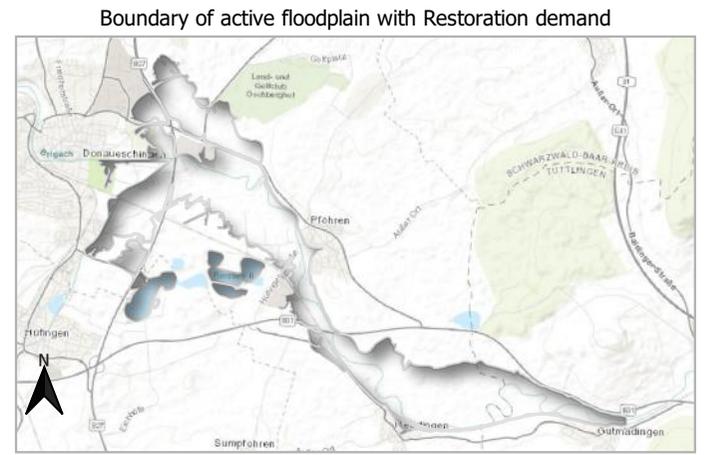
HQ<sub>100</sub>: **nodata**

## FEM PARAMETER:

Minimum Parameter Set:

Download detailed report (PDF)  
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Download floodplain object (ESRI Shape)  
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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

|   |  |
|---|--|
| <p><b>NEED FOR PRESERVATION</b></p> <p>no</p> | <p><b>RESTORATION DEMAND</b></p> <p>no info.</p> |
|---|--|



## Danube Floodplain

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

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# DE\_DU\_AFP02

## Danube

Riedlingen



Country: **Germany**

Centroid: **48.183°N 9.501°E**

Type: **active floodplain**

River kilometre: **nodata**

Floodplain length: **10.6 km**

Floodplain area: **6.3 km<sup>2</sup>**

HQ<sub>100</sub> : **nodata**

### 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                       |

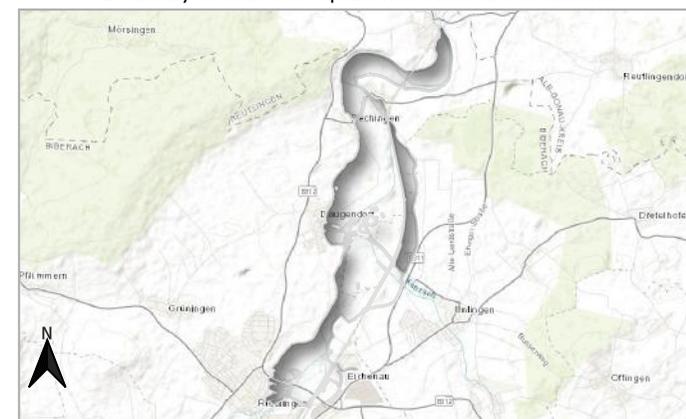
Additional Parameter Set:

| 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**



no

**RESTORATION DEMAND**



no info.



## Danube Floodplain

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

# DE\_DU\_AFP03 Danube

## Oberelchingen - Lech



Country: **Germany**

Centroid: **48.599°N 10.581°E**

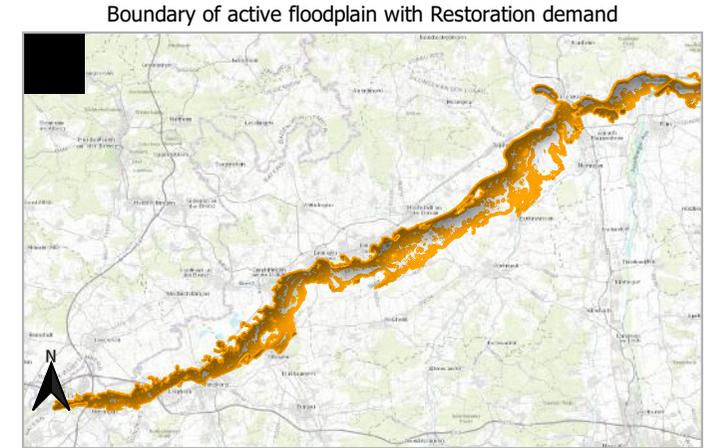
Type: **active floodplain**

River kilometre: **2576 - 2490**

Floodplain length: **82.7 km**

Floodplain area: **155.5 km<sup>2</sup>**

HQ<sub>100</sub>: **1350 m<sup>3</sup>/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**



medium



## Danube Floodplain

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

# DE\_DU\_AFP04



Germany

20.4 km

32.3 km<sup>2</sup>

1450 m<sup>3</sup>/s



## FEM PARAMETER:

| 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                                  |
| Effects in case of extreme discharges | Flow velocity       | Existence of protected habitats         | Presence 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



# DE\_DU\_AFP05 Danube

Bergheim – Ingolstadt



Country: **Germany**

Centroid: **48.743°N 11.332°E**

Type: **active floodplain**

River kilometre: **2484.5 - 2458**

Floodplain length: **15.3 km**

Floodplain area: **21.9 km<sup>2</sup>**

HQ<sub>100</sub> : **2100 m<sup>3</sup>/s**

## FEM PARAMETER:



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Download floodplain object (ESRI Shape)  
[http://www.geo.u-szeged.hu/images/DFGIS/DE\\_DU\\_AFP.zip](http://www.geo.u-szeged.hu/images/DFGIS/DE_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                       |

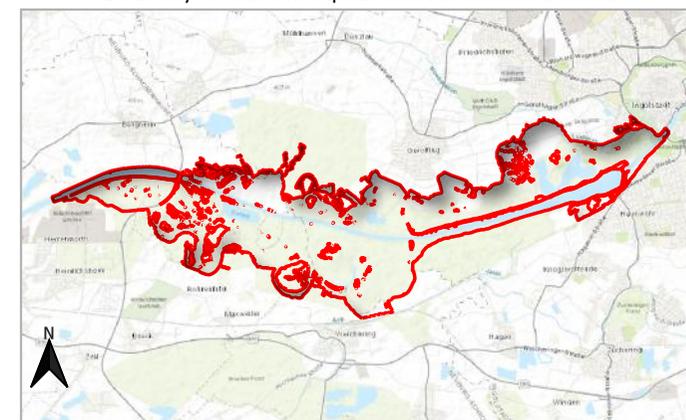
Additional Parameter Set:

| 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



Country: **Germany**

Centroid: **48.831°N 11.75°E**

Type: **active floodplain**

River kilometre: **2432 - 2408**

Floodplain length: **15.5 km**

Floodplain area: **16.4 km<sup>2</sup>**

HQ<sub>100</sub>: **2200 m<sup>3</sup>/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                       |

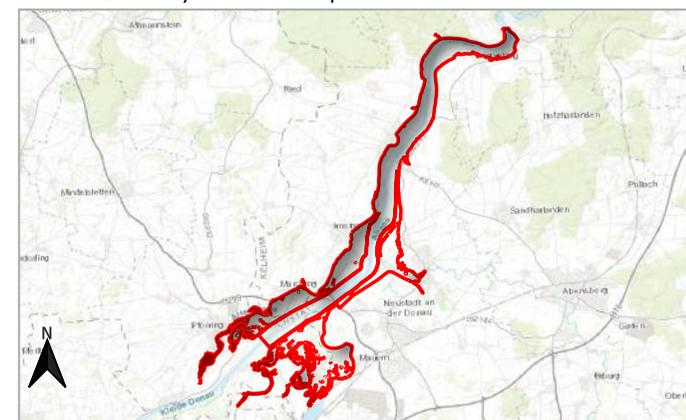
Additional Parameter Set:

| 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:

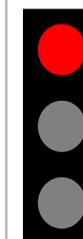
based on minimum parameters

**NEED FOR PRESERVATION**



yes

**RESTORATION DEMAND**



high



### Danube Floodplain

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

# DE\_DU\_AFP07 Danube

Regensburg



Country: **Germany**

Centroid: **49.018°N 12.192°E**

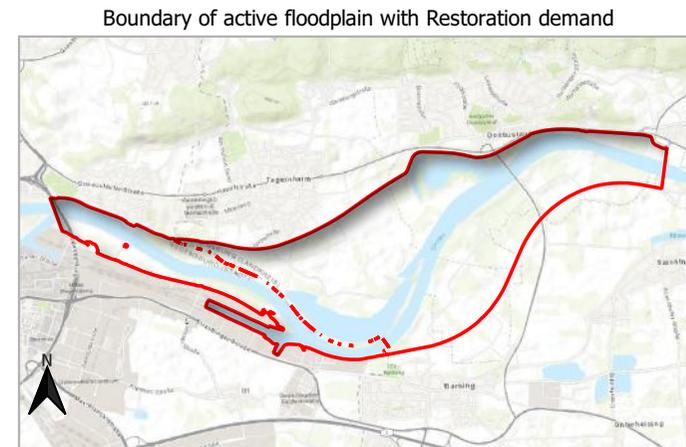
Type: **active floodplain**

River kilometre: **2376.5 - 2367.5**

Floodplain length: **8.9 km**

Floodplain area: **7.5 km<sup>2</sup>**

HQ<sub>100</sub>: **3400 m<sup>3</sup>/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

# DE\_DU\_AFP08 Danube

Geisling/Gmünd



Country: **Germany**

Centroid: **48.97°N 12.432°E**

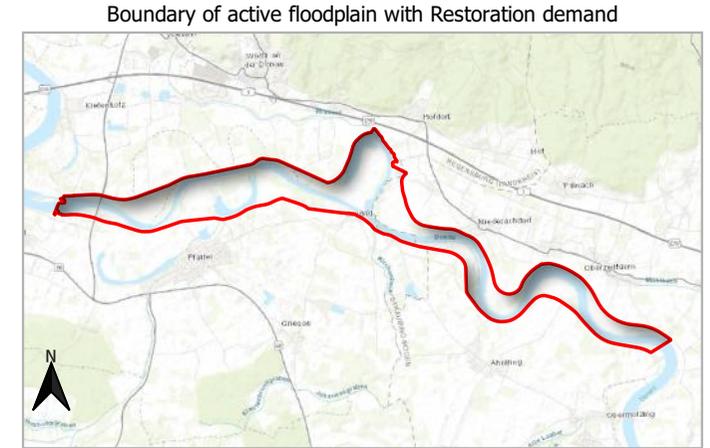
Type: **active floodplain**

River kilometre: **2354 - 2347**

Floodplain length: **18.6 km**

Floodplain area: **10.6 km<sup>2</sup>**

HQ<sub>100</sub>: **3400 m<sup>3</sup>/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                       |

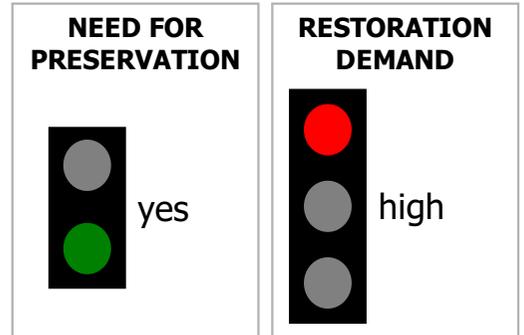
Additional Parameter Set:

| 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



## Danube Floodplain

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

# DE\_DU\_AFP09 Danube

## Straubing - Isar



Country: **Germany**

Centroid: **48.867°N 12.742°E**

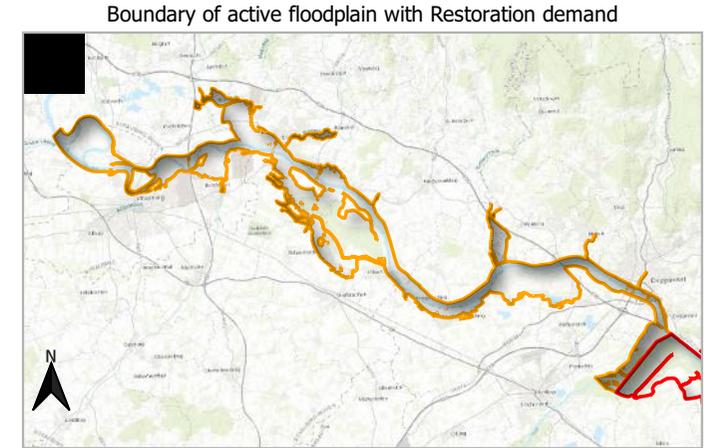
Type: **active floodplain**

River kilometre: **2327 - 2284.5**

Floodplain length: **46.8 km**

Floodplain area: **67.2 km<sup>2</sup>**

HQ<sub>100</sub>: **3400 m<sup>3</sup>/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**



medium



## Danube Floodplain

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

# DE\_DU\_AFP10 Danube

Isar - Vilshofen



Country: **Germany**

Centroid: **48.731°N 13.043°E**

Type: **active floodplain**

River kilometre: **2284.5 - 2249.5**

Floodplain length: **30.7 km**

Floodplain area: **45.3 km<sup>2</sup>**

HQ<sub>100</sub>: **4100 m<sup>3</sup>/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    |  |

|                        |
|------------------------|
| <b>FEM performance</b> |
| 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

# AT\_DU\_AFP01

## Danube

Aschach - Ottensheim



Country: **Austria**

Centroid: **48.32°N 14.092°E**

Type: **active floodplain**

River kilometre: **2160 - 2144.5**

Floodplain length: **15.2 km**

Floodplain area: **56.4 km<sup>2</sup>**

HQ<sub>100</sub>: **8320 m<sup>3</sup>/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                       |

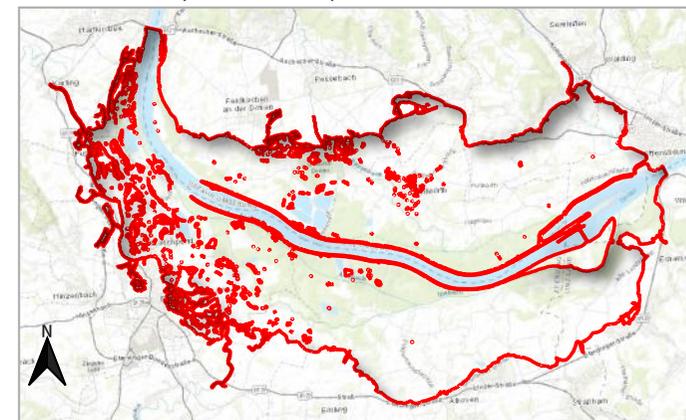
Additional Parameter Set:

| 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

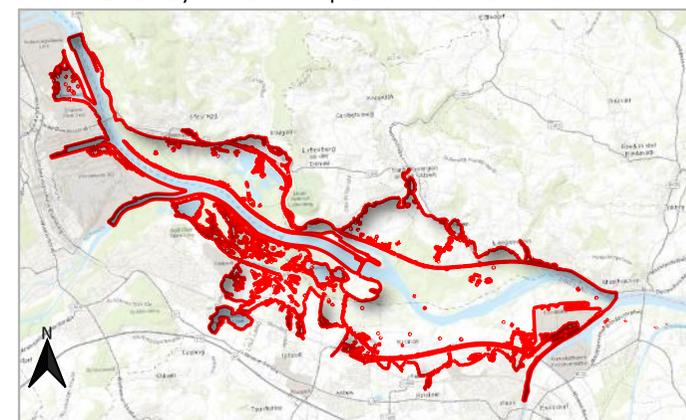
Reducing the flood risk through floodplain restoration along the Danube River and tributaries

# AT\_DU\_AFP02

## Danube

Linz - Mauthausen

Boundary of active floodplain with Restoration demand



Country: **Austria**

Centroid: **48.253°N 14.426°E**

Type: **active floodplain**

River kilometre: **2130 - 2112**

Floodplain length: **18.1 km**

Floodplain area: **34.8 km<sup>2</sup>**

HQ<sub>100</sub>: **8530 m<sup>3</sup>/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    |  |

|                        |
|------------------------|
| <b>FEM performance</b> |
| 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

# AT\_DU\_AFP03

## Danube

### Mauthausen - Ardagger Markt



Country: **Austria**

Centroid: **48.185°N 14.707°E**

Type: **active floodplain**

River kilometre: **2109 - 2084**

Floodplain length: **23.5 km**

Floodplain area: **72.2 km<sup>2</sup>**

HQ<sub>100</sub>: **9560 m<sup>3</sup>/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

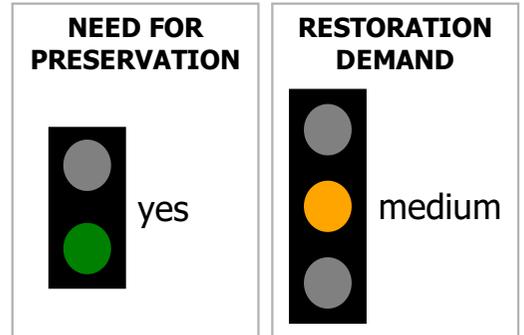
Boundary of active floodplain with Restoration demand



8 km

#### FEM-EVALUATION:

based on minimum parameters



### Danube Floodplain

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

# AT\_DU\_AFP04 Danube

Krems - Wien

Boundary of active floodplain with Restoration demand



19 km



Country: **Austria**

Centroid: **48.36°N 16.035°E**

Type: **active floodplain**

River kilometre: **1999.5 - 1938**

Floodplain length: **60 km**

Floodplain area: **151.9 km<sup>2</sup>**

HQ<sub>100</sub>: **11200 m<sup>3</sup>/s**

## FEM PARAMETER:



Download detailed report (PDF)  
[http://www.geo.u-szeged.hu/images/DFGIS/AT\\_DU\\_AFP04.pdf](http://www.geo.u-szeged.hu/images/DFGIS/AT_DU_AFP04.pdf)



Download floodplain object (ESRI Shape)  
[http://www.geo.u-szeged.hu/images/DFGIS/AT\\_DU\\_AFP.zip](http://www.geo.u-szeged.hu/images/DFGIS/AT_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

## FEM-EVALUATION:

based on minimum parameters

**NEED FOR PRESERVATION**



yes

**RESTORATION DEMAND**



low



## Danube Floodplain

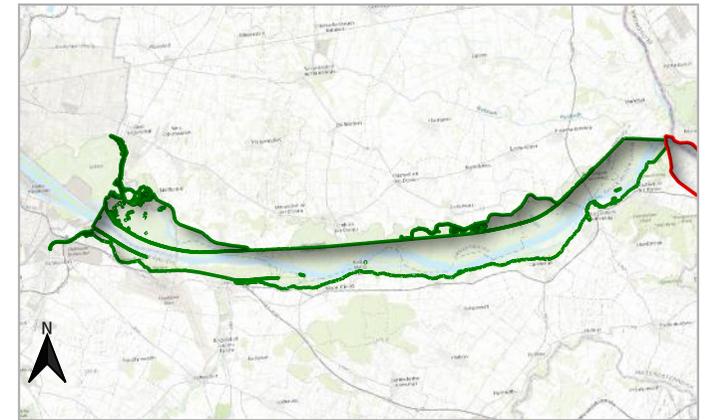
Reducing the flood risk through floodplain restoration along the Danube River and tributaries

# AT\_DU\_AFP05

## Danube

Wien - Devin

Boundary of active floodplain with Restoration demand



Country: **Austria**

Centroid: **48.138°N 16.733°E**

Type: **active floodplain**

River kilometre: **1918 - 1880**

Floodplain length: **37.8 km**

Floodplain area: **85.3 km<sup>2</sup>**

HQ<sub>100</sub>: **10400 m<sup>3</sup>/s**

### FEM PARAMETER:



Download detailed report (PDF)  
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Download floodplain object (ESRI Shape)  
[http://www.geo.u-szeged.hu/images/DFGIS/AT\\_DU\\_AFP.zip](http://www.geo.u-szeged.hu/images/DFGIS/AT_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

### FEM-EVALUATION:

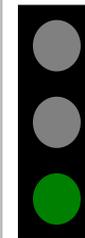
based on minimum parameters

**NEED FOR PRESERVATION**



yes

**RESTORATION DEMAND**



low



## Danube Floodplain

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

# AT\_SK\_DU\_AFP01 Devin - Wolfsthal

## Danube



Country: **Austria / Slovakia**

Centroid: **48.144°N 17.025°E**

Type: **active floodplain**

River kilometre: **1880 - 1871.5**

Floodplain length: **9.8 km**

Floodplain area: **19.8 km<sup>2</sup>**

HQ<sub>100</sub>: **11000 m<sup>3</sup>/s**

### FEM PARAMETER:



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

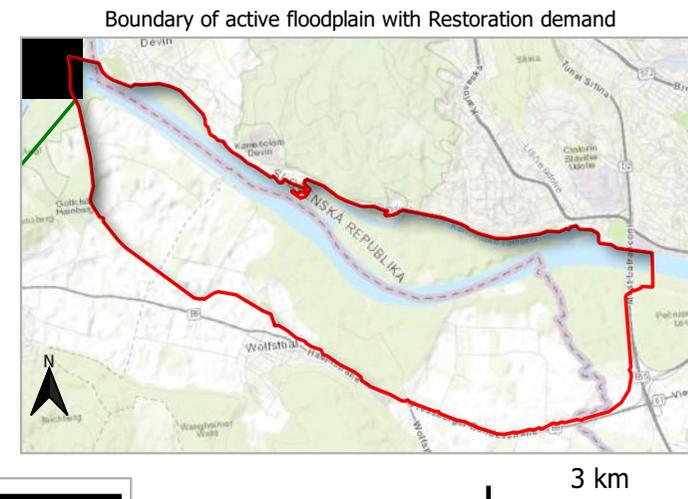
| Hydrology              | Hydraulics         | Ecology                                 | Socio-Economics                |
|------------------------|--------------------|---|--------------------------------|
| Peak reduction         | Water level change | Connectivity of floodplain water bodies | Potentially 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



### FEM-EVALUATION:

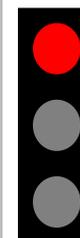
based on minimum parameters

**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\_AFP01 Szigetköz

## Danube



Country: **Slovakia / Hungary**

Centroid: **47.889°N 17.476°E**

Type: **active floodplain**

River kilometre: **1851.8 - 1797**

Floodplain length: **51.4 km**

Floodplain area: **140.2 km<sup>2</sup>**

HQ<sub>100</sub>: **10425 m<sup>3</sup>/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**

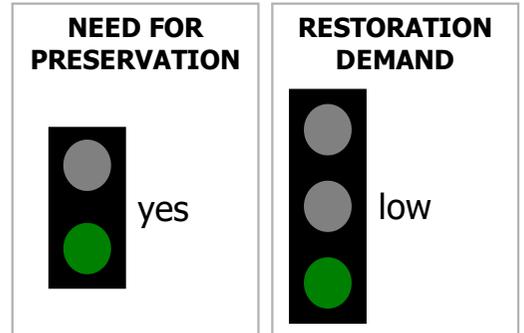
- high
- medium
- low

Boundary of active floodplain with Restoration demand



### FEM-EVALUATION:

based on minimum parameters



## Danube Floodplain

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

# HU\_SK\_DU\_AFP02 Gönyű

## Danube



Country: **Slovakia / Hungary**

Centroid: **47.737°N 17.853°E**

Type: **active floodplain**

River kilometre: **1797 - 1777**

Floodplain length: **19.9 km**

Floodplain area: **40.6 km<sup>2</sup>**

HQ<sub>100</sub>: **9420 m<sup>3</sup>/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                       |

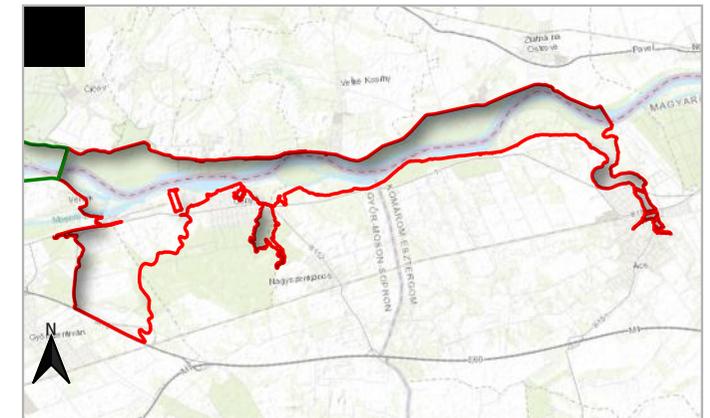
Additional Parameter Set:

| 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



7 km

### FEM-EVALUATION:

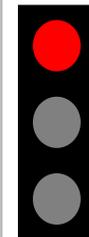
based on minimum parameters

**NEED FOR PRESERVATION**



yes

**RESTORATION DEMAND**



high



## Danube Floodplain

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

# HU\_SK\_DU\_AFP03 Almásfüzitő Danube



Country: **Slovakia / Hungary**

Centroid: **47.727°N 18.296°E**

Type: **active floodplain**

River kilometre: **1756 - 1751.3**

Floodplain length: **4 km**

Floodplain area: **8.3 km<sup>2</sup>**

HQ<sub>100</sub>: **9293 m<sup>3</sup>/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                       |

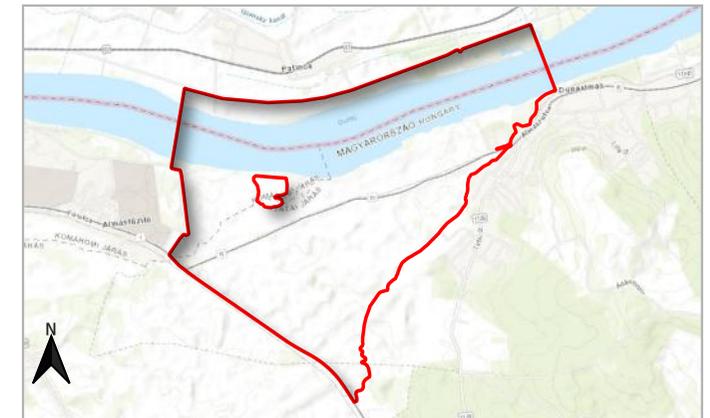
Additional Parameter Set:

| 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:

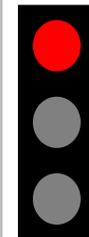
based on minimum parameters

**NEED FOR PRESERVATION**



yes

**RESTORATION DEMAND**



high



## Danube Floodplain

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