



RivConnect

Paulo Branco



Fundação
para a Ciência
e a Tecnologia



UNIVERSIDADE
DE LISBOA



TERRA
Laboratory for sustainable
land use and ecosystem services

Dammed Fish



RvTool

RvConnect

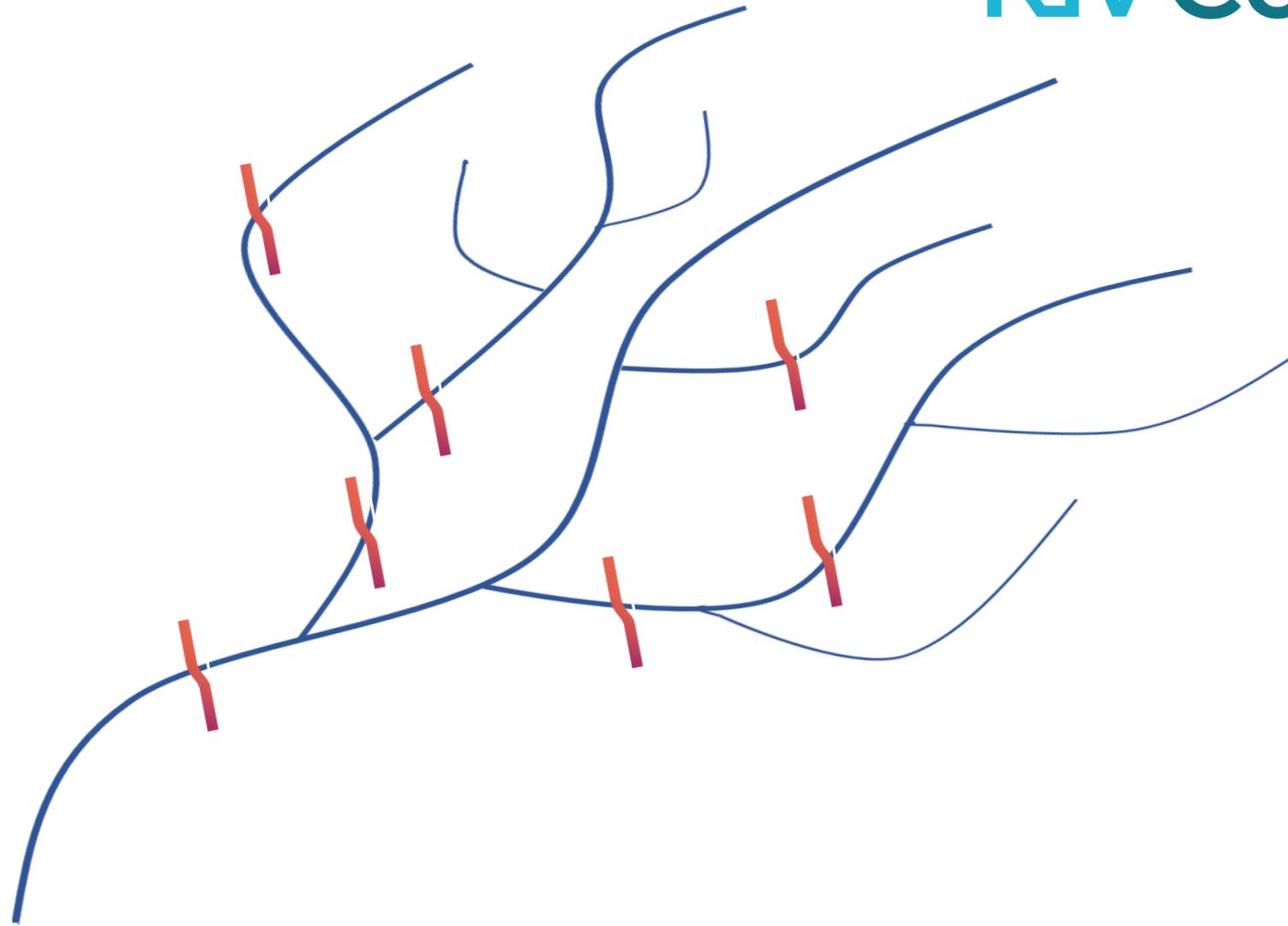


RIVConnect



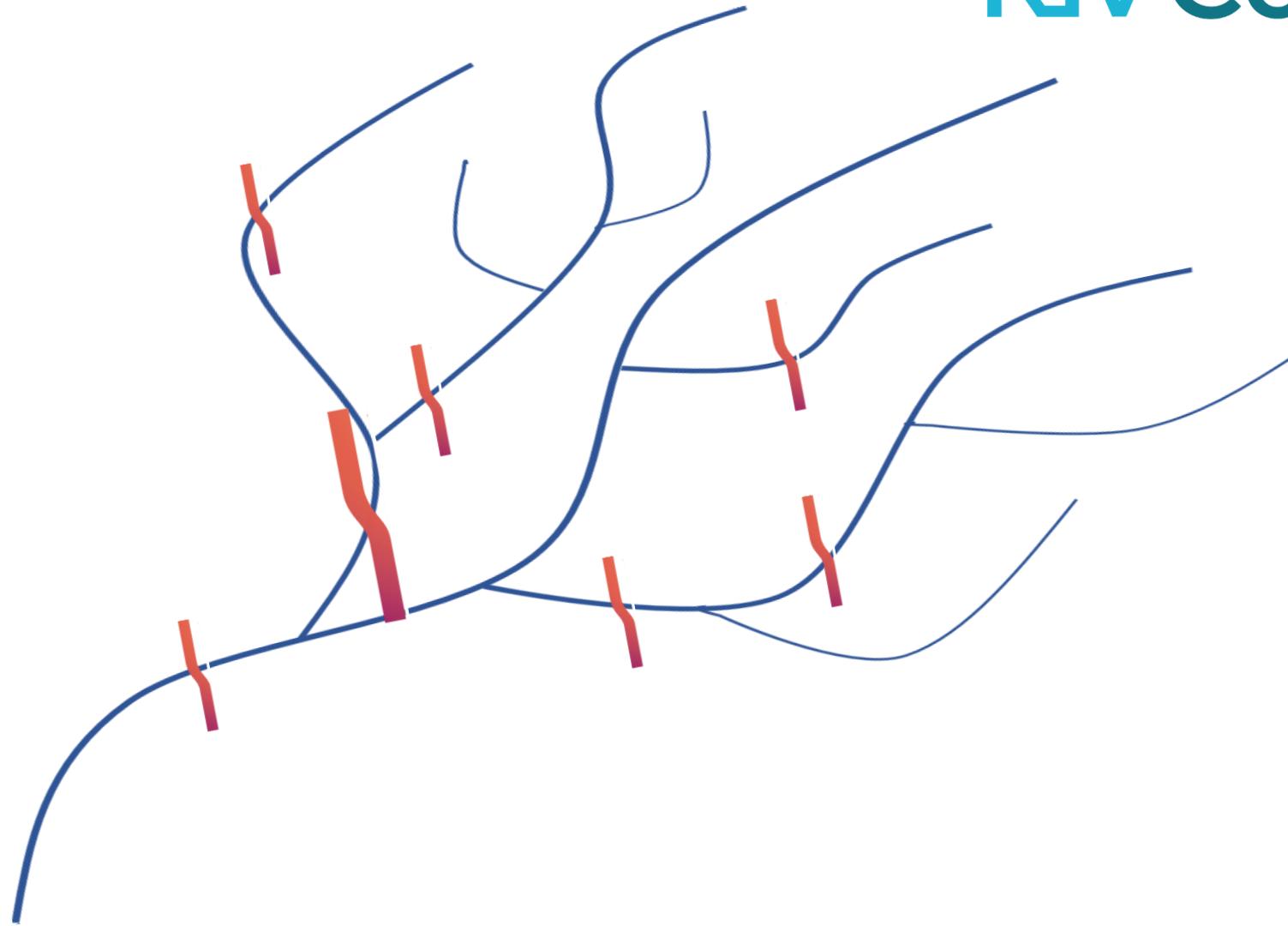


RIVConnect





RIVConnect





RivConnect

Functions:

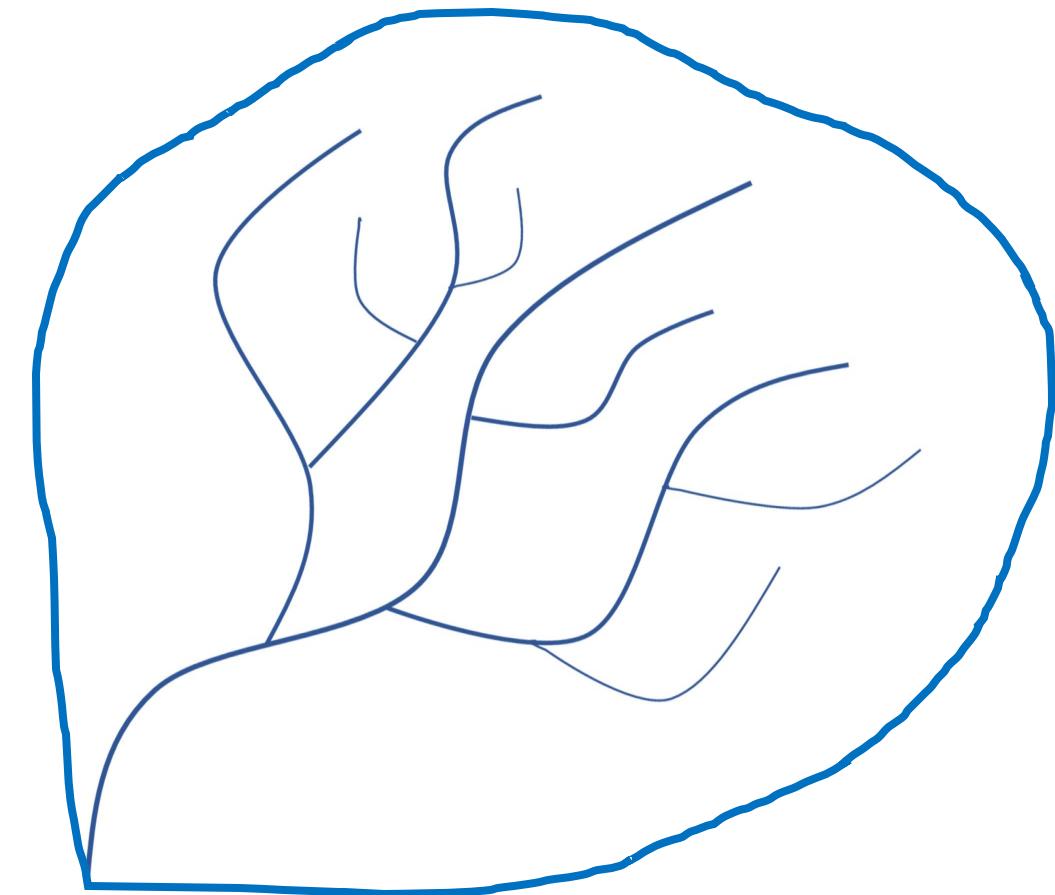
- Connectivity Basic Stats



Calculates number of fragments, barriers, segments (nodes) & connections (between segments) per river network

Functions:

- Connectivity Basic Stats



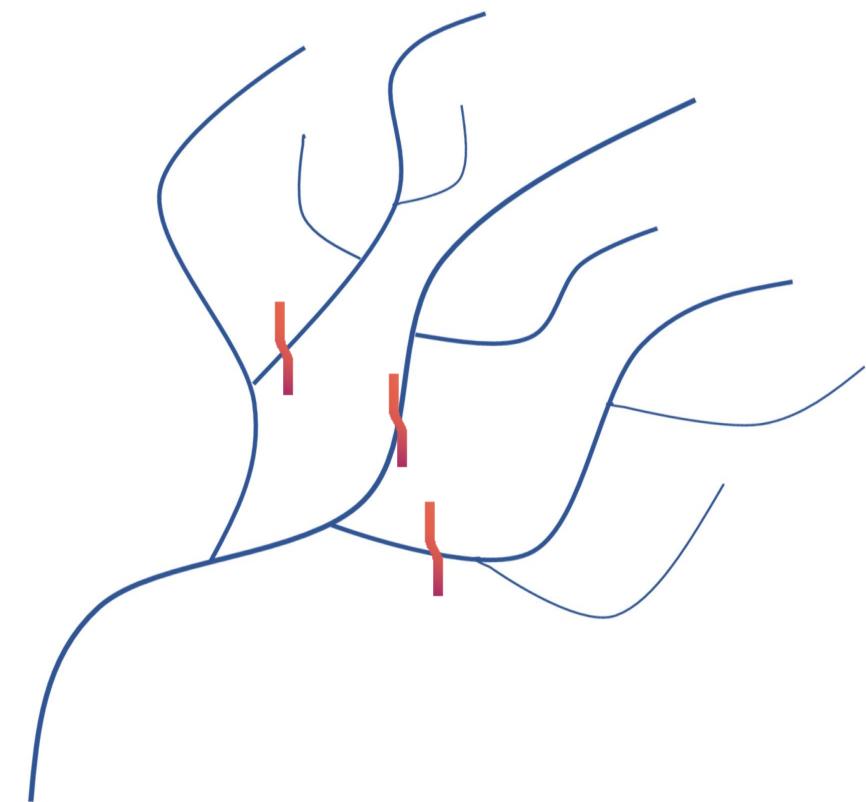


RivConnect

Calculates length, area, number of segments & connections per fragment with a river network

Functions:

- Connectivity Basic Stats
- Connectivity Fragment basic stats



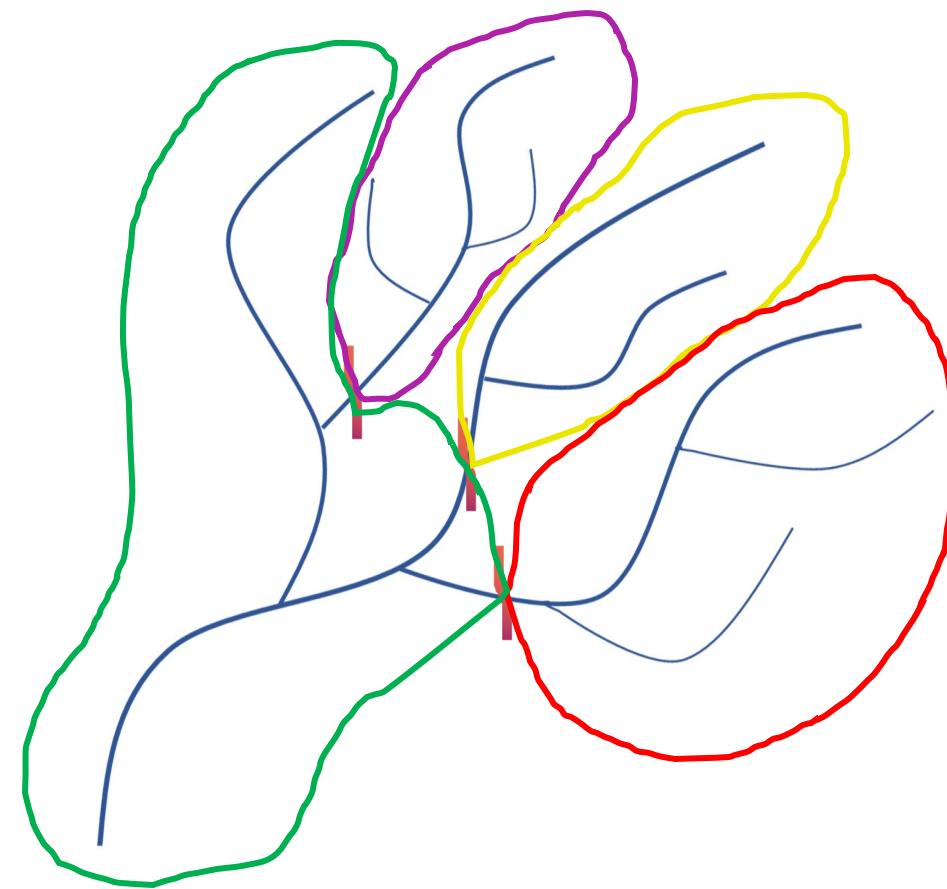


RivConnect

Calculates length, area, number of segments & connections per fragment with a river network

Functions:

- Connectivity Basic Stats
- Connectivity Fragment basic stats





RIVConnect

Functions:

- Connectivity Basic Stats
- Connectivity Fragment basic stats
- BC
- IIC
- H



Functions:

- Connectivity Basic Stats
- Connectivity Fragment basic stats
- BC
- IIC
- H
- PC
- DCId
- DCIp
- cDCI
- Flux
- AWF
- LWF

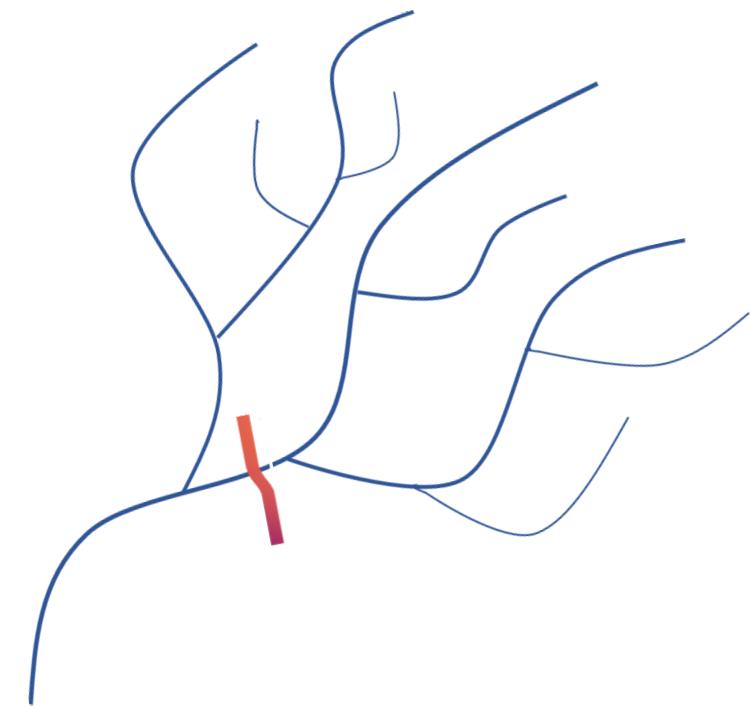


RIVConnect

Binary

Functions:

- Connectivity Basic Stats
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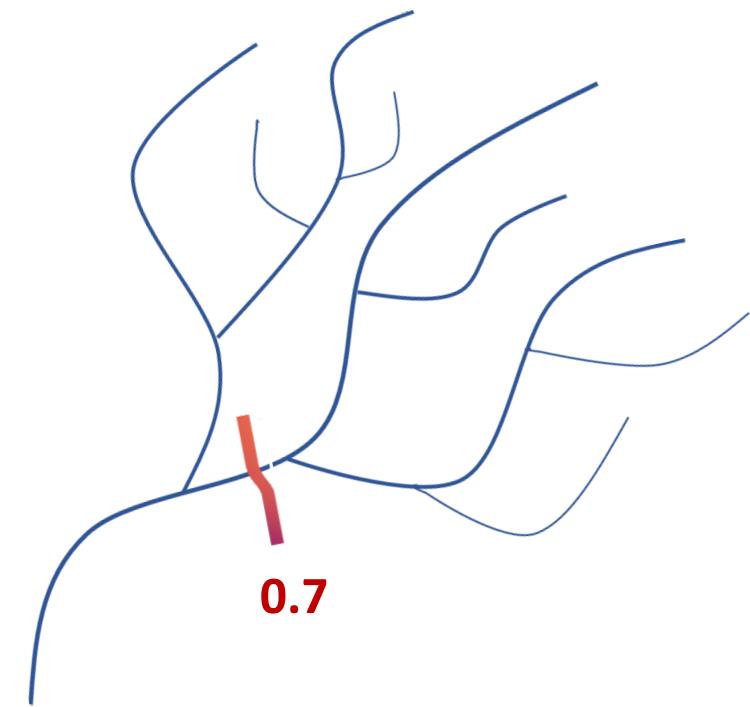
Binary

Probabilistic Symmetric

Functions:

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Functions:

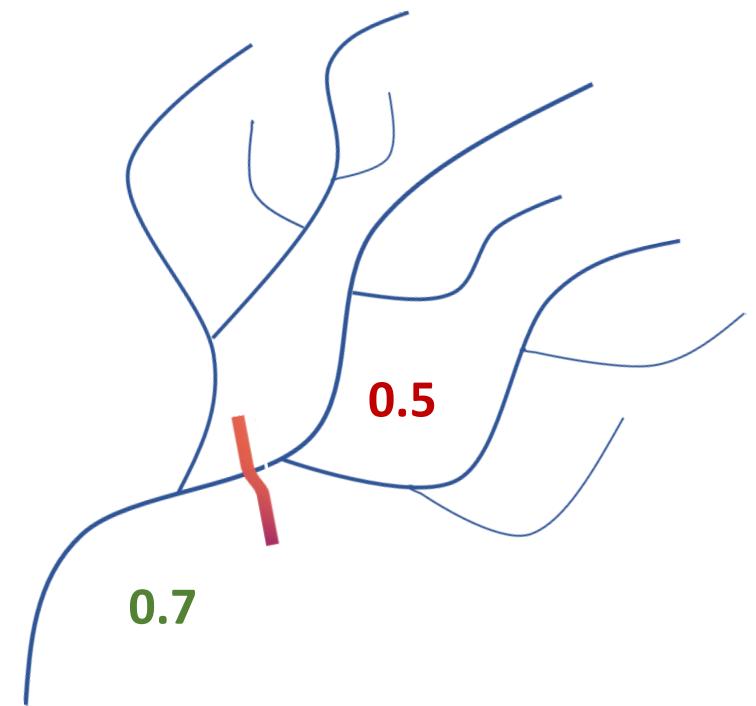
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Binary

Probabilistic Symmetric

Probabilistic Asymmetric Adirectional





Functions:

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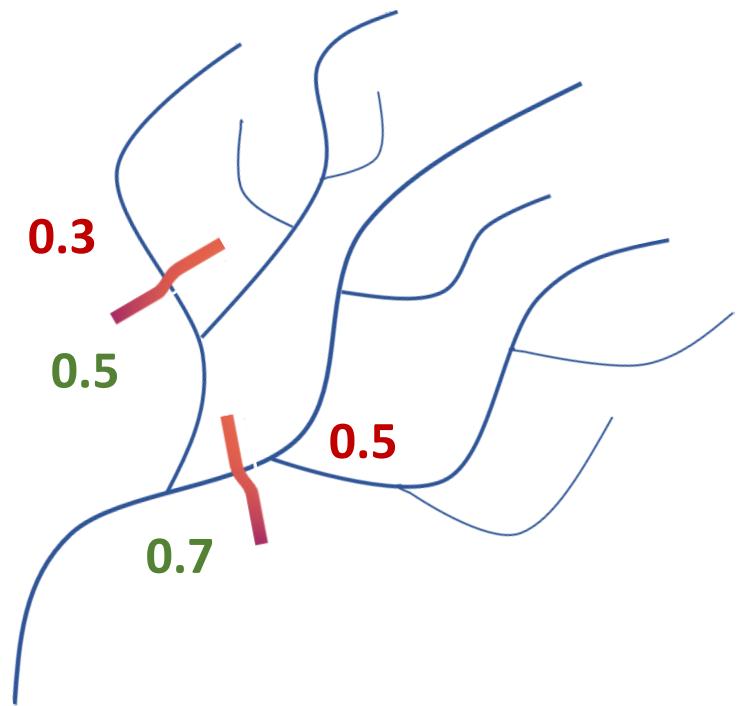
- PC
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Binary

Probabilistic Symmetric

Probabilistic Asymmetric Adirectional

Probabilistic Asymmetric Directional



Functions:

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3

Binary

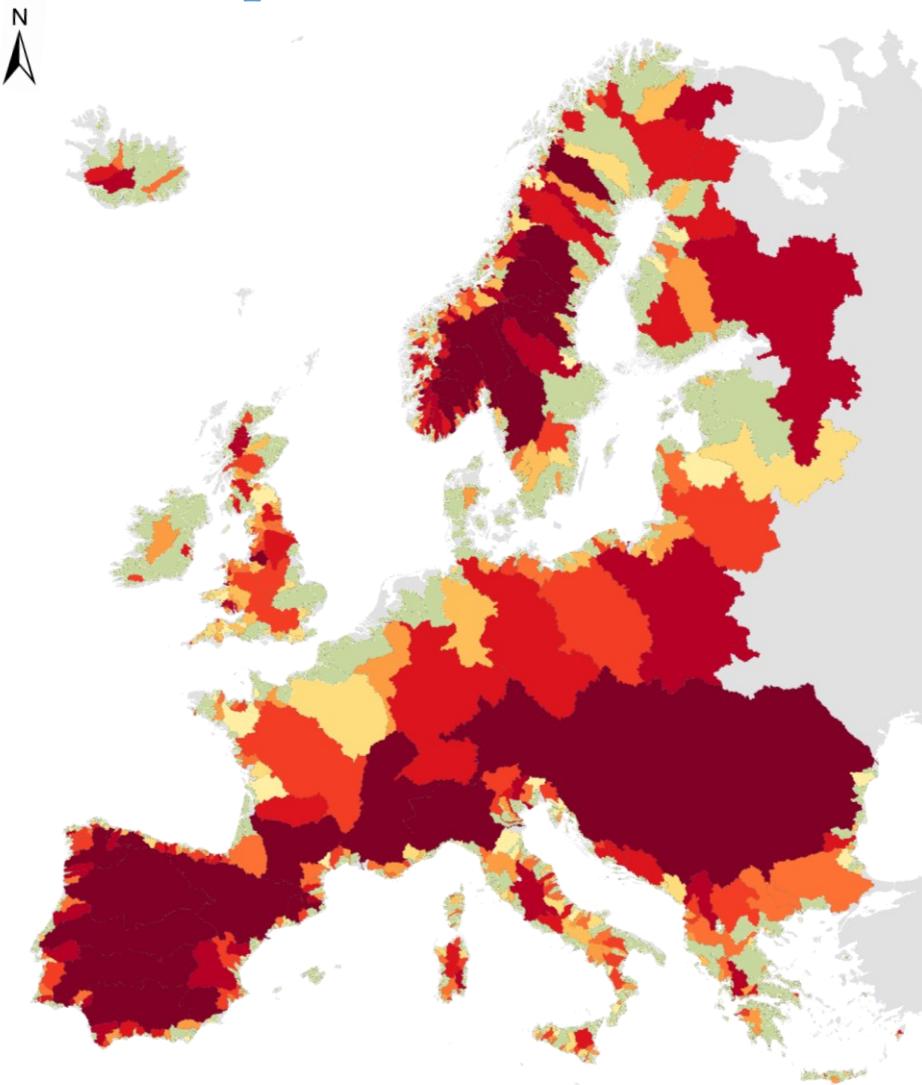
Probabilistic Symmetric

Probabilistic Asymmetric Adirectional

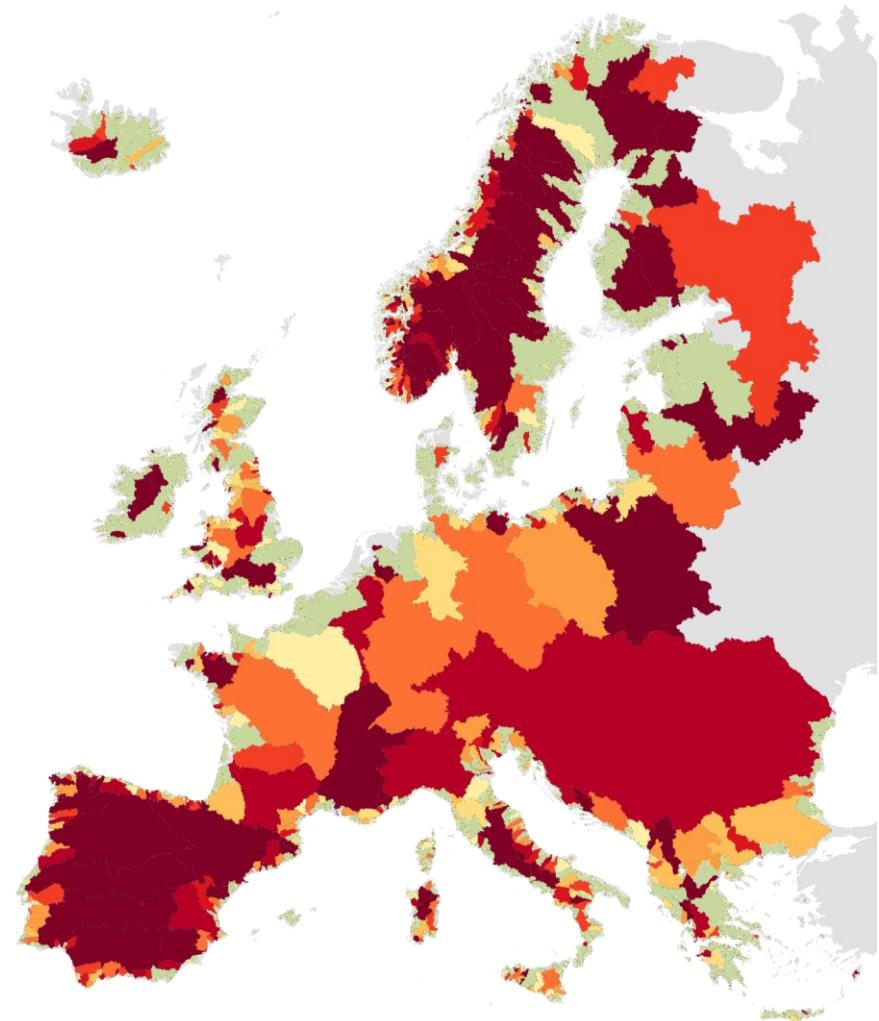
Probabilistic Asymmetric Directional

1

potamodromous



diadromous



**Dendritic
Connectivity
Index**

[Color Box]	0.0 - 0.1
[Color Box]	0.1 - 0.2
[Color Box]	0.2 - 0.3
[Color Box]	0.3 - 0.4
[Color Box]	0.4 - 0.5
[Color Box]	0.5 - 0.6
[Color Box]	0.6 - 0.7
[Color Box]	0.7 - 0.8
[Color Box]	0.8 - 0.9
[Color Box]	> 0.9
[Color Box]	Basins
[Color Box]	Excluded Basins

0 250 500 Km

Future developments:

- Fully integration into the RivTool platform **RivTool**

- New functions

- Catchment Area-based Fragmentation Index (CAFI)
 - Catchment Area- and Rainfall-based Fragmentation Index (CARFI)
 - River Regulation Index (RRI)
 - River Connectivity Index (RCIvol; RCIclass; RCIrange)
 - Biodiversity Index (BI)

- Graphic representations for enhanced visualization

- Online workshops

- Integration with other plug-ins

RivConnect



<https://shorturl.at/cOU39>

[Download and help us improve](#)

RivFish

RivUnit

RivOpt

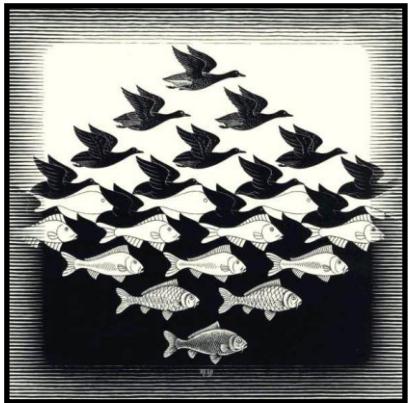


Thank you!
Obrigado!

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