Interreg
Danube Transnational Programme

EUROPEAN UNION

IDES

Dr. Barbara Stammel
Catholic University Eichstätt-Ingolstadt, Germany

https://www.donautal-aktiv.de/

https://commons.wikimedia.org/w/index.php?curid=59989317

Germany
Czech Republic
Slovakia
Ukraine
Austria
Hungary
Moldova
Slovenia
Croatia
Romania
Bosnia and Herzegovina
Serbia
Montenegro
Bulgaria

Project co-funded by European Union funds (ERDF, IPA)

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■ Danube Transnational Programme area

IDES - **I**mproving **water quality** in the **D**anube river and its tributaries by integrative **floodplain** management based on **E**cosystem **S**ervices

Project Duration: 1 July 2020 – 31 December 2022

Project Budget: 1,95 Mio. €

11 Project Partners from 7 countries

14 Associated Strategic Partners

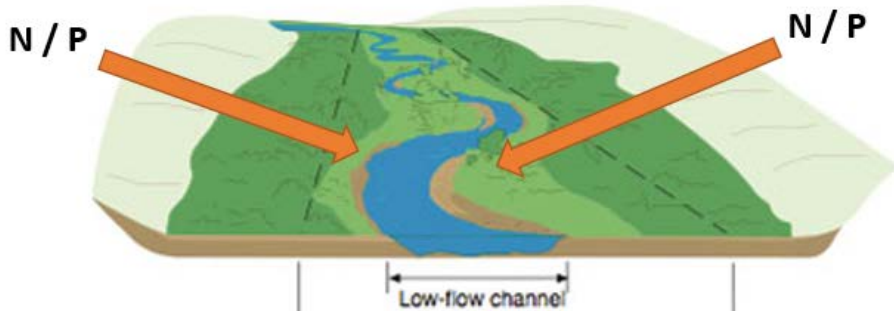(10 countries and 2 international commissions)

PPs and ASPs

Only ASPs

Germany

Czech Republic

Slovakia

Ukraine

Austria

Hungary

Moldova

Slovenia

Croatia

Romania

Bosnia and Herzegovina

Serbia

Montenegro

Bulgaria

Pilot areas

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■ Danube Transnational Programme area
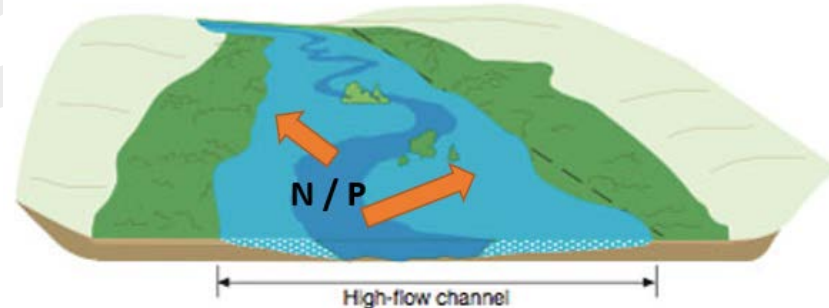
IDES
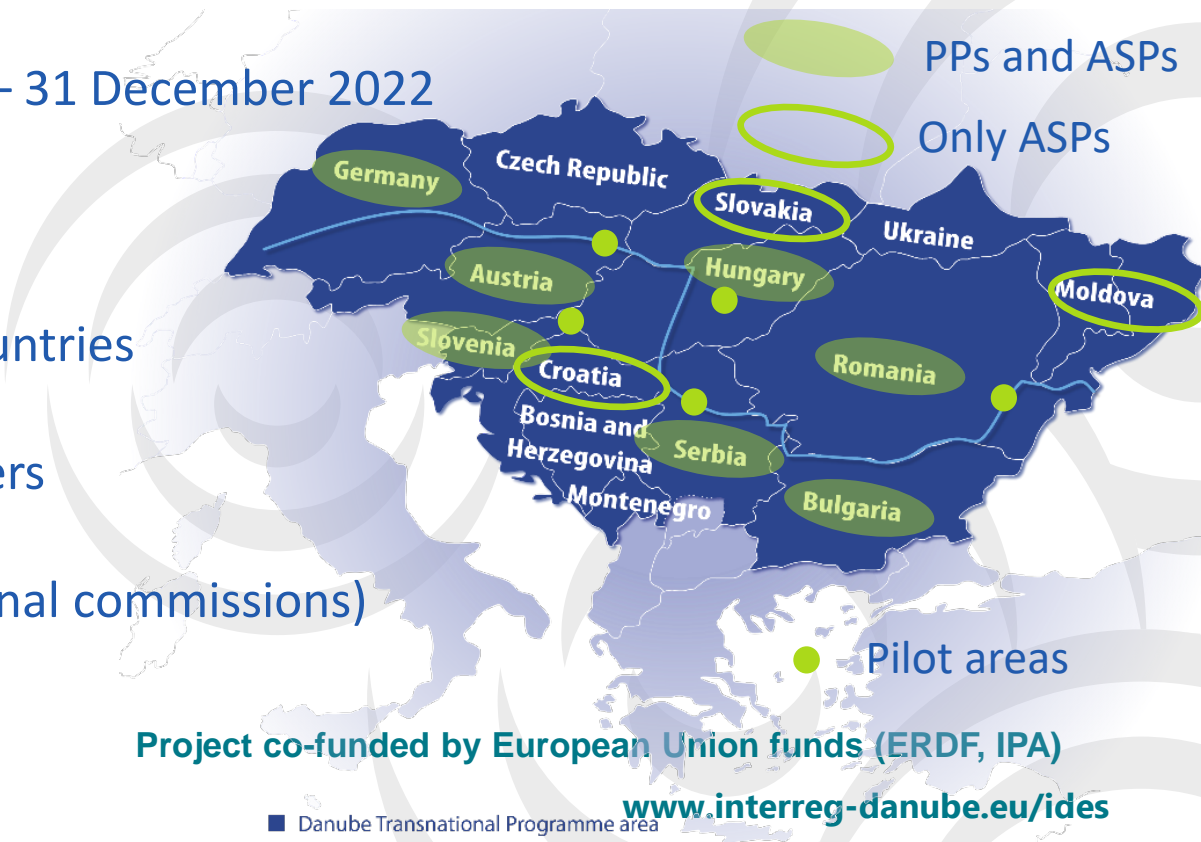
Floodplains

- Are able to **retain nutrients** from the catchment and the river and contribute to **improve water quality**

- Many interests (and legal objectives) in floodplains Modified and threatened

- **Only intact/active floodplains provide many services to human**

Catchment sources

N / P

N / P

Low-flow channel

Riverine sources during floods

N / P

High-flow channel

https://ashokanstreams.org/our-areas-of-focus/floodplain-management/

Ecosystem service approach

Slow progress in implementation due to conflicting human interests in floodplains.

Thus, we need:

- Integration of all interests/sectors
- Synoptic visualization: trade-offs and synergies
- Comparison of different scenarios

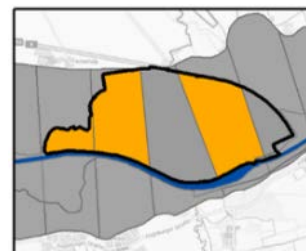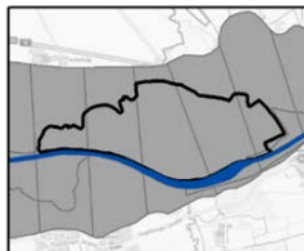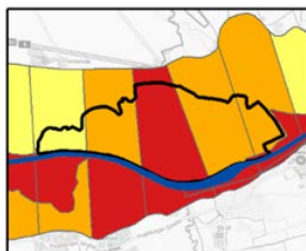**>> Decision support for ecology and society at the regional planning level**

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Example of the IDES tool
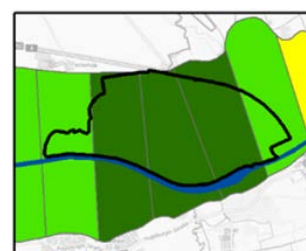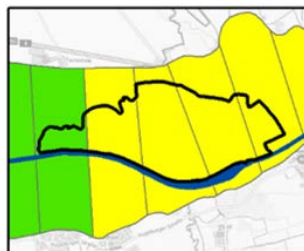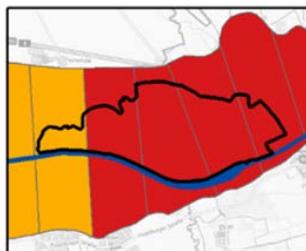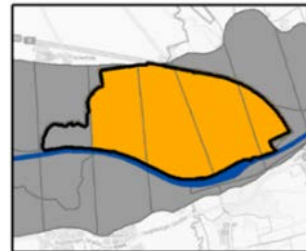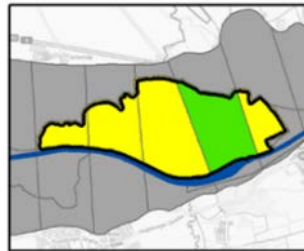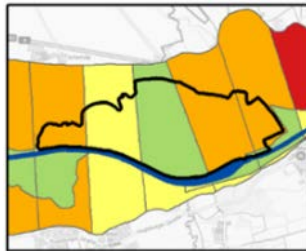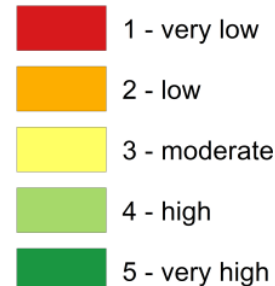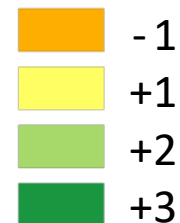
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Improve water quality management along the Danube and its tributaries by applying an Ecosystem Service based integrative floodplain management (IDES tool).

>> mitigating conflicts and demonstrating synergies

>> sustainable, efficient and integrative management

Analysis

Pilot areas

Strategy

Work Package T1:

Assessment of water quality in floodplains and of water quality related Ecosystem Services, development of the IDES tool

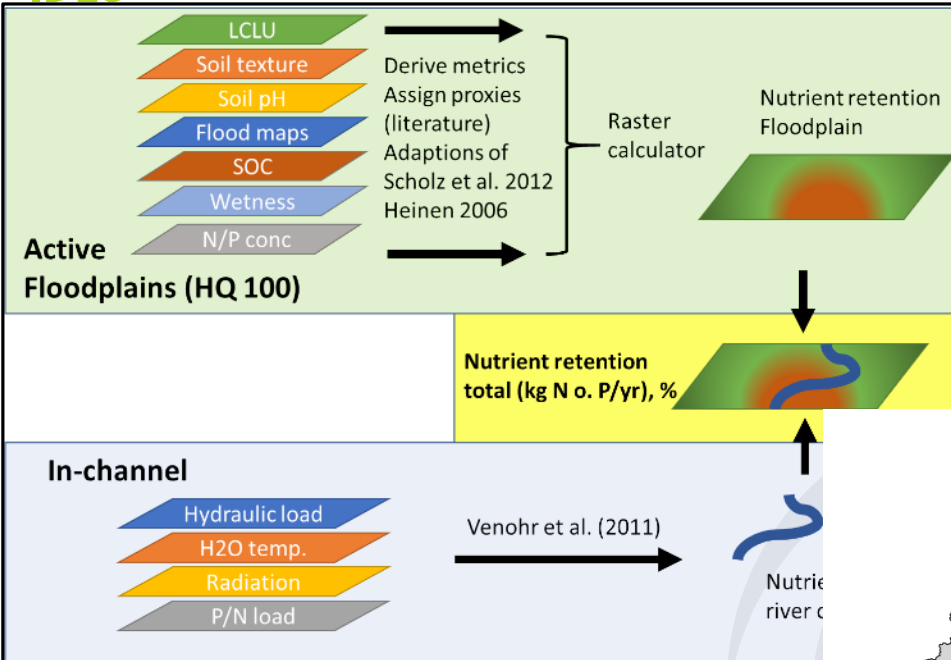***Outputs 1.1.*** *Ecosystem Service based integrative floodplain management tool (IDES tool)*

Output 1.2. *National training courses for key actors in the water sector on IDES application*
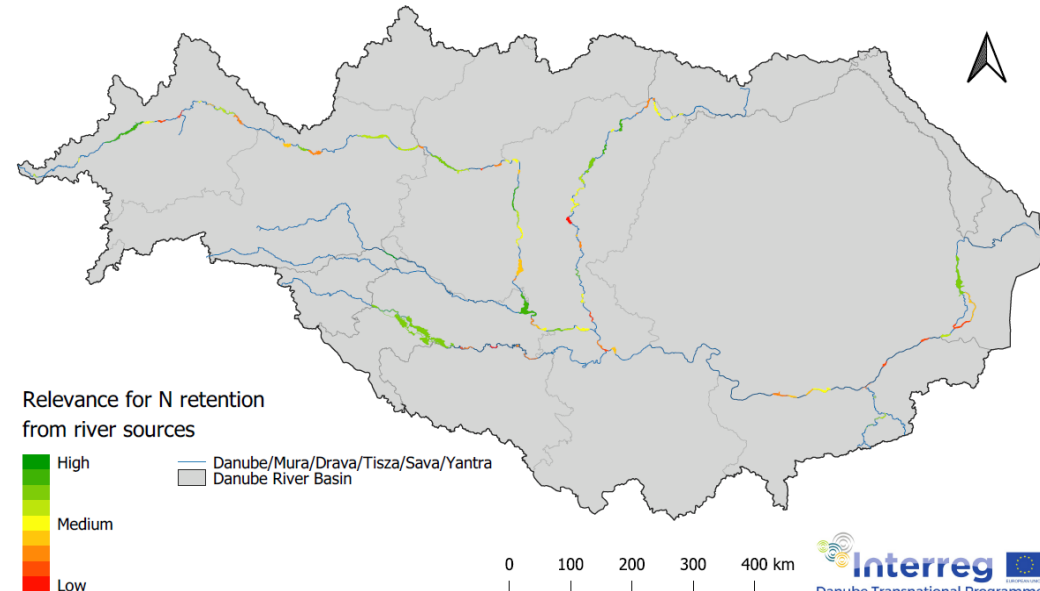
Analysis

Pilot areas

Strategy

IDES

Derive indicators to prioritize sites

- N/P retention in FP & rivers
- N/P concentration
- Upland (local) N/P emission
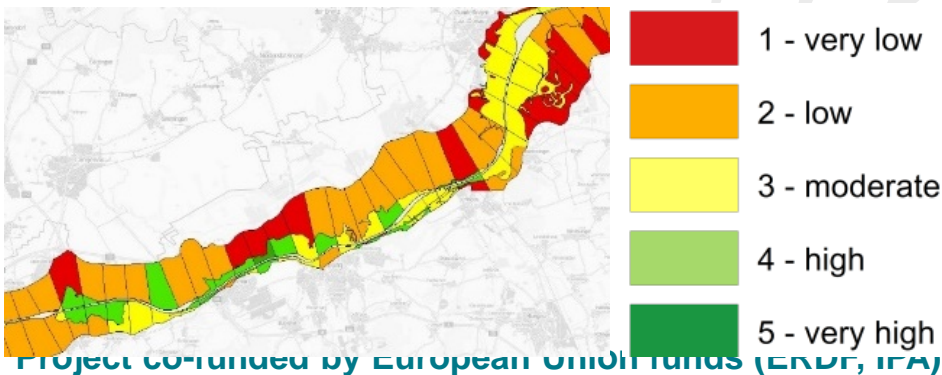
D.T1.1.1 Prioritization of active floodplains for N retention from river sources on river basin scale

Relevance for N retention from river sources

High

Medium

Low

Danube/Mura/Drava/Tisza/Sava/Yantra
Danube River Basin

0   100   200   300   400 km

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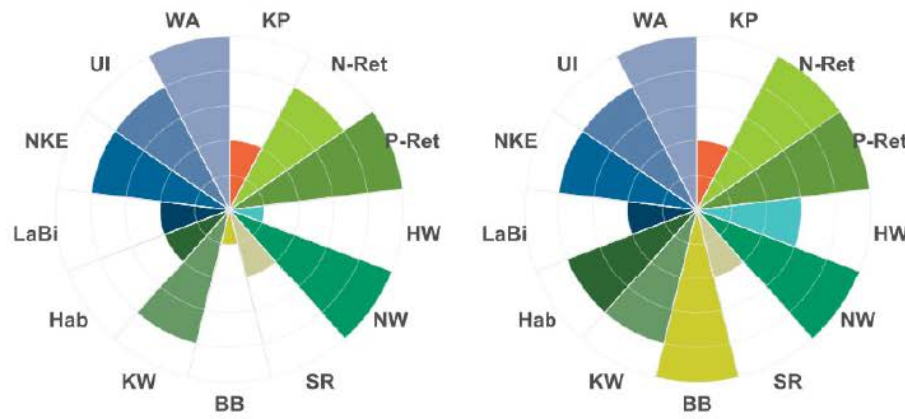![Interreg Danube Transnational Programme - IDES logo]

ES evaluation framework and method (IDES tool)

- Identification of 23 Ecosystem services of relevance for water quality

- Floodplain segments

- Scale 1 - 5

- **Indicator-based approach** adapted from River Ecosystem Service Index (RESI)

🟥	1 - very low
🟧	2 - low
🟨	3 - moderate
🟩	4 - high
🟩	5 - very high

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Work Package T2:

Identification of water quality management actions in pilot areas

Output 2.1: Stakeholder workshops in pilot areas focusing on water quality and ES

Output 2.2: Water quality management concepts in pilot areas

Output 2.3: Pilot implementation of the IDES tool in five pilot areas

Output 2.4: IDES manual, including best practice examples / recommendations

Analysis

Pilot areas

Strategy

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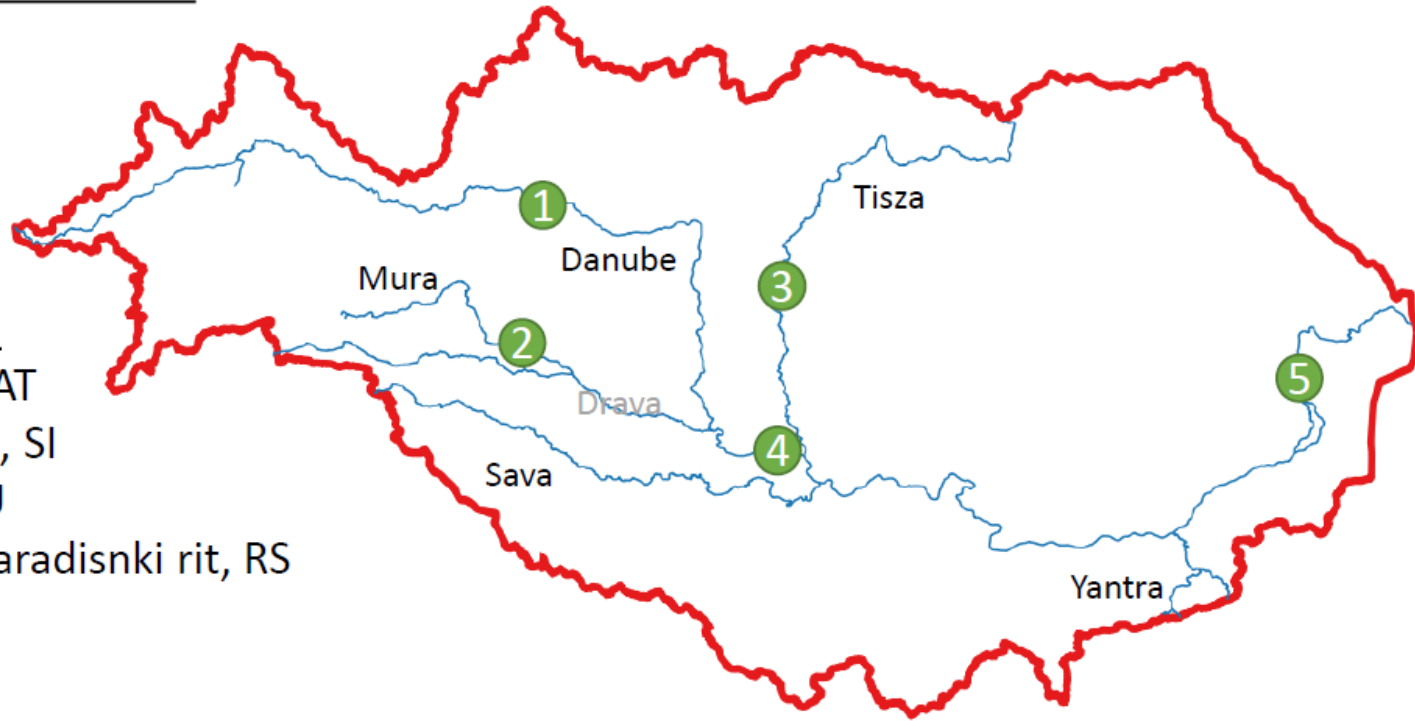**Danube Transnational Programme**
IDES
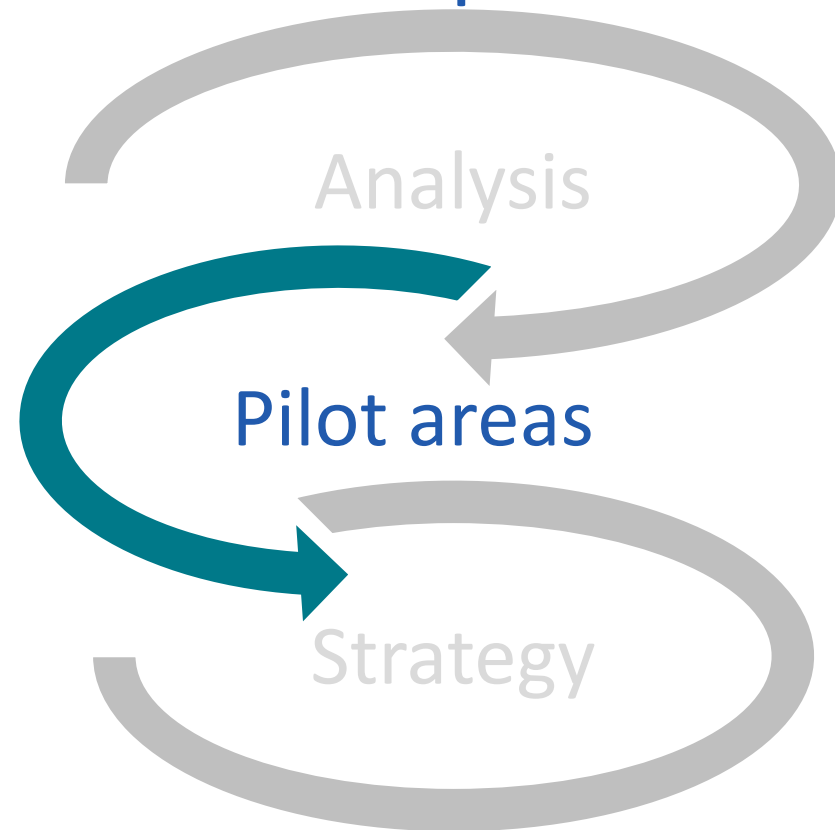
Investigated river systems and pilot areas

Danube and major tributaries:

- Tisza
- Sava
- Mura
- Yantra

Selected pilot areas:

1. Donauauen NP, AT
2. Mura Floodplain, SI
3. Middle Tisza, HU
4. Koviljsko-petrovaradisnki rit, RS
5. Braila Island, RO

![Interreg Danube Transnational Programme — IDES]

Collective Socio-ecological-system analysis using Mental Modeler

Work Package 3:

Strategy for an integrated water quality management in the Danube region

Output 3.1: Transnational Stakeholder Workshop **in September 2022 in Budapest**

Output 3.2: Strategy to implement the IDES approach

Analysis

Pilot areas

Strategy
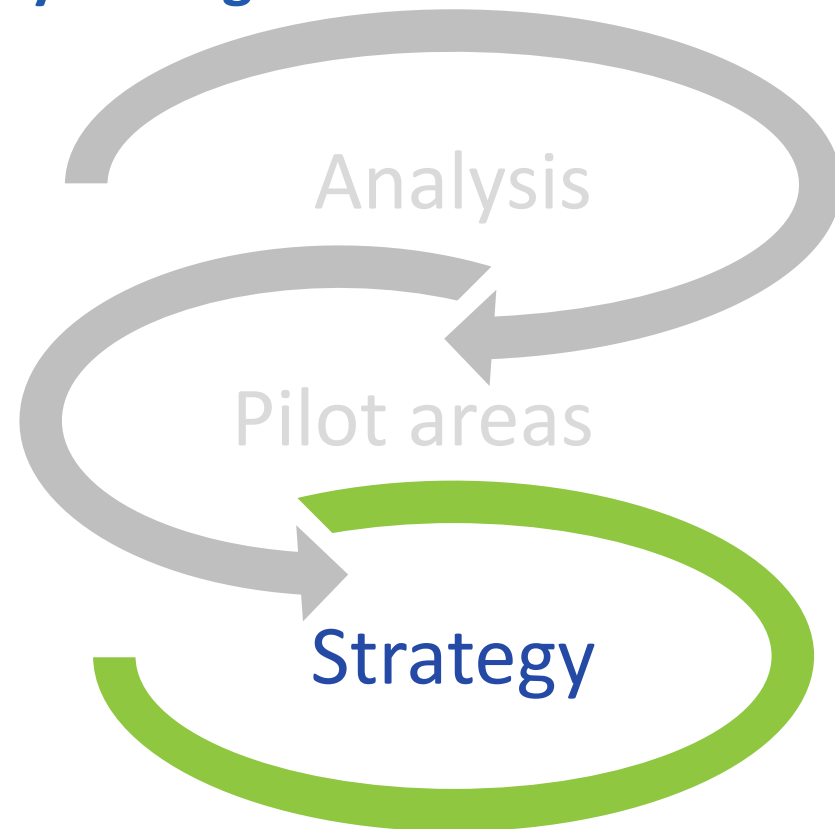
Thank you very much for your attention!

Contact:
Dr. Barbara Stammel
Floodplain Institute
Catholic University Eichstätt-Ingolstadt
Barbara.stammel@ku.de
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