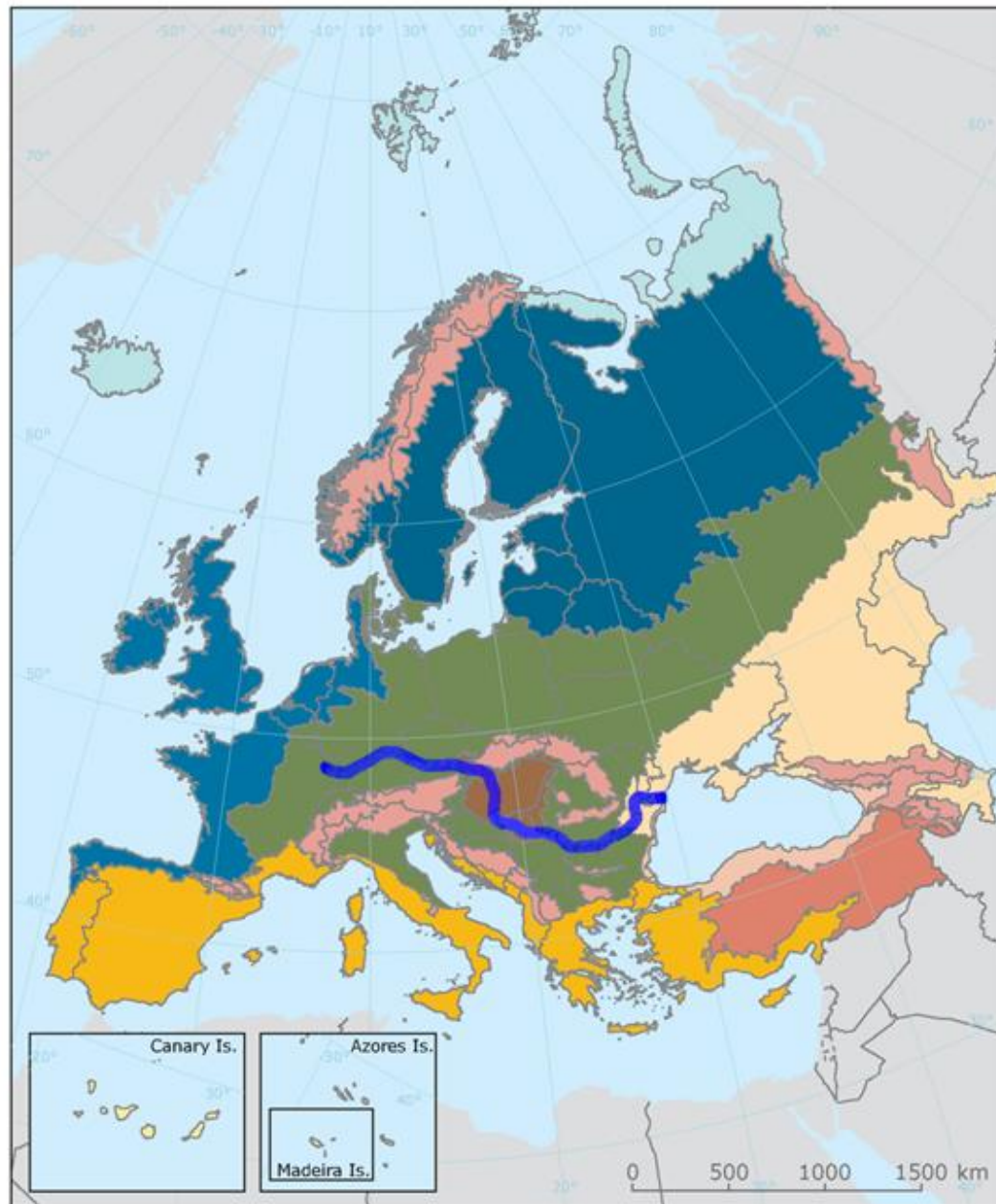


# DANUBE parksCONNECTED

## WP 5 Dry Habitats





### Biogeographical regions in Europe, 2016

- Alpine
- Anatolian
- Arctic
- Atlantic
- Black Sea
- Boreal
- Continental
- Macaronesia
- Mediterranean
- Pannonian
- Steppic
- Outside data coverage

# WP5 Danube Dry Habitat Corridor

5.1 Establishing the DANUBEAPRKS Canyons subsidiary Network

5.2 Danube Dry Habitat: Cadastre, maps & gap analyzes

5.3 Trying Dry: Pilot Actions

5.4 Elaborating the Danube Dry Habitat Corridor Strategy

<b>Step 1</b>	<p>Questionnaire WP5: Prepared by Passau, LP and Working Group WP5: sent out until end of May/beginning of June; to be answered by all partners within 3 weeks, presentation of results by Passau at workshop in Kopacki rit (29<sup>th</sup>/30<sup>th</sup> June) Originally, the questionnaire was planned for May (see minutes Wachau); postponed due to delay in contracting external expert</p>	<p>Passau (incl. external expert) Working group WP5 LP</p>
<b>Step 2</b>	<p>Data Acquisition for Danube-wide maps (habitats, orchids), preparation of first draft of maps: What data are available? (Natura 2000, high resolution layer Copernicus, Corinne landcover etc) Presentation of very first draft maps on 29<sup>th</sup>/30<sup>th</sup> Kopacki rit</p>	<p>Passau (incl. External expert) with support by Vojvodinasume (WP6)</p>
<b>Step 4</b>	<p>1<sup>st</sup> Danube Volunteers Day: - nomination of your national volunteers activity (until 1<sup>st</sup> June at the very latest) - kick-off for the volunteers initiative: 29<sup>th</sup> June, Kopacki rit - 1<sup>st</sup> Danube Volunteers Day activities: between 1<sup>st</sup> July – October 2017 - Facebook campaign: approx. September 2017</p>	<p>Coordination: NPDA all Partners</p>
<b>Step 5</b>	<p>Workshop WP5, 29<sup>th</sup>/30<sup>th</sup> June Kopacki rit: Further development of WP5, results of questionnaire, presentation first maps; first strategic discussion</p>	<p>Passau Kopacki rit</p>
<b>Step 6</b>	<p>Memorandum of Cooperation Danube Canyons: Further development by the Danube Canyons; preparation for signing it; detailed time schedule still to be decided</p>	<p>Danube Canyons</p>
<b>Step 7</b>	<p>8<sup>th</sup>/9<sup>th</sup> Sept. 2017: meeting in Duna-Ipoly National Park: celebration in Duna-Ipoly National Park, meeting by Danube Canyons to further develop their cooperation; Presentation of results of questionnaire</p>	<p>Danube Canyons Working Group WP5</p>
<b>Step 9</b>	<p>Implementation of Pilot Actions: parallel to this process: preparation and implementation of pilot actions by each partner; share the results: we want to promote these visible actions!</p>	<p>All partners with pilot actions</p>
<b>Step 10</b>	<p>Gap analyzes &amp; dry habitat strategy: Draft document ready for discussion at the workshop in September 2018 (Orth, Austria), finalization based on this discussion and the results of the maps</p>	<p>Passau WP5 working group all partners</p>



# WP5 Danube Dry Habitat Corridor

5.1 Establishing the DANUBEAPRKS Canyons subsidiary Network

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5.3 Trying Dry: Pilot Actions

5.4 Elaborating the Danube Dry Habitat Corridor Strategy

**WP5 Expert Working Group**  
Passau (inkl. External expert),  
Danube Canyons incl. Djerdap,  
DDBRA, Col, Persina, NPDA

# WP5 Danube Dry Habitat Corridor

5.1 Establishing the DANUBEAPRKS Canyons subsidiary Network

5.2 Danube Dry Habitat: Cadastre, maps & gap analyzes

5.3 Trying Dry: Pilot Actions

5.4 Elaborating the Danube Dry Habitat Corridor Strategy

# WP 5 Dry Habitats – Workshop in Kopački rit

Act. 5.2: Danube Dry Habitat – cadastre, map and gap analysis

Act. 5.4: Elaboration of the Danube Dry Habitat Corridor Strategy

PSU | Prof. Schaller UmweltConsult GmbH

M.Sc. Kerstin Huber

Munich, Germany

# PSU – Fields of Activity

Environmental and landscape planning

GIS application and consulting

Landscape architecture



Danube between Straubing and Vilshhofen

Photo and Maps: PSU



# Agenda:

1. First draft of Danube dry habitat map
2. Results of the questionnaire
3. Next steps in the generation of dry habitat  
and orchid maps
4. Strategic paper



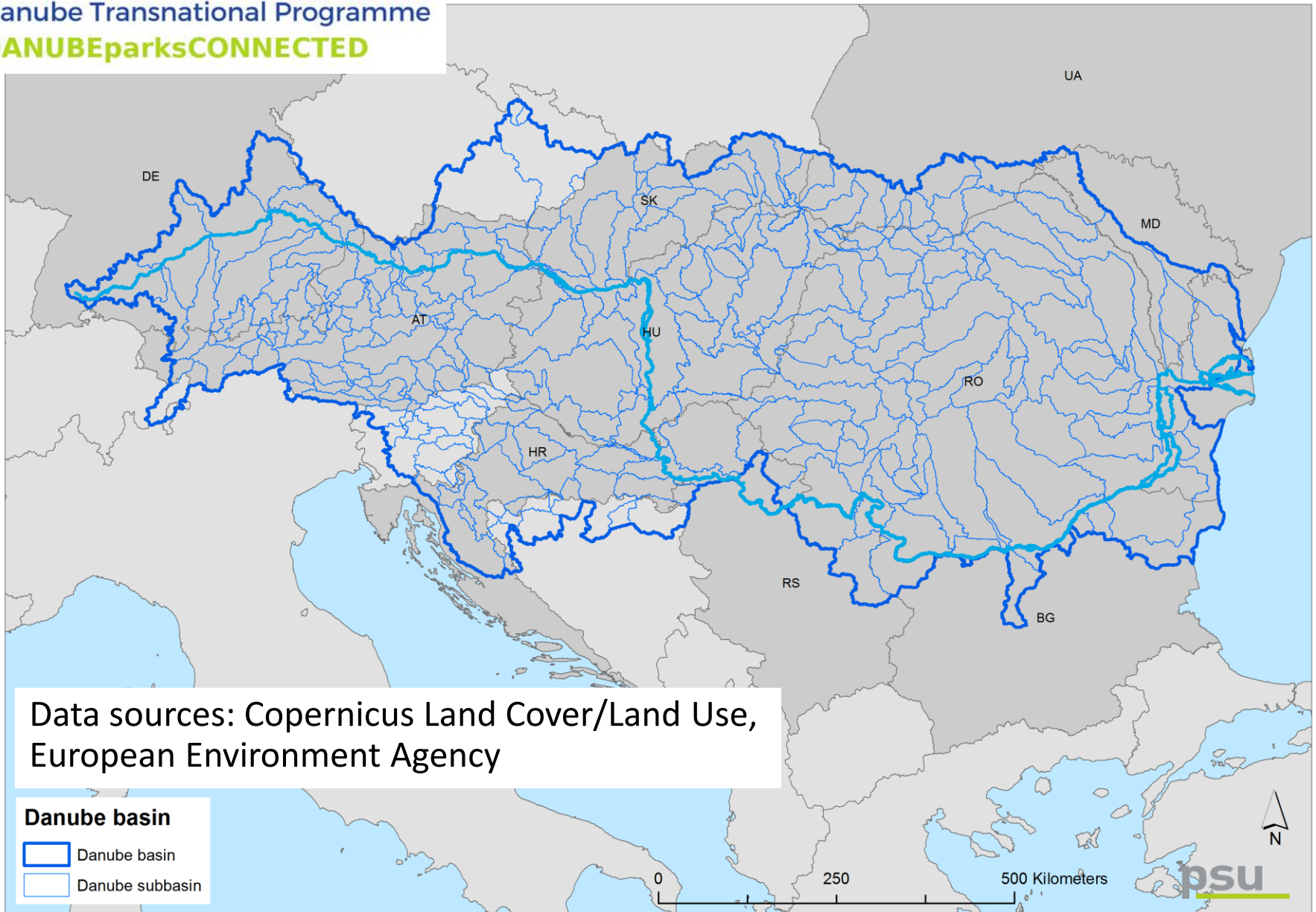
Dry grasslands

Photos: PSU



# 1. First Draft of Danube Dry Habitat Maps



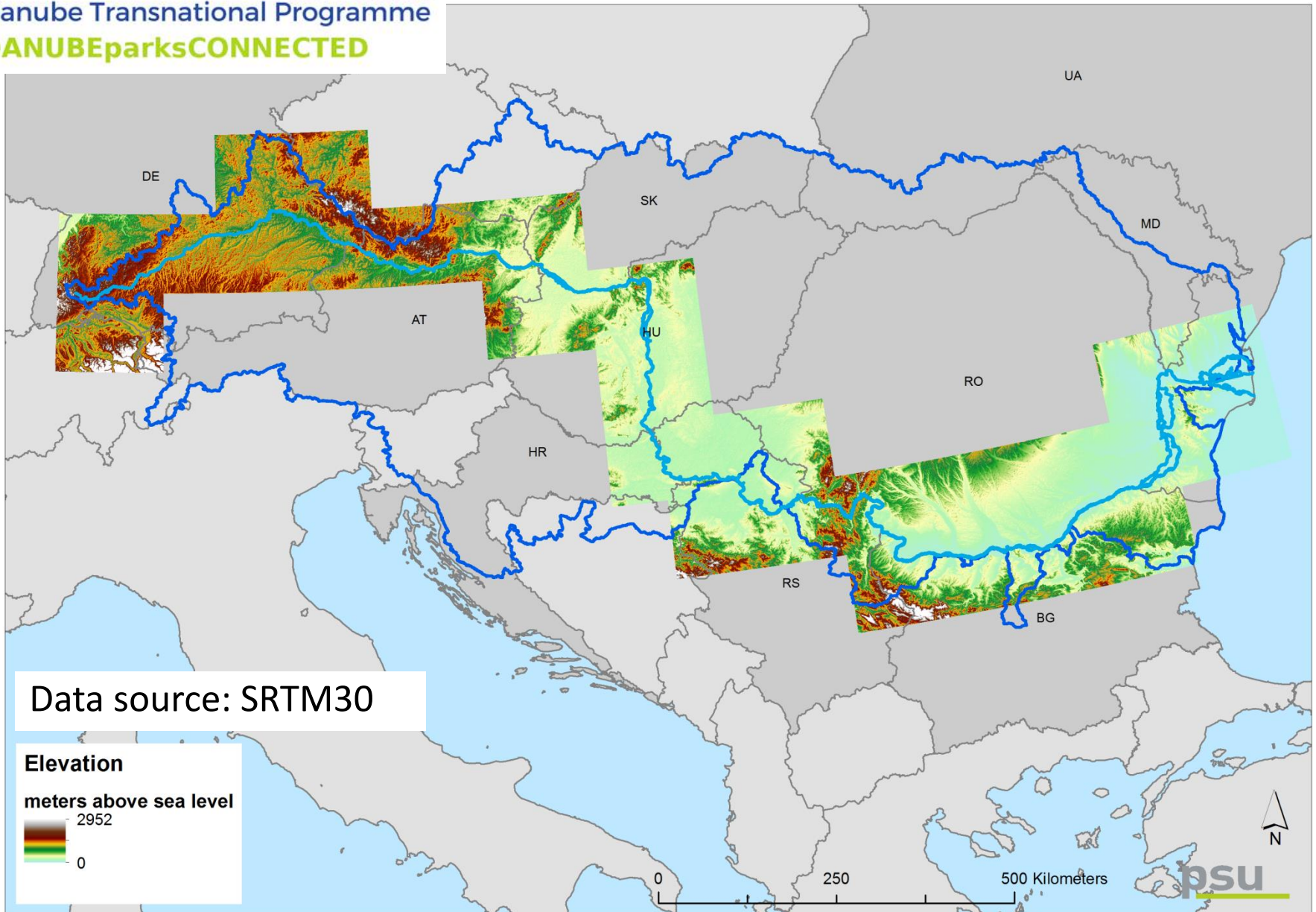
# 1. First Draft of Danube Dry Habitat Maps



Data sources: Copernicus Land Cover/Land Use, European Environment Agency

**Danube basin**  
 Danube basin  
 Danube subbasin

# 1. First Draft of Danube Dry Habitat Maps



## Natura2000 Habitat Classes

– 5 km corridor on both sides of the Danube for data selection –

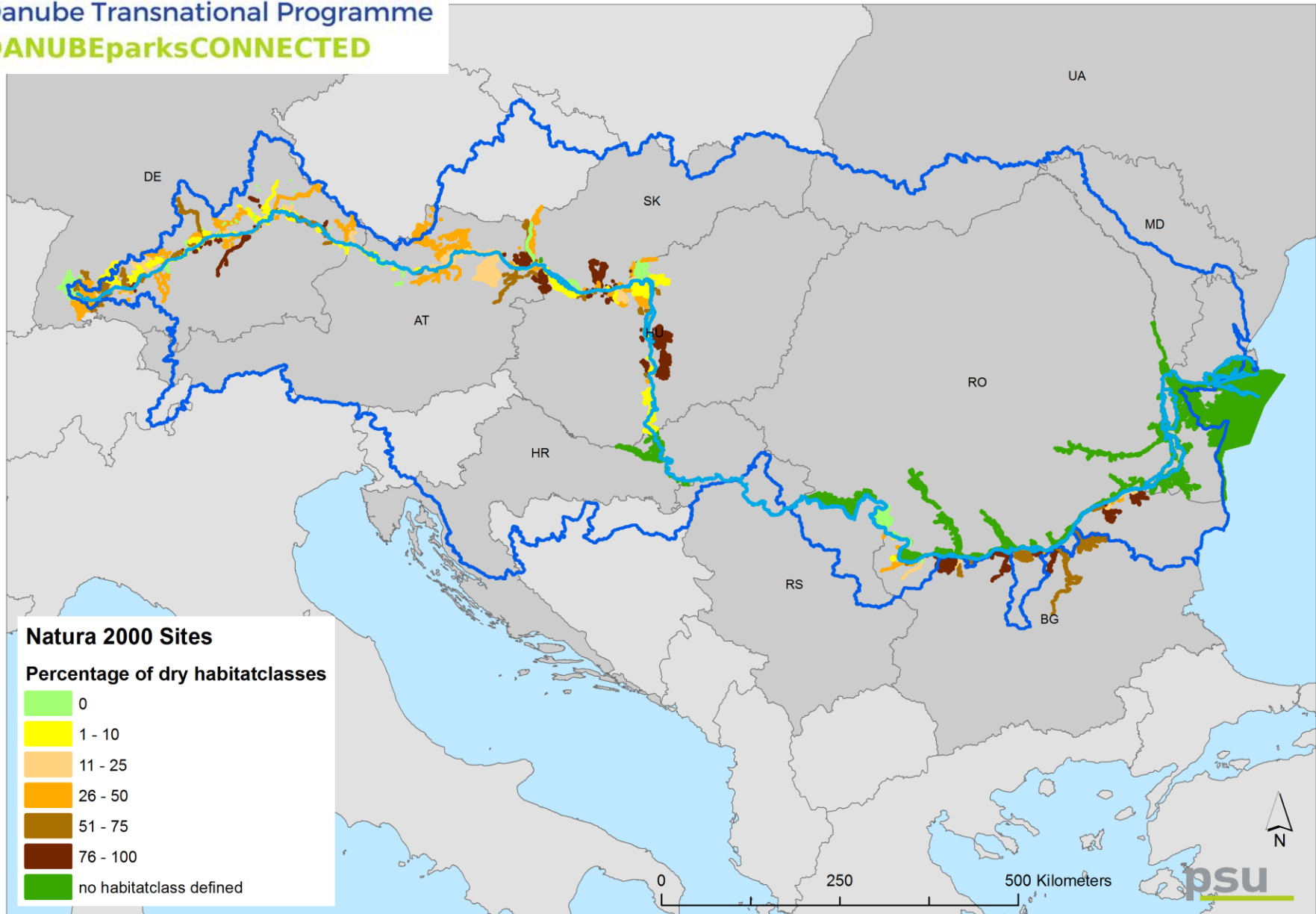
HABITATCODE	DESCRIPTION
N01	Marine areas, Sea inlets
N02	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins)
N03	Salt marshes, Salt pastures, Salt steppes
N04	Coastal sand dunes, Sand beaches, Machair
N05	Shingle, Sea cliffs, Islets
N06	Inland water bodies (Standing water, Running water)
N07	Bogs, Marshes, Water fringed vegetation, Fens
N08	Heath, Scrub, Maquis and Garrigue, Phygrana
N09	Dry grassland, Steppes
N10	Humid grassland, Mesophile grassland
N11	Alpine and sub-Alpine grassland
N12	Extensive cereal cultures (including Rotation cultures with regular fallowing)
N13	Ricefields
N14	Improved grassland
N15	Other arable land
N16	Broad-leaved deciduous woodland
N17	Coniferous woodland
N18	Evergreen woodland
N19	Mixed woodland
N20	Artificial forest monoculture (e.g. Plantations of poplar or Exotic trees)
N21	Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas)
N22	Inland rocks, Scree, Sands, Permanent Snow and ice
N23	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)
N24	Marine and coastal habitats (general)
N25	Grassland and scrub habitats (general)
N26	Woodland habitats (general)
N27	Agricultural habitats (general)

# Natura2000 Habitat Classes

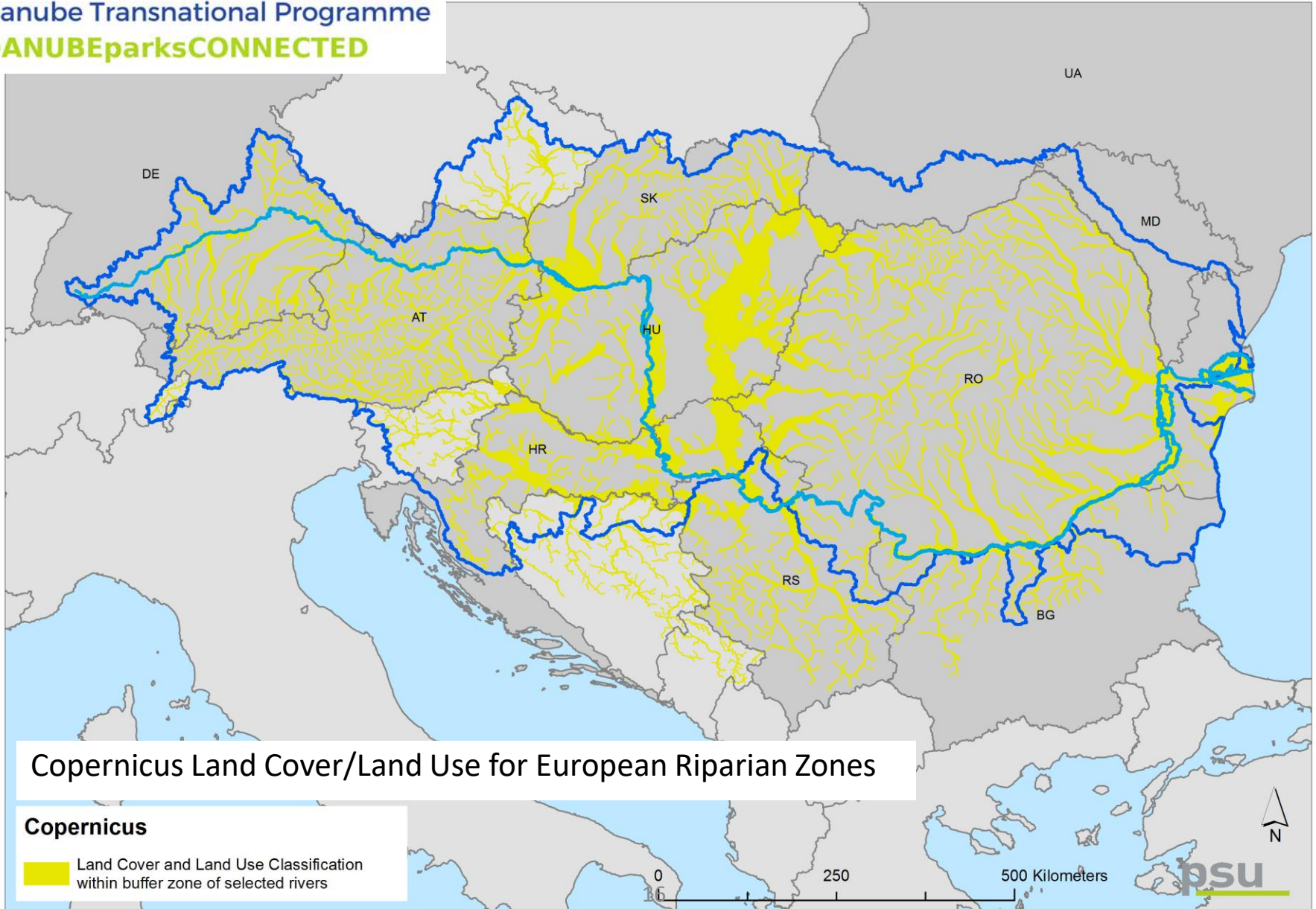
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# 1. First Draft of Danube Dry Habitat Maps










# 1. First Draft of Danube Dry Habitat Maps
















**DANUBE parksCONNECTED Land Cover and Land Use Classification**










**1 Urban**





-  1.1.1 Dense to medium dense urban fabric (IM.D. >30-100% + industrial, commercial, public, military and private units)
-  1.1.2 Low density urban fabric (IM.D. 0-30%)
-  1.2.1 Transport infrastructure
-  1.3.1 Mineral extraction, dump and construction sites
-  1.3.2 Land without current use
-  1.4.1 Green urban areas
-  1.4.2 Sports and leisure facilities

**2 Cropland**




-  2.1.1 Non-irrigated arable land
-  2.1.2 Greenhouses
-  2.1.3 Irrigated arable land and rice fields
-  2.2.1 Vineyards
-  2.2.2 Fruit trees and berry plantations
-  2.2.3 Olive groves
-  2.3.1 Annual crops associated with permanent crops
-  2.3.2 Complex cultivation patterns
-  2.3.3 Land principally occupied by agriculture with significant areas of natural vegetation
-  2.3.4 Agro-forestry T.C.D. ≥ 30%
-  2.3.5 Agro-forestry T.C.D. < 30%

**3 Woodland**



-  3.1.1 Broadleaved forest (T.C.D. > 80%)
-  3.1.2 Broadleaved forest (T.C.D. > 50 - 80%)
-  3.1.3 Broadleaved forest (T.C.D. > 30 - 50%)
-  3.1.4 Broadleaved forest (T.C.D. ≥ 10 - 30%)
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-  3.3.1 Mixed forest (T.C.D. > 80%)
-  3.3.2 Mixed forest (T.C.D. > 50 - 80%)

-  3.3.3 Mixed forest (T.C.D. > 30 - 50%)
-  3.3.4 Mixed forest (T.C.D. ≥ 10 - 30%)
-  3.4.1 Transitional woodland scrub
-  3.5.1 Damaged forest

**4 Grassland**

-  4.1.1 Managed grassland
-  4.2.1 Natural grasslands prevailingly without trees and scrubs (T.C.D. < 30%)
-  4.2.2 Natural grasslands with trees and scrubs (T.C.D. ≥ 30%)




**5 Heathland**

-  5.1.1 Moors and heathland
-  5.2.1 Sclerophyllous vegetation

**6 Sparsley vegetated land**

-  6.1.1 Sparsely vegetated areas
-  6.2.1 Beaches, dunes, sands
-  6.2.2 Bare rocks, burnt areas, glaciers and perpetual snow




**7 Wetland**

-  7.1.1 Inland freshwater marshes
-  7.1.2 Inland saline marshes
-  7.2.1 Peat bogs

**8 Lagoons, coastal wetlands and estuaries**

-  8.1.1 Salt marshes & salines
-  8.1.2 Intertidal flats
-  8.3.1 Coastal lagoons
-  8.3.2 Estuaries

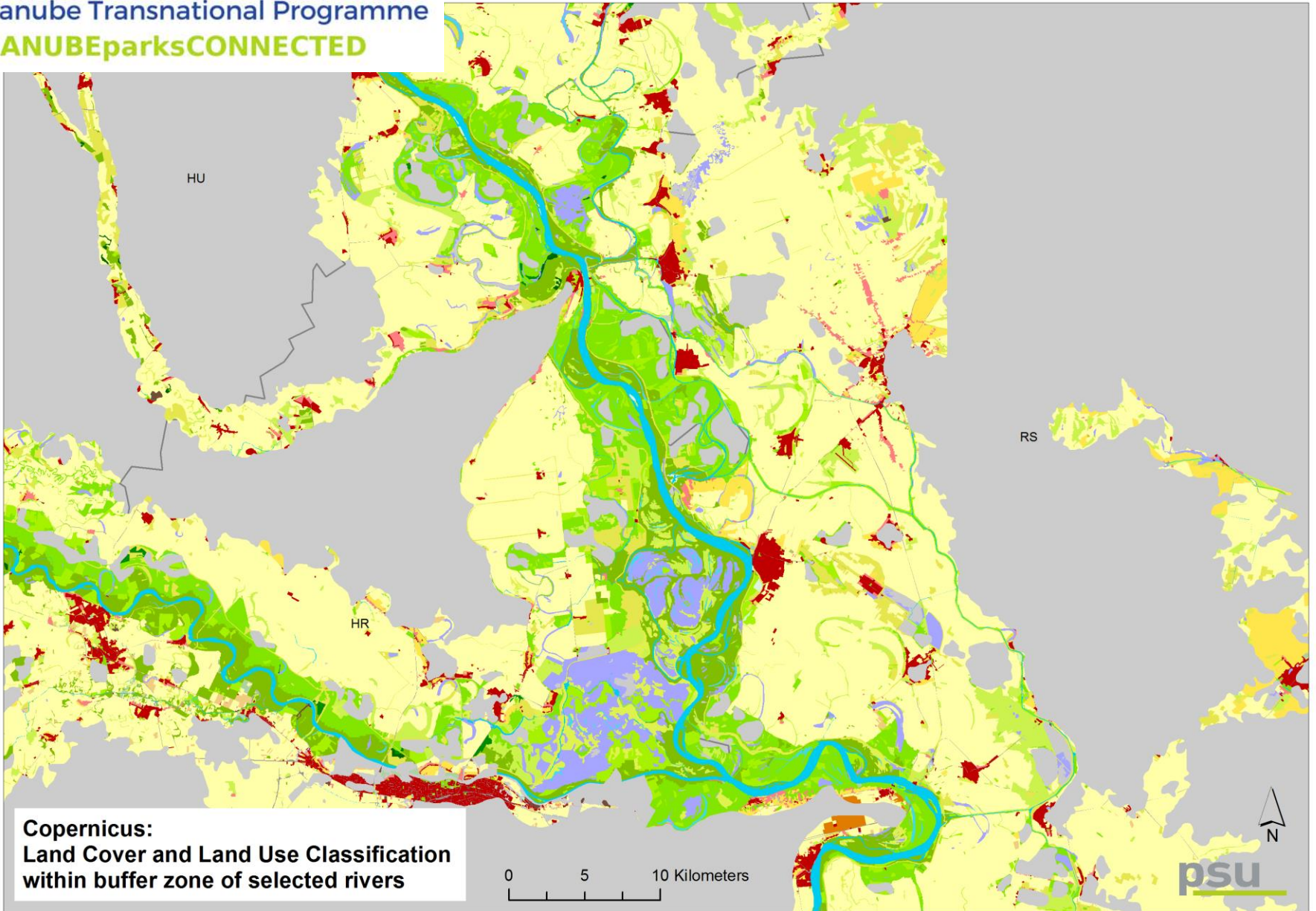
**9 Rivers and lakes**

-  9.1.1 Interconnected running water courses
-  9.1.2 Separated water bodies belonging to the river system (dead side-arms, flood ponds,...)
-  9.3.1 Lakes and reservoirs

**10 Marine (other)**

-  10.1.1 Marine (other)








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










**Copernicus:**  
**Land Cover and Land Use Classification**  
**within buffer zone of selected rivers**

**DANUBE parksCONNECTED Land Cover and Land Use Classification**





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

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
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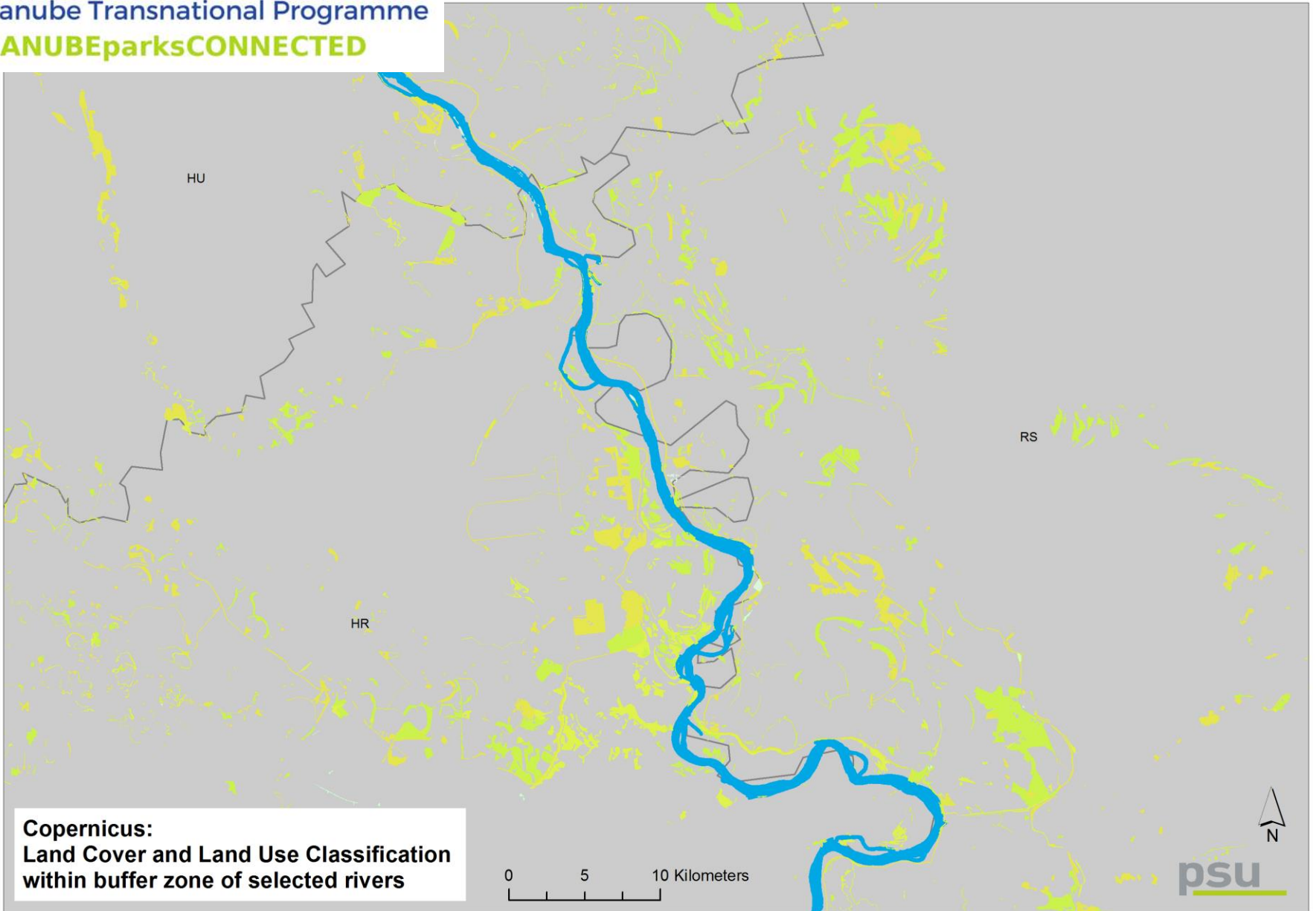
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-  9.3.1 Lakes and reservoirs

**10 Marine (other)**

-  10.1.1 Marine (other)

# 1. First Draft of Danube Dry Habitat Maps



## Preliminary focus of mapping

= Simplified corridor of 5 km on both sides of the Danube

## Main data sources used so far

- Natura2000 protected areas
- Copernicus land cover and land use within European riparian zones
- Elevation model SRTM30
- European Environment Agency (EEA) European river catchments

## Additionally found:

- Copernicus Permanent Water Bodies
- EEA WISE Large rivers and large lakes
- ITZBund Bundeswasserstrassen

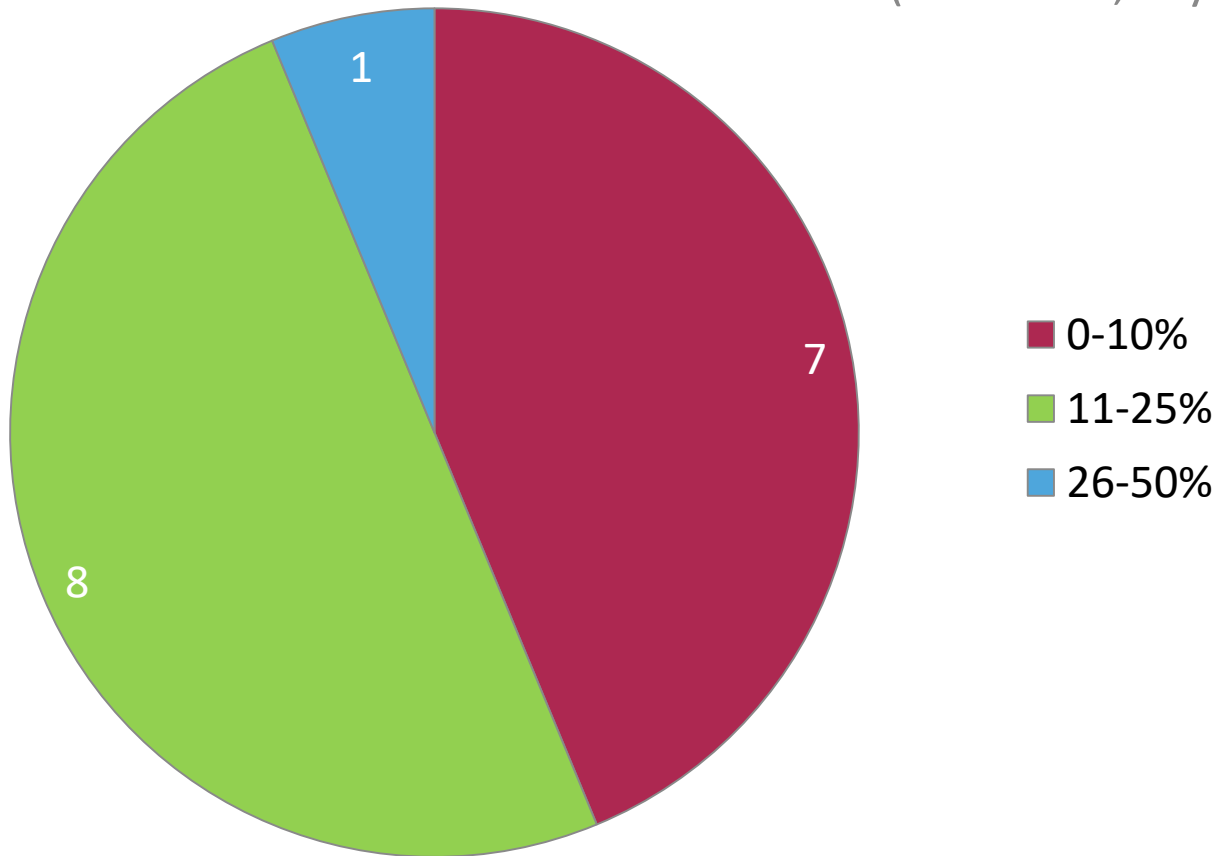


Questions/Suggestions?

## 2. Results of the Questionnaire



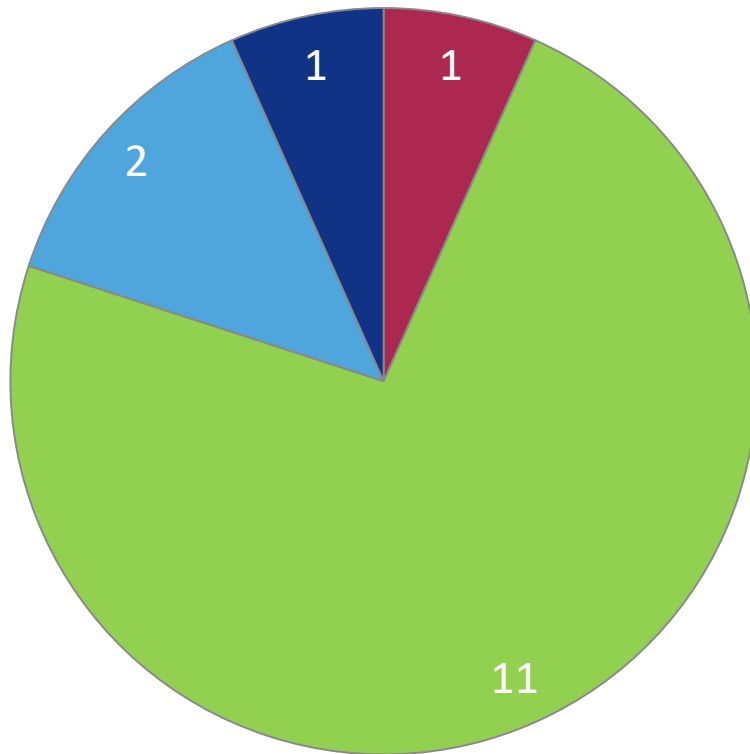
# Abundance of open, cultivated landscapes in the PA (meadows, dry grasslands, pastures)



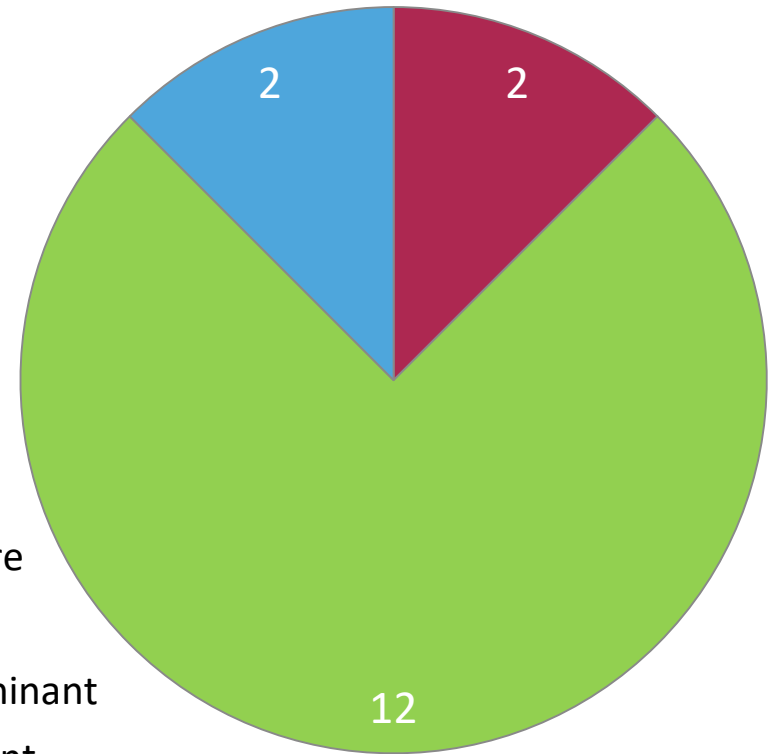


## Abundance of (semi)dry habitats

Protected areas

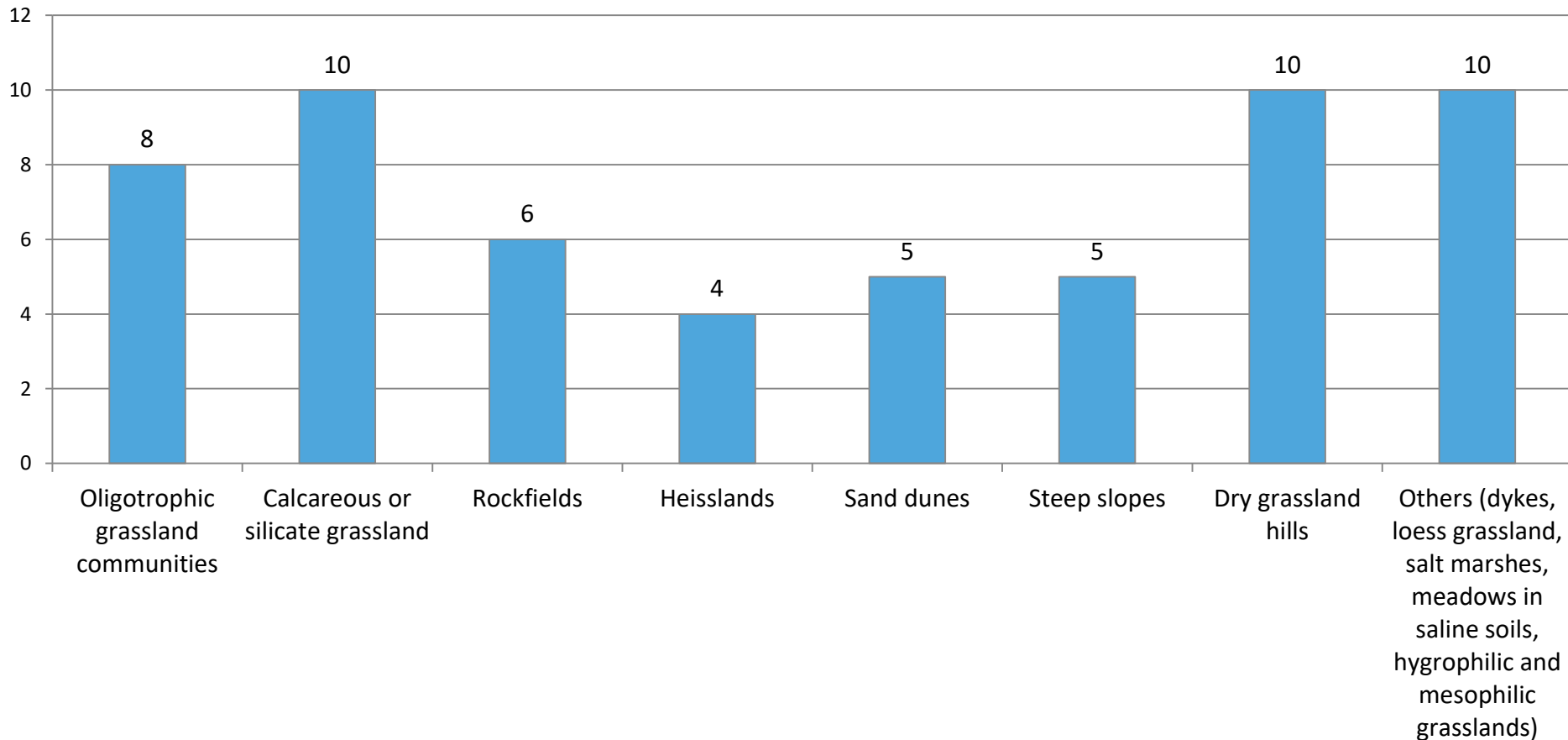


Danube states



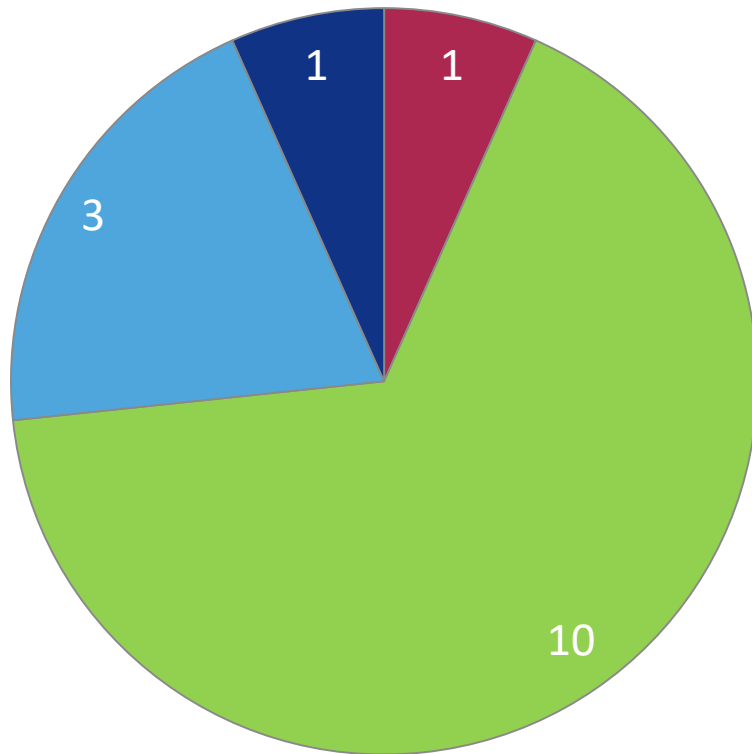
- very rare
- rare
- subdominant
- dominant

## (Semi)dry habitats in the protected areas/close by

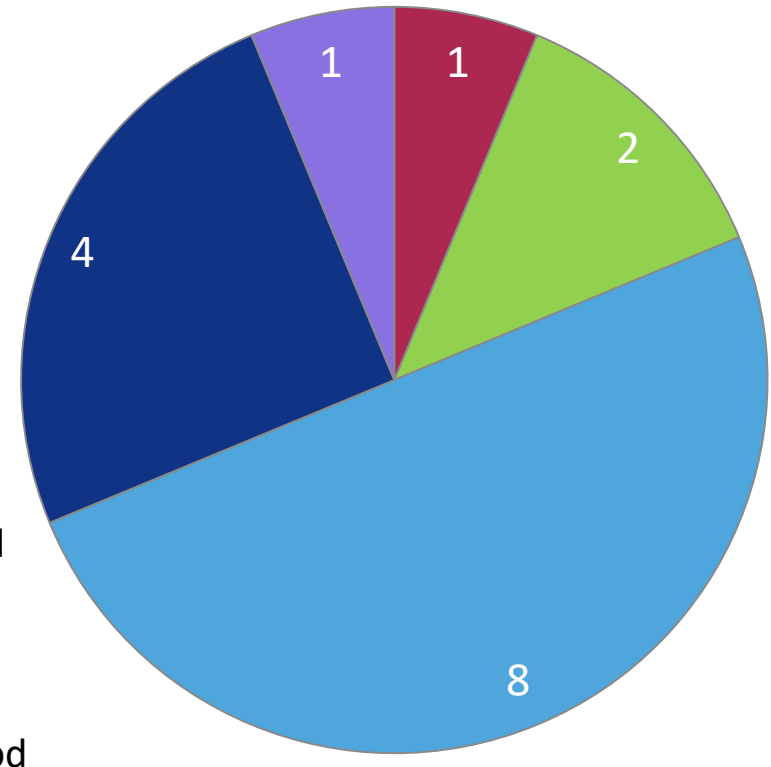


## Status of (semi)dry habitat

Actual state

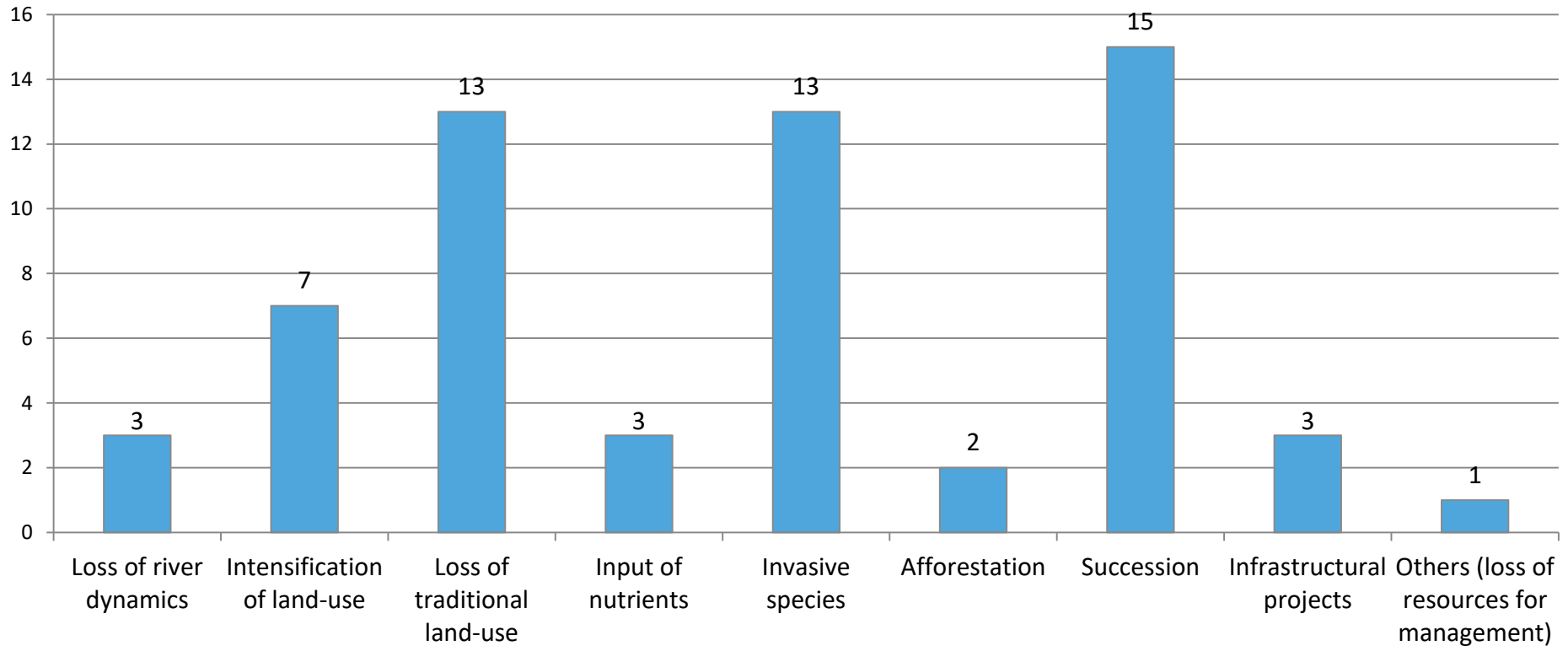


Mid-term perspective

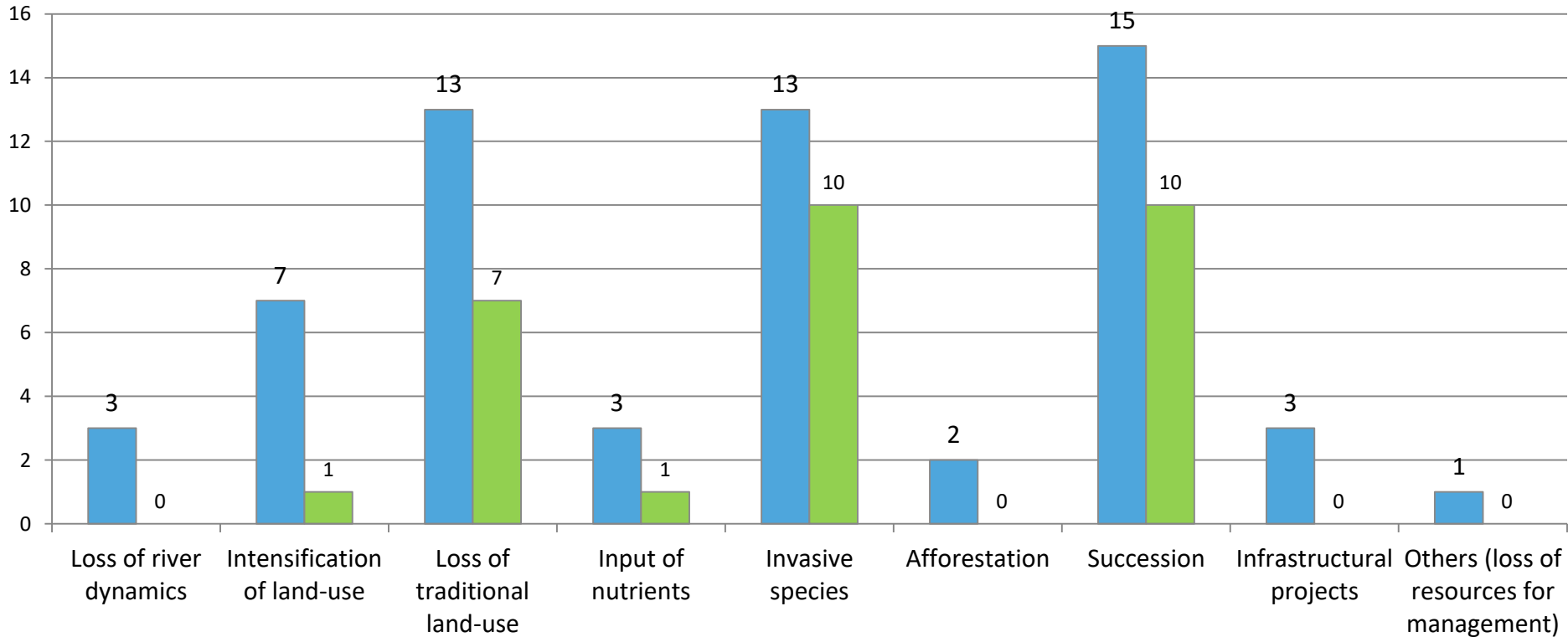


- very bad
- bad
- medium
- good
- very good

## Main threats for (semi)dry habitats in protected areas



## Main threats and implemented measures



## Relevance of management of dry habitats in PA

- minor relevant – 5
- relevant – 7
- highly relevant – 4

## Already existing management plans or concepts

- special management plans/concepts – 3
- as part of general plans/concepts – 6
- no plans/concepts – 7

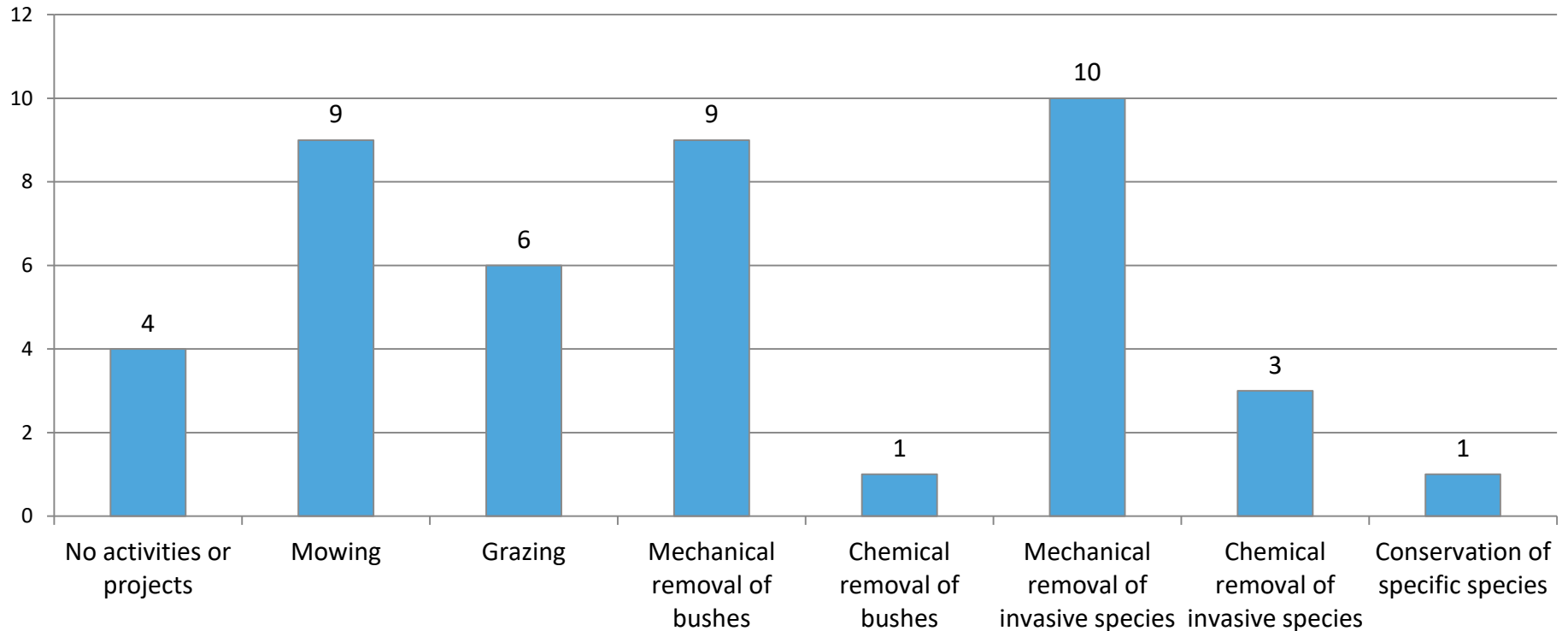
## Implemented conservation projects since 2010

- 0 projects – 5
- 1-5 projects – 10

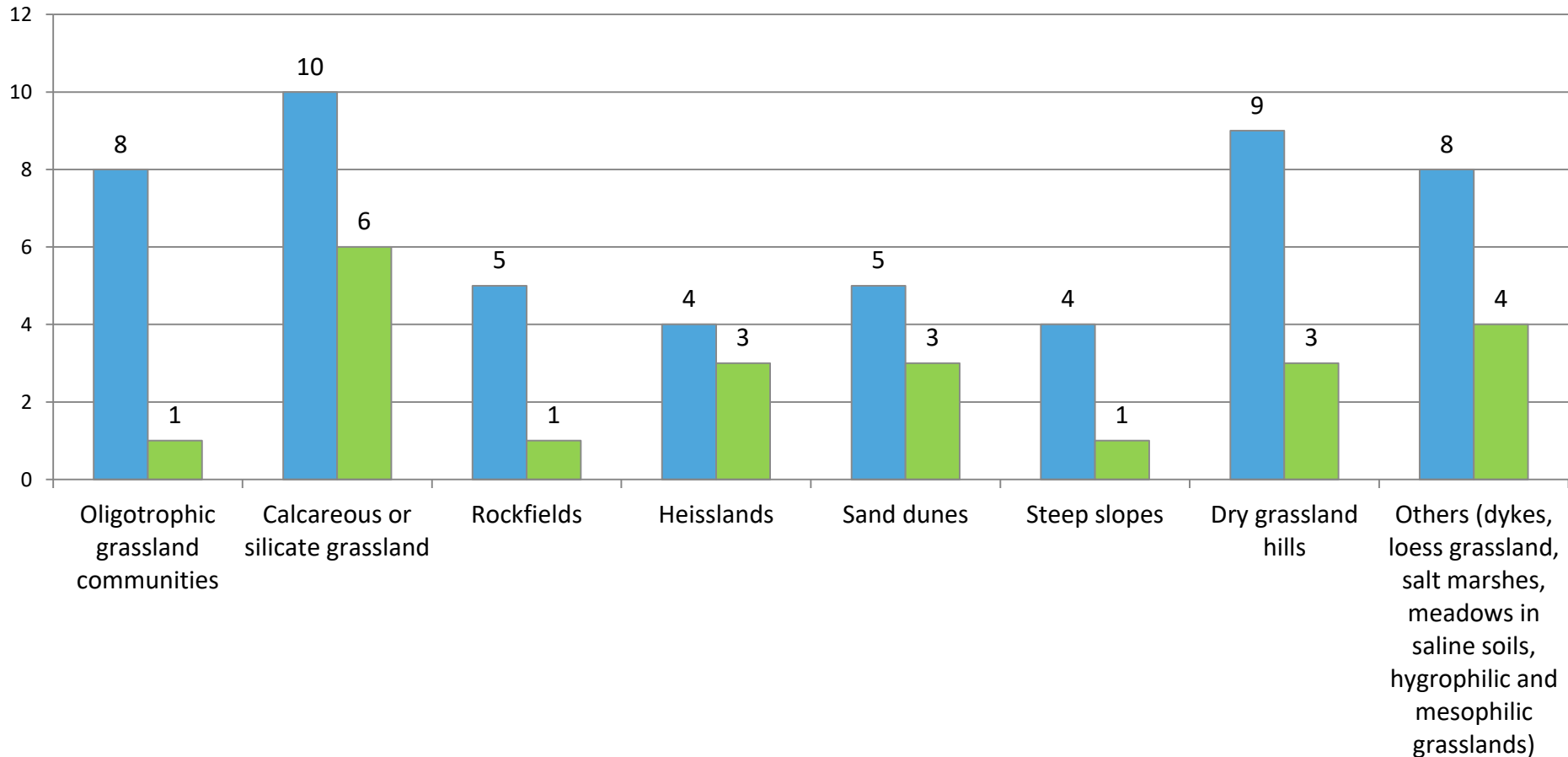
## Man-made structures with potential for developing to dry habitats

- in 10 protected areas (dams, dykes, artificial pine/robinia plantations)

## Since 2010 implemented activities for protection



## Occurring habitats and addressing projects





## Monitoring programs for flagship species

- Flora and/or Fauna – 7
- None – 7

In all participating PA (15) there are orchid species

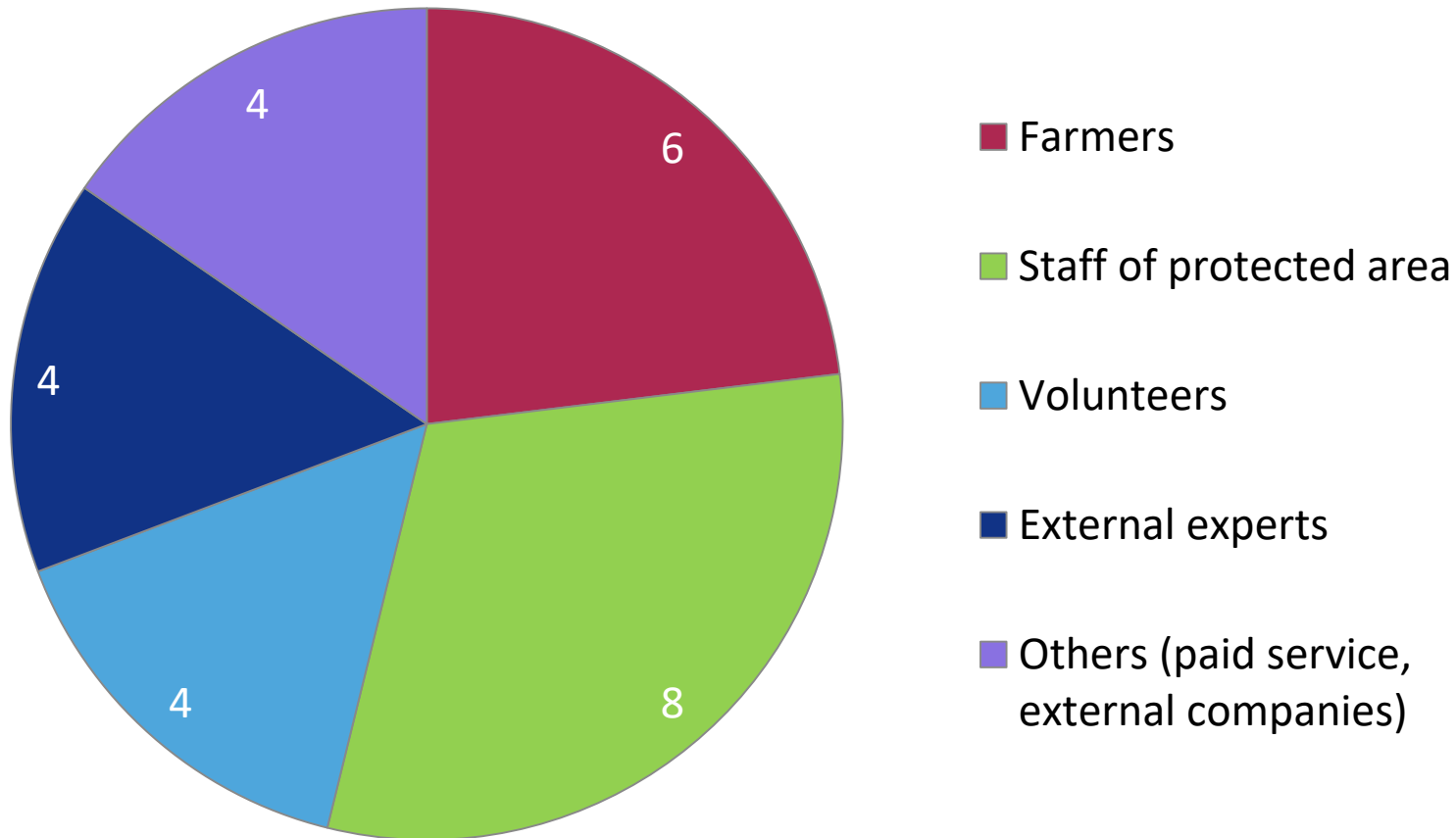
- Monitoring measures – 9
- Conservation measures – 4
- None – 4



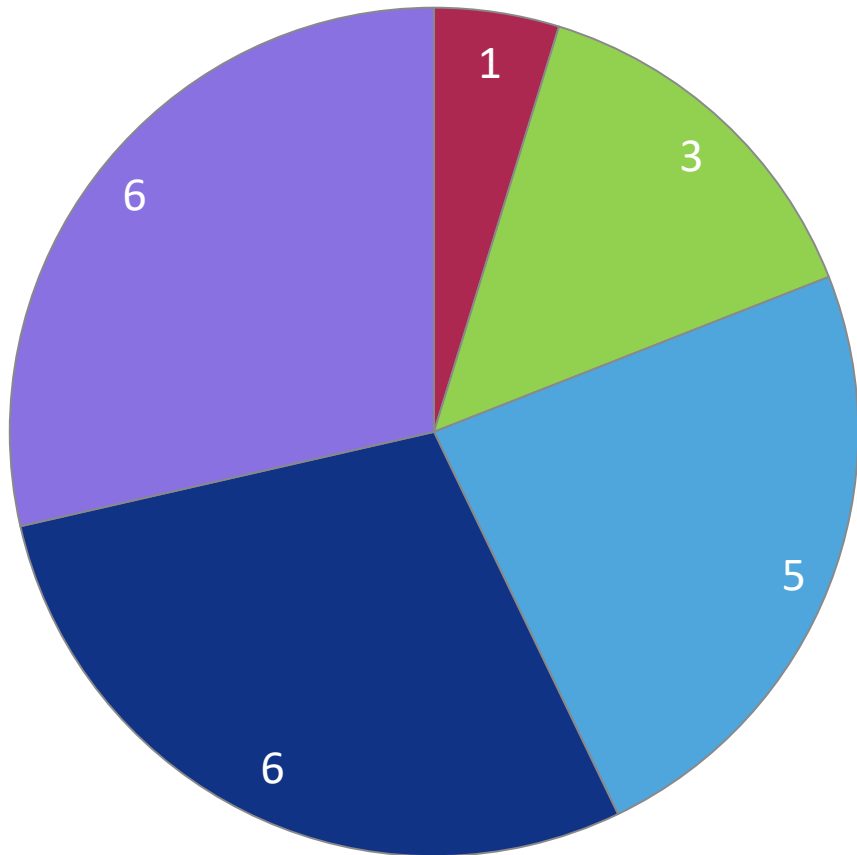
Orchis ustulata

Photo: PSU

## Implementation of measures

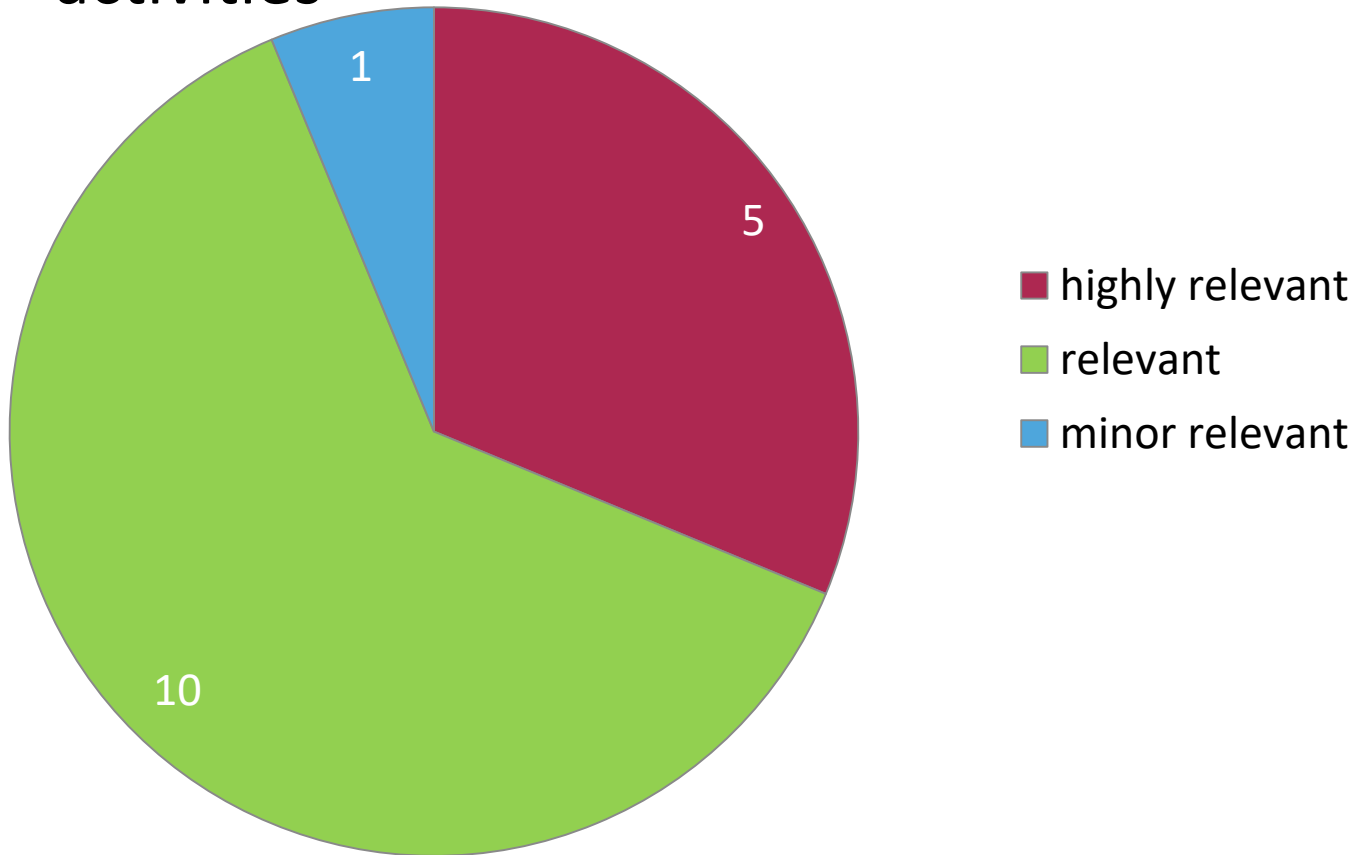


## Financing of measures

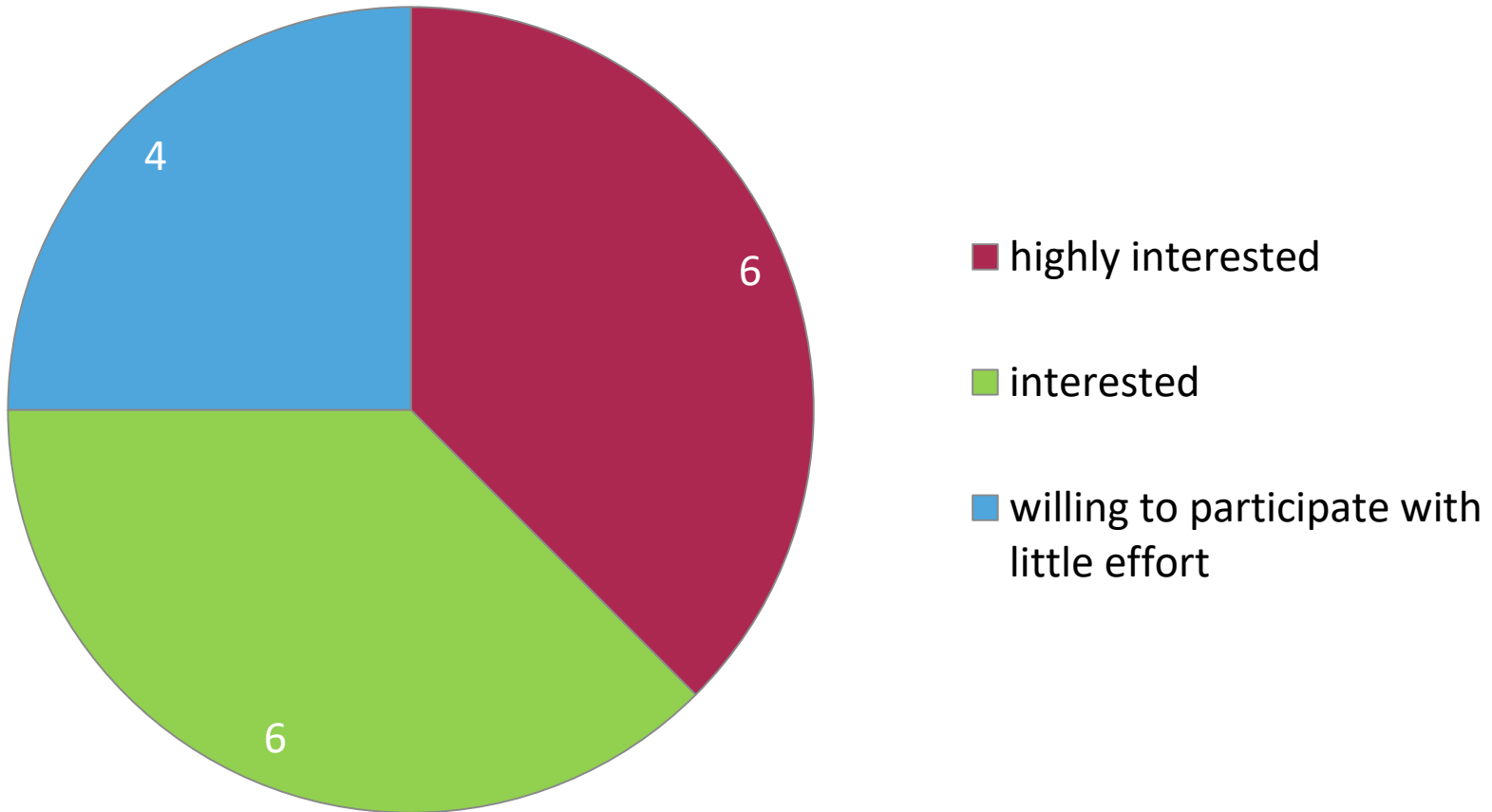


- Self-sustaining business
- Volunteering programs
- Conservation projects (e.g. LIFE+)
- EU funds
- Others (regular budget of PA, national funds)

## Relevance of dry habitats as focus of Danube-wide activities



## Interest in Danube-wide follow-up projects



## Summary of most important results

- Wide variety of dry habitats within the PA, though low in quantity
- Status quo is mostly bad or medium, mainly threatened by succession, invasive species and missing management
- Differing relevance and amount of measures implemented so far
- In total 39 very different activities and projects
- Mostly high relevance of dry habitat and interest in follow up projects



Questions/Suggestions?

## For PA available maps and data illustrating dry habitats

- Analogue maps – 5
- Digital data – 10
- None – 4

## National data available for the Danube region

- Analogue maps – 3
- Digital data – 9
- None – 4

## Data related to orchids

- Analogue data – 5
- Digital data – 8
- None – 5



# 3. Next Steps in the Generation of Dry Habitat Maps



## 1. Research of available data

## 2. Processing of available data

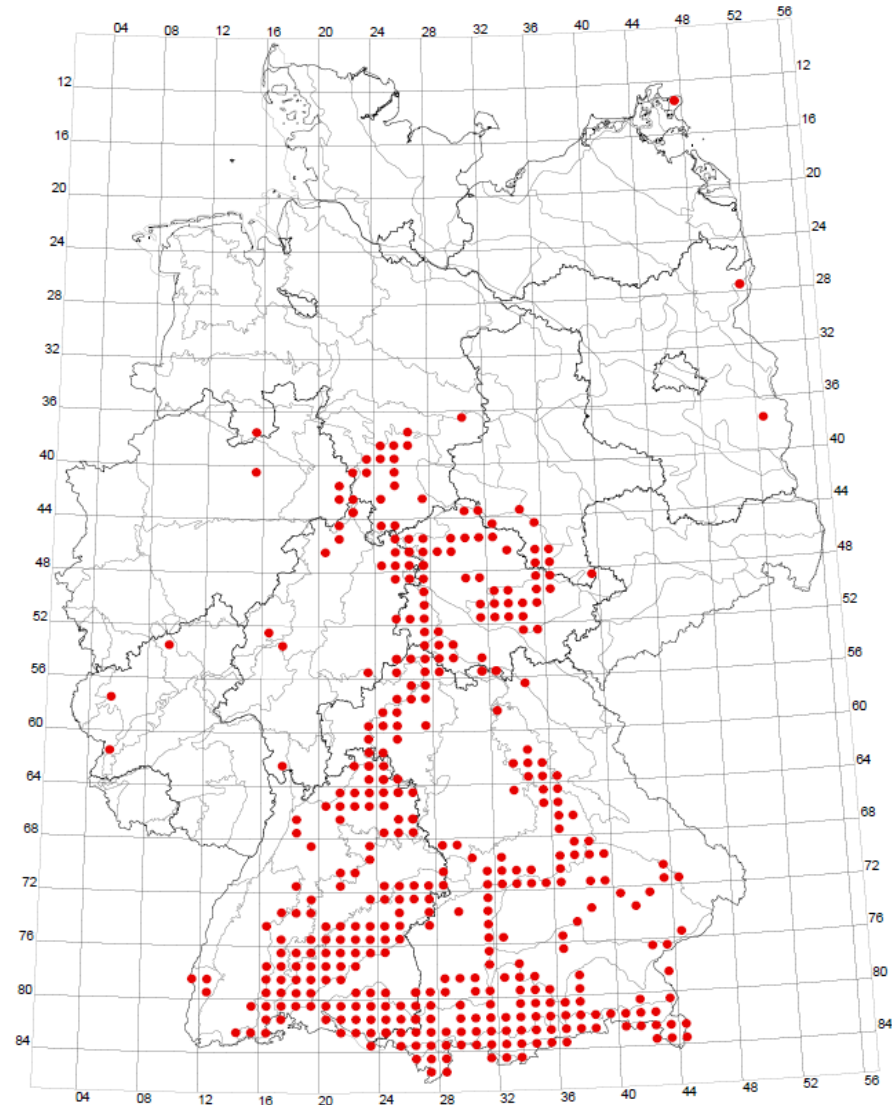
- Copernicus land cover and land use of Europe
- Verification of Copernicus classification
- Specification of Natura2000 Habitats
- Natura2000 Standard Data Forms → inter alia orchids
- Specification of Danube corridor
- .....

## 3. Retrieval of additional data from each network member

- Boundaries of protection areas
- Missing data on Natura2000 Habitat (Romania, Croatia)
- Data from Serbia comparable to Natura2000
- Dykes
- Biotope mapping
- Mapping of protected species (cf. Artenschutzkartierung ASK Germany)
- Orchids

**Frauenschuh (*Cypripedium calceolus*)**

Verbreitung der Art in Deutschland



Nachweise ab 1990, Stand: 2006

Fachliche Grundlagen: LANIS-Bund, Bundesamt für Naturschutz (BfN), Naturräumliche Gliederung nach Meyr  
Topographische Grundlage: VG 1000 © Bundesamt für Kartographie und Geodäsie ([www.bkg.bund.de](http://www.bkg.bund.de))

## 4. Standards of quality of data

- Current, relevant data
- Digital data, compatible with GIS
- Important analogue data need to be digitized
- Remaining analogue data will be catalogued to form a database for future projects

## 5. Data exchange

- 1 Contact person for each country
- Web link to freely available digital data
- Data transfer via FTP server to PSU or to WP6
- Analogue data as PDF

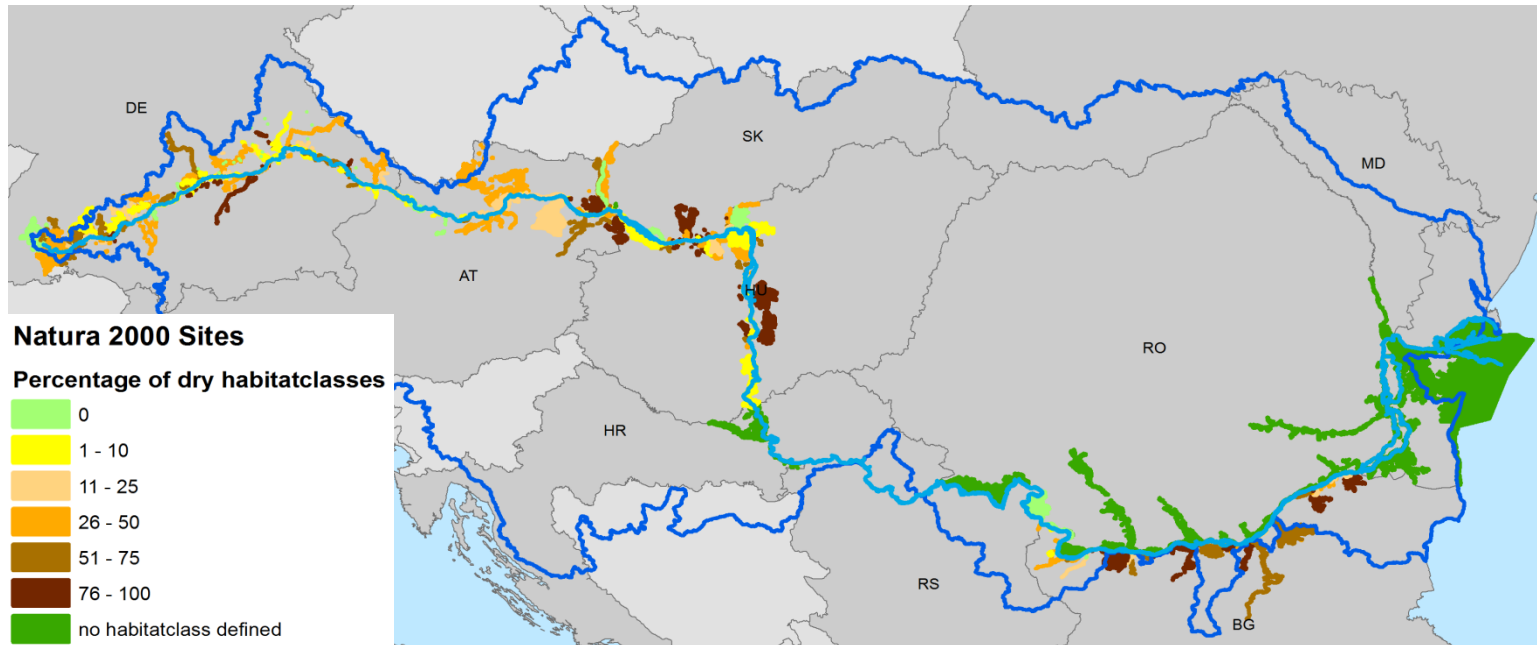
## Planned results of mapping

- Dry habitat map of Danube
- Dry habitat map of each PA
- Conservation status of each site
- Orchid map of Danube
- Orchid map of each PA on an unitary standard

Quality and GIS-procedures depend on available and delivered data

## Mapping of orchids

- Orchids listed in FFH annex II, IV and V + IUNC Red List
- Not all species with respective place of origin
- But aggregated illustration like in the previous example





Questions/Suggestions?



# 4. Strategic Paper



## List of Contents

1. Introduction
2. Danube dry habitats
3. Relevance of rivers for dry habitats
4. Causes of threat, necessity for protection and management
5. Corridor – gap analysis, identification of bottlenecks
6. Best practice within DANUBE parks
7. Best practice of similar projects
8. Catalogue of measures
9. Literature

## List of Contents

### 2. Danube dry habitats

#### 2.1 Site conditions for dry habitats:

climate, substrate, land use, erosion, sedimentation, natural disturbances

#### 2.2 Primary dry habitats:

rock vegetation, dry grassland on gravel, salt steppe, inland dunes/sand fields, inland salt meadows

#### 2.3 Secondary dry habitats

dry grasslands, mesoxerophytic grasslands, dry meadows, shrub heaths

#### 2.4 Fauna of dry habitats

relevant species groups

## List of Contents

### 3. Relevance of rivers for dry habitats

#### 3.1 Interactions between rivers and dry habitats

#### 3.2 Particular relevance of the Danube (biogeographic regions)

#### 3.3 Species, examples, orchids

## List of Contents

### 4. Status quo and outlook

4.1 Quantitative and qualitative overview of Danube dry habitats

4.2 Causes of threat

4.3 Necessity for protection and management

### 5. Dry habitat corridor

5.1 Gap analysis

5.2 Identification of bottlenecks

## List of Contents

### 6. Best practice within DANUBEparks

6.1 Pilot action 1

6.2 Pilot action 2...

→ 39 activities and projects so far according to the questionnaire

### 7. Best practice of similar projects

7.1 Best practice 1

7.2 Best practice 2...

### 8. Catalogue of measures

## 6. Best Practice – standard form

Fact Sheet												
Project Name	Responsible Organization	Number										
<b>Title</b>												
<p><b>Measure Type</b></p> <table border="0"> <tr> <td><input type="checkbox"/> mowing</td> <td><input type="checkbox"/> mechanical removal of invasive species</td> </tr> <tr> <td><input type="checkbox"/> grazing</td> <td><input type="checkbox"/> chemical removal of bushes</td> </tr> <tr> <td><input type="checkbox"/> burning</td> <td><input type="checkbox"/> chemical removal of invasive species</td> </tr> <tr> <td><input type="checkbox"/> conservation of specific species</td> <td><input type="checkbox"/> public relations</td> </tr> <tr> <td><input type="checkbox"/> mechanical removal of bushes</td> <td><input type="checkbox"/> _____</td> </tr> </table>			<input type="checkbox"/> mowing	<input type="checkbox"/> mechanical removal of invasive species	<input type="checkbox"/> grazing	<input type="checkbox"/> chemical removal of bushes	<input type="checkbox"/> burning	<input type="checkbox"/> chemical removal of invasive species	<input type="checkbox"/> conservation of specific species	<input type="checkbox"/> public relations	<input type="checkbox"/> mechanical removal of bushes	<input type="checkbox"/> _____
<input type="checkbox"/> mowing	<input type="checkbox"/> mechanical removal of invasive species											
<input type="checkbox"/> grazing	<input type="checkbox"/> chemical removal of bushes											
<input type="checkbox"/> burning	<input type="checkbox"/> chemical removal of invasive species											
<input type="checkbox"/> conservation of specific species	<input type="checkbox"/> public relations											
<input type="checkbox"/> mechanical removal of bushes	<input type="checkbox"/> _____											

## 6. Best Practice – standard form

<b>Country</b>
<b>Location</b>
<b>Area Size</b>
<b>Initial Habitat Type</b> <input type="checkbox"/> dry grassland <input type="checkbox"/> mesoxerophytic grassland <input type="checkbox"/> dry meadows <input type="checkbox"/> shrub heath <input type="checkbox"/> rockfield <input type="checkbox"/> heissland <input type="checkbox"/> inland sand dune <input type="checkbox"/> inland saline marsh
<b>Planned Objectives and Reasons</b>



## 6. Best Practice – standard form

Start	End
<p><b>Implementation Status</b></p> <p><input type="checkbox"/> terminated <span style="margin-left: 300px;"><input type="checkbox"/> not started yet</span></p> <p><input type="checkbox"/> in progress</p>	
<p><b>In Charge of Implementation</b></p> <p><input type="checkbox"/> staff of responsible organization <span style="margin-left: 300px;"><input type="checkbox"/> external paid service</span></p> <p><input type="checkbox"/> farmers/shepherds <span style="margin-left: 300px;"><input type="checkbox"/> non-profit institution</span></p> <p><input type="checkbox"/> volunteers</p>	
<p><b>Financing</b></p> <p><input type="checkbox"/> self-sustaining business <span style="margin-left: 300px;"><input type="checkbox"/> national funding</span></p> <p><input type="checkbox"/> volunteering program <span style="margin-left: 300px;"><input type="checkbox"/> EU funding</span></p> <p><input type="checkbox"/> regular budget of responsible organization</p>	
<p><b>Costs</b></p>	

## 6. Best Practice – standard form

<b>Measure Description</b> <ul style="list-style-type: none"><li>•</li><li>•</li><li>•</li></ul>
<b>Achieved Outputs</b> <ul style="list-style-type: none"><li>•</li><li>•</li></ul>
<b>Evaluation</b> <input type="checkbox"/> completely successful <input type="checkbox"/> satisfactory <input type="checkbox"/> falling short of expectations <input type="checkbox"/> failed
<b>Lessons learned and Recommendations</b>

## 6. Best Practice – standard form

### Transferability to comparable Areas

- |   |   |
|---|---|
| <input type="checkbox"/> easily transferable          | <input type="checkbox"/> not transferable |
| <input type="checkbox"/> needs substantial adaptation |   |

### Available Information

- |                                 |   |
|---------------------------------|---|
| <input type="checkbox"/> report | <input type="checkbox"/> digital GIS data |
| <input type="checkbox"/> map    | <input type="checkbox"/> publication      |

### Sustainability

- |  |  |
|--|--|
| <input type="checkbox"/> part of a comprehensive action plan to connect dry habitats | <input type="checkbox"/> standalone measure        |
|  | <input type="checkbox"/> follow-up project planned |

### Photos – before

### Photos – afterwards

### Photos – work in progress



Questions/Suggestions?

## Preliminary To Do List

- ✓ Describing implemented projects – within PA and beyond – by means of the standard form
- ✓ Transferring missing relevant digital data (slide #46) to PSU or to WP6
- ✓ Digitizing most important analogue data
- ✓ Sending internet links to relevant freely available data
- ✓ Transferring remaining relevant analogue data to pool it in a database
- ✓ Identifying one contact person per country for PSU to pool and transfer national digital data
- ✓ (Scientific) papers on the issues of the strategic paper



Thank you very much!

## Discussion

- Have the implemented projects been successful in tackling the respective threats?
- What obstacles have you faced in implementing the measures?
- What do you need to be able to better protect and develop dry habitats?
- What can you recommend to other PA when planning measures for dry habitats?
- Why do you rate the mid-term perspective of (semi)dry habitats optimistically?