



State Office for Water Management
Munich



The Isar river - Freedom from its concrete corset

by

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RESTORE- Integrating River Restoration Into Spatial Planning:
Delivering Multiple Benefits
Arnhem, Netherlands
March 8 -9, 2012



The River Isar in Munich

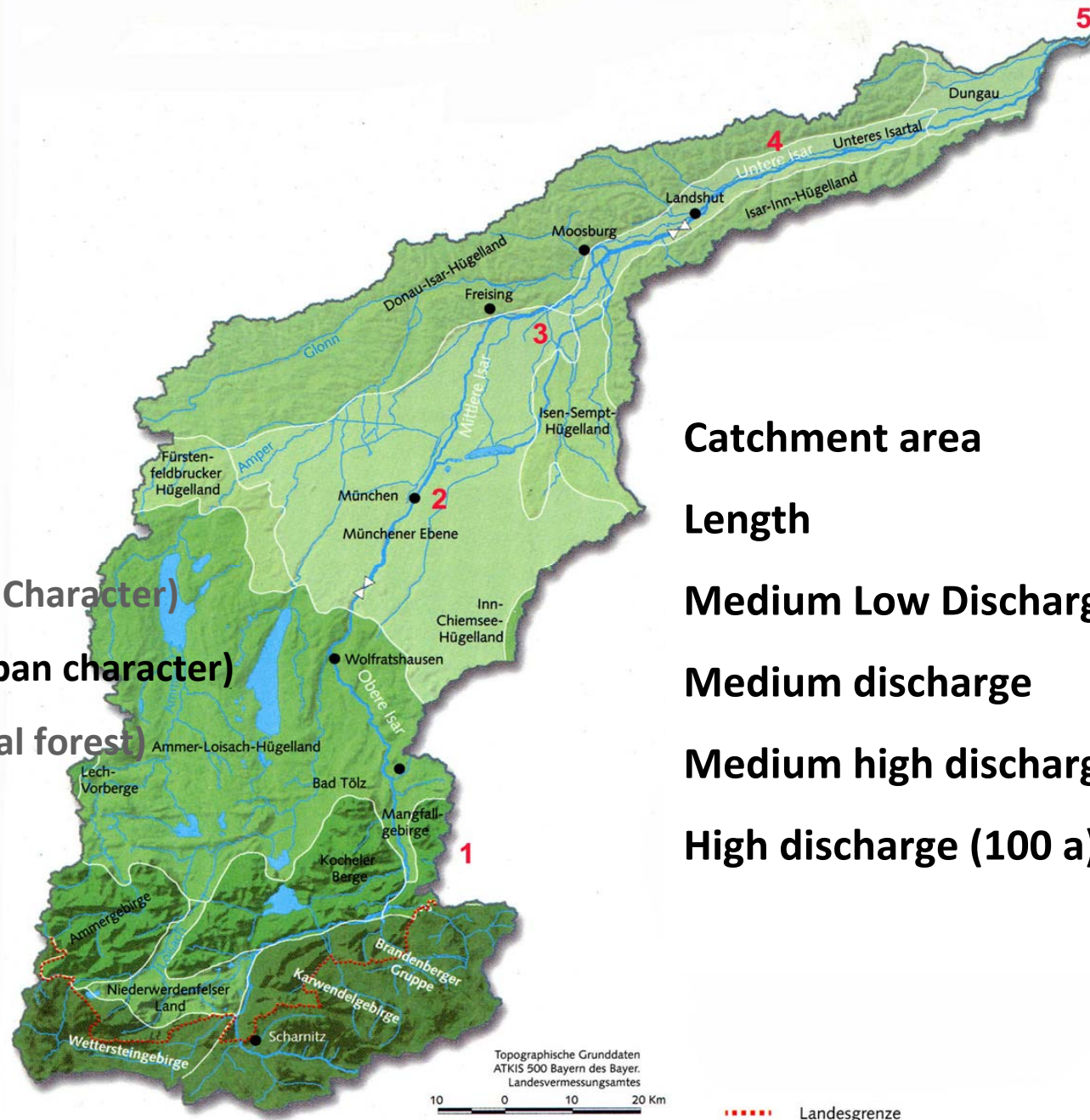


Themes for this Workshop

- Integrated land and (river) water management
- Spatial planning process
- Multiple benefits in both urban and rural settings
- Inter-governmental co-operation
- Stakeholder and public involvement

Isar River Sections

- 1 Upper Isar (alpine Character)
- 2 Isar in Munich (urban character)
- 3 Middle Isar (alluvial forest)
- 4 Lower Isar
- 5 Danube



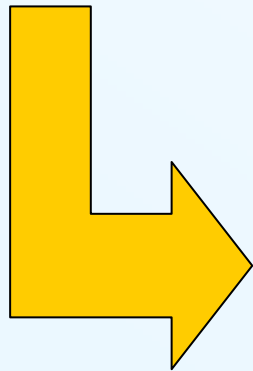
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Catchment area	9000 km ²
Length	270 km
Medium Low Discharge	40 m ³ /s
Medium discharge	90 m ³ /s
Medium high discharge	420 m ³ /s
High discharge (100 a)	1.100 m ³ /s

The Main Goals of the Isar Restoration

- Flood Protection
- Ecological Restoration
- Recreation & Leisure





Two spatial zones of the Isar-Plan: Urban and Semi-urban

Here: The Sub-Urban River Character



- Optimising land-use
- Focus on biodiversity and rare species

Stakeholder Involvement

- Interesting interplay between state, city planners, Ngo's and public groups
- Prior to 1990 Isar restoration planning was isolated
- Spatial planning competition for landscape architects was carried out
- Mediation firm engaged to identify the optimal solution

Special spatial planning mechanisms

- Dyke security without affecting trees
- Hydrosaat methods for planting saplings
- Modelling by TU Munich in real-life models
- Zoning for public use and recreation
- Info-system for the public on completion



Dyke/ Bank Protection



Ground Sills on the River Bottom

Before



After





Before
Sloping concrete river banks



Flatter stony river banks After

Monotonous River Landscape Before



Diversified Bank Structures- After



Before-
A concrete
channelised
corsett



After- more
variety and
diversity



Recreation and Leisure at the Isar





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Thank You !

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