Brook Restoration with Citizens

- Examples of the Metropolitan Region of Hamburg, Germany -

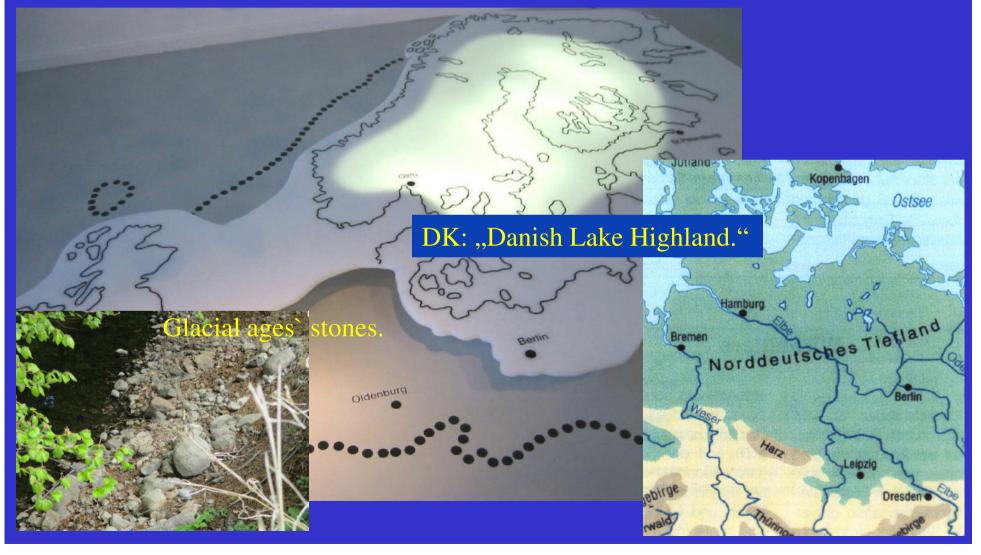


Dr. Ludwig Tent Edmund Siemers-Stiftung D – 22880 Wedel <u>www.salmonidenfreund.de</u>

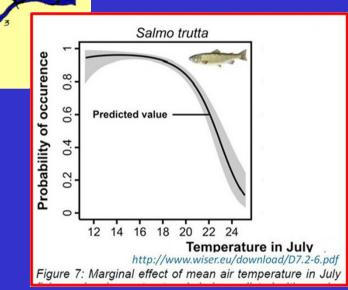
The Landscape, North German Lowland

Structured by the glacial ages –

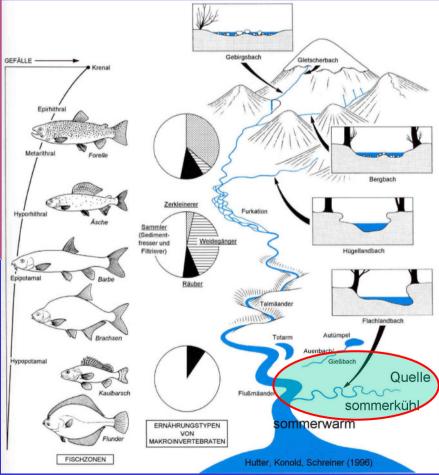
the North German Lowland is not (in every region) flat.



Watercourses – brooks and small rivers

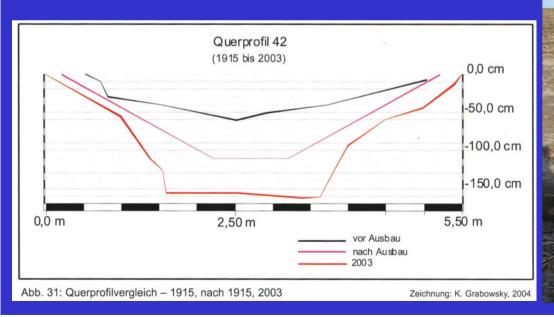


- Brooks and small rivers make up to 80 % of the watercourses` total length
- Many of these are salmonid streams by their natural characteristics.



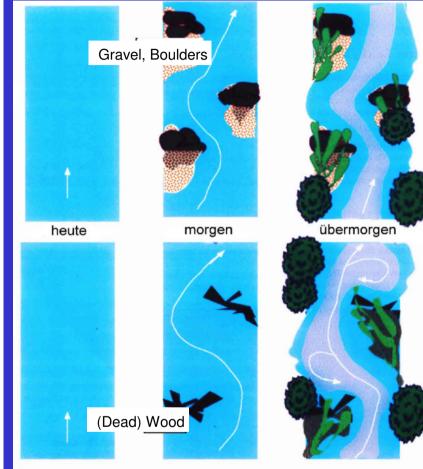
Reality of present day cross sections







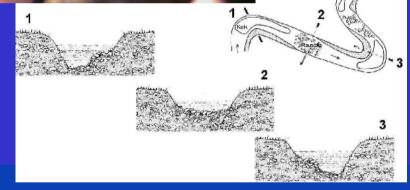
In search of an alternative - We have to restore our waters.



Do you see what you see?

• In focus: In-stream-Restoration





Compulsatory participants ?

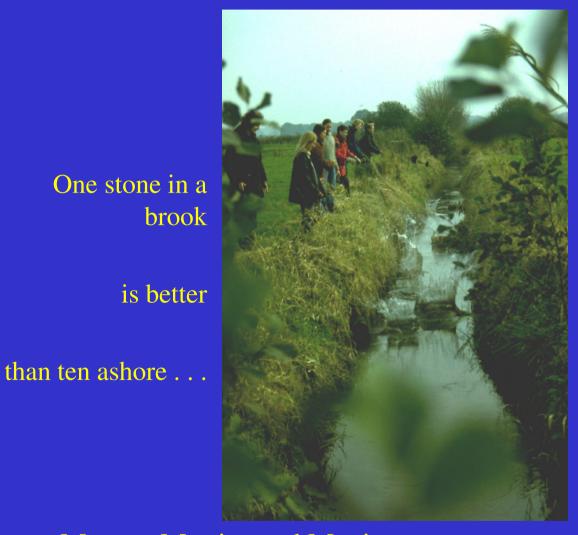
- Landowner (farmer, ...)
- Maintenance association (farmers, ...)
- Water Authority "ok"

Other: active participants (neighbourhood, environmental groups), sponsors, specific boards and / or communities to be informed ...

 \rightarrow \rightarrow Gentle maintenance

Stakeholder Participitation





Acting in between Mantra, Metrics and Mania [Catchment Conciousness, Malcolm Newson (2010)]

Urban Example: Trout 2010, Hamburg





Stakeholder Participation with about 80 adopt-a-brook groups resulted in

- Restoration of the river bed, re-induced turbulence
- Re-gaining of the former trout brooks in the middle of the city
- "Trout 2010" = Best Practice-project, adapted for Hamburg WFD-Programs

 $\underline{http://citeseerx.ist.psu.edu/viewdoc/download; jsessionid=95 ABB041FA2BB4E28BFD1F337AB3854A?doi=10.1.1.568.4397 \& rep=rep1 \& type=pdf$

Rural Example - Habitat Restoration is just Fun !

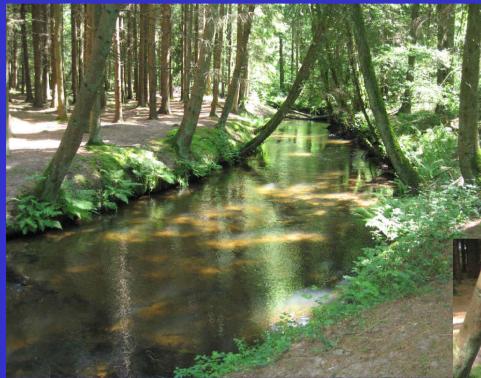




- Then: for 75 ,,Waldfeen (Fairies of the woods)" and ,,Naturburschen (Nature Lads)"
- Hold healthy food and beverages available ...



Habitat Restoration and Fun - Results



- Narrowing of the channel by adding characteristic material of the landscape
- Rheophilic organisms re-appear



Habitat Restoration and Results



- The river positions the material by own dynamics
- Rheophilic organisms re-appear

Sea Trout, male, 83 cm

One main topic left - We need the trees.



Salmo trutta o Jone Grand Selection of the selection of

Trees are most important features for

- Habitat development
- Erosion control
- Last, but not least: Adaptation in climate change Overheating of cool brooks

Lack of trees Habitat loss

Erosion and costs

We need the trees.

Trees are most important features fo

- Habitat development
- Erosion control
- Last, but not least: Adaptation in climate change

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Danish Examples, translated ...

Life-long learning – practised:

Lebendige Bäche und Flüsse

Praxistipps zur Gewässerunterhaltung und Revitalisierung von Tieflandgewässern

Bent Lauge Madsen & Ludwig Tent





Herausgeber: Edmund Siemers-Stiftung

Education materials available

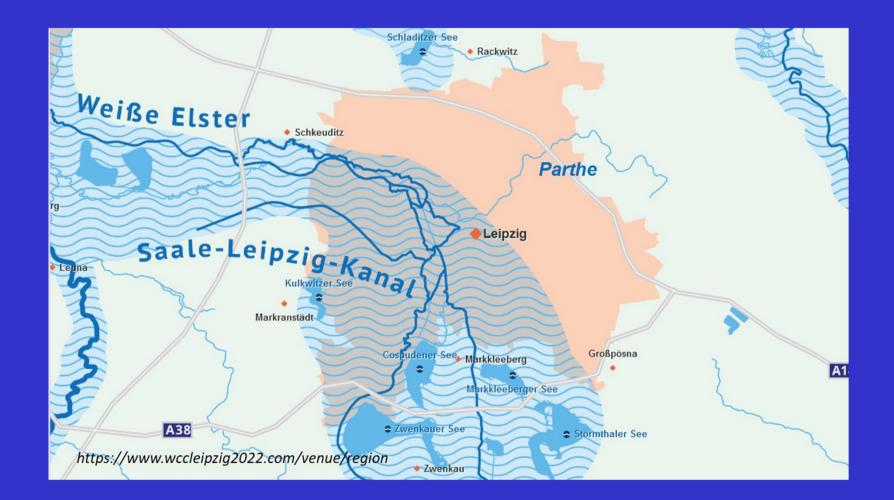
www.salmonidenfreund.de



Bessere Bäche Praxistipps

Bereits geringer Aufwand bringt große Erfolge für den Lebensraum

Why not give Leipzig`s brooks and citizens a chance?



Perhaps to start with the river Parthe?