Overall concept Elbe
- Implementation in Germany

Thomas Gabriel in representation for Ulrike Hursie (FGG Elbe)
Jan. 2017  Bund-Länder-committee decides the overall concept Elbe (GKE)
Mär. 2017  2. Regional conference

Approximately 200 guests came together in the Cathedral of Magdeburg at the invitation of the Federal Government and the federal states involved to discuss this overall concept as a basis for future action related to the Elbe as a living environment and transport route.
Jun. 2017 German “Bundestag” took note of the overall concept for the Elbe and adopted a corresponding resolution.

With the resolution, the Bundestag called upon the Federal Government to draw-up and implement corresponding measures for the overall concept for the Elbe aimed at developing the German non-tidal Elbe in a timely manner and within the available budget.
Development of the overall concept took place in two steps:

1. **Inventory and deficit analysis** by representatives of the federal and state administrations

2. **Elaboration of the target conception**

The **priority areas** of the overall concept for the Elbe are divided into **four work packages:**

- water management,
- nature conservation,
- stream control and
- transport
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#### Water management (WP 1)
- Reduce material loads (nutrients, harmful substances) in the water as well as in the sediments of the Elbe and its floodplains (water quality and sediment quality management)
- Improve continuity and dynamics with regard to sediments
- Improve hydromorphology (dynamics of discharge, water bodies' structure, habitats)
- Expand flood retention in catchment areas (flood retention spaces – e.g. relocating dykes, bypass retention basins; adaptations of use)
- Improve flood defences (technical flood protection; safeguard efficiency of flood water outflow cross-sections, e.g. ice floods)

#### Nature conservation (WP 2)
- Create favourable conservation statuses for habitat types and species in the river bed and banks (N2000 conservation objectives, aqua-ecological functions), improve waterbodies' structures, stimulate morphodynamics, reduce solid bank fixation
- Improve horizontal (lateral) links of floodplain waters and affluents to strengthen the ecological impact of river and floodplain connections (N2000 coherence, ecological functions of floodplains)
- Stop further vertical separation as a result of river bed erosion to restore functional river-wetland couplings (N2000 conservation objectives and coherence, ecological functions of floodplains), near-natural water level dynamics
- Expand inundated areas in former floodplains, relocate dykes
- Protect species and habitats (N2000 conservation objectives) by avoiding disturbances, reducing material and other loads and adapting use with regard to rivers and floodplains

#### Stream control and river bed stabilization (WP 3)
- Optimize stream control system for low water range averages (reliability)
- Stabilize beds by widening cross-section scopes (incl. forelands, following the river bed stabilization strategy) and optimize stream control system for mean water ranges to reduce erosion followed by stabilization of water levels and to achieve steady sediment transport
- Stabilize river beds by reducing bedload deficits
- Optimize river regulation structures in ecological terms to maintain/improve their control function

#### Transport (WP 4)
- Maintain and optimize transport function upstream of Magdeburg
- Maintain and optimize transport function downstream of Magdeburg
- Extend time period for low water ranges when fairway is guaranteed to be sufficiently deep
- Improve usability, for example by means of digital route information, traffic rules and traffic information
- Prioritize sections with transport problems (remove bottlenecks)

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**19 objectives for the 4 work packages**
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Guideline:
5 fields
(overarching objectives)

<table>
<thead>
<tr>
<th>Fields</th>
<th>Tasks and objectives</th>
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<tbody>
<tr>
<td>E</td>
<td><strong>Erosion control and bedload balance</strong></td>
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<td>Bed and water level stabilization</td>
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<td><strong>Improvement of flood defences, water retention and water balance</strong></td>
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<td>G</td>
<td><strong>Reduction of input of substances</strong></td>
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<td>Reduction of material loads</td>
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<td>S</td>
<td><strong>Improvement of navigation conditions</strong></td>
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<td>Optimization for low water ranges</td>
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<td>Improvement of route information</td>
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<td>Optimization of river regulation structures in ecological terms</td>
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<td>Strengthening of the Elbe/Mittelland Canal/Elbe Lateral Canal federal waterways system</td>
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<td>N</td>
<td><strong>Preservation and restoration of habitats and living environment types in water bodies, on banks and in floodplains</strong></td>
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<td></td>
<td>Improvement of the structure of bodies of water and banks</td>
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</table>
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Guideline:

<table>
<thead>
<tr>
<th>Future considerations</th>
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<tbody>
<tr>
<td>Perspectives for the future and requirements that are beyond the framework of the key issues and the rules of procedure of the overall concept in terms of spatial scale, content and time</td>
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</tbody>
</table>

**Guideline:**

5 fields

(overarching objectives)

+ Future considerations
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Implementation of the guideline:
55 proposals for specific measures
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Implementation of the guideline:
Locations for proposals along the Elbe
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**Rules of Procedure**

- set the **framework for the future working method** within the overall concept
- **regulate mandates / functions** in the BLG, the BLK and the Advisory Council
- were adopted with the **active participation** of the Advisory Council
- were **passed on 25.01.2019** in the BLG by the representatives of the **federal states** and the **federal government**
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Rules of Procedure

Bund-Länder Committee

- Management: Waterways and Shipping Administration (WSV) / Federal Waterways and Shipping Agency (GDWS)
- Members:
  - Water management: FGG Elbe, Secretariat
  - Nature conservation: BR Mittelelbe
  - Stream control/traffic: GDWS/WSV

Additional items:
- 3 permanent representatives for the preparation of advisory council meetings
- 1 representative of environmental groups
- 1 representative of industry associations

Advisory Council
- Chair: Secretariat
- Members:
  - 1 permanent representative, respectively, of the BAW, BIG, BmB, UBA
  - Guests: one permanent representative, respectively, of the church and the Czech Ministry of Transport

Secretariat
- Process control and communication

Regional participatory processes
Section of erosion:

**Klöden**

- §5 (Scoping-) date in 06.2016
- WSA Dresden is currently preparing to award the “EIA”
- BAW updates model basis for the section Klöden and develops variant optimization with WSA Dresden
- Advisory council meeting as an on-site appointment in Klöden on 04.06.2018
- Specialist discussion on 13./14. March
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Remaining section:

- 2019

Developing of a research assignment according to chapter 4 „GKE“

Für die Reststrecke wird im Gesamtkonzept folgendes vorgeschlagen: Für die Reststrecke wird zunächst eine Untersuchung beauftragt, welche Möglichkeiten zur Anpassung dieses Elbabschnittes unter Maßgabe der verkehrlichen und ökologischen Zielstellungen bestehen. Die Erstellung und die Ergebnisse der Untersuchung sowie die daraus resultierende mögliche Vorgehensweise werden im Anschlussprozess gemeinsam diskutiert und bewertet (vergleiche Kapitel 5 und 6).
„Z“, Future considerations

- Investigation of the possibilities and limits for stopping or returning erosion

- boundary conditions to be observed (ecologically, economically, socioculturally ...)

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Ger./Czech. Agreement

According to the Bundestag Resolution of 21.06.2017, the Federal Government is required

"... to enter into negotiations with the Government of the Czech Republic in which the navigation parameters and their maintenance developed in the overall concept of the Elbe are agreed, in order to give the Czech Republic the security of preserving the “Binnenelbe” as a federal waterway and international inland waterway. ..."

12.11.2018  Start of negotiations in Bonn (GER)

May 2019  Continuation of negotiations in Roudnice n. L. (CZE)
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Outlook

inter alia

- annual report
- Establishment of organizational structures
- work plan
- Continuation "Klöden"
- Investigation Order "Reststrecke"
- Performance description "Stop / return erosion"
- Water management and nature conservation action planning of the countries
Concretization of the water management planning

<table>
<thead>
<tr>
<th>Räumliche Zuordnung</th>
<th>Angaben zur Maßnahme</th>
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<tr>
<td><strong>Maßnahmentyp/ Maßnahmenbezeichnung</strong></td>
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<td><strong>Anfangszeitraum</strong></td>
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<td><strong>Planungsphase</strong></td>
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<td><strong>Bau- und Umsetzungsphase</strong></td>
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<td><strong>abgeschlossen</strong></td>
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**Deichrückverlegung Sachau-Priesitz**

**Deichrückverlegung Mauken-Klöden**

**Deichrückverlegung Schützberg**

**Deichrückverlegung Buro**

**Deichrückverlegung Klieken**

**Polder Axien / Mauken**

**Deichrückverlegung Lödderitzer Forst**

**Deichrückverlegung Gatzer Bergdeich**

**Wiedergewinnung von natürlichen Rückhalteflächen**

Maßnahmen zur Förderung des natürlichen Wasserhalten in der Fläche durch Besiegelung / Rückverlegung / Rückbau von nicht mehr benötigten Hochwasserschutzeinrichtungen (Deiche, Mauern), die Besiegelung von Aufschüttungen etc., Reaktivierung geeigneter ehemaliger Überschwemmungsflächen etc.

**Aufstellung, Weiterführung, Beschleunigung und/oder Erweiterung der Bauprogramme zum Hochwasserrückhalt inkl. Überprüfung, Erweiterung und Neubau von Hochwasserrückhalträumen und Stauanlagen**

**Maßnahmen zur Habitatverbesserung im Gewässer durch Laufveränderung, Ufer oder Sohlegestaltung**

Bauliche Maßnahmen zur Verbesserung der Gewässerstruktur von Sohle und Ufer mit baulicher Änderung der Linienführung z.B. Maßnahmen zur Neutrassierung (Remändrierung) oder Aufweitung des Gewässerinneres. Geht im Gegensatz zu Maßnahme 70 über das Initiieren hinaus.

**Reaktivierung von Flutmulden, Bettlaufweiten und Nebengerinnen (Kühnauer Bogen, linkes Ufer)**

**Anschluss von Seitengewässern, Altarmen (Quervernetzung)**

Maßnahmen zur Verbesserung der Quervernetzung, z.B. Reaktivierung von Altgewässern (Altarme, Altwässer), Anschluss sekundärer Auengewässer (Bodenabbaugewässer)

**Wartenburger Streng, im Bereich zwischen Bleddin und Wartenburg**
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www.gesamtkonzept-elbe.bund.de