



# CHR strategy &

# Working programme 2030



Mr. H. Habersack  
President of the CHR

# Strategy 2030 (1)

- Strategy is elaborated in 2020 for the period 2020-2030.
- The strategy is based on our original foundation statutes

## Our VISION:

..... the vision of the CHR is to continually generate adequate and future-oriented scientific knowledge pertaining to the hydrology of the Rhine, for the targeted use of policy-makers and stakeholders.....

.....the CHR is a leading worldwide example of successful and peaceful international collaboration when it comes to transboundary river basins.....



Our strategy is added in your welcome package and available in 3 languages (German, English, French)



[International Commission for the Hydrology of the Rhine Basin Strategy 2020-2030](#)

#### THE RHINE RIVER

The Rhine, which flows over a distance of 1,233 kilometres, from the Alps to the North Sea, is an important lifeline for Western Europe. A multitude of users depend on the Rhine for an adequate and clean water supply, while maintaining a healthy relationship with the natural environment and its ecosystem. In addition, limiting the risks of an over-supply of water in the event of flooding, or an under-supply of water during drought periods, and managing the previously

#### COMMISSION FOR THE HYDROLOGY OF THE RHINE BASIN

The Commission for the Hydrology of the Rhine Basin (CHR) is an independent scientific body, through which the relevant authorities of the Rhine's riparian states cooperate. The participating countries are Austria, Switzerland (also representing Liechtenstein), Germany, France, Luxembourg and the Netherlands. The CHR was founded in 1970, partly due to UNESCO and the WMO directives, within the context of the

# Strategy 2030 (2)

## Our MISSION:

1. provides a scientific knowledge base for the hydrology of the Rhine catchment area, conducting both solicited and unsolicited research
2. makes these results available to scientists, decision makers and stakeholders in the region.
3. focuses on advising politically-active and technically-oriented organizations (e.g. ICPR and CCNR) to support them with reliable science based information for the implementation of guidelines, policy, management and decision-making.

## THEMATIC focus:

1. continuous maintenance of the hydrological-morphological knowledge base
2. The effects of climate change, land and water-use, socio-economic changes, and the changing morphology and sediment transport within the riverine system



# Working Programme

CHR Information System

## Climate change(ASG)

- More detailed calculations for floods and droughts
- Mountain/basin hydrology

## Sediment

- Understanding physics
- Recommendation for sediment management

## Land-water use/Socio-economics

- Socio-economic scenarios
- Water demand and water distribution
- Impact on Rhine discharge

## “Rheinblick II”

- Integrated overview / Synthesis problem statement and future risks and uncertainties
- Engaging Rhine committies and other stakeholders to present meaningful indicators
- Engaging researchers; knowledge exchange
- ...

# ASG Climate Change – combined effects on high and low water, water availability...

## Recommendations:

1. Improving the human influences and regulations in the models to allow making scenario analyses and stress test experiment related to management and water uses
2. Investigation of the future dynamics of the snow component in streamflow (event scale - i.e. the transition to short duration snow and melt cycles)
3. Investigation of the impact of the exacerbating low flow situations the ASG project projected (e.g. on ecology, transportation, water use conflicts)
4. Analysis of Climate Change with respect to combined effects on high and low water, water availability

# Sediments

Recommendations:

Definition of the three most important project ideas

1. Influence of climate change and land use change on the sediment regime
2. Alteration and improvement of sediment balance and continuity, sediment transport, and morphology (in the context of the spatial and temporal development of river engineering and management in the Rhine River and major tributaries)
3. Sediment transport processes and management – National and bilateral projects
  - 3.1 Individual studies on sediment processes
  - 3.2 Bilateral projects addressing sediment management

# Socioeconomics

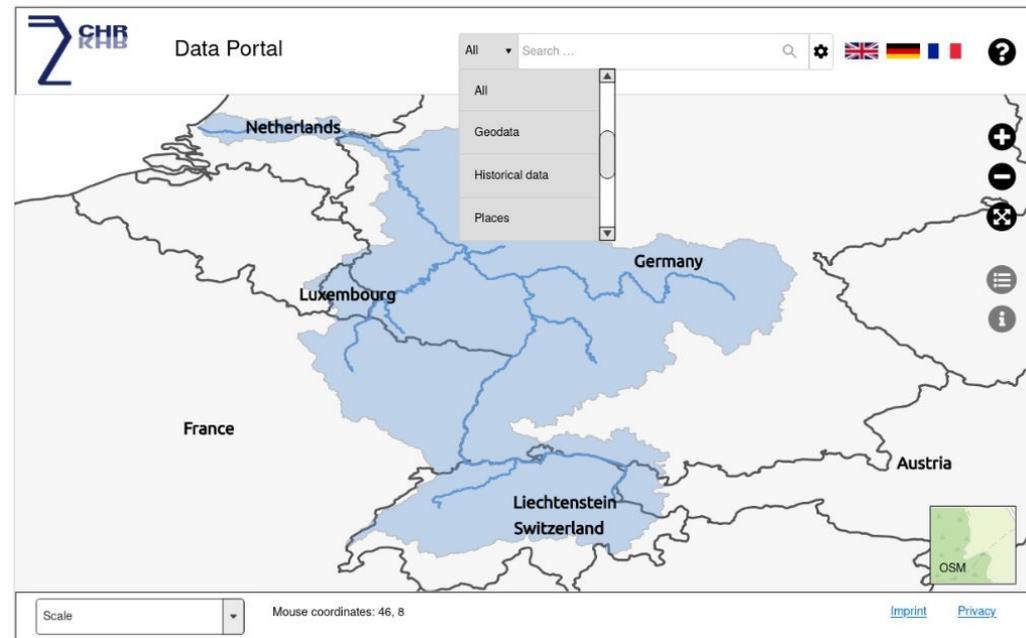
## Recommendations:

1. Stakeholder Consultation to define problems, data needs, analysis approach etc.
2. Use national data and knowledge for describing reference situation
3. Developing scenario narratives
3. Impact assessment of future scenario's on river discharges and water use
4. In co-creation with stakeholders (CCNR, ICPR, WMO and others)

# First results of inventory of information system ideas at the CHR

Conducted technical and non-technical interviews with CHR member organisations. Outcomes and recommendations:

- Utilize Free and Open Source Software (FOSS) for new information system components
- Use standards where possible
- No duplication of data
- Discuss exact functionality in a design-thinking workshop
- Start small and grow over time



# Discussion

We as CHR are not able to this (setting up information system) alone; we need our partner organizations.

How can your organization support us?