

Low water monitoring in the Rhine River Basin

European River Symposium 2021

Session 2: Adaptation to climate change:
the interest of basin management planning

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International Commission for the Protection
of the Rhine (ICPR)



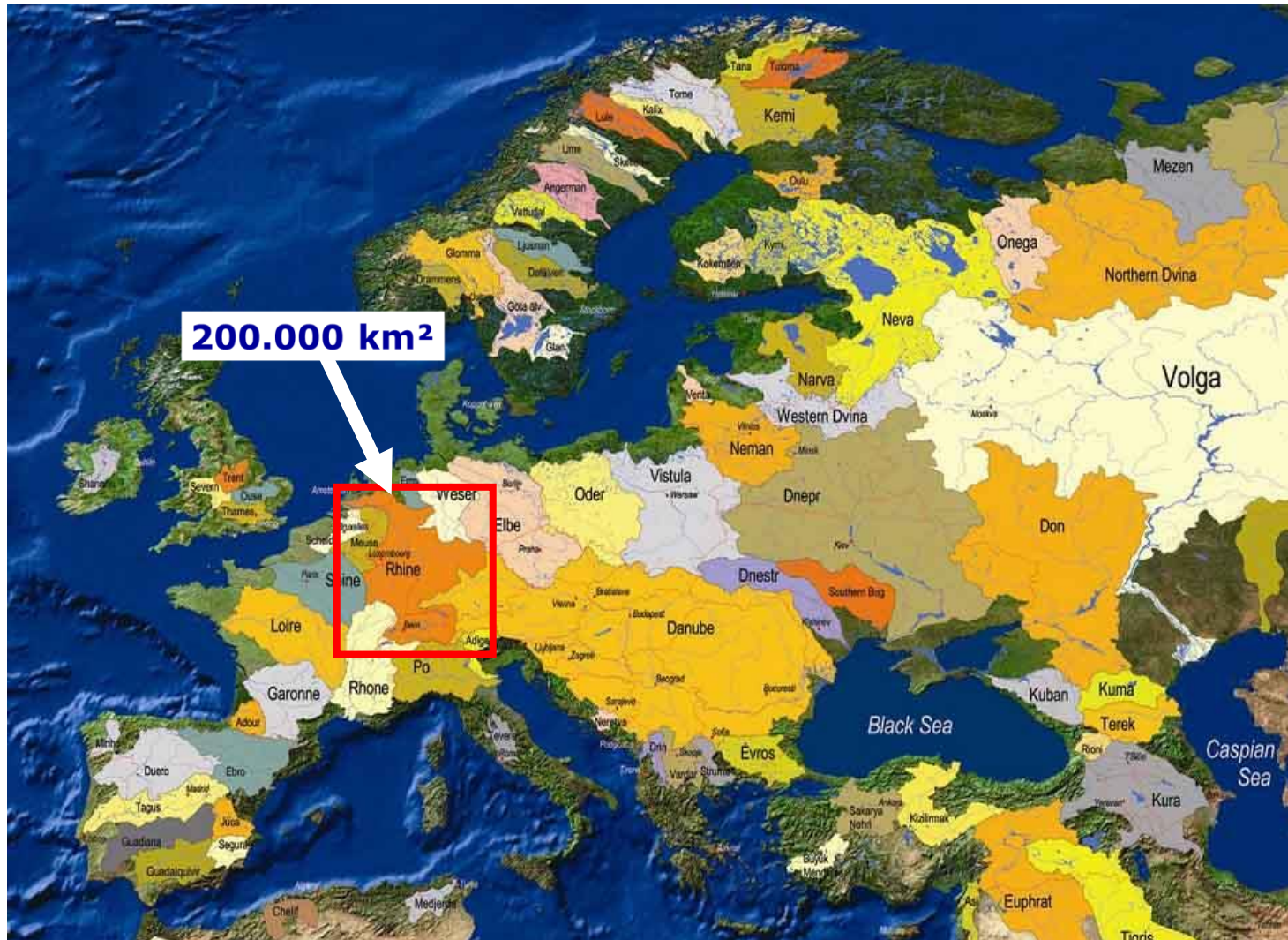
Internationale
Kommission zum
Schutz des Rheins

Commission
Internationale
pour la Protection
du Rhin

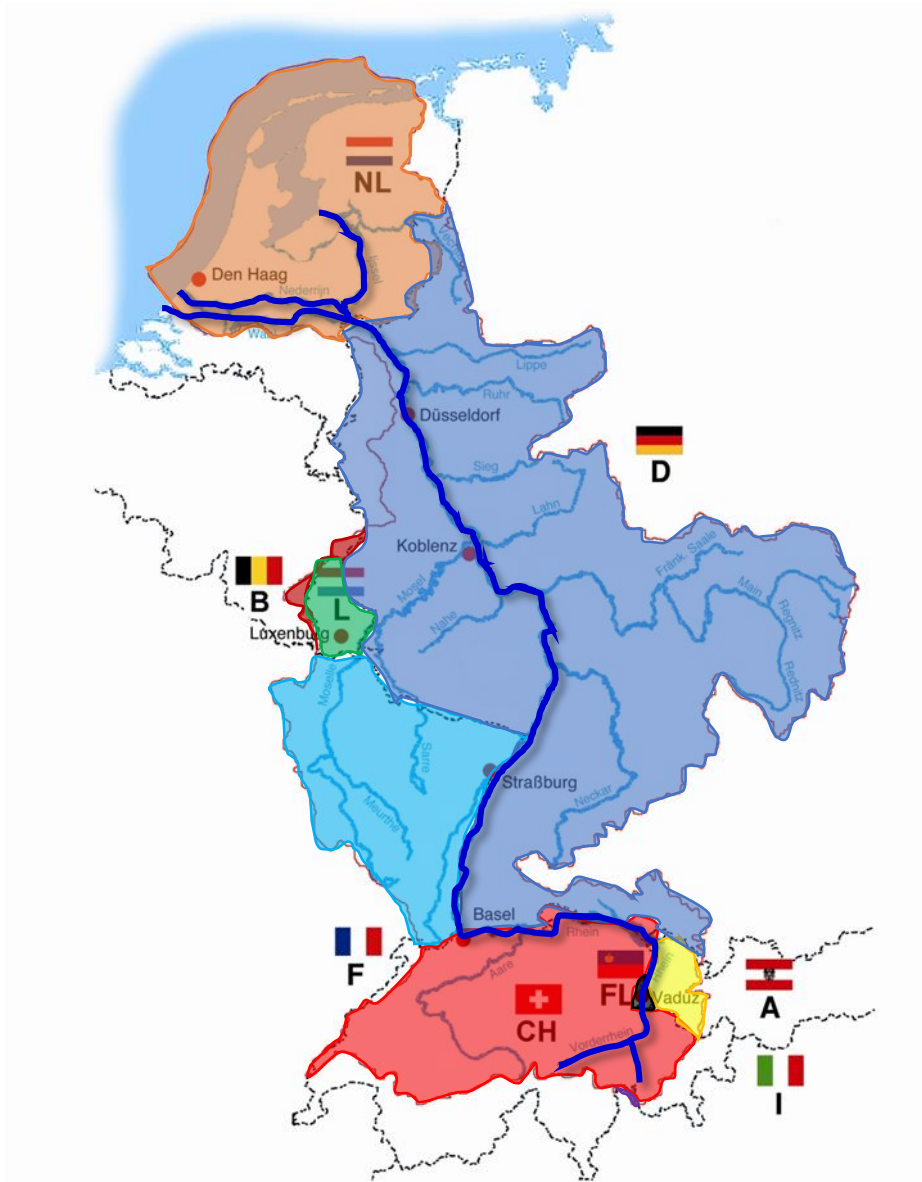
Internationale
Commissie ter
Bescherming
van de Rijn



The Rhine – a European river



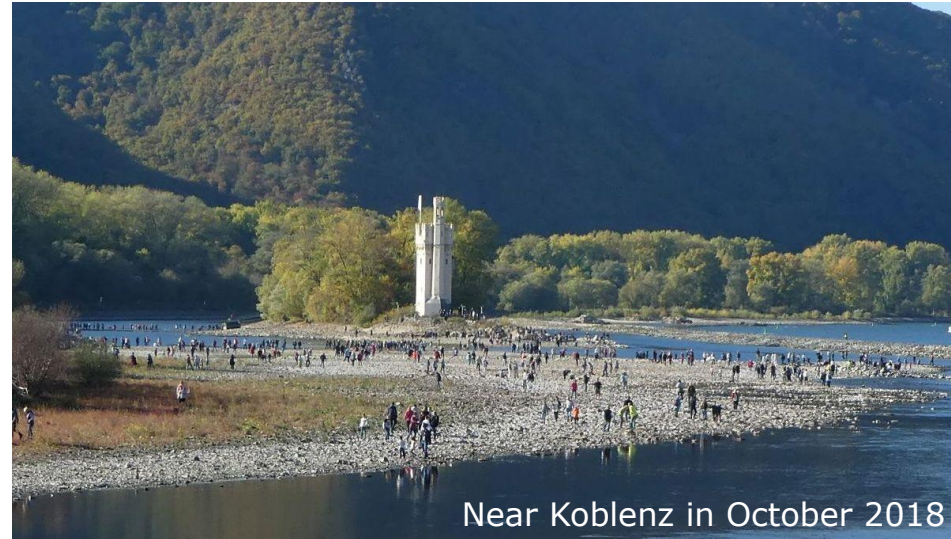
One river basin – nine countries



The Rhine and its challenges



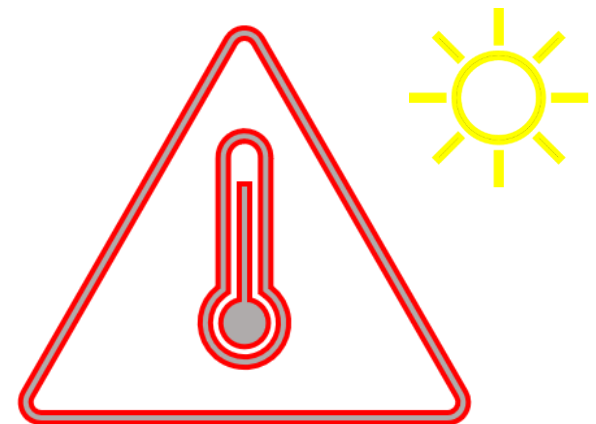
Düsseldorf in February 2021



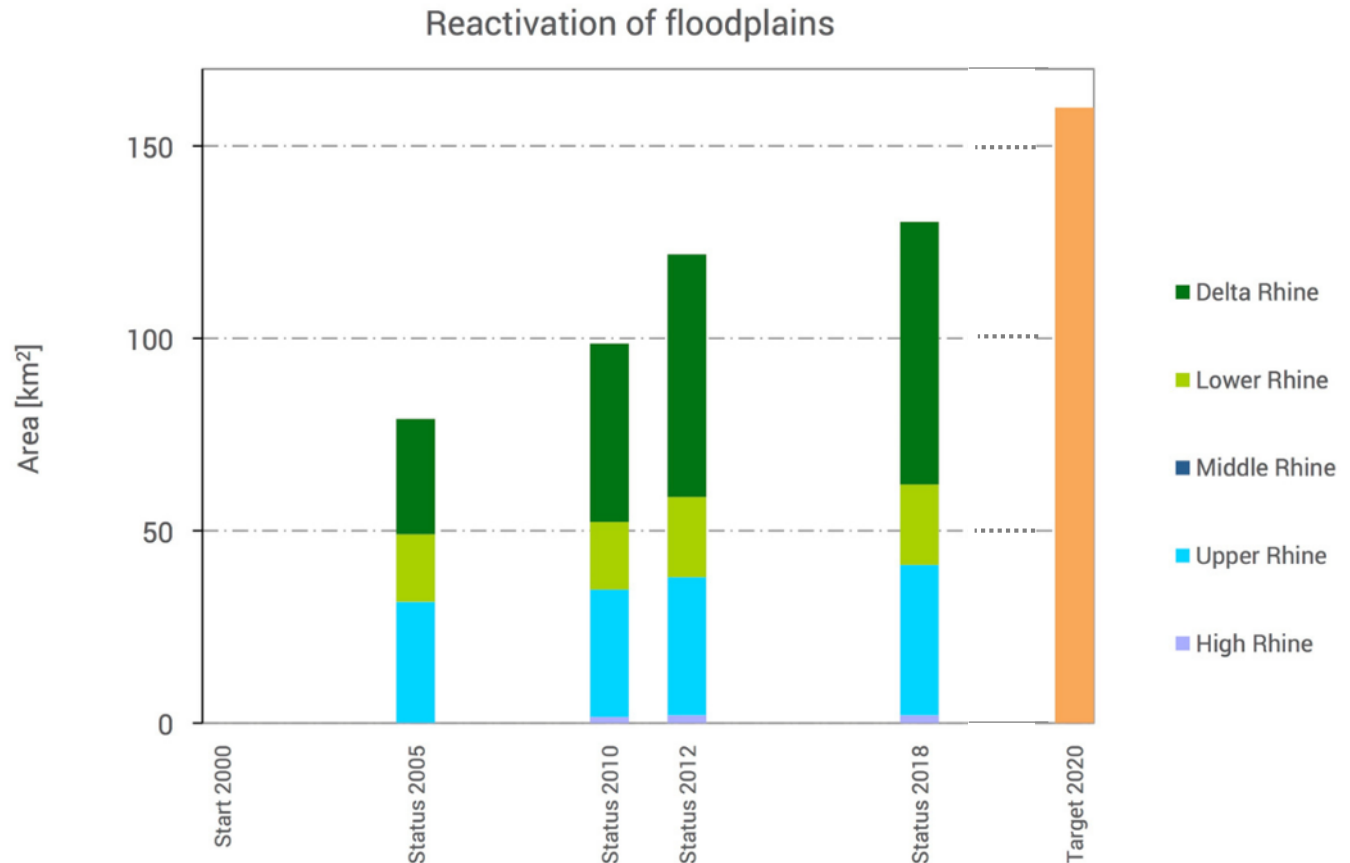
Near Koblenz in October 2018



Koblenz in June 2013



Success & objectives

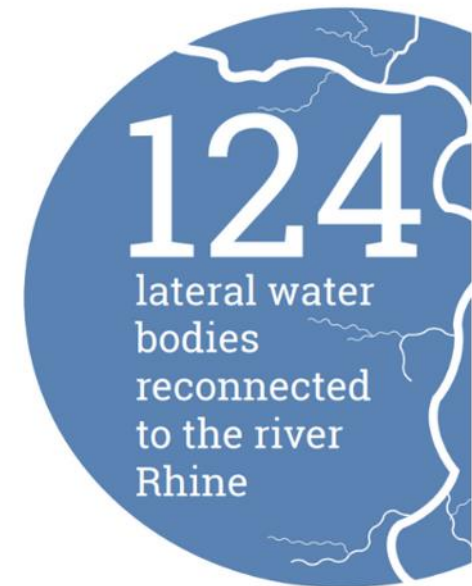
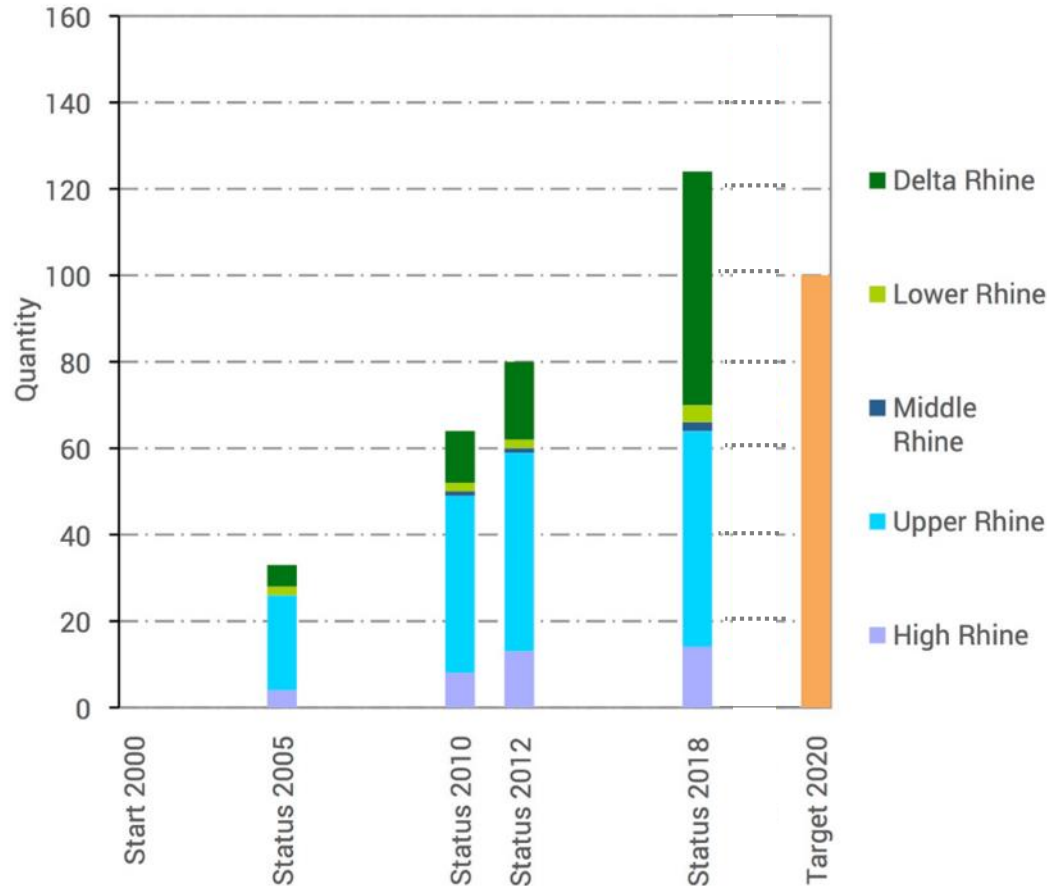


Restore **another 200 km²** of floodplains by 2040

Success & objectives



Re-connection of floodplain bodies of water



Reconnect **another 100** oxbow lakes by 2040

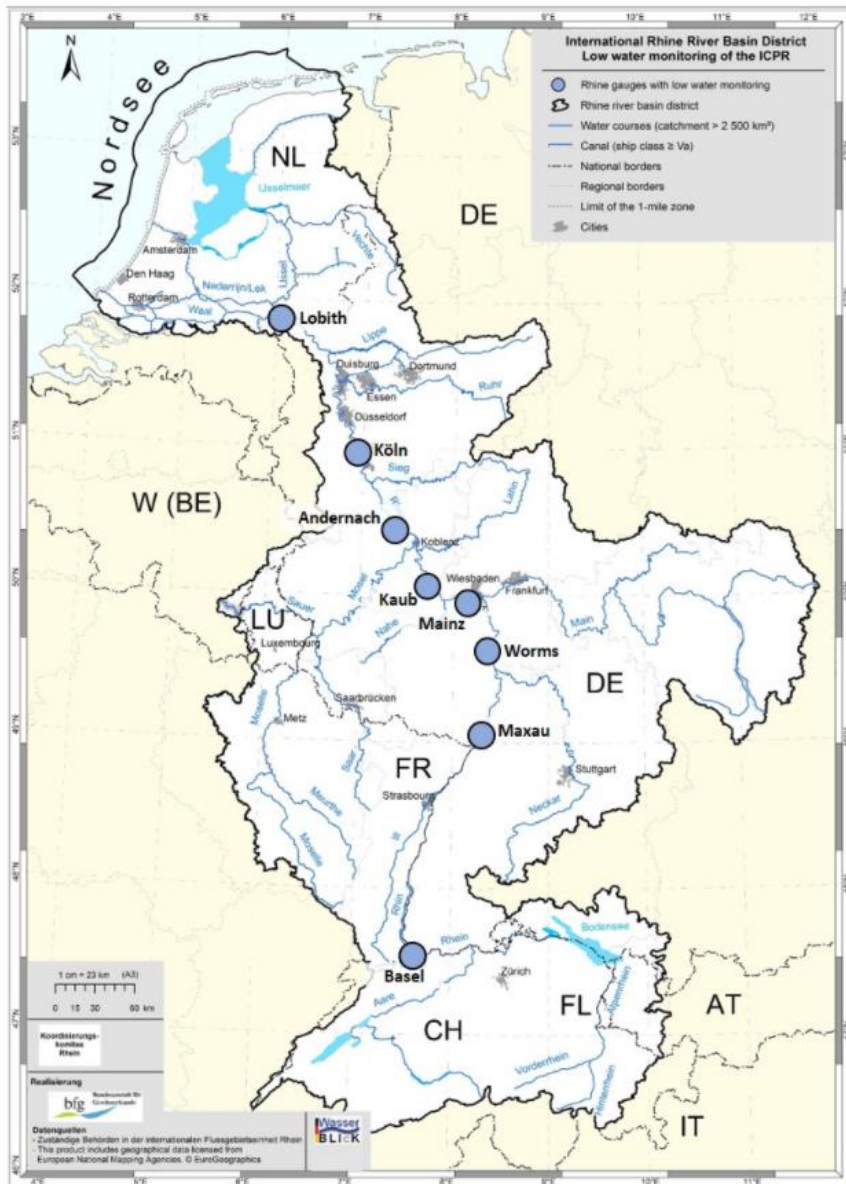
Low water monitoring



Coordinated with **ICPMS** and **IMC**

Colour	Class	Severity	Designation
green	0	$\geq \text{NM7Q(T2)}$	normal = no LW
yellow	1	$< \text{NM7Q(T2)}$	frequent LW
orange	2	$< \text{NM7Q(T5)}$	less frequent LW
red	3	$< \text{NM7Q(T10)}$	rare LW
purple	4	$< \text{NM7Q(T20)}$	very rare LW
black	5	$< \text{NM7Q(T50)}$	extremely rare LW

Low water monitoring



**European
Drought
Observatory**

<https://edo.jrc.ec.europa.eu>

www.iksr.org/en/topics/low-water/low-water-monitoring

“Rhine 2040” – a new programme for new challenges



Objectives and measures:

- Climate change adaptation
- Biodiversity
- Water quality
- Flood risk management
- Low water management



International Commission for the Protection of the Rhine
Commission Internationale pour la Protection du Rhin
Internationale Commissie ter Bescherming van de Rijn

"RHINE 2040"

Programme

**The Rhine and its Catchment:
Sustainably Managed and Climate-resilient**

16th Rhine Ministerial Conference

February 13, 2020, Amsterdam

Rhine 2040

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[www.iksr.org/en/icpr/
rhine-2040](http://www.iksr.org/en/icpr/rhine-2040)

Thanks for your attention!



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