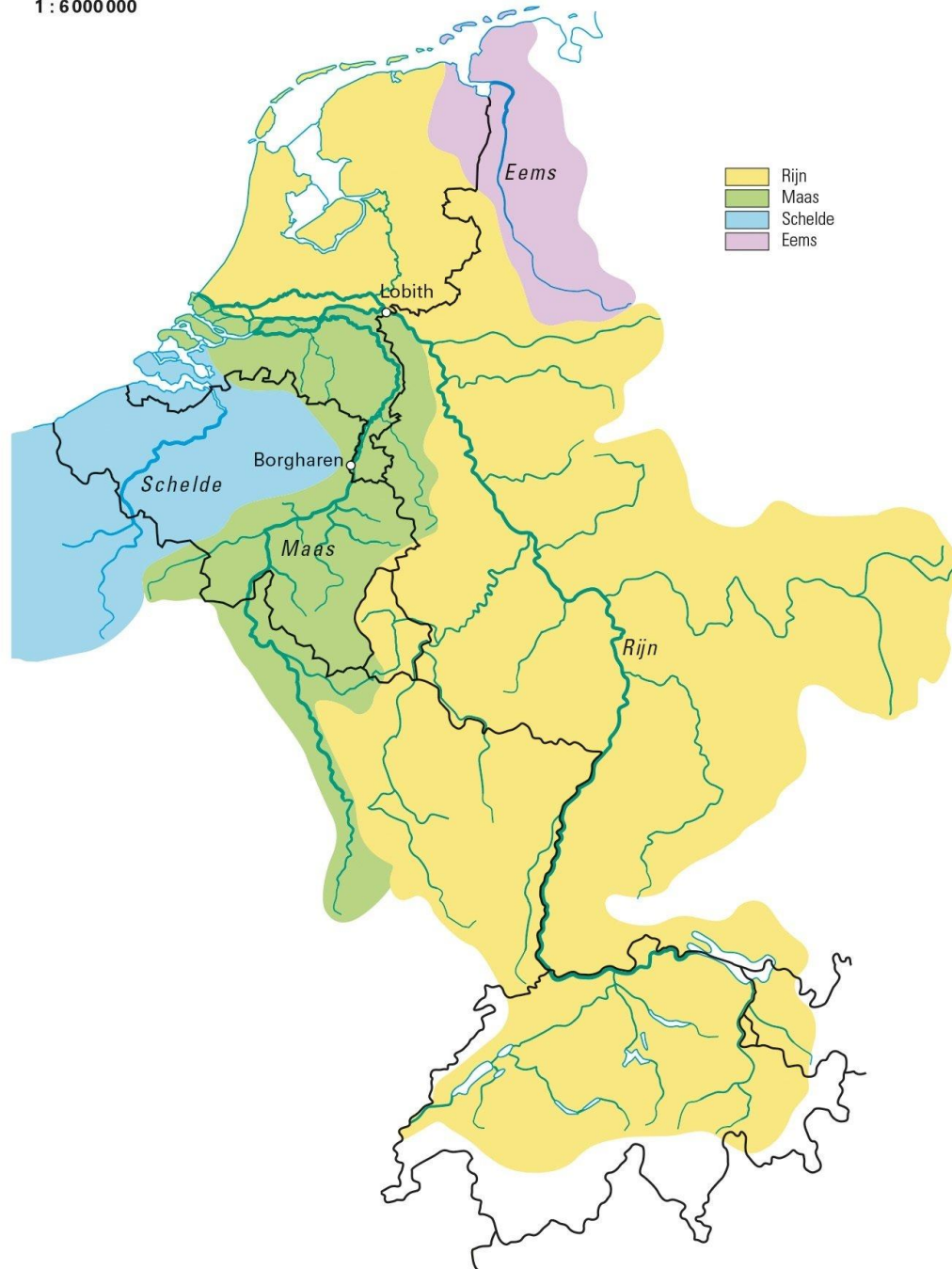




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# Room for the River 2.0 programme in the Netherlands

Erik Meis



# The Netherlands

- > 40 000 km<sup>2</sup>
- > 17 million inhabitants
- > Delta of 4 fluvial systems
- > 13500km of flood defenses & 6 major storm surge barriers

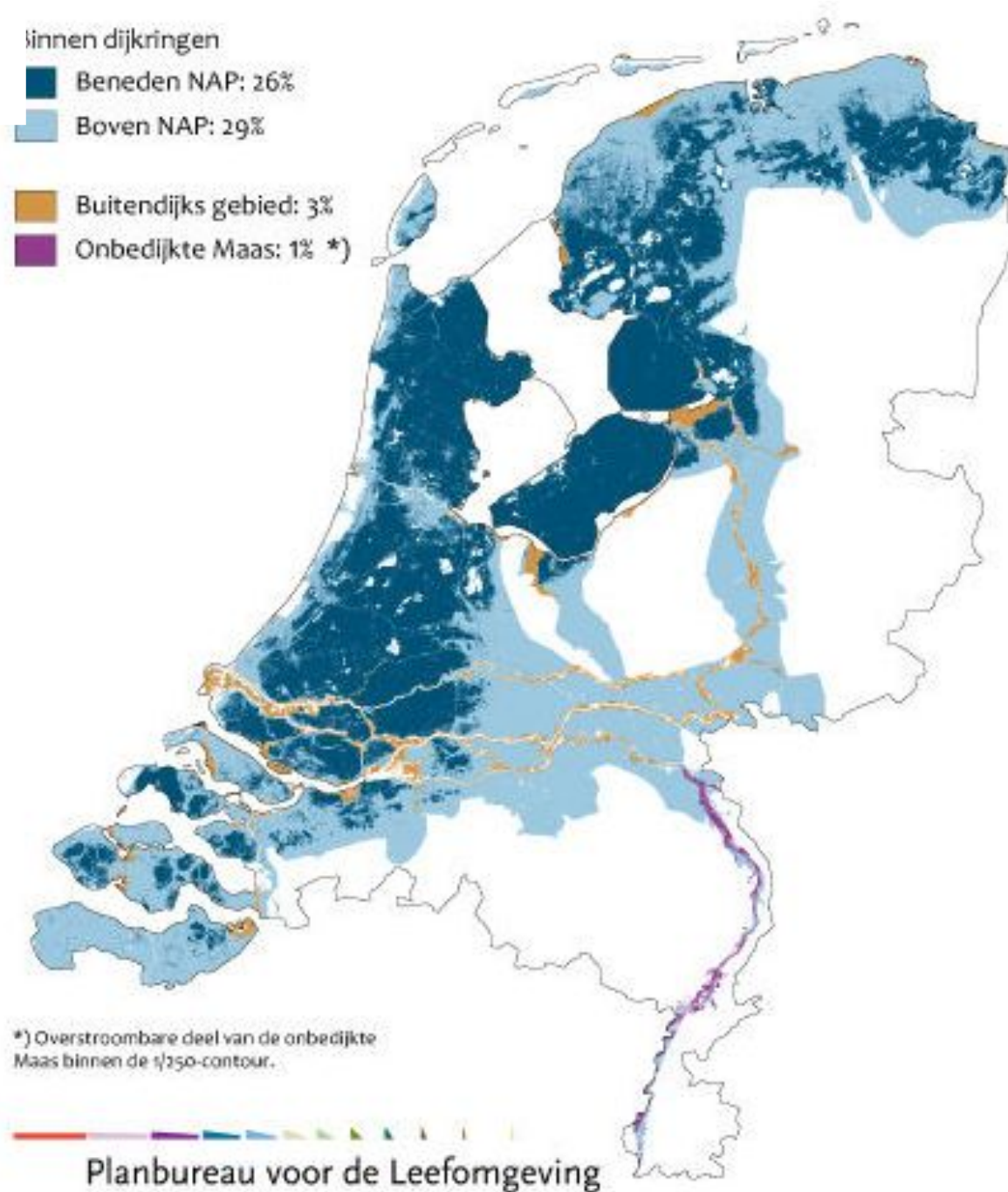


# Floodable area

- > 26% under sea level
- > 50-55% floodable

In this area;

- 10 million inhabitants
- 2/3 of the GNP





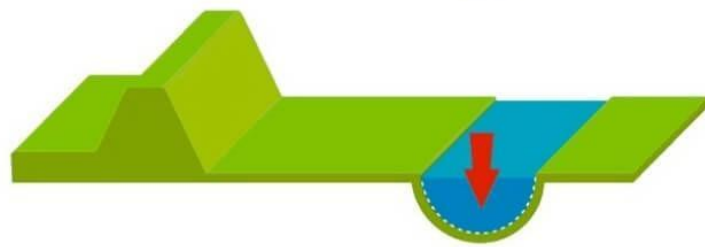
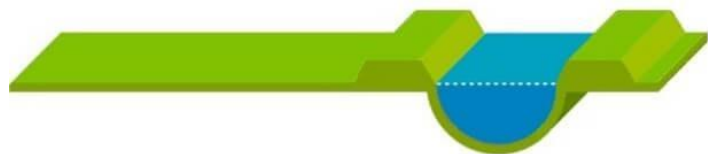
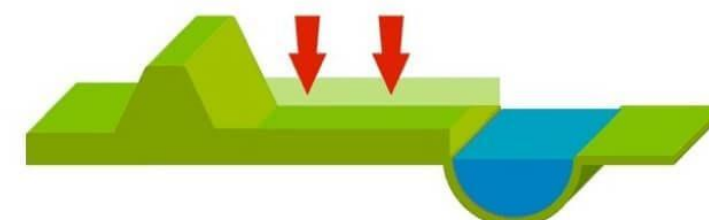
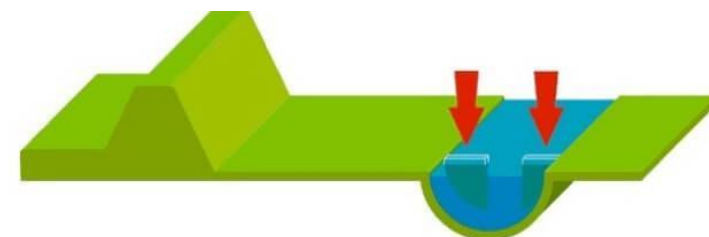
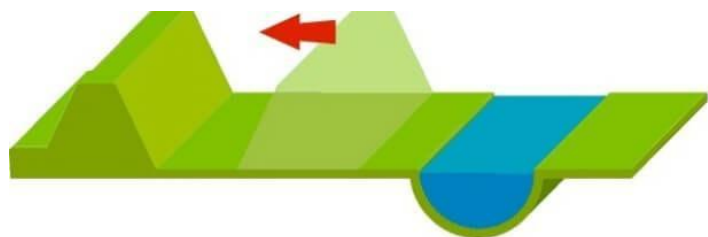
# Room for the River programme

- > Water protection and spatial quality
- > 39 measures between 2000-2019
- > €2.3 bn
- > Reservation of land area for potential measures in the future





# Measures



# Contemporary challenges



High water. Summer 2021

Low water, Summer 2022



# Room for the river 2.0: 5 themes

-  Flood protection
-  Freshwater availability
-  Nature and water quality
-  Navigability
-  Spatial quality and economic activity





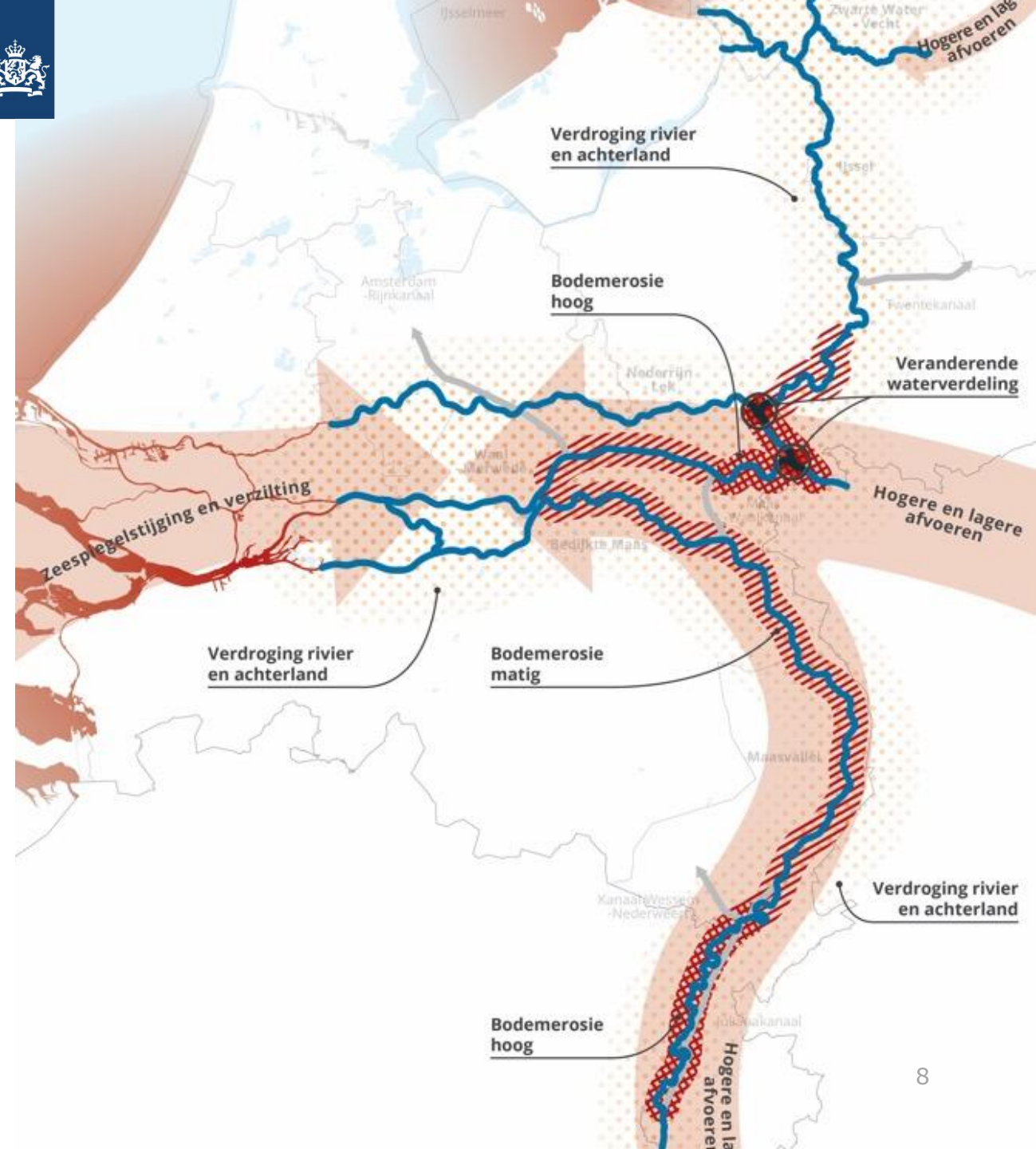
# Room for the River programme 2.0

A future-proof, climate-adaptive river system

Functions for (1) high and (2) low river discharges, (3) navigability, (4) ecology/nature and (5) spatial quality and economic activity

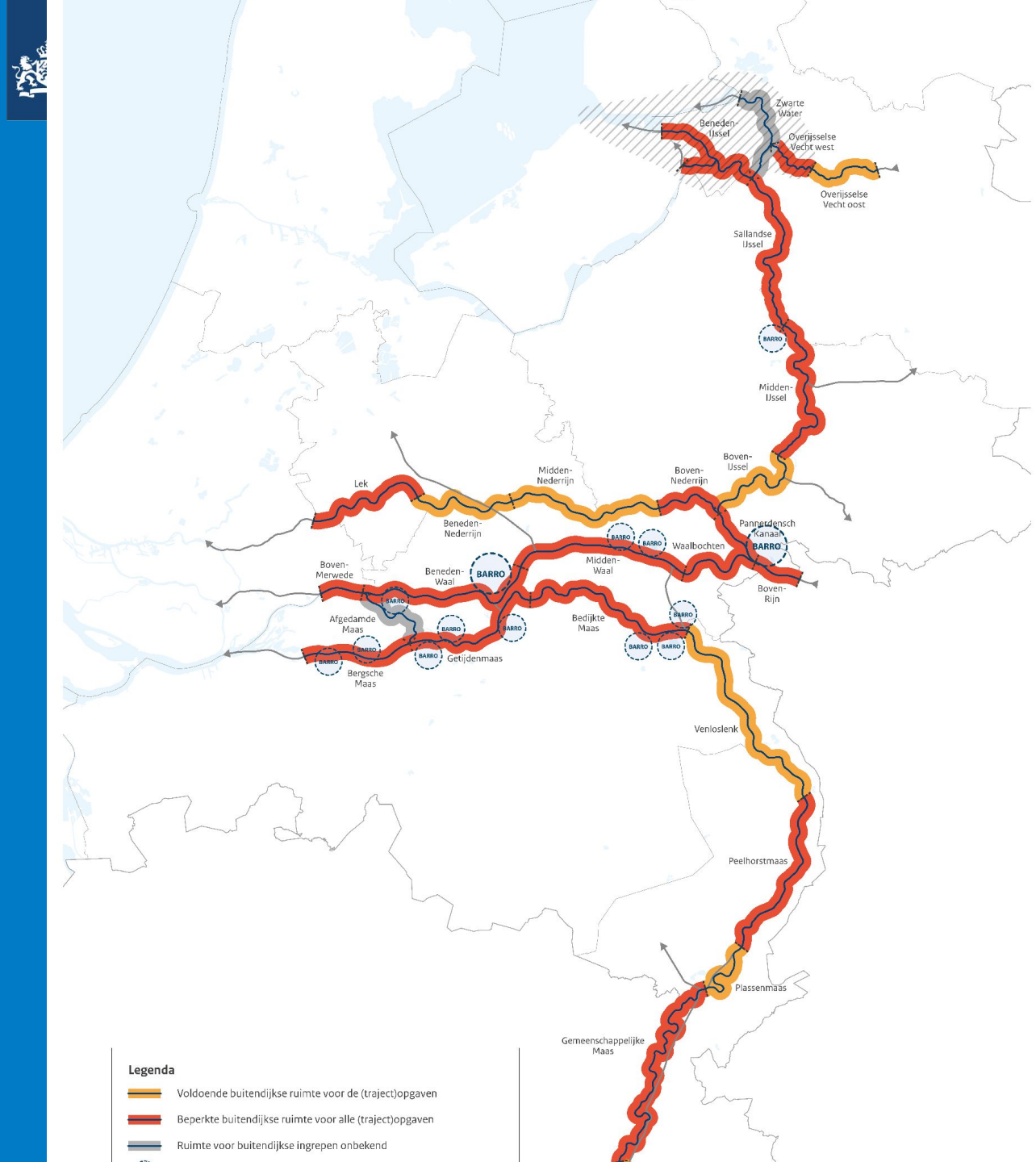
IPCC climate scenario's are "translated" into discharges by KNMI

Focus on riverbed erosion and distorted discharge distribution at bifurcation points



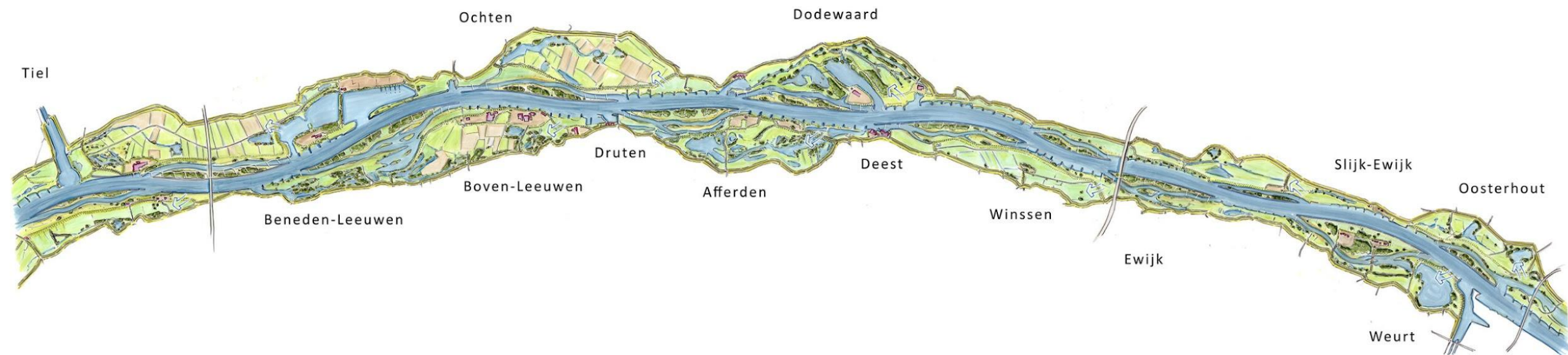
# Required land area RftR2.0

- › Indication of required flood plains for RftR2.0
- › Bkl reserved areas were reserved after initial programme for potential future measures
- › No capital intensive developments
- › Bgr: “no permits for non-river-related activities”
- › Reservation of land for future dyke improvements





# Inspirational NBS idea for RftR2.0: Longitudinal dam combined with natural side channels





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Thank you for your attention