

Morphological management

Case study “Middengebied”
Western Scheldt

ir. Stefaan Ides

29/10/2018

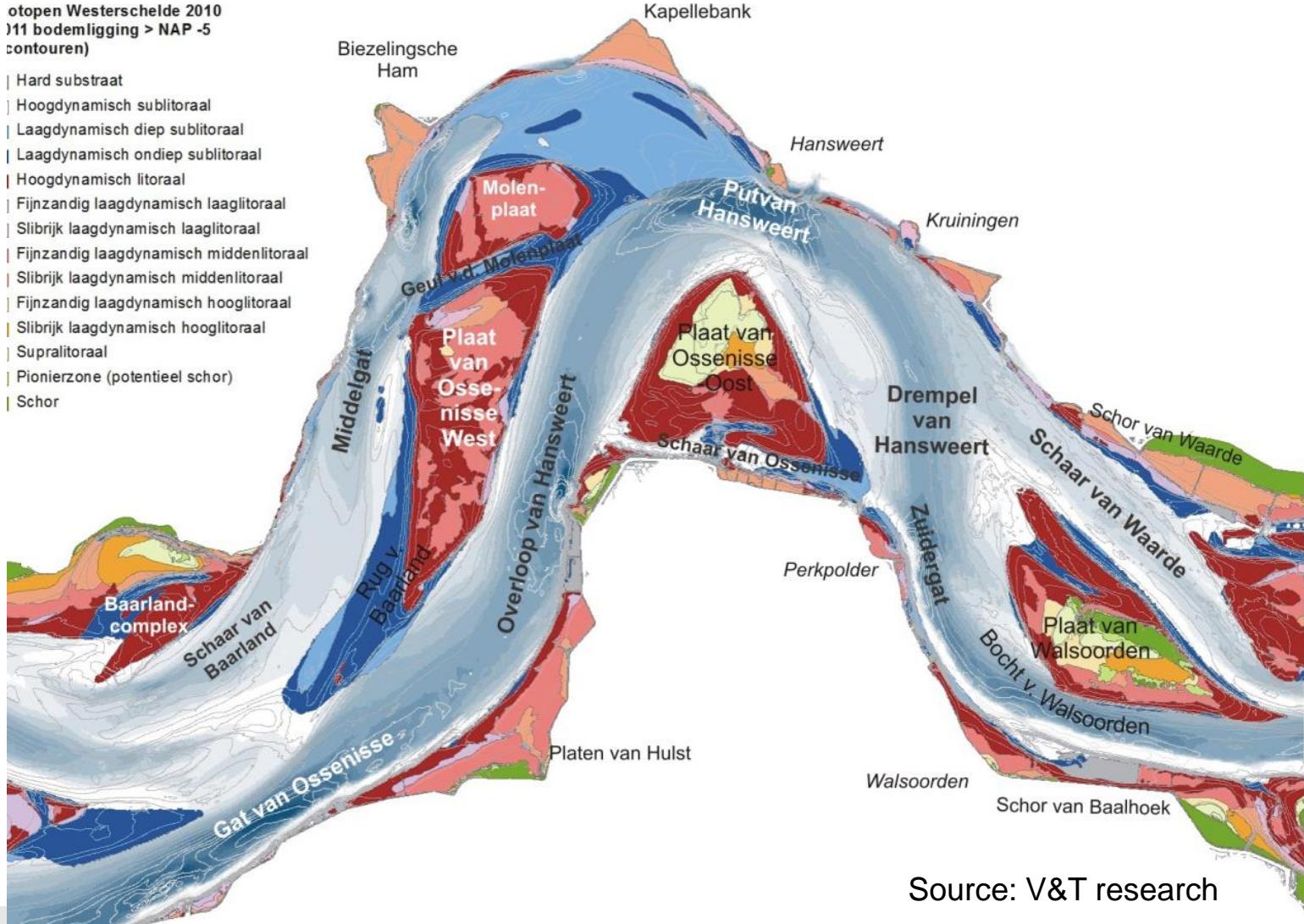


“Middengebied” Western Scheldt



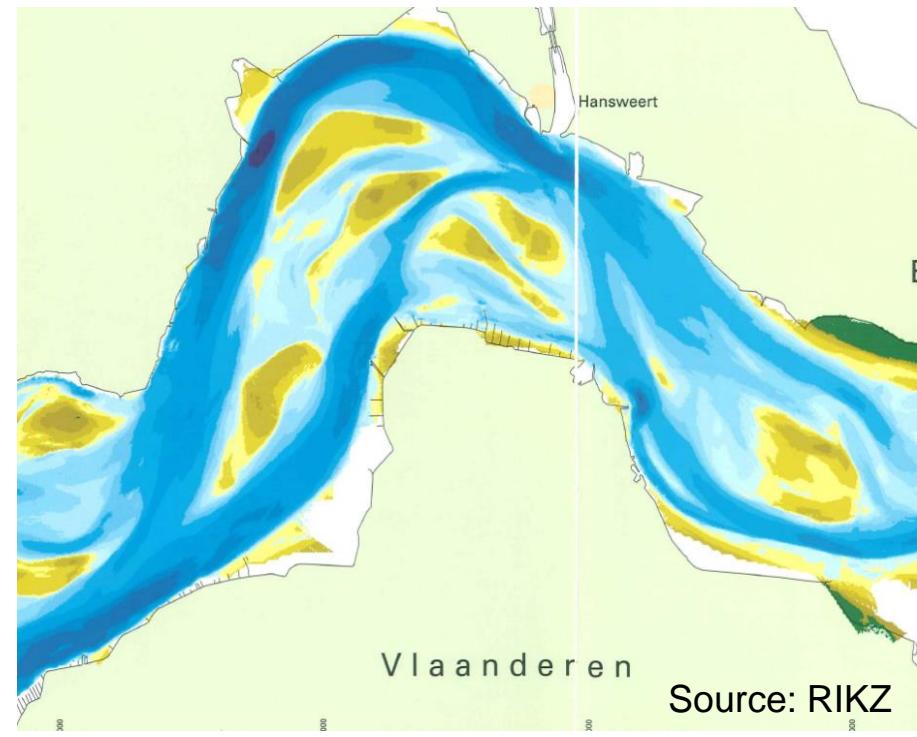
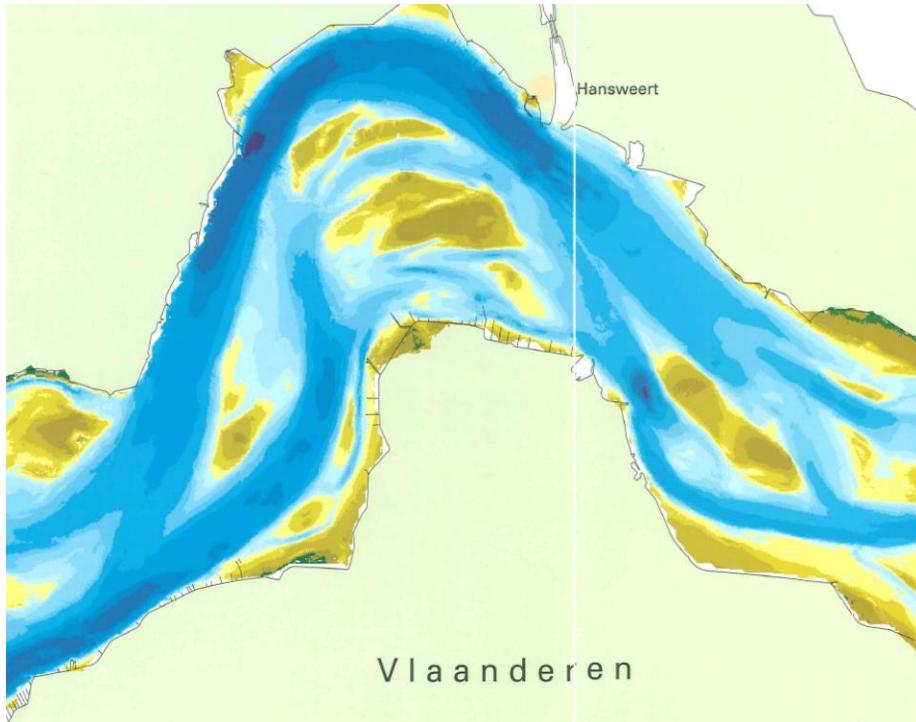
otopen Westerschelde 2010
>11 bodemligging > NAP -5
contouren)

- | Hard substraat
- | Hoogdynamisch sublitoraal
- | Laagdynamisch diep sublitoraal
- | Laagdynamisch ondiep sublitoraal
- | Hoogdynamisch litoraal
- | Fijnzandig laagdynamisch laaglitoraal
- | Slibrijk laagdynamisch laaglitoraal
- | Fijnzandig laagdynamisch middenlitoraal
- | Slibrijk laagdynamisch middenlitoraal
- | Fijnzandig laagdynamisch hooglitoraal
- | Slibrijk laagdynamisch hooglitoraal
- | Supralitoraal
- | Pionierzone (potentieel schor)
- | Schor



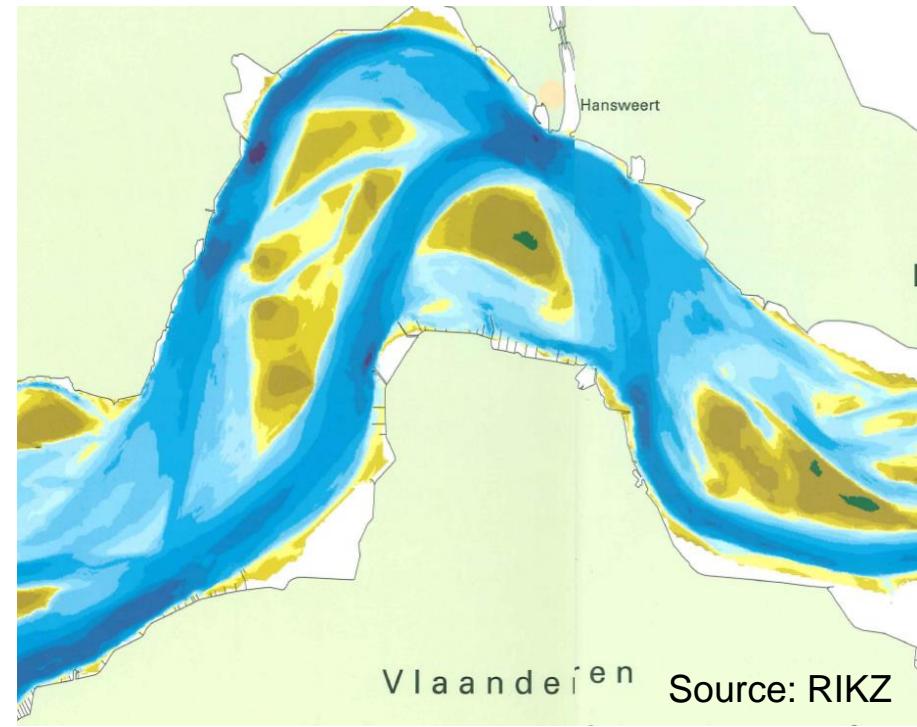
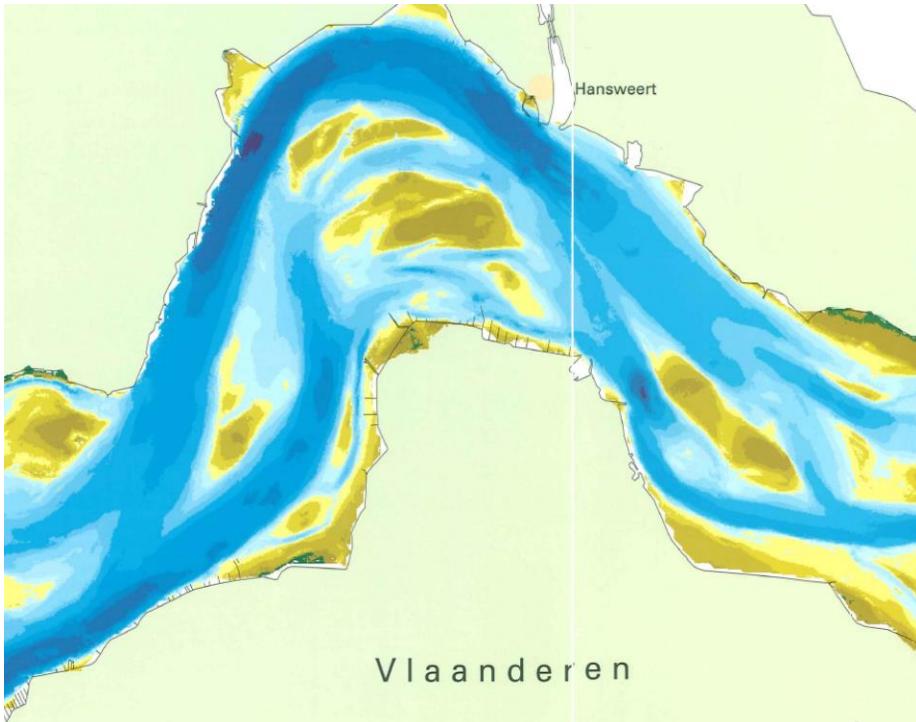
Source: V&T research

Historical evolution: 1931- 1955



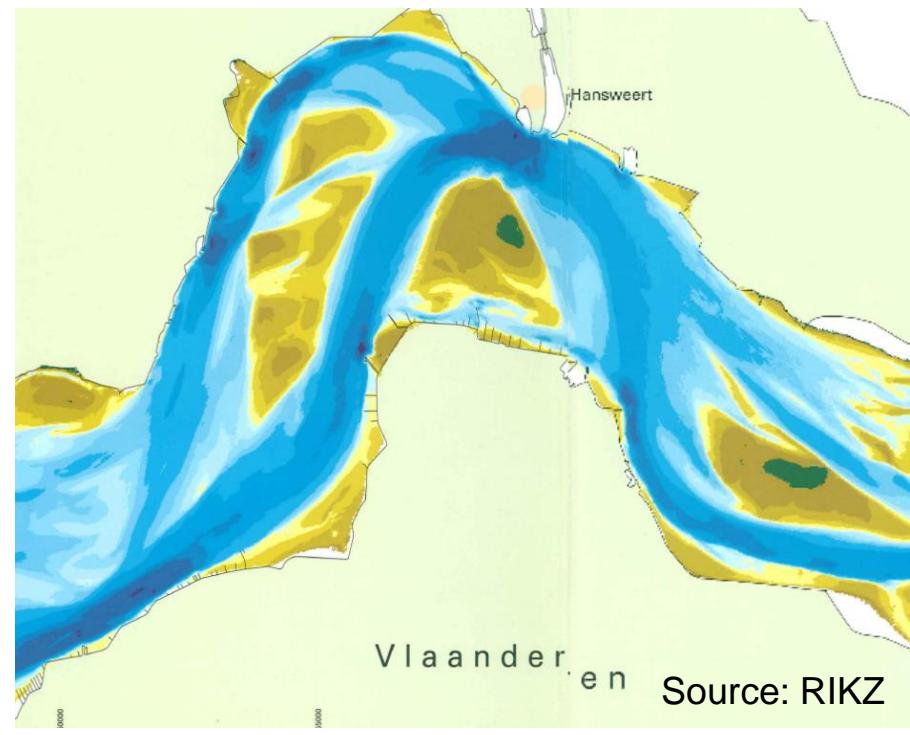
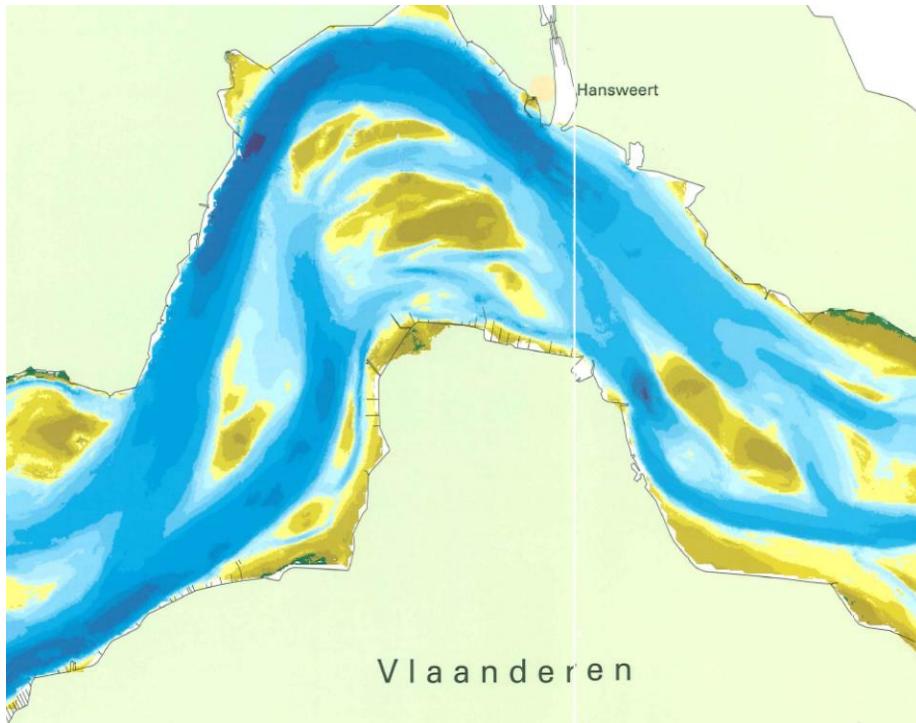
Source: RIKZ

Historical evolution: 1931- 1985



Vlaanderen Source: RIKZ

Historical evolution: 1931- 2000

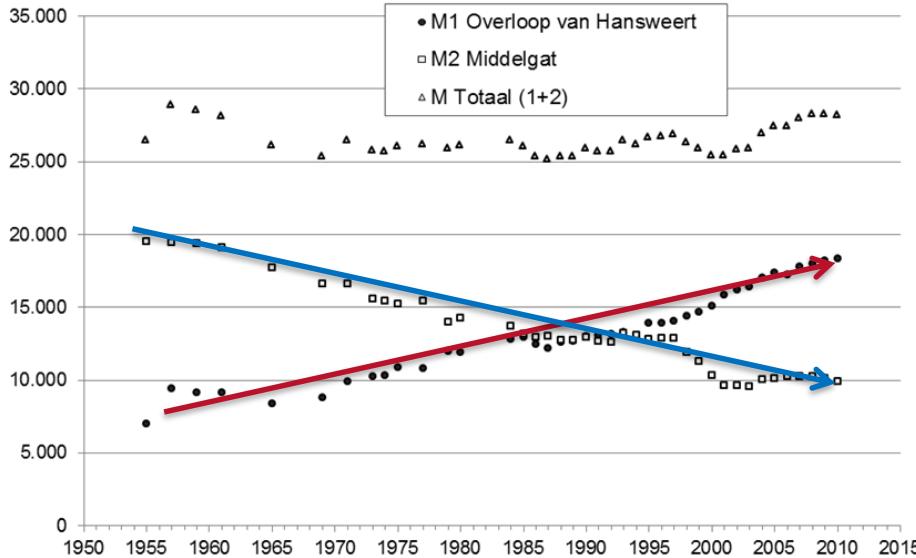


Source: RIKZ

Channel cross section & discharge



Area channel under LW

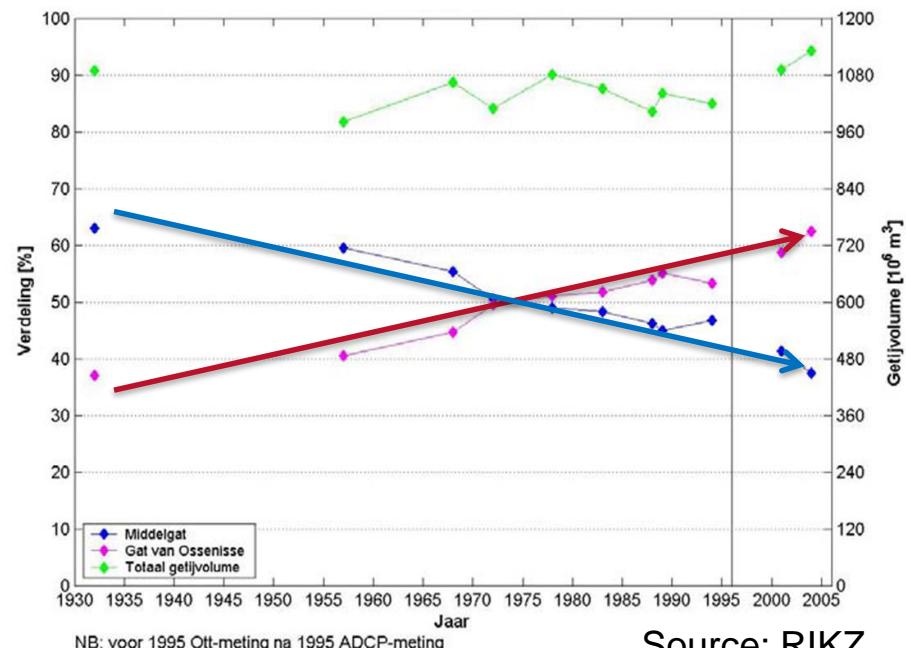


Source: V&T research

Middelgat (ebb channel)

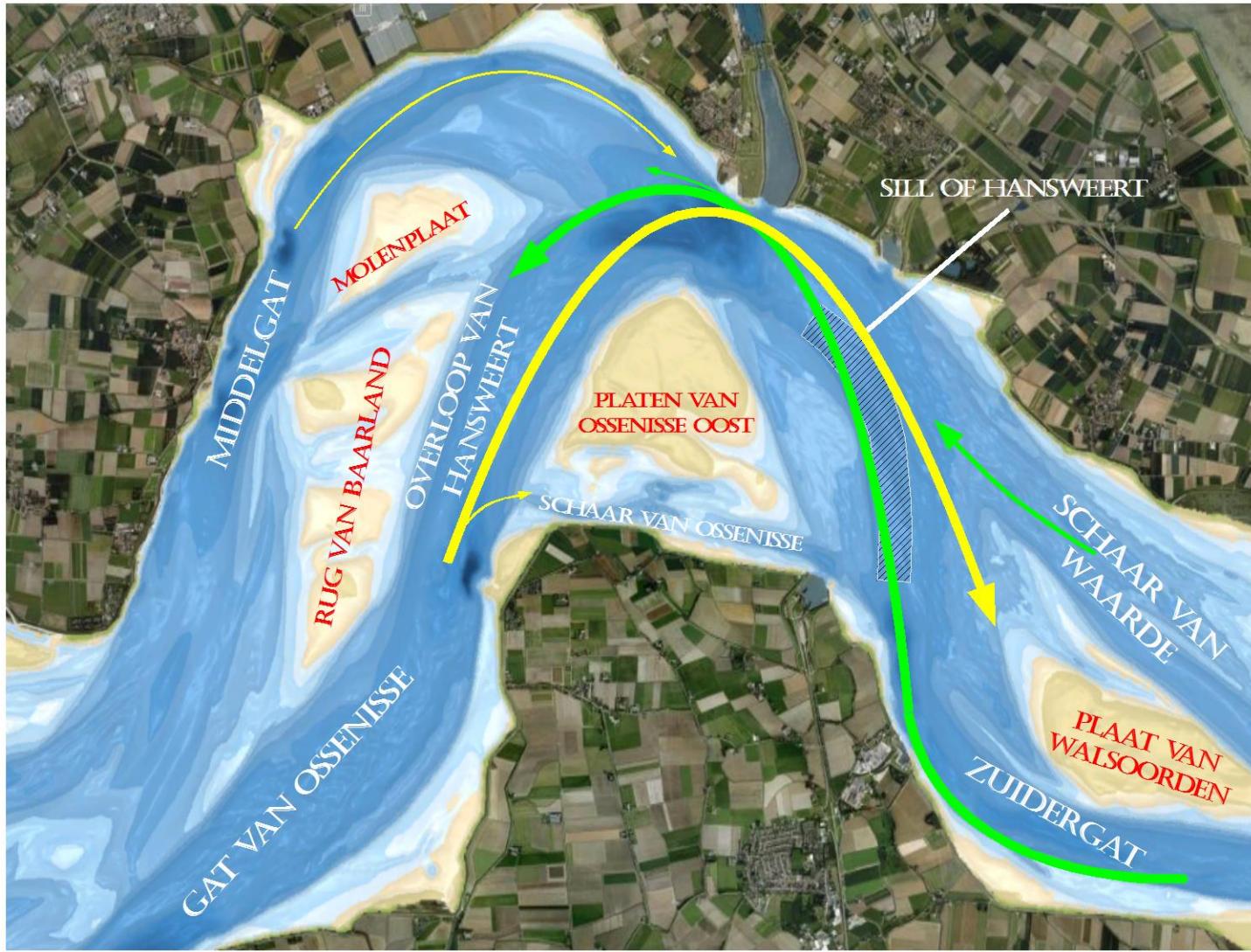
Overloop van Hansweert (flood channel)

Discharge through channel

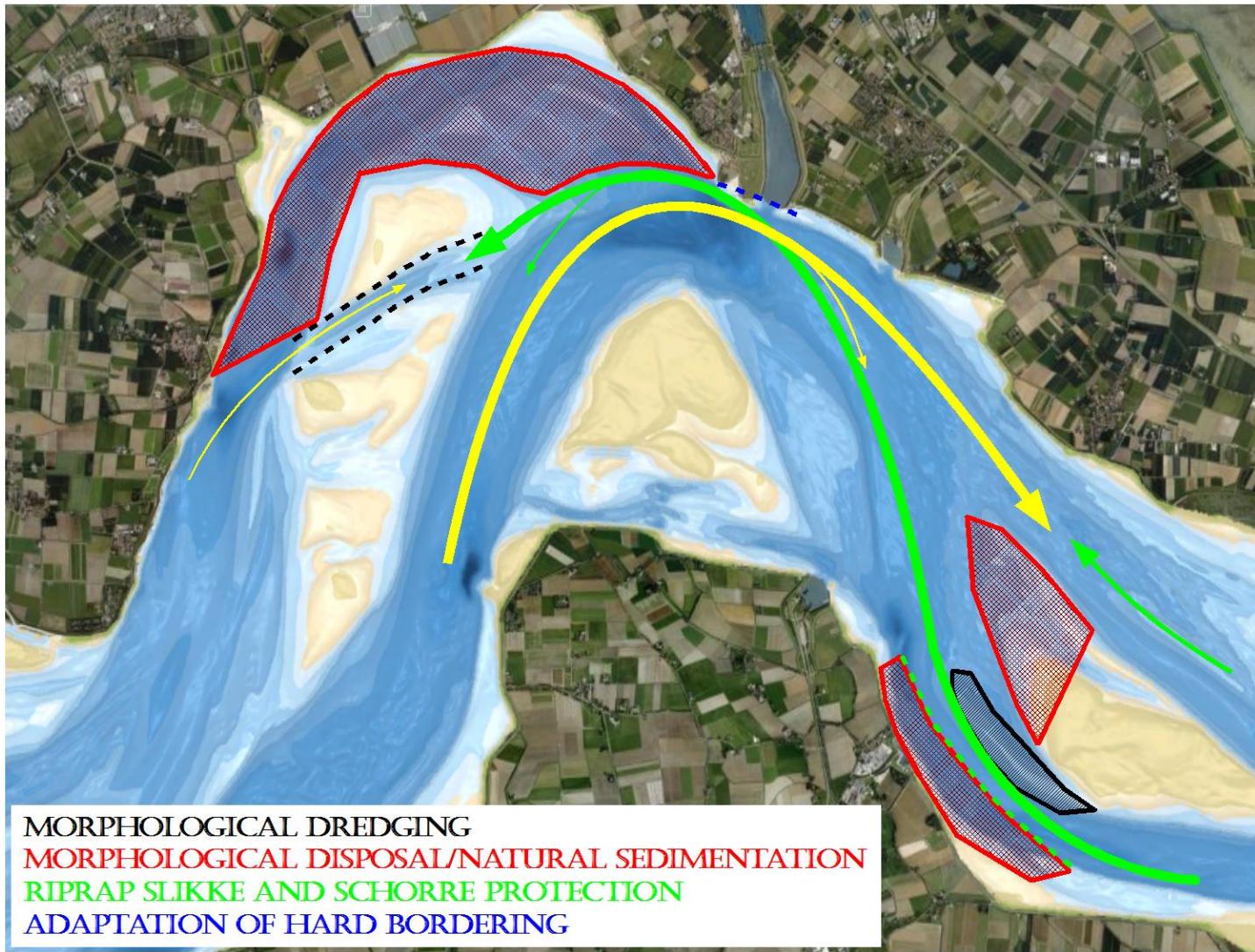


Source: RIKZ

Analysis current situation



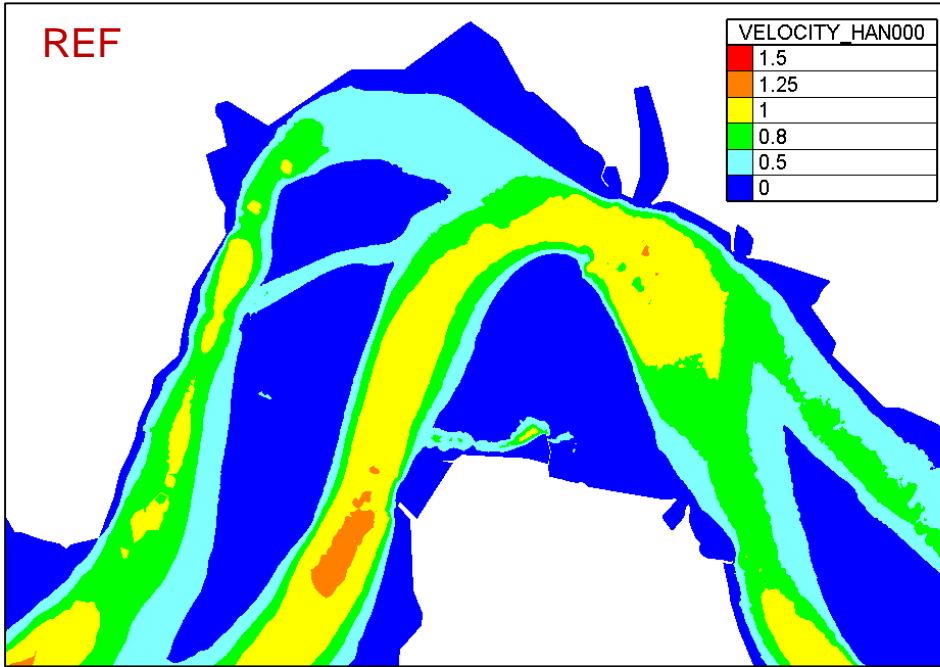
Potential scenario morphological management



Numerical exploration

Maximum ebb current (m/s):

REF



Scen3

