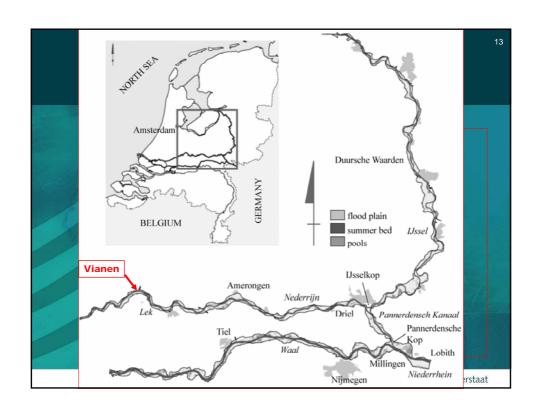




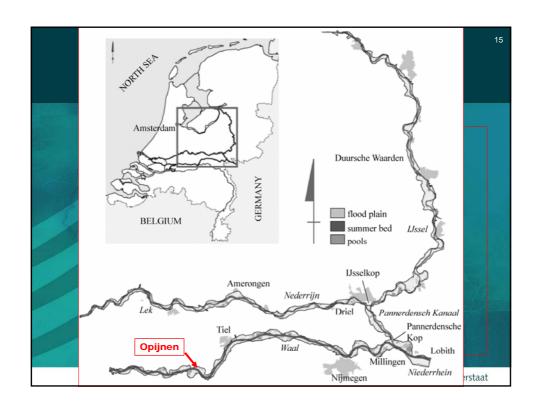


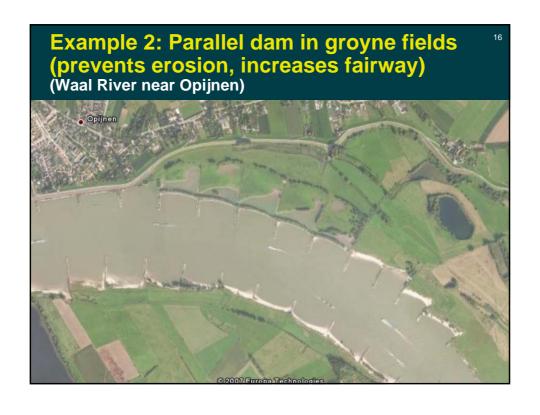
WFD: not necessarily negative for Navigation 1 (Remarks, conditions) Navigation is an accepted and favourite mode of transport (NL) • The WFD attention should be focused on flood plains and bank area (groyne fields), NOT THE LOW WATER BED Ecological changes must be accepted (erosion, sedimentation, cyclic rejuvenation) Dutch experience shows that rehabilitation and restoration schemes can be succesfull Conditions for succes: money, research, adequate river management, tailor made approaches WFD may structure and integrate the many different initiatives Rijkswaterstaat



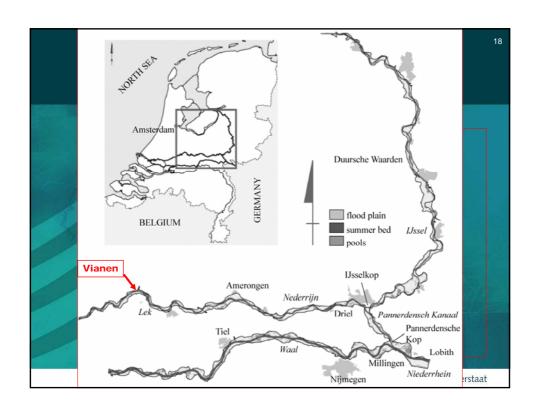








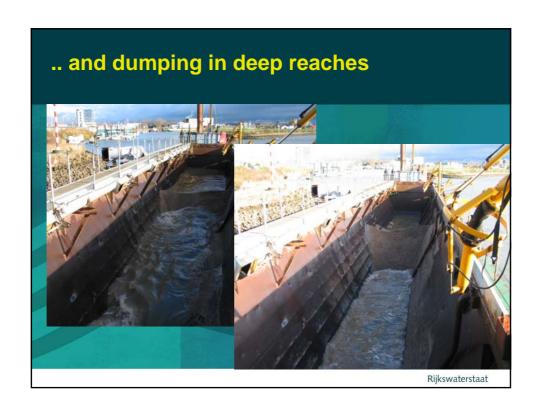








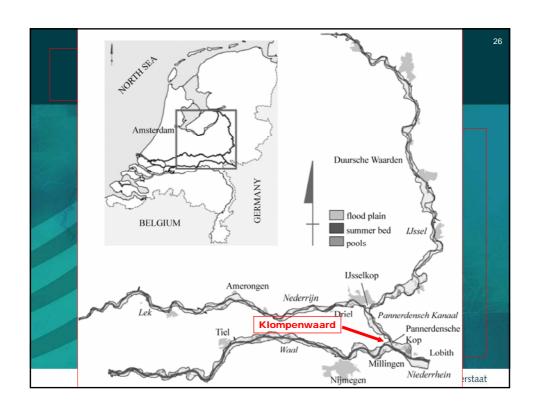


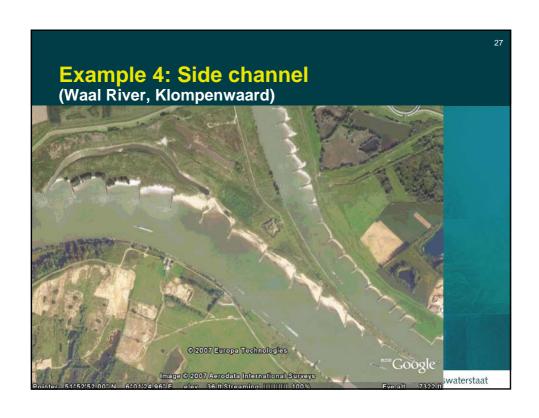


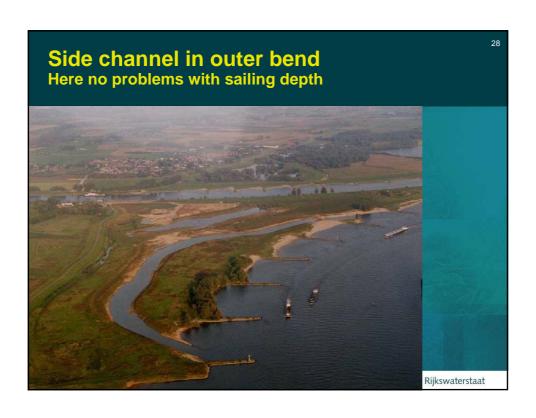




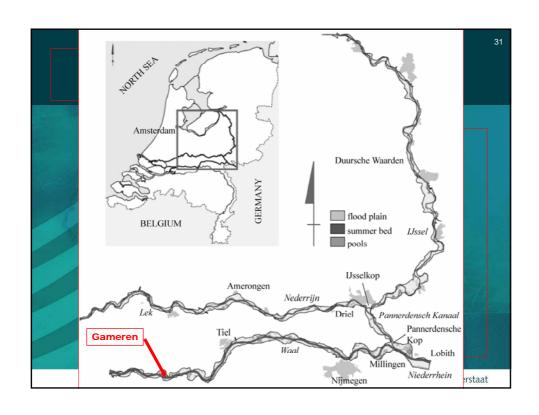
Result: After suppletion functions are (temporarily) recovered Rijkswaterstaat





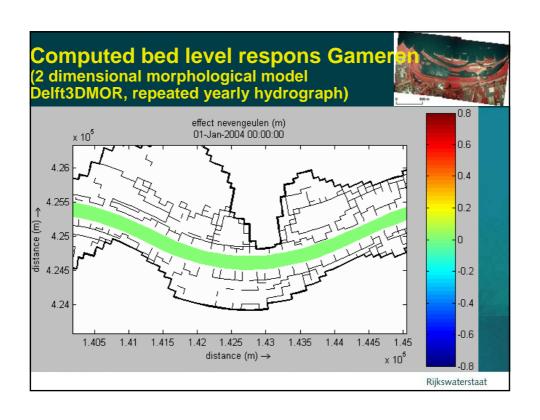


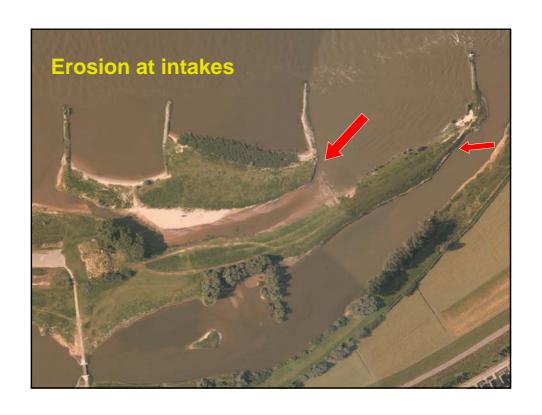
Problems -> Intensive discussions • Re-introduction of the ice danger ? • How to cope with free banks, vegetation • Who pays the bill for mitigating measures: • Dredging • Local normalisations • Different administrations for flood plain management and fairway management

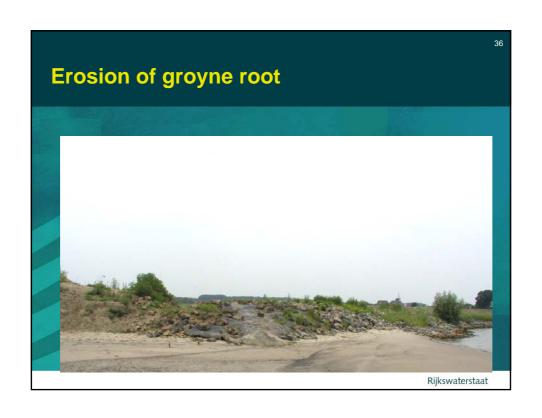












Third phase in dealing with side channels: limiting uncertainties Applying a Dynamic River

Management System:

- Quick-scan monitoring systems Adequate Data storage and presention (GIS)
- Impact assesment/design of measures using 2-D hydraulic and morphological models
- Quick implementation of correcting measures
- Change in river administration methods
- Introduction of the WFD will underline the use of such a system

Rijkswaterstaat

Conclusions w.r.t. the WFD and Navigation

- Dealing with the WFD objectives are not new (NL)
- The position of Inland Water Transport is no issue (NL)
- WFD objectives cannot be met in navigation channels
- If ecological changes (e.g. cyclic rejuvenation) are accepted, the WFD may lead to more optimal solutions favouring navigation as well
- Conditions for succes: money, research, adequate river management, tailor made approaches

Rijkswaterstaat

