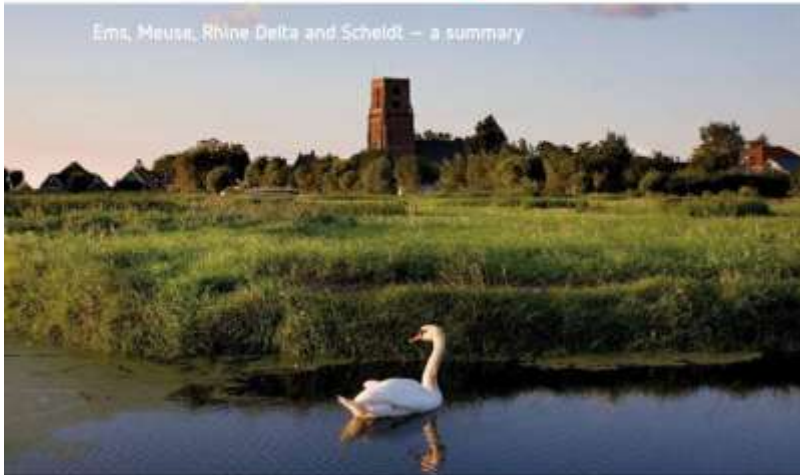




2009 - 2015

River basin management plans

Ems, Meuse, Rhine Delta and Scheldt – a summary



Water quality reporting in international river basins

same water (data) in several flavors

Willem Faber

RWS Centre for Watermanagement



Improving water quality under the Water Framework Directive

- Working together with different ministries, 25 waterboards, 11 provinces in the Netherlands
- New national cooperation
- Working together with all the countries within the 4 international river basins: new impulse
- Finally WFD reporting to the EC in march 2010
- Sharing information is a must



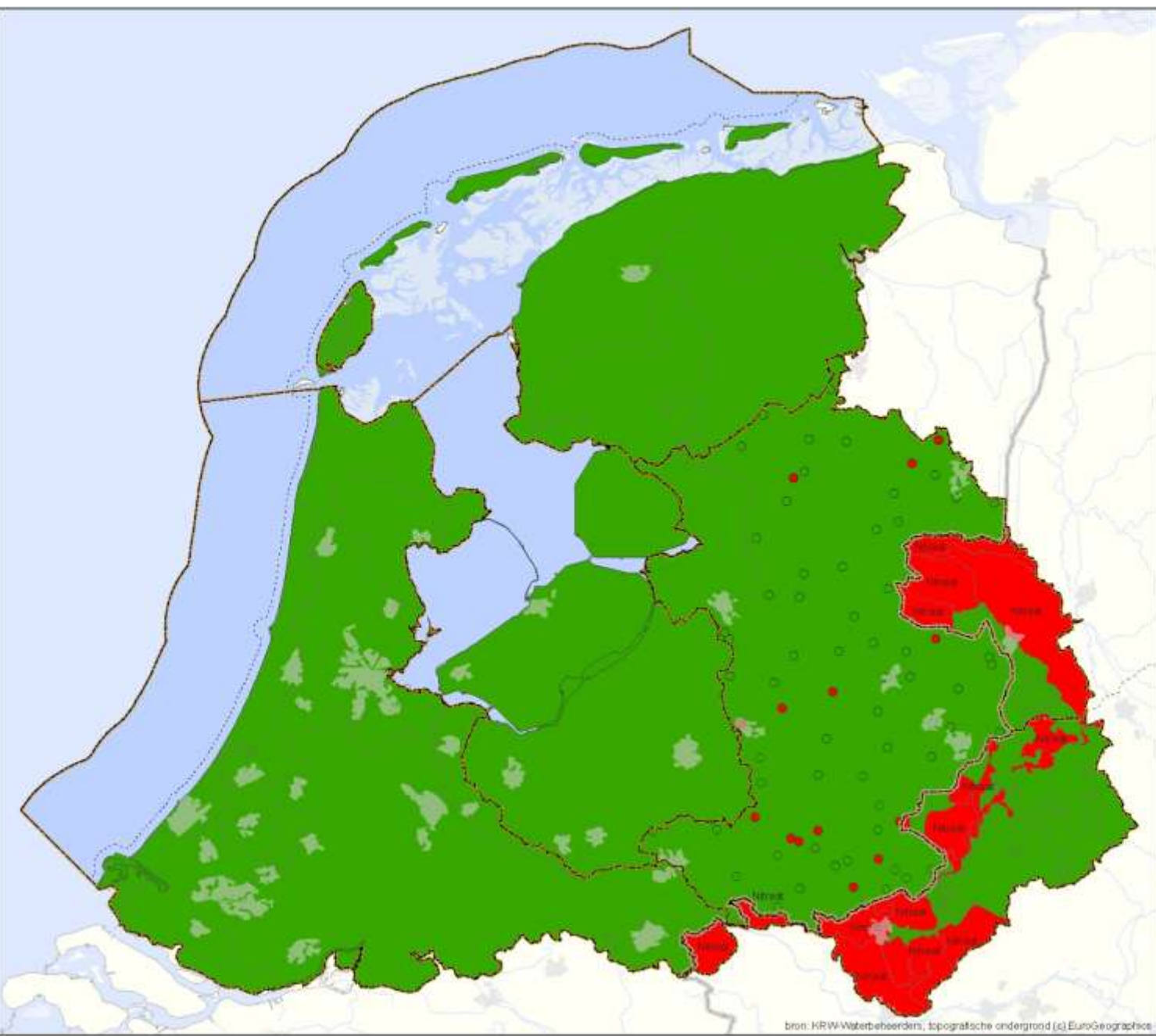


Examples in a international riverbasin

- Barriers for fish migration down stream
- Loads of chemical substances, nutrients up stream
- Assessment of the status of waterbodies both sides of the border

- Chemical status groundwaterbodies Rhine
 - Different approach Netherlands and Germany
 - Size groundwaterbodies
 - Depth groundwaterbodies, upper grondwater
 - Assessment chemical status
 - Resulting in a “special” map

Kaart 16a.
KRW monitoring
resultaten
Grondwaterlichamen
Nitraat



Legenda

Oordeel

- goed
- ontoereikend
- diep, goed
- diep, ontoereikend

Beoordeling nitraat nulmeting (2006)

- < 11,2 mg/l N
- > 11,2 mg/l N

Achtergrond

- bebouwing
- water
- stroomgebied
- grens 1-mijlszone
- grens rijk

Schaal (A3) 1 : 875 000

RWS MD (M05)
Refr: RWSM/E20090050
Datum: 14-12-2009

bron: KRW-Waterbeheerders, topografische ondergrond (c) EuroGeographics



Challenge of sharing information

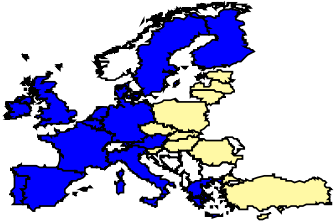
- Wide range of information need: spatial data, monitoring/status data, new data-items: ecological objectives, programme of measures, arguments for exceptions or extension
- Comparable data
- Harmonized data
- Approaching the end of the plan process information exchange becomes intensive, new information has to be adopted in national and international plans all before the same deadline

Complex dataflows



- Source data at different organisations
 - Water authorities : waterboards, RWS, Provinces for waterbodies, monitoring, goals, measures
 - Ministries and Institutes: emissions data, protected areas, groundwater data
- Data exchange and reporting within the 4 international riverbasins
- Finally electronic reporting to EC per country in WISE

First essential condition: standardization and making agreements



In an ideal situation:

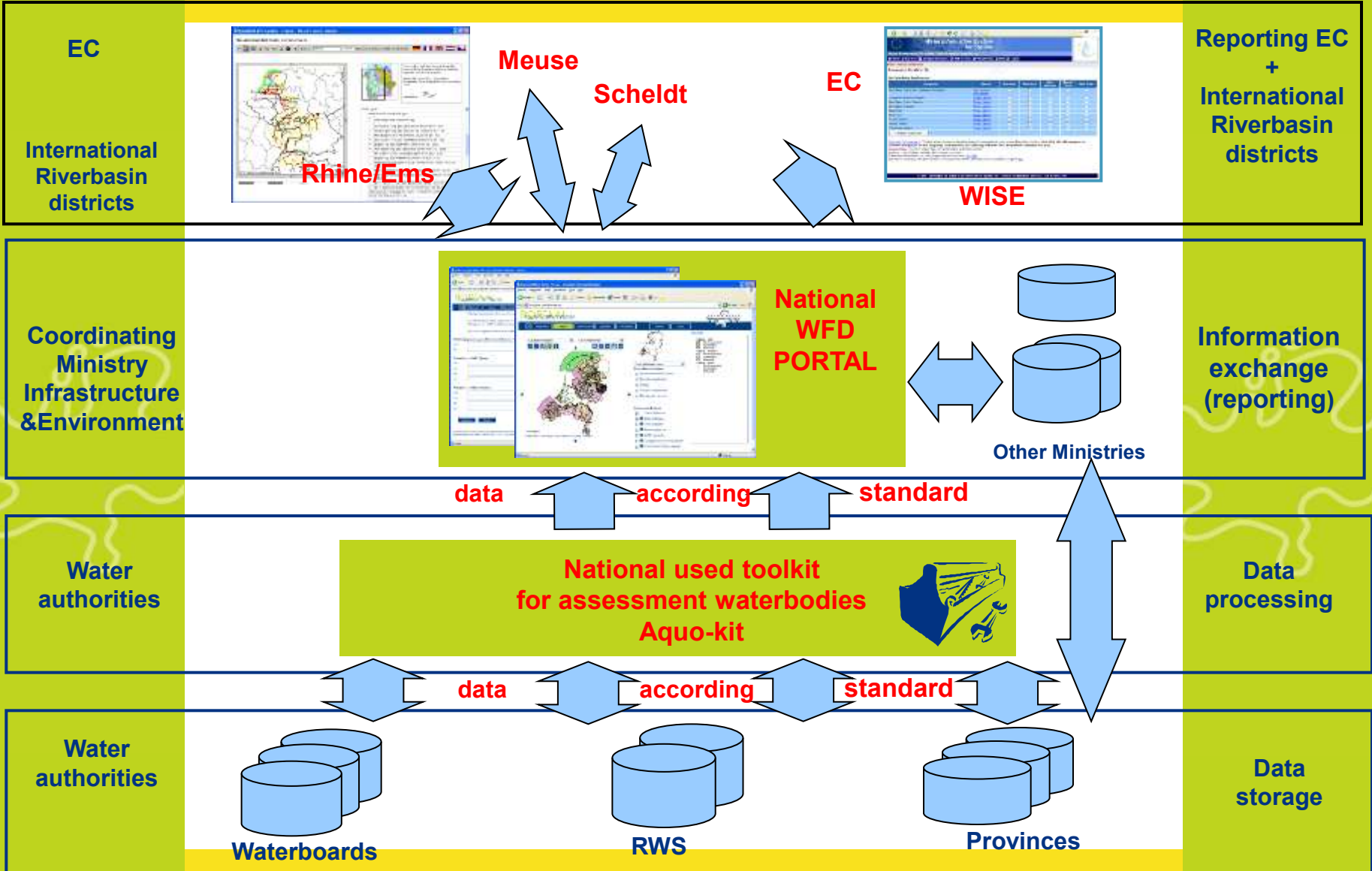
- Starting on high level, European level and work your way down
- Adapting in international river basin districts and if necessary make additions
- Preparing the national information infrastructure to be compliant, extending national standard



Reality for the first River Basin Management Plans

- Pace is different, every process has it's own roadmap depending on the participants
- Guidelines on European level early in the process but global, at the end specific enough for data exchange (xml schema's)
- Not enough basic data infrastructure available
- Ambitions and operation in international river commissions where different, Rhine pro active
- Data exchange within NL: use and extend existing standard, one organisation responsible for international reporting

Information exchange European Water Framework Directive





Conclusion

- International data exchange WFD:
 - same waterdata in several flavors
 - Less efficient and not stimulating sharing information
- Comparable situation with marine data exchange
 - A lot of international working relations
 - Now data-mapping to OSPAR, TMAP, Seadatanet...
 - Reporting for the Marine Directive ahead



Towards 2015 and 2022

- Inspire can help making and reporting the next generation River Basin Management Plans
 - One flavor for European data exchange
 - Easy data access will help making better plans
 - A solid basis infrastructure you can extend

