



Twinning Project

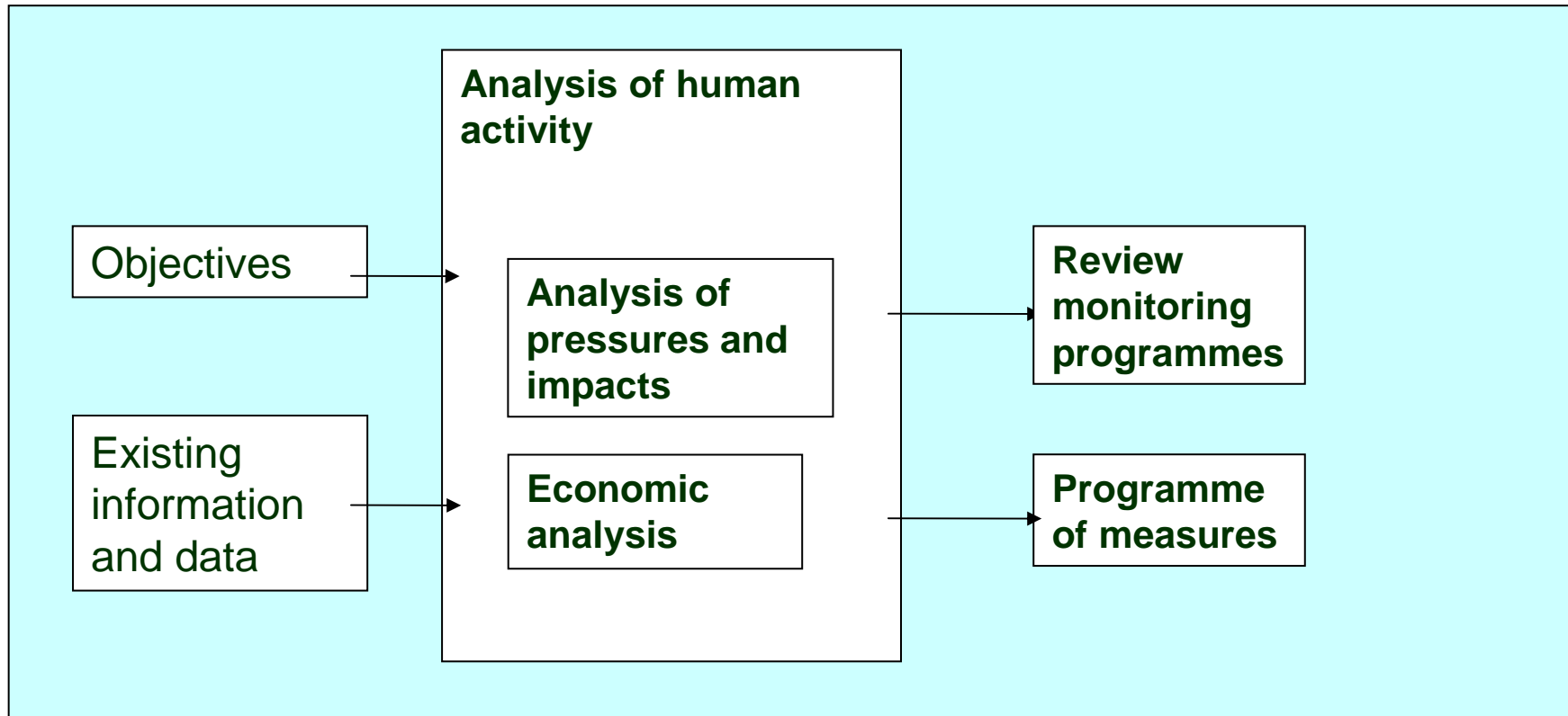
Implementation of the Water
Framework Directive in Croatia

Introduction to the German methodology of pressures and impacts analysis for surface waters

Dietrich Borchardt



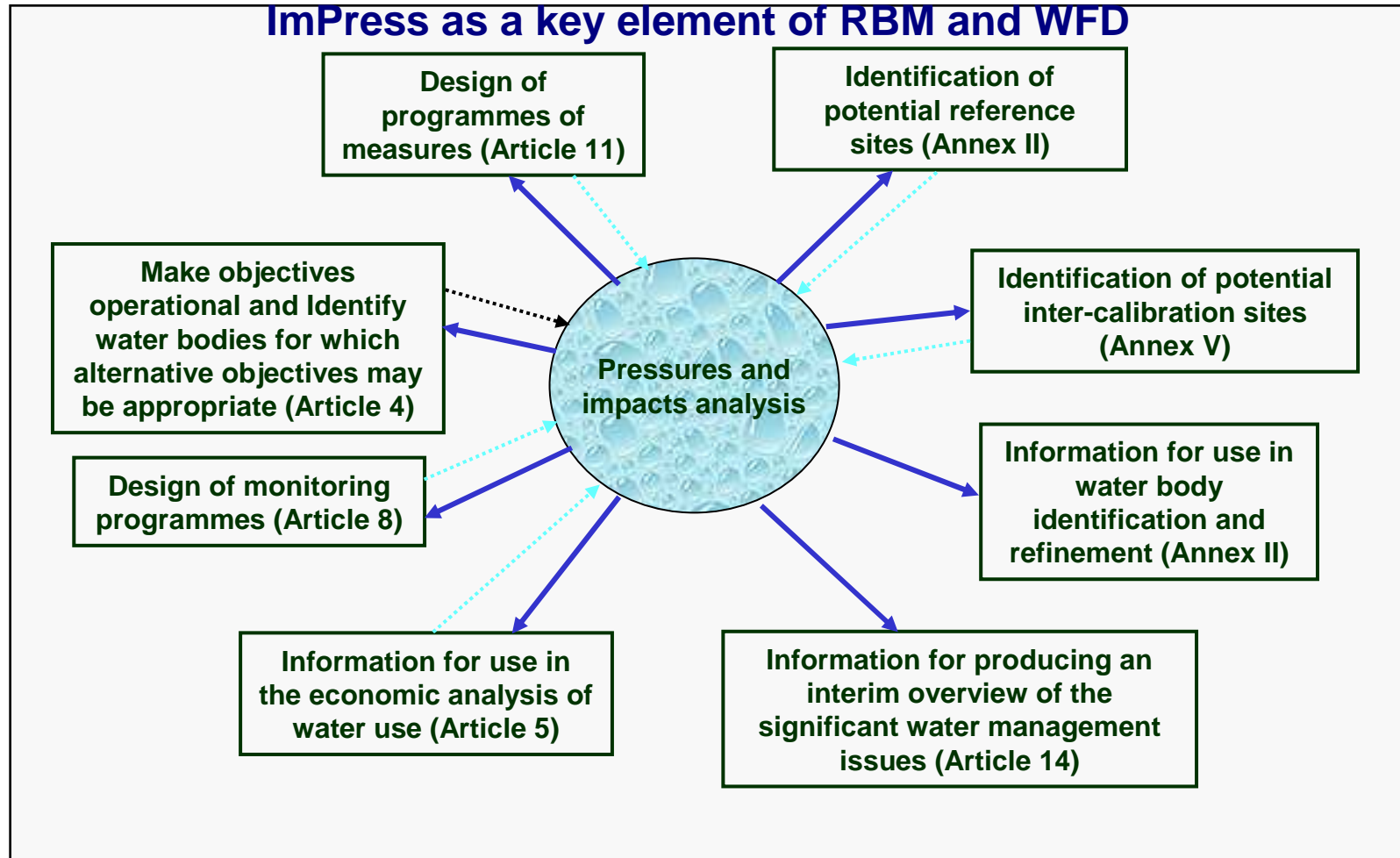
Analysis of pressures and impacts (ImPress)



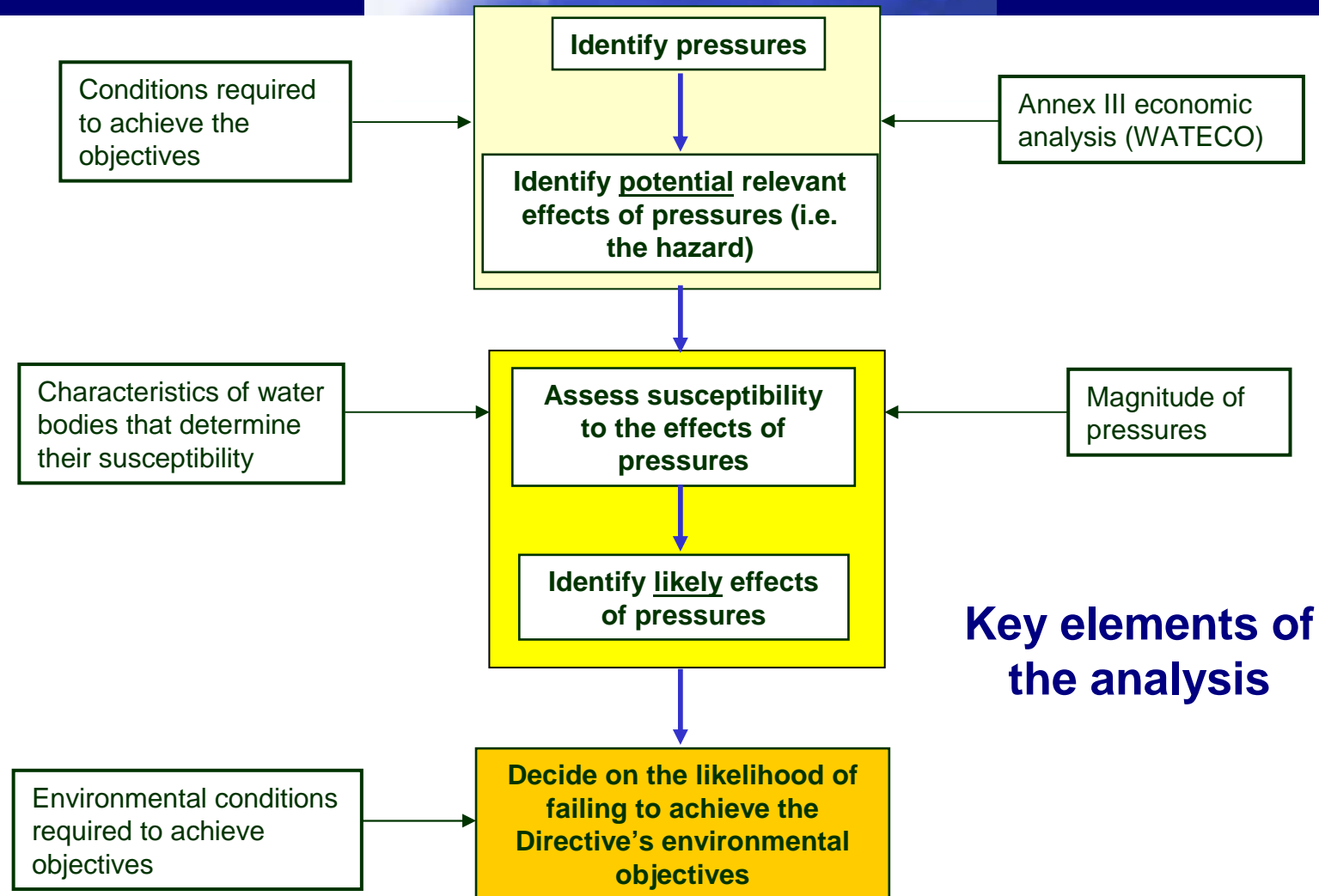
ImPress Guidance, 2003

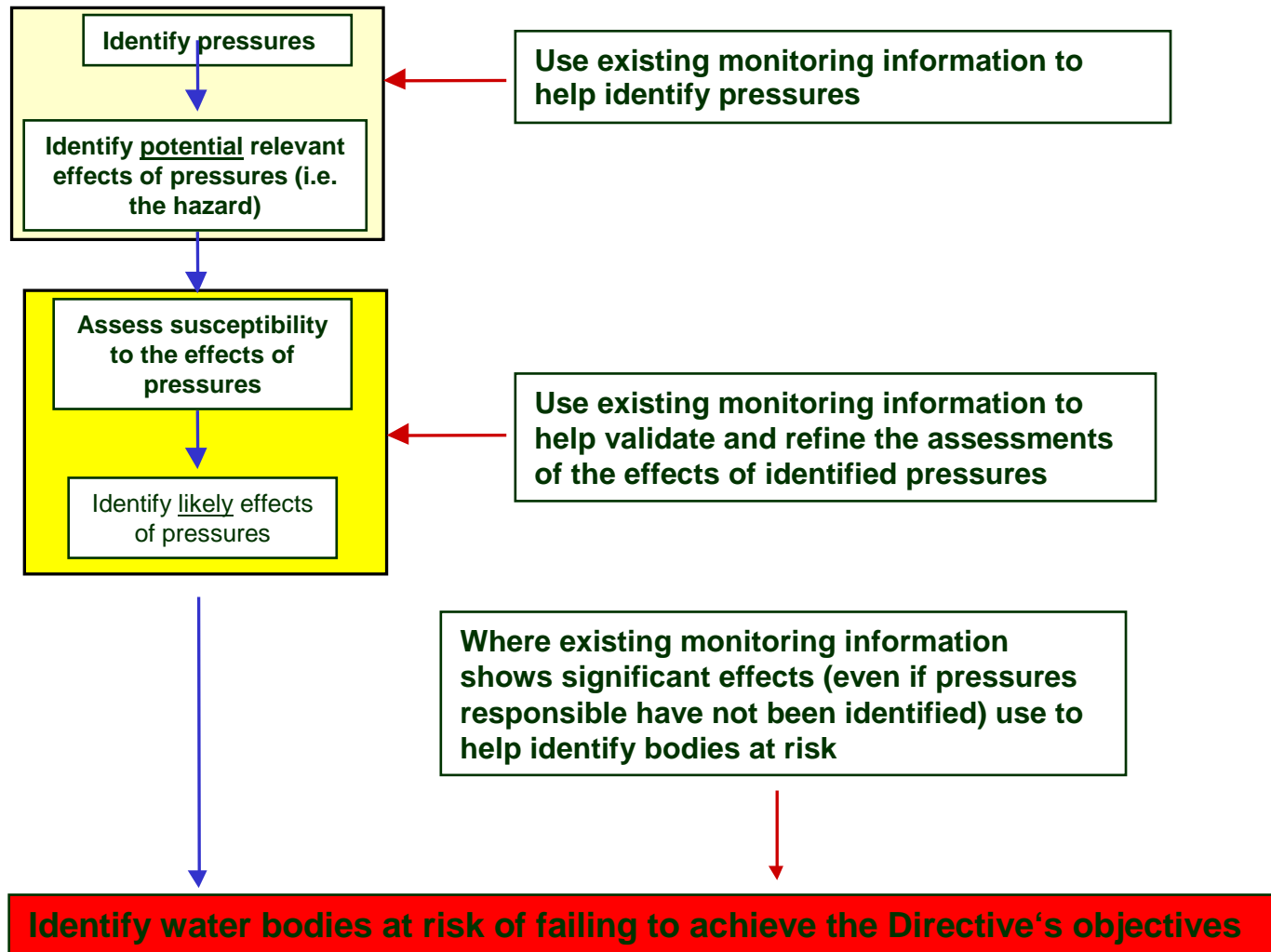


ImPress as a key element of RBM and WFD



ImPress Guidance, 2003

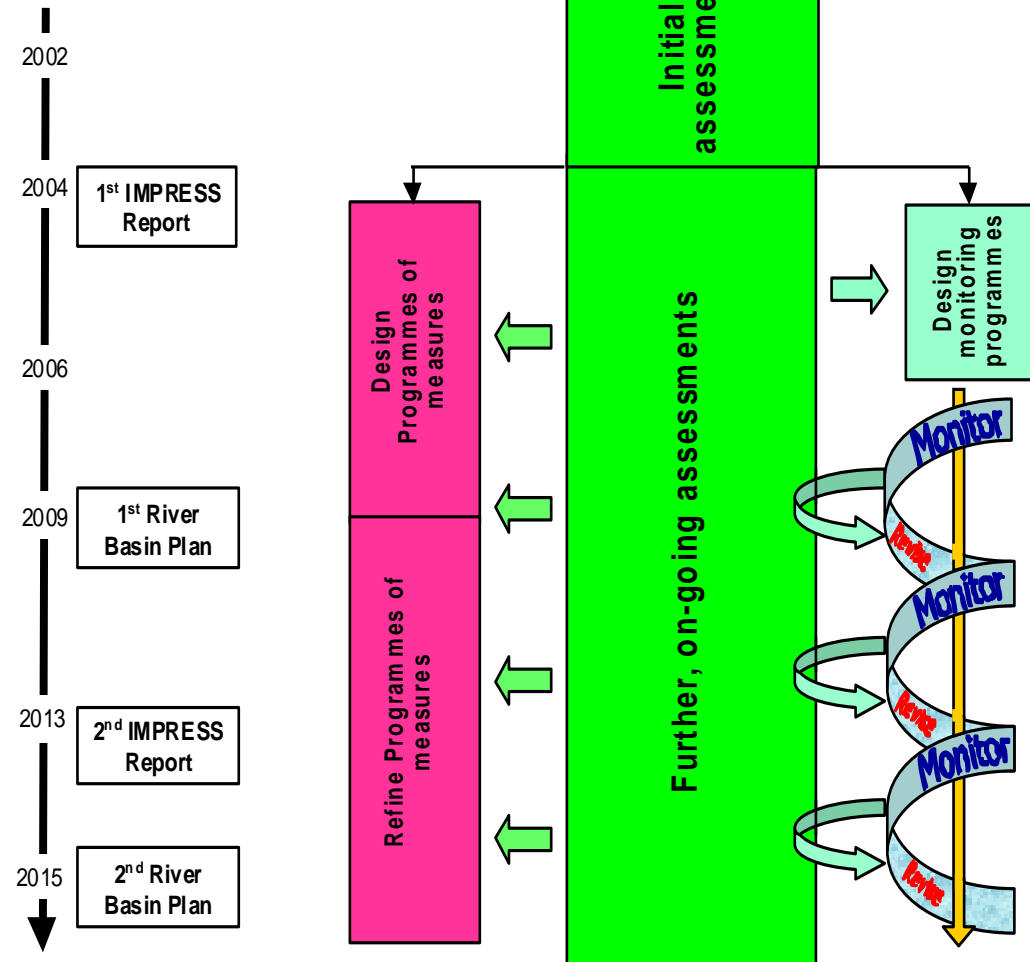






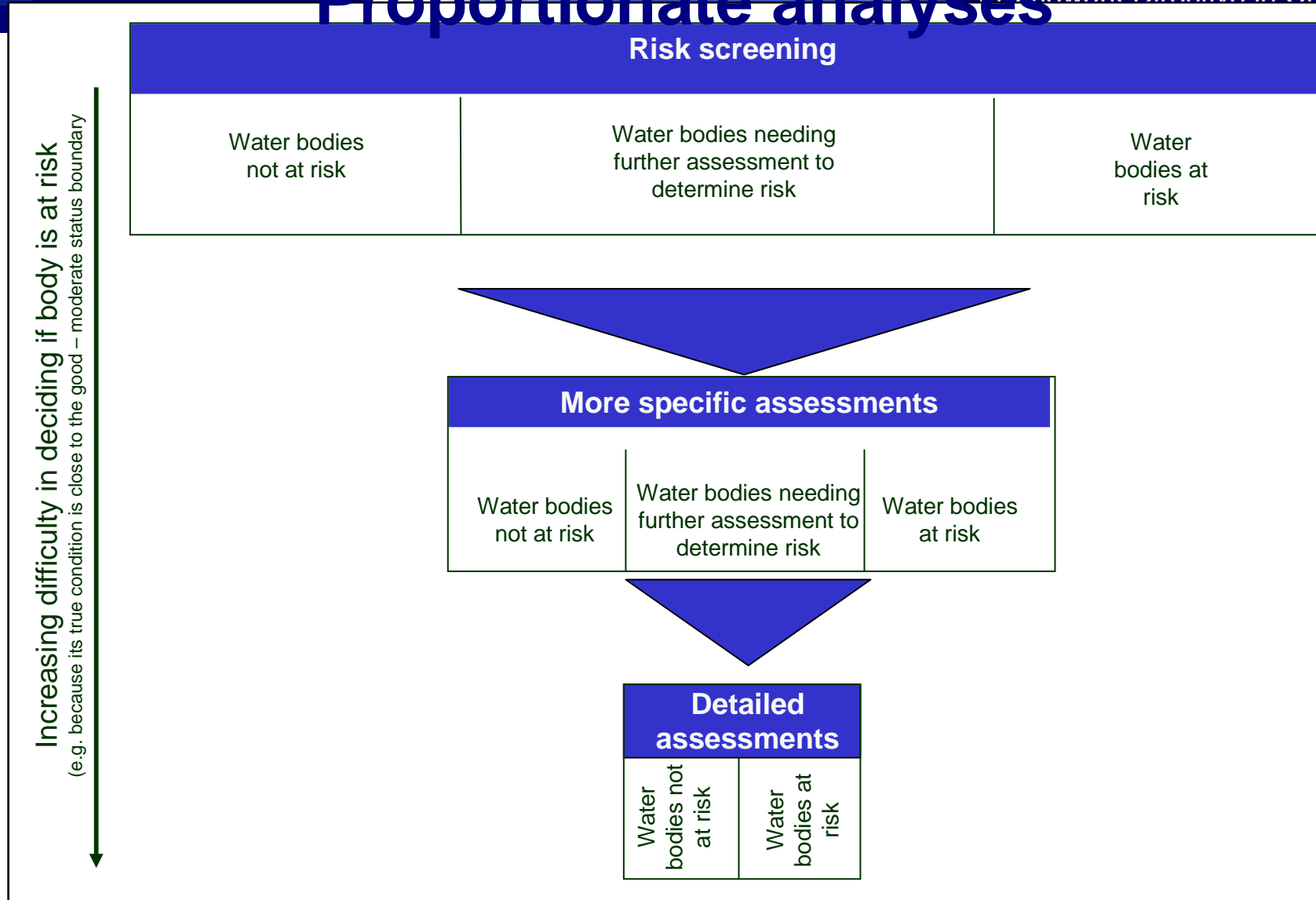
Timetable issues

- On-going process
- Different levels of existing information ⇒ variable analyses



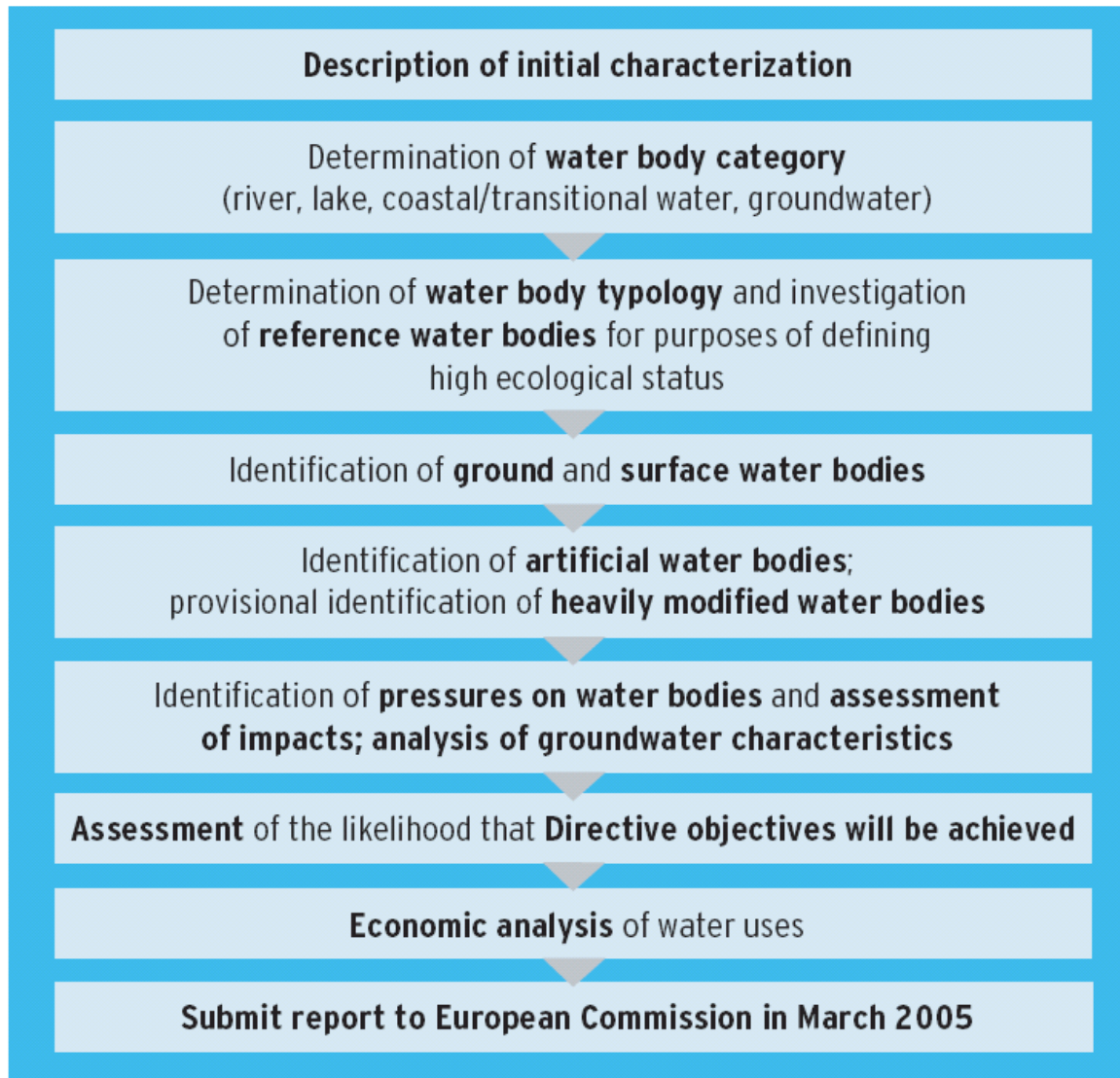


Proportionate analyses





Ge

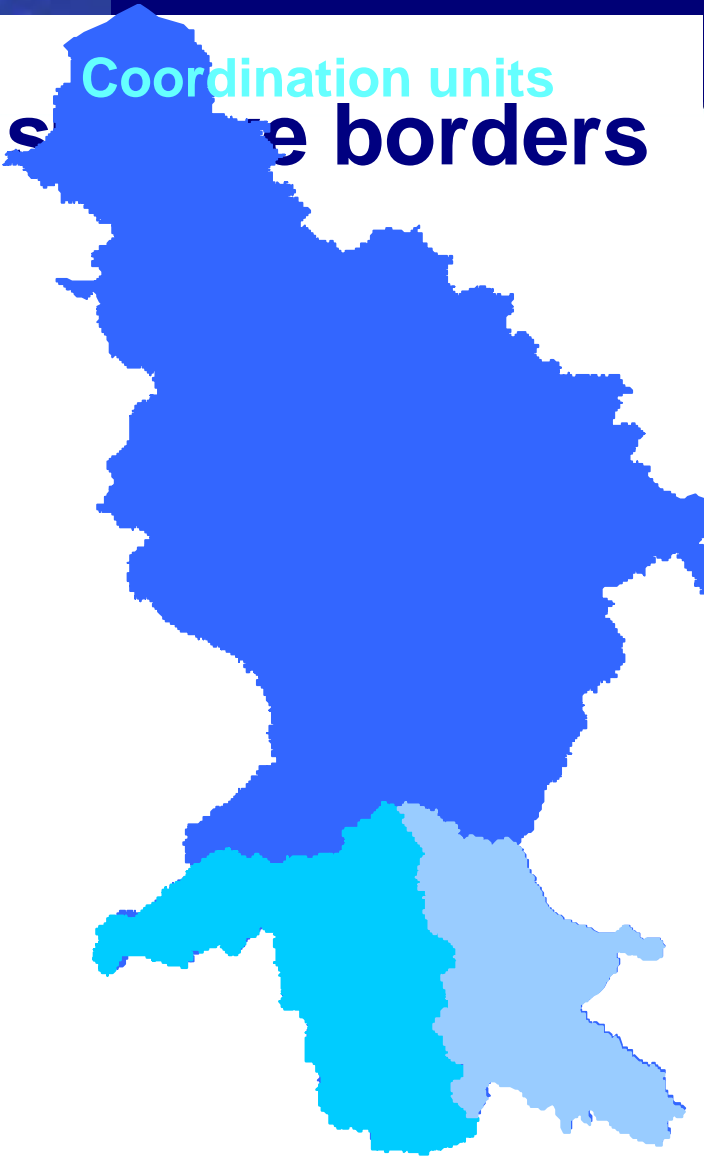
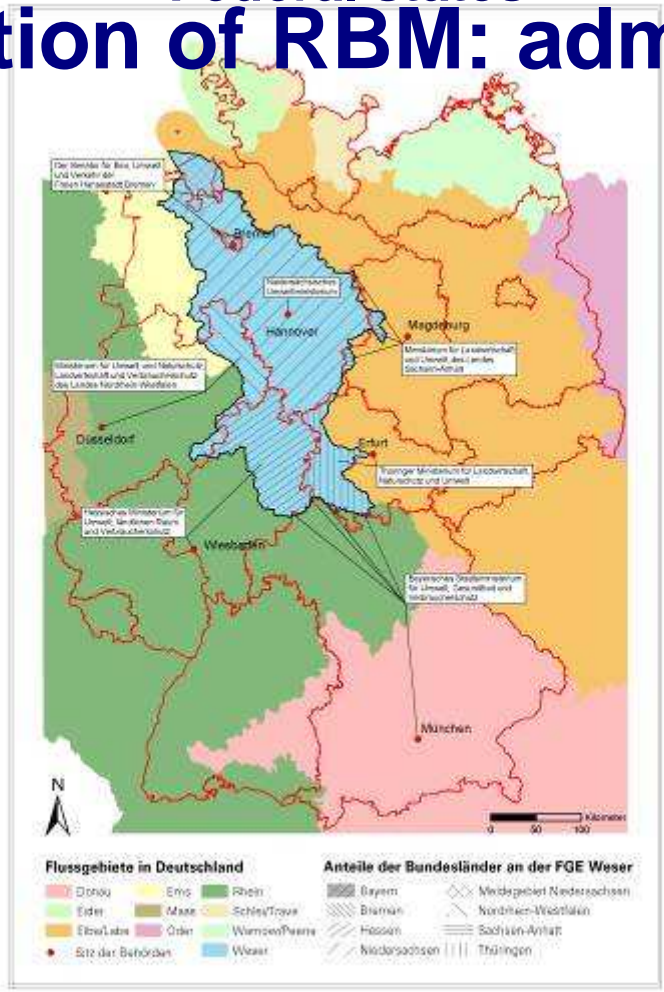


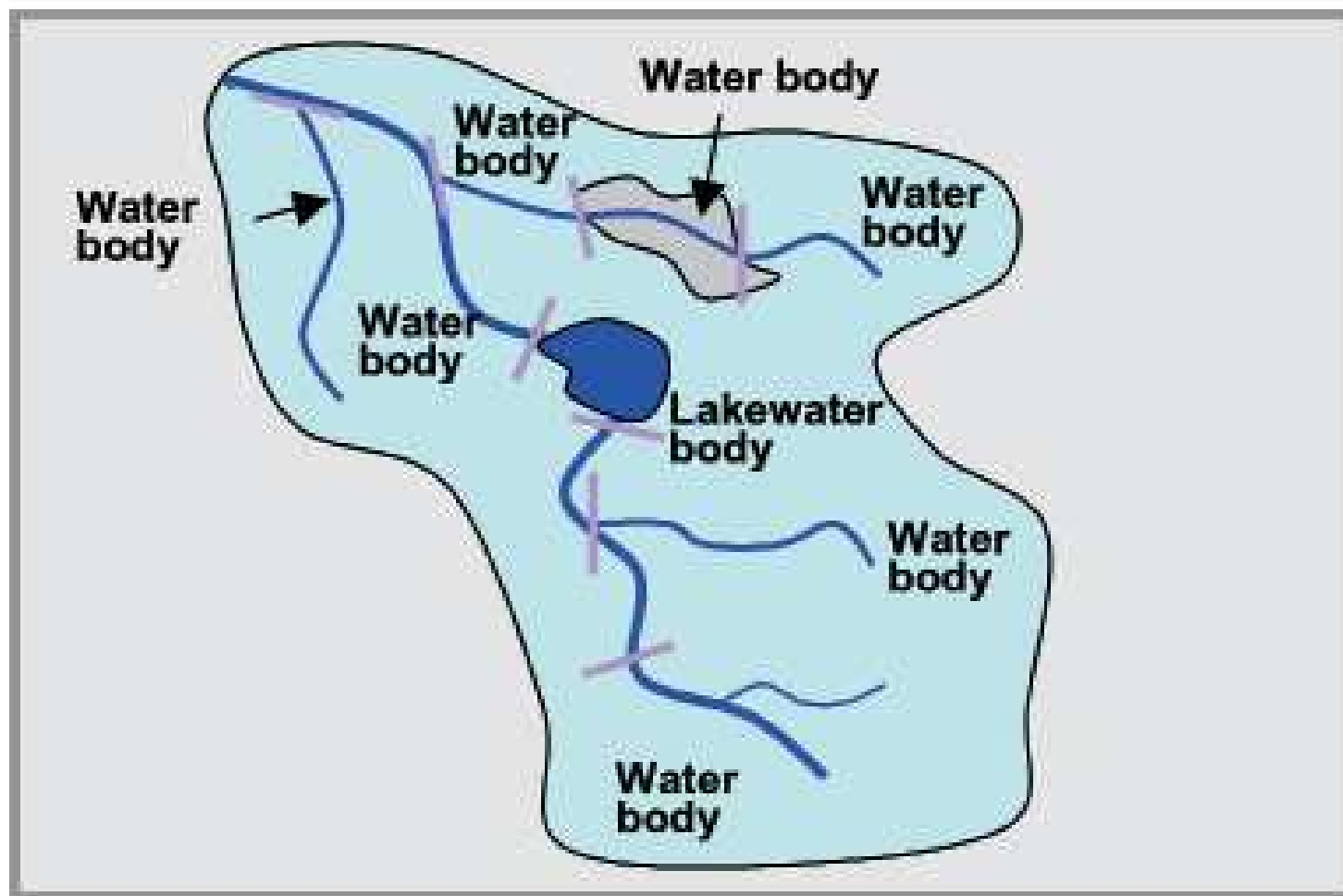
UBA, 2005
s Analysis





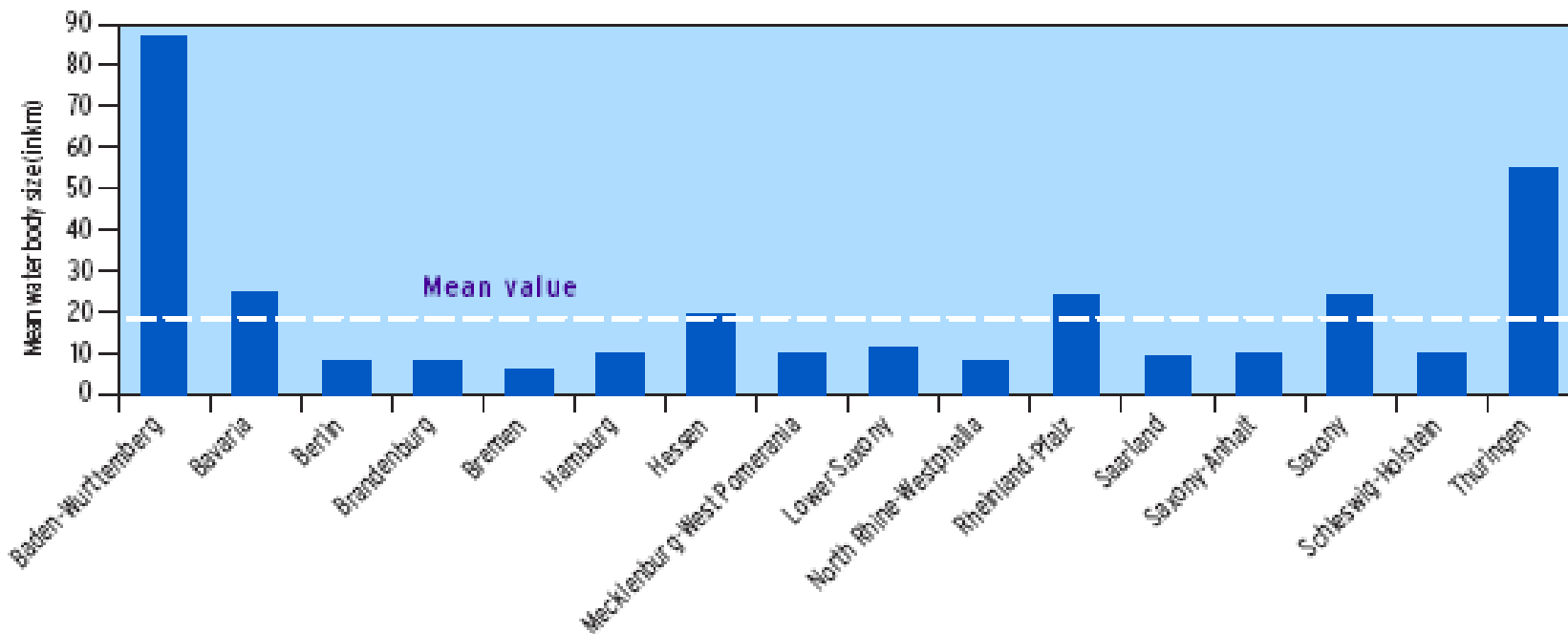
Organization of RBM: administrative borders







Mean length of water bodies (length in km)





International reporting

Two reporting levels

- Level A: Roof report:
Major rivers and major tributaries
catchments $> 2.500 \text{ km}^2$
supra-regional problems
- Level B: Reports on the working areas
- Coherence: adjusted reporting structure
data aggregation
- Reporting: Level A + B as unit



• **National and international reporting**

„WasserBLiCK“: Consistent data pool / data model
preparation of maps on different scales
→ Local data autonomy across borders
→ Compatible to EU-reporting system

Data sheets: Standardised interface based on:

- EuroGlobalMap
- Demands of GIS guidance
- Outcomes of working groups

→ Integral component of co-ordination

Link → www.wasserblick.net



International reporting Experience / strategies

Common sense on keystone activities

- Workshops on:
HMWB, typology, economical analysis etc.

Strategies:

- Adjuste the reporting on the demands
- Top down approach for supra-regional problems
- Level-specific analysis of the work
- Solutions in time which meets the demands



National reporting

National activities

LAWA guidance

→ Description of national methodologies

LAWA workshops

→ Exchange of information between the
federal states and harmonising keystone activities

Activities in the federal states

Handbooks / manuals

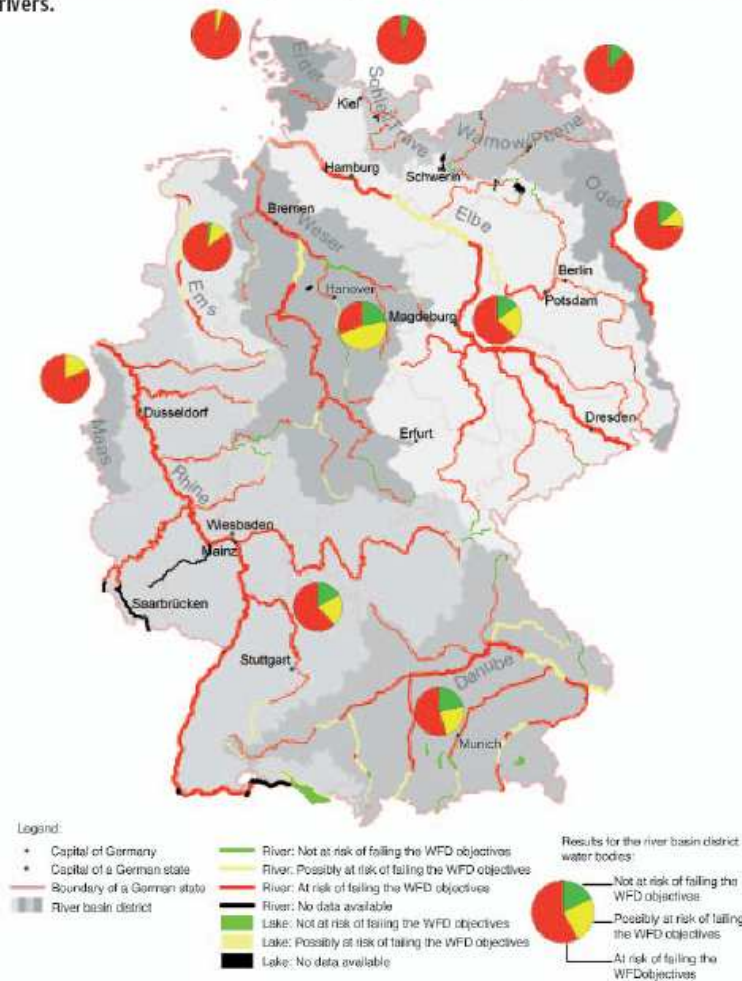
→ adaptation of methodologies on local possibilities

→ Harmonisation within the administration

Internal education and public information



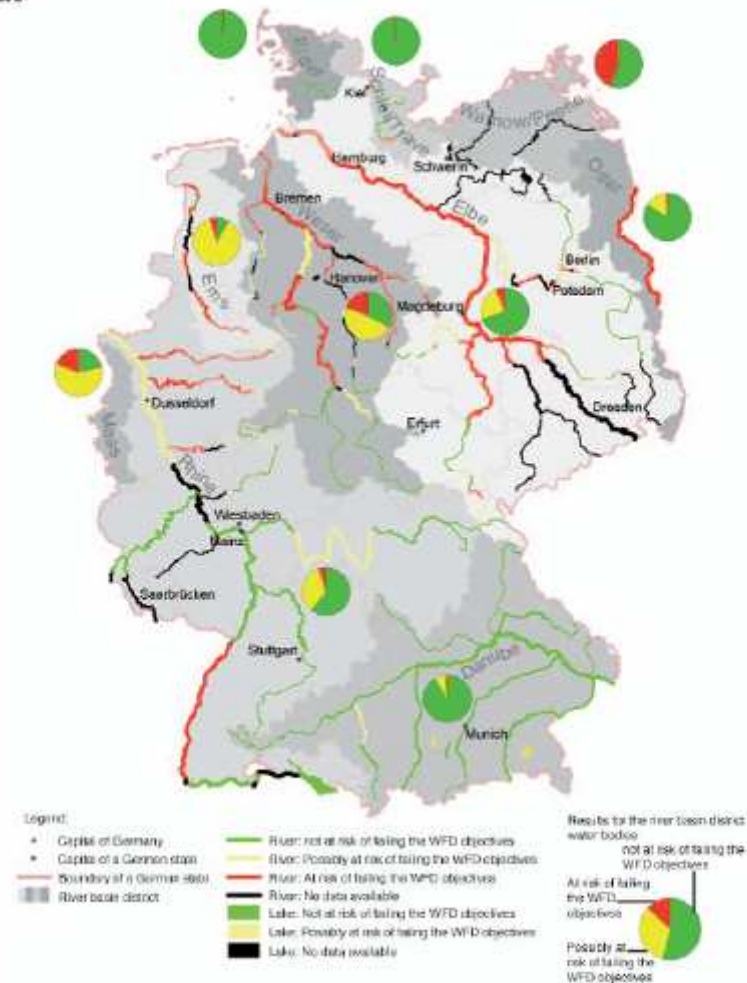
Figure 19: Characterization results pertaining to the good ecological status of Germany's lakes and rivers.



Information valid as at January 2006
For further information see text and Annex

Source: Data aggregated from information provided by German states
Source maps: Umweltbundesamt and Bundesamt für Kartographie und Geodäsie

Figure 20: Characterization results pertaining to the good chemical status of Germany's lakes and rivers

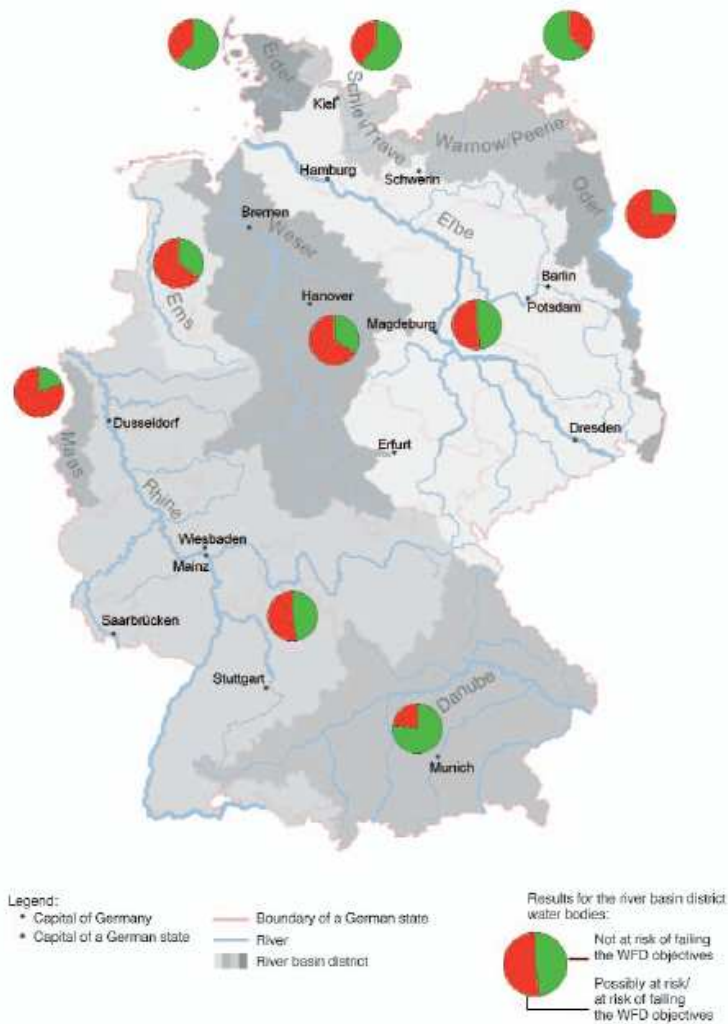


Information valid as at January 2006
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Source: Data aggregated from information provided by German states
Source maps: Umweltbundesamt and Bundesamt für Kartographie und Geodäsie



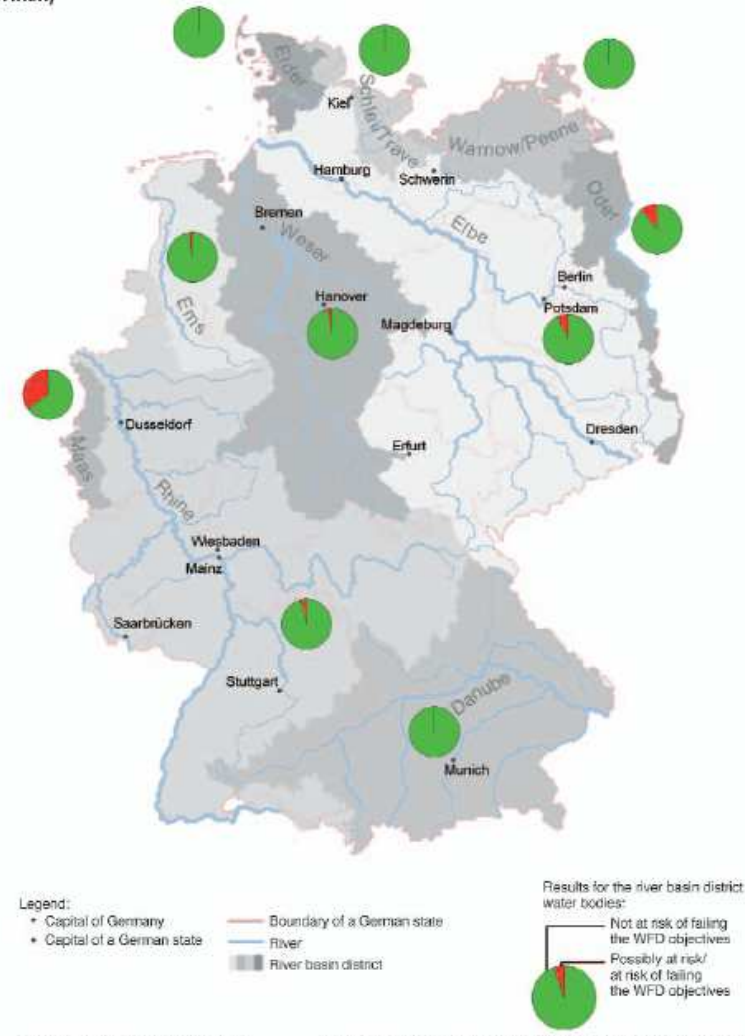
Figure 27: Initial characterization of the good chemical status of groundwater bodies in Germany



Information valid as at January 2005
For further information see text and Annex

Source: Data aggregated from information provided by German states
Source maps: Umweltbundesamt and Bundesamt für Kartographie und Geodäsie

Figure 28: Initial characterization of the good quantitative status of groundwater bodies in Germany

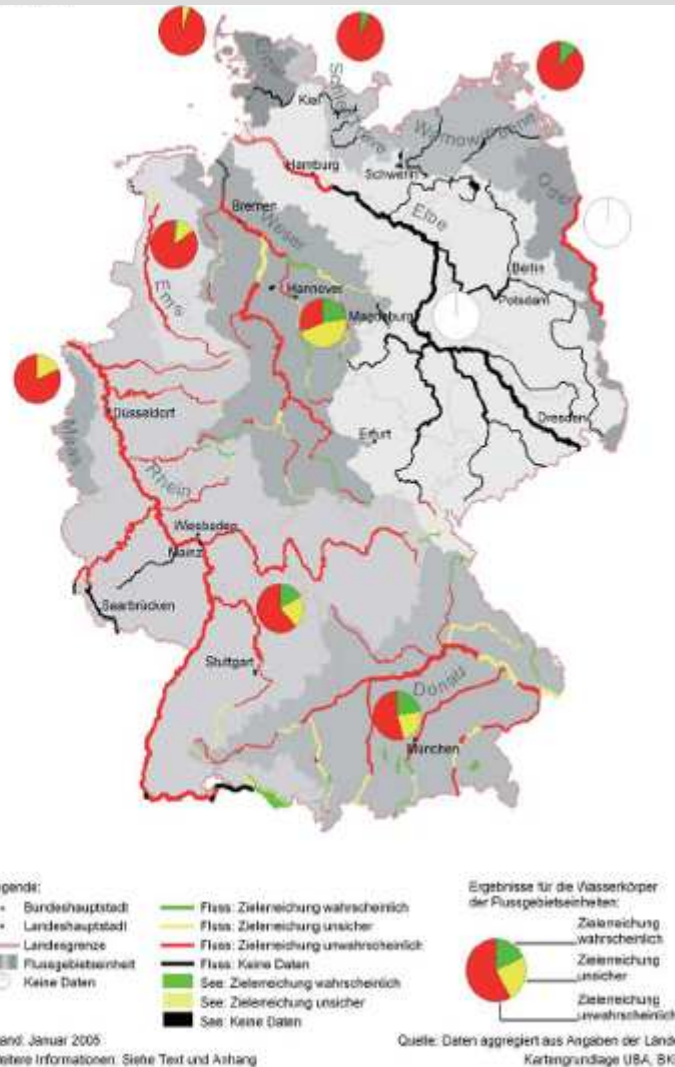


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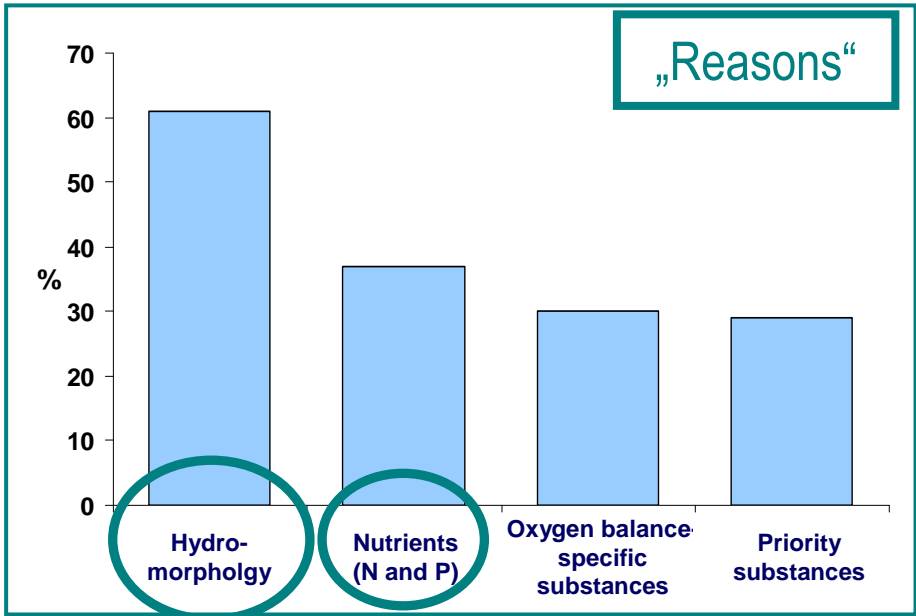
Source: Data aggregated from information provided by German states
Source maps: Umweltbundesamt and Bundesamt für Kartographie und Geodäsie



Initial characterisation and target achievement „Good status by 2015“ of rivers and streams



- app. 60 % of running water bodies likely to not achieve objectives without measures
- app. 26 % with uncertain assessment (esp. lack of data)
- app. 14 % of running waters likely to achieve objectives



from UBA (2005)



Twinning Project

Environment and Download

Implementation of the Water Framework Directive in Croatia

<http://www.umweltbundesamt.de/uba-info-medien>

<http://www.umweltbundesamt.de/wasser/themen/>

TEXTE

ENVIRONMENTAL RESEARCH OF THE
FEDERAL MINISTRY OF THE ENVIRONMENT,
NATURE CONSERVATION AND NUCLEAR SAFETY

Research Report 202 21 210
UBA-FB 000563/E



Basic principles for selecting the most cost-effective combinations of measures for inclusion in the programme of measures as described in Article 11 of the Water Framework Directive

HANDBOOK

by

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Dipl.-Geökol. **Nicole Kranz**
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Dipl.-Ing. **Thomas Dworak**

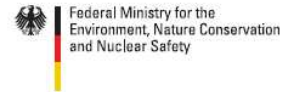
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Kassel University

On behalf of the Federal Environmental Agency

UMWELTBUNDESAMT



ENVIRONMENTAL POLICY



Water Framework Directive -
Summary of River Basin District Analysis 2004 in Germany





Literature and downloads (continued)

Website addresses for the various German river basin districts

River basin district	Web address
Danube	International Commission for the protection of the Danube River: www.icpdr.org
Eider	Data pertaining to implementation of the Water Framework Directive in Schleswig-Holstein: www.wasser.sh/de/fachinformation/
Elbe	Internationale Kommission zum Schutz der Elbe: www.ikse.de Flussgebietsgemeinschaft Elbe: www.fgg-elbe.de Arbeitsgemeinschaft für die Reinhaltung der Elbe: www.arge-elbe.de/
Ems	Wasserblick: www.wasserblick.net
Maas	Schwalm management subregion: www.schwalm.nrw.de Rur management subregion: www.rur.nrw.de/ Niers management subregion: ww.niers.nrw.de/
Oder	International Commission for the protection of the Odra River against pollution: www.mkoo.pl
Rhein	International Commission for the protection of the Rhine: www.iksr.de Internationale Maaskommission: www.cipm-icbm.be
Schlei/ Trave	Data pertaining to implementation of the Water Framework Directive in Schleswig-Holstein: www.wasser.sh/de/fachinformation/
Warnow/ Peene	Wasserblick: www.wasserblick.net
Weser	Flussgebietsgemeinschaft Weser: www.fgg-weser.de



Information from the various Bundeslaender (German states) regarding the Water Framework Directive

State	Web address
Berlin	http://www.stadtentwicklung.berlin.de/umwelt/wasser/wrrl/index.shtml
Baden-Wuerttemberg	http://www.wrrl.baden-wuerttemberg.de/
Bavaria	http://www.wasserrahmenrichtlinie.bayern.de/wrrl_live/navigation/show.php3?id=243&nodeid=243&p=
Brandenburg	http://www.mlr.brandenburg.de/cms/detail.php?id=173081&_siteid=800
Bremen	http://www.umwelt.bremen.de/buisy/scripts/buisy.asp?Doc=WA+WRRL
Hessen	http://www.flussgebiete.hessen.de
Hamburg	http://www.wrrl.hamburg.de
Mecklenburg-West Pomerania	http://www.wrrl-mv.de/
Lower Saxony	http://www.wasserblick.net/servlet/is/16702/
North Rhine-Westphalia	http://www.flussgebiete.nrw.de http://www.niers.nrw.de/ http://www.schwalm.nrw.de http://www.rur.nrw.de/ http://www.erft.nrw.de http://www.rheingraben-nord.nrw.de/ http://www.sieg.nrw.de http://www.wupper.nrw.de http://www.ruhr.nrw.de http://www.emscher.nrw.de http://www.lippe.nrw.de http://www.ijssel.nrw.de http://www.ems.nrw.de http://www.weser.nrw.de
Rheinland-Pfalz	http://www.wasser.rlp.de/wrrl/index.html
Schleswig-Holstein	http://www.wasser.sh/de/fachinformation/
Saarland	http://www.umwelt.saarland.de/1800_11589.htm
Saxony	http://www.umwelt.sachsen.de/de/wu/umwelt/lfug/lfug-internet/wasser_9936.html
Saxony-Anhalt	http://www.sachsen-anhalt.de
Thuringen	http://www.thueringen.de/de/tminu/themen/wasser/flussgebiete/bestandsaufnahme/index