Management by Accident

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Internationale Kommission zum Schutz des Rheins

Commission Internationale pour la Protection du Rhin

> Internationale Commissie ter Bescherming van de Rijn

International Commission for the Protection of the Rhine

Themes



- Accidents as a trigger for action
- The Sandoz accident as a turning point the ICPR before and after the fire
- Prevention and Control of accidents

Accidents as a trigger for action



Examples of striking accidents:

- Torrey Canyon (Cornwall 1967)
- Amoco Cadiz (off the coast of Brittany -1978)
- Erika (off the coast of Brittany 1999)
- Prestige (off the coast of northern Spain 2002)
- •
- Sandoz

Sandoz



1986: Fire at Sandoz



10-30 tons of highly toxic pesticides flowed into the river



causing the death of all aquatic life downstream (e.g. eels on 400 km)

The ICPR before Sandoz



Focus on:

- Creating confidence and trust
- Developing the legal and institutional basis for cooperation
- Getting common understanding of the problems in the Rhine
- Implementing "end-of-pipe" techniques, i.e. wastewater treatment, rather than on preventive measures

Sandoz



The Accident triggered a wave of publicity in in the whole Rhine catchment as well as a powerful political attention (3 ministerial meetings in half a year)

Turning the negative impact of the accident into positive action

Result:

The 1987 Rhine Action Programme

The ICPR after Sandoz



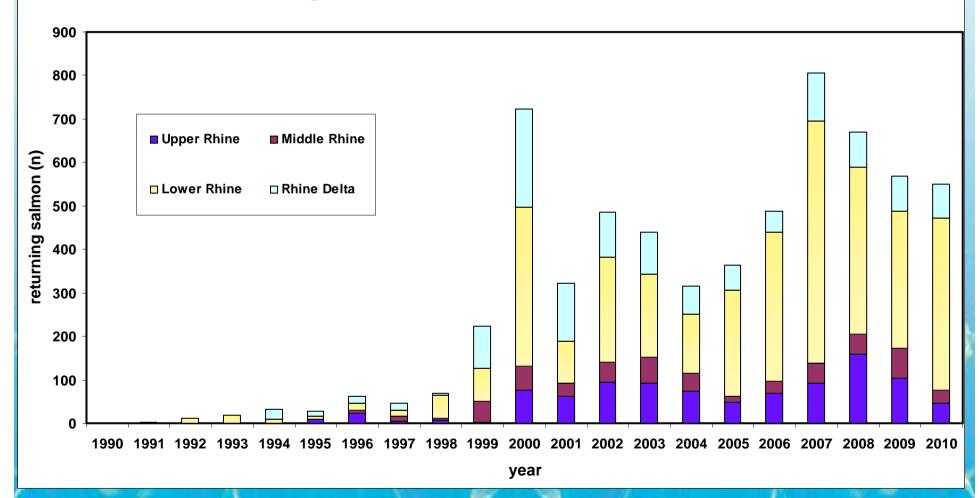
The Rhine Action Programme included some far-reaching long-term political targets:

- the return of the salmon by the year
 2000
- 50% to 70% reduction of inputs of dangerous substances between 1985 and 1995
- guarantee the production of drinking water from the Rhine for the future

Returning Salmon





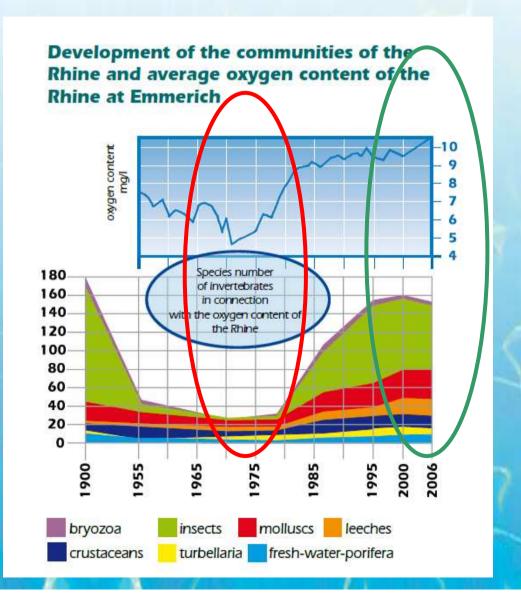


Recovery of the Rhine



560 species and taxa are back





Current topics in the ICPR



- Micropollutants common strategy
- Contamination of fish

Flood Prevention

• Effects of climate change on the Rhine catchment



Prevention of accidents



The ICPR also developed recommendations concern:

- Fire prevention concepts
- Licensing procedures for industrial installations
- Technical measures (like overfill, protection of containers, marking of pipelines transporting hazardous substances)
- Sealing off industrial plants (to prevent leakage in case of accidents)
- etc.

Control of accidents



 the Moerdijk accident in 2011: what could go wrong went wrong ...

Control of accidents: a case for further action?

Thank you for your attention!



