



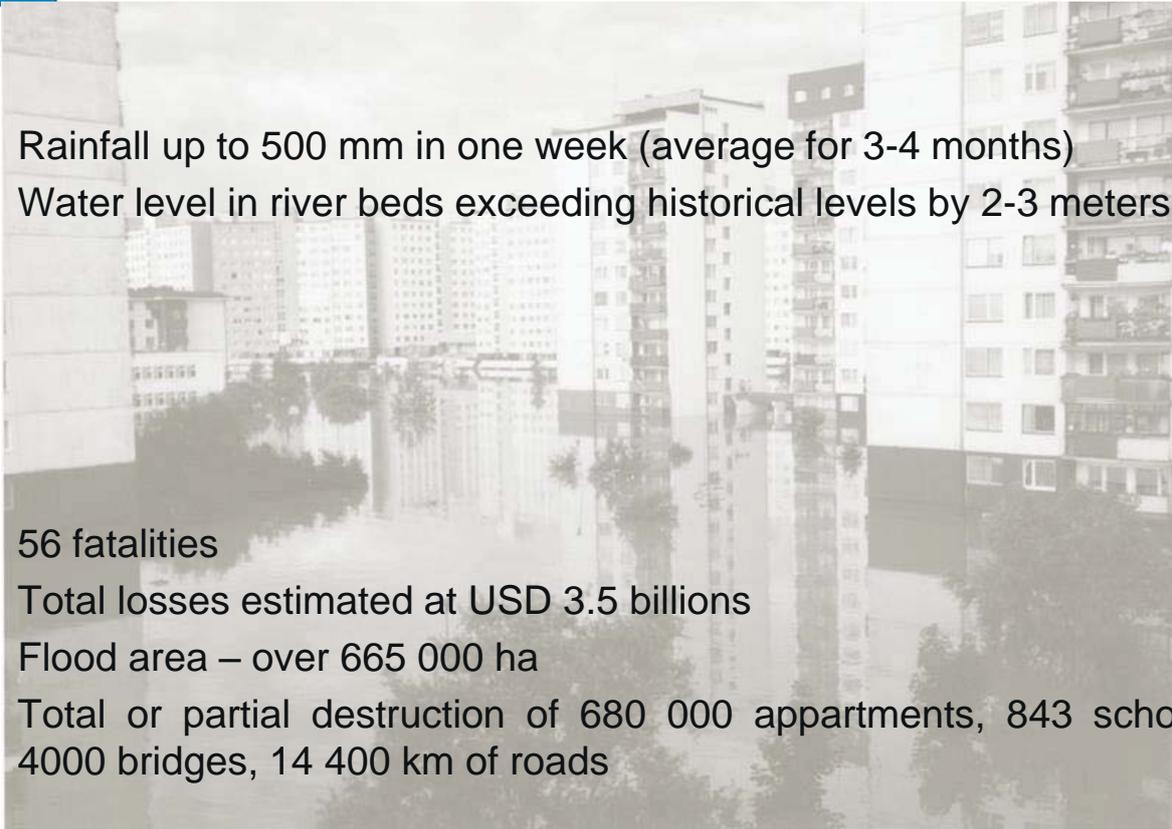
Bumpy road to water security – flood risk management in Poland

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Flood of 1997 in Lower Silesia

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- Rainfall up to 500 mm in one week (average for 3-4 months)
 - Water level in river beds exceeding historical levels by 2-3 meters
 - 56 fatalities
 - Total losses estimated at USD 3.5 billions
 - Flood area – over 665 000 ha
 - Total or partial destruction of 680 000 apartments, 843 schools, 4000 bridges, 14 400 km of roads

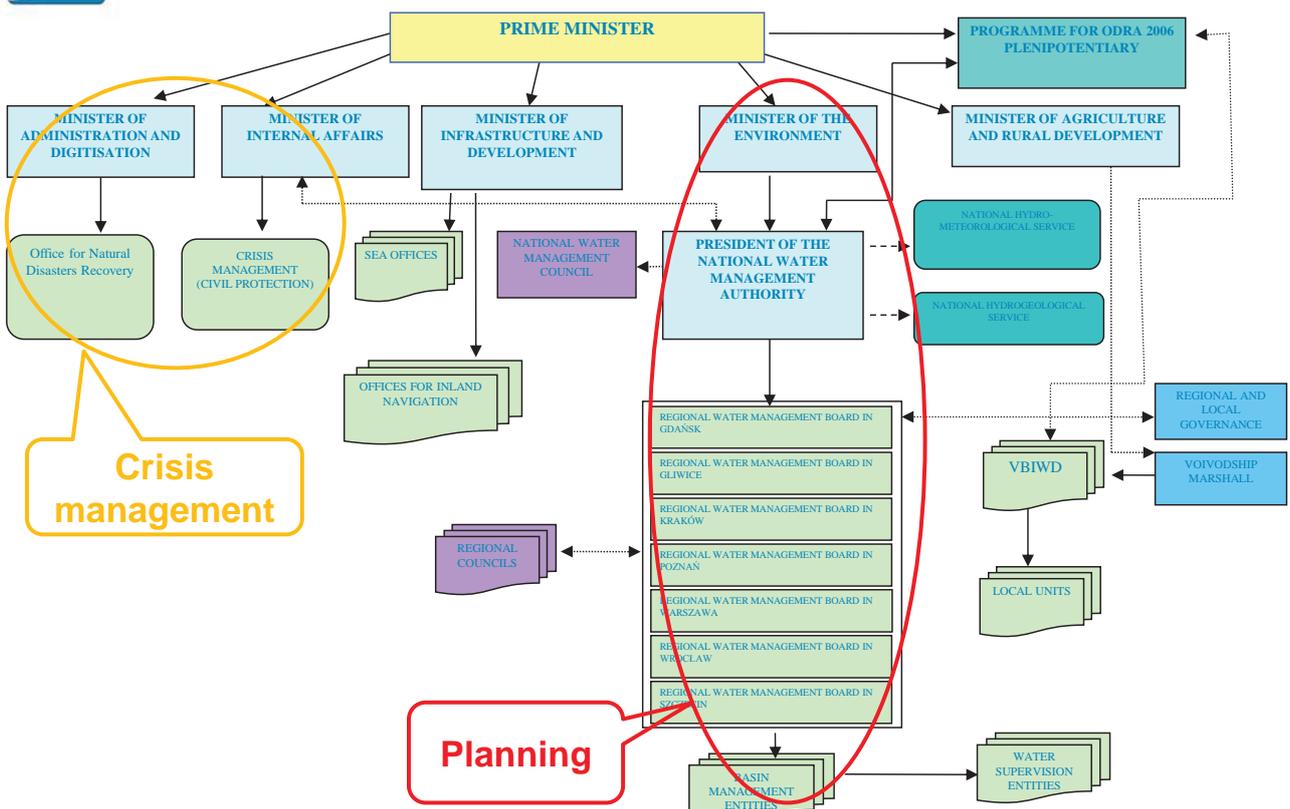
Odra river basin



Total river basin area is 124 049 sq. km, of which:

- 86,4 % in Poland
- 5,9 % in Czech Republic
- 7,7 % in Germany

Water governance structure in Poland



International cooperation

Improved weather forecasting

Strategic planning

Flood protection infrastructure

Crisis management

Improved weather forecasting



- Meteorological radars network
- Almost 1000 automatic metering stations
- Lightning detection system
- Automatic warnings for public under development

- Bilateral agreements on data transmission
- Direct contacts on operational level
- Information on significant discharges from reservoirs via phone or Internet
- Monitoring of websites of international partners (water management, meteorological situation)

Strategic planning



- Flood protection studies
- Preliminary flood risk assessment (PFRA)
- Flood threat and flood risk maps
- Flood risk management plans (FRMP) under development



- Working groups under bilateral transboundary waters commissions
- Development of PFRA and FRMP by the International Commission for the Protection of Odra River

Flood protection infrastructure



- Programme for Odra river
- Odra river flood protection programme
- New Odra and Vistula rivers programme under development



- Investments on transboundary waters agreed under bilateral agreements
- Additional resources from International Bank for Reconstruction and Development, Council of Europe Development Bank, European funds

Crisis management



- Improvement of procedures and cooperation of services
- Investments in equipment
- System for exchange of information under development, targeted at different user groups

- Bilateral agreements between rescue services and on ice breaking
- Exchange of information, provision of translation
- Common rescue procedures
- Rescue exercises and conferences

Problems to solve

