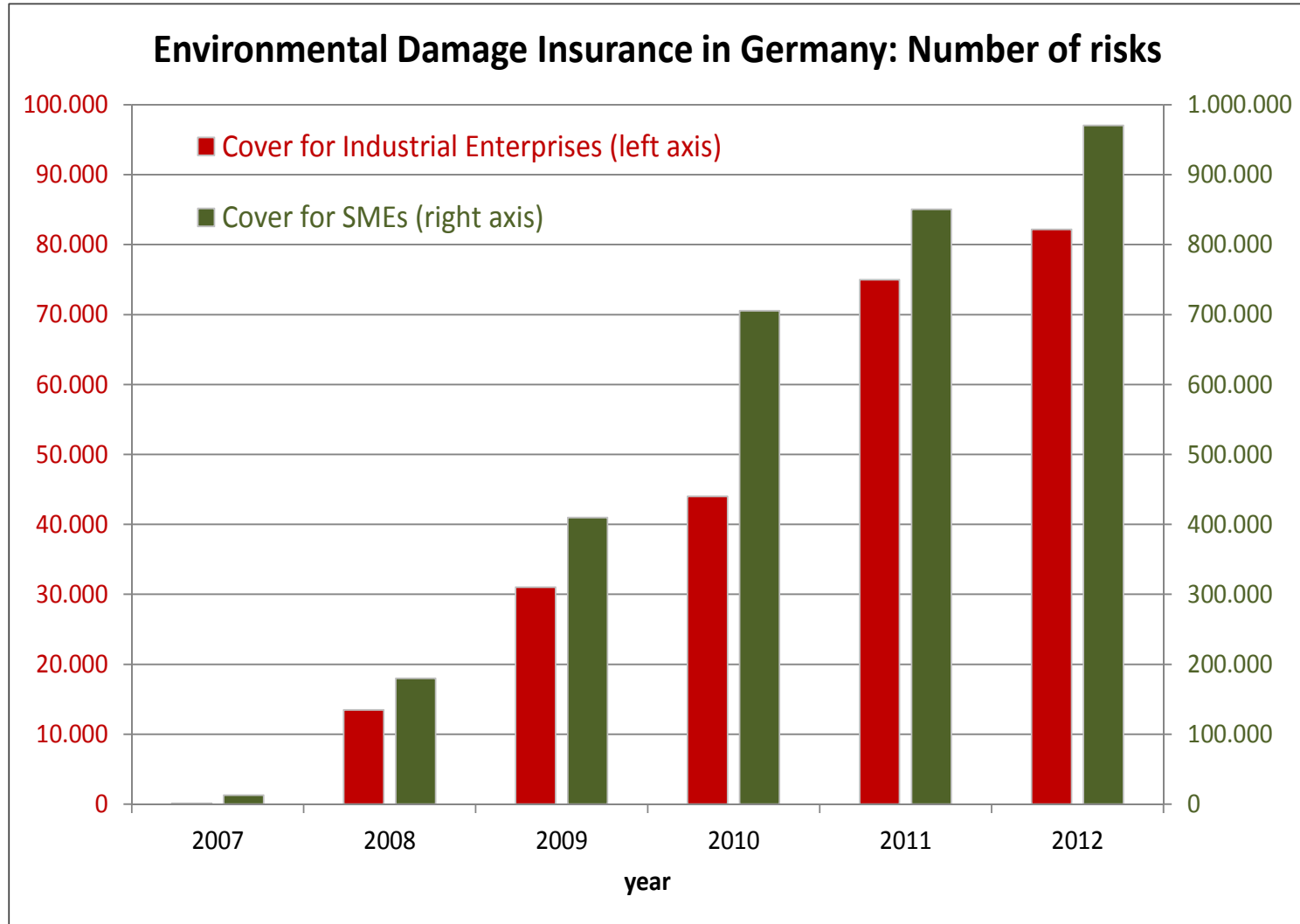


Environmental damage claims: The insurer's perspective on adjusting large ELD losses (A case study)

Karl-Martin Wischott (AXA Matrix Risk Consultants Germany)
Karl Ortmann (GDV)

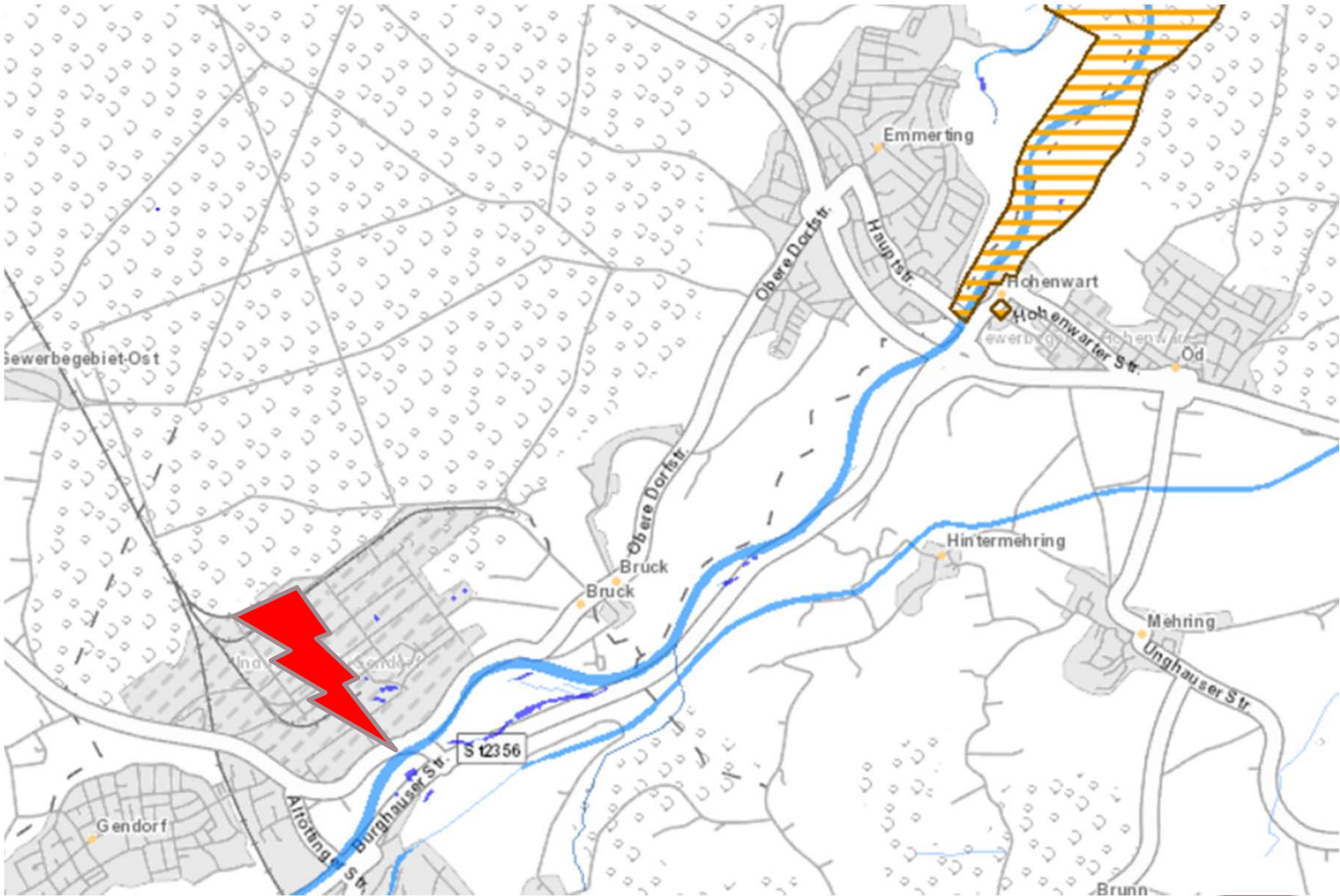
3rd ELD Stakeholder Workshop
26 November 2014



ELD claims experience in Germany

- 110 insured claims for 2012 (GDV records)
- German government reported 60 cases to the EC for 2007 - 2012
- Most claims are mixed (TPL, EIL, ELD, BI, Property etc.)
- Claims expenditure varies widely
- Majority of claims result from an operational disruption at Insured's premises (sudden and accidental and gradual pollution)







Cause of Damage

Discharge of 300 kg Genamin (fatty amin) after an operational incident

Density = 0,77 g/cm³

Solubility in water max. 10 mg/l

LC 50 (Lethal Concentration = kills 50% of fish) 0,1- 1 mg/l

Biodegradability: ca. 70 % (28 d) = easy

Water hazard class (Germany) : 2 = hazardous

Extent of Damage

**Fish mortality of about 100 % in the first few kilometers
Decreasing with distance but still recognizable up to 15 km**

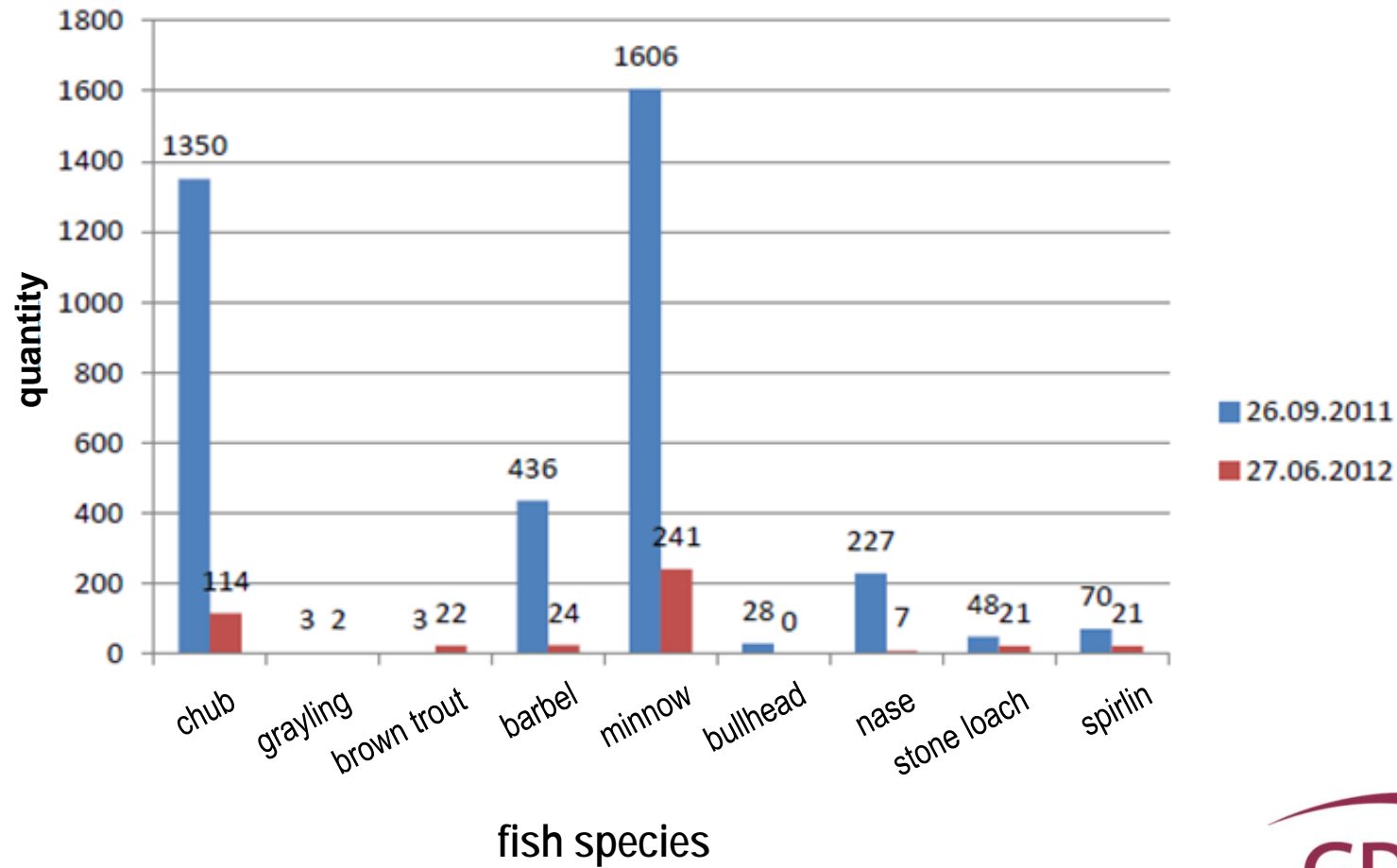
**All species and size of fish were affected
Organisms on which fish feed were less affected**

**No accumulation in sediments
No long-term effects detectable**

Starving fish-eating birds as collateral damage

Monitoring the Fish Population

Number of individuals sectors B2+B3



Primary and Complementary Remediation

Remediation planning carried out by experts for fish ecology in close cooperation with local authorities

Partly substitution by wildcaught fish

Improvement of living conditions

- Improvement of fish migration aids (fish ladder)
- Renaturation of structures like earlier river arms
- Providing of breeding and juvenile habitats
- Rebuilding of artificial embankments
- Providing of shelter and withdrawal possibilities

Monitoring, Monitoring, Monitoring

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