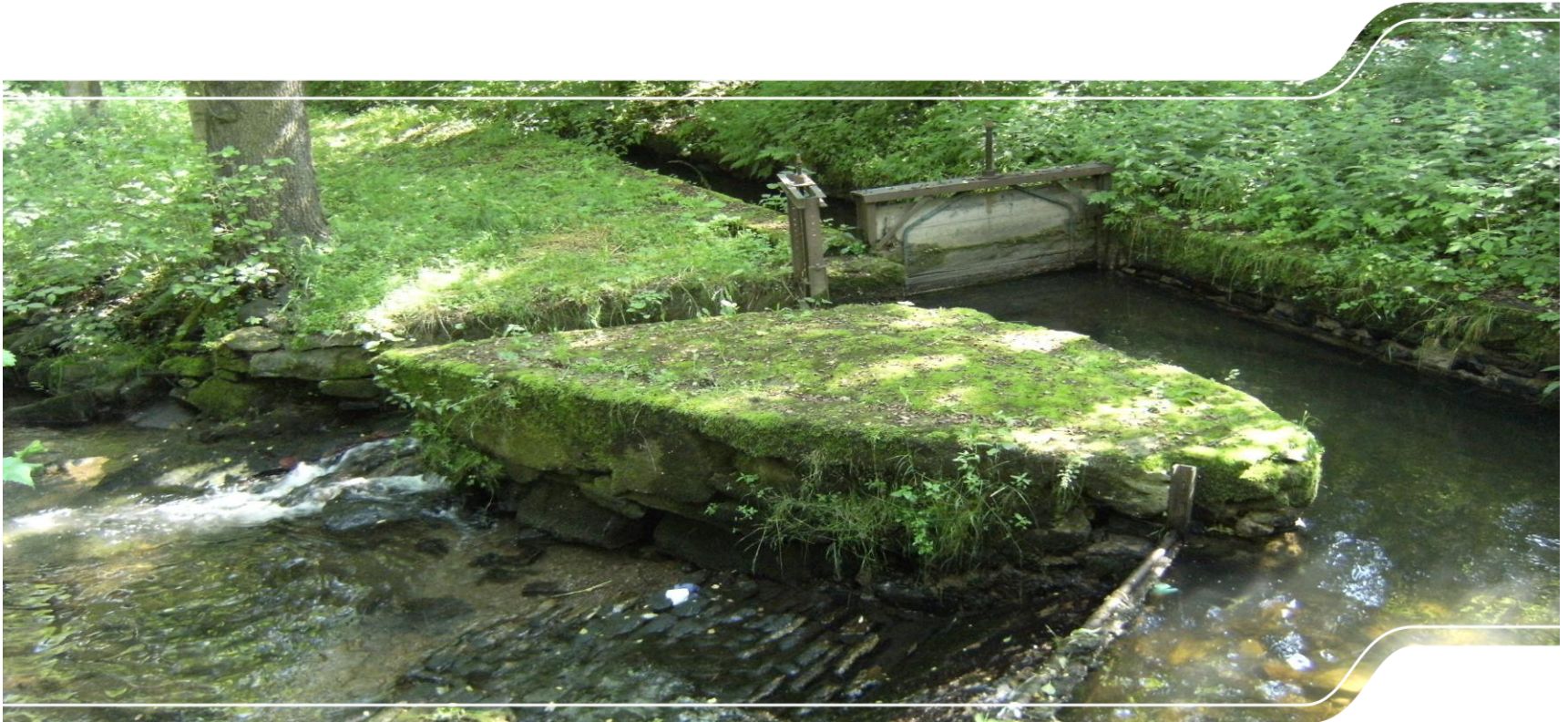


Personal Introduction: Eckardt, Andreas (Germany)



Andreas Eckardt:

■ education and training:

- - Masters Degree and PhD in Water Engineering (TU Dresden)
- - Engineer for Groundwater Management (TU Dresden)

■ professional experience:

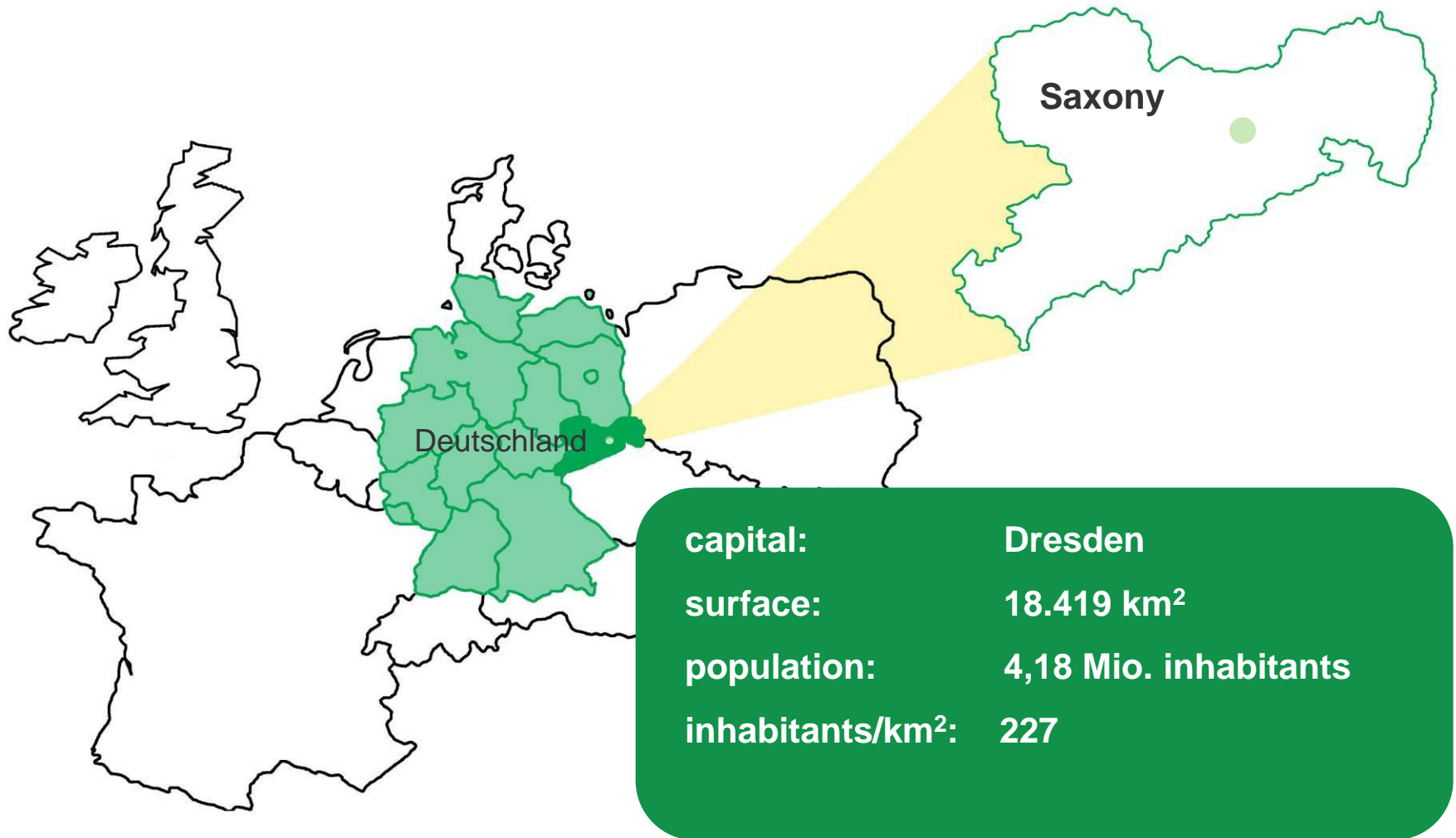
- - protection, management and remediation of groundwater
- - risk assessment and remediation of contaminated sites
- - drinking water and wastewater systems

Andreas Eckardt:

- former functions in environment administration
- - project controller, project manager (groundwater contamination)
- - head of the division for contaminated sites
- - head of the division for water
- additional information
- - chairman of the commission for verification of the experts for contaminated sites
- - chairman of the saxon „Association of Engineers for Water Management, Waste Management and Land Improvement“

Current Employer and Occupation:

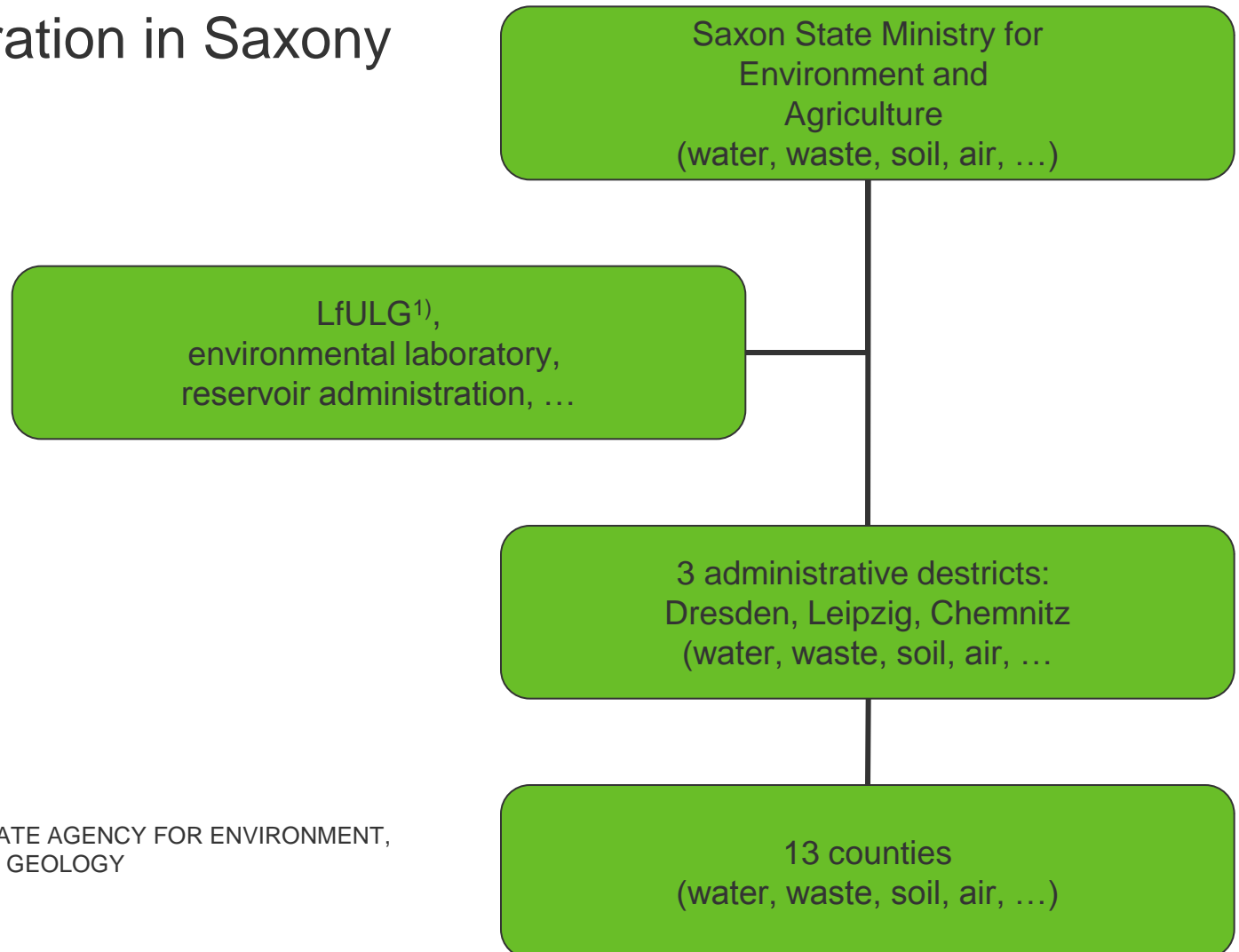
- Saxon State Ministry for Environment and Agriculture
- head of division „Urban Water Management, Ground Water“:
 - - industrial and urban wastewater
 - - drinking water supply
 - - groundwater management and remediation; protection areas
 - - border waters to Poland and to Czech Republik



Administrative Structure of Saxony



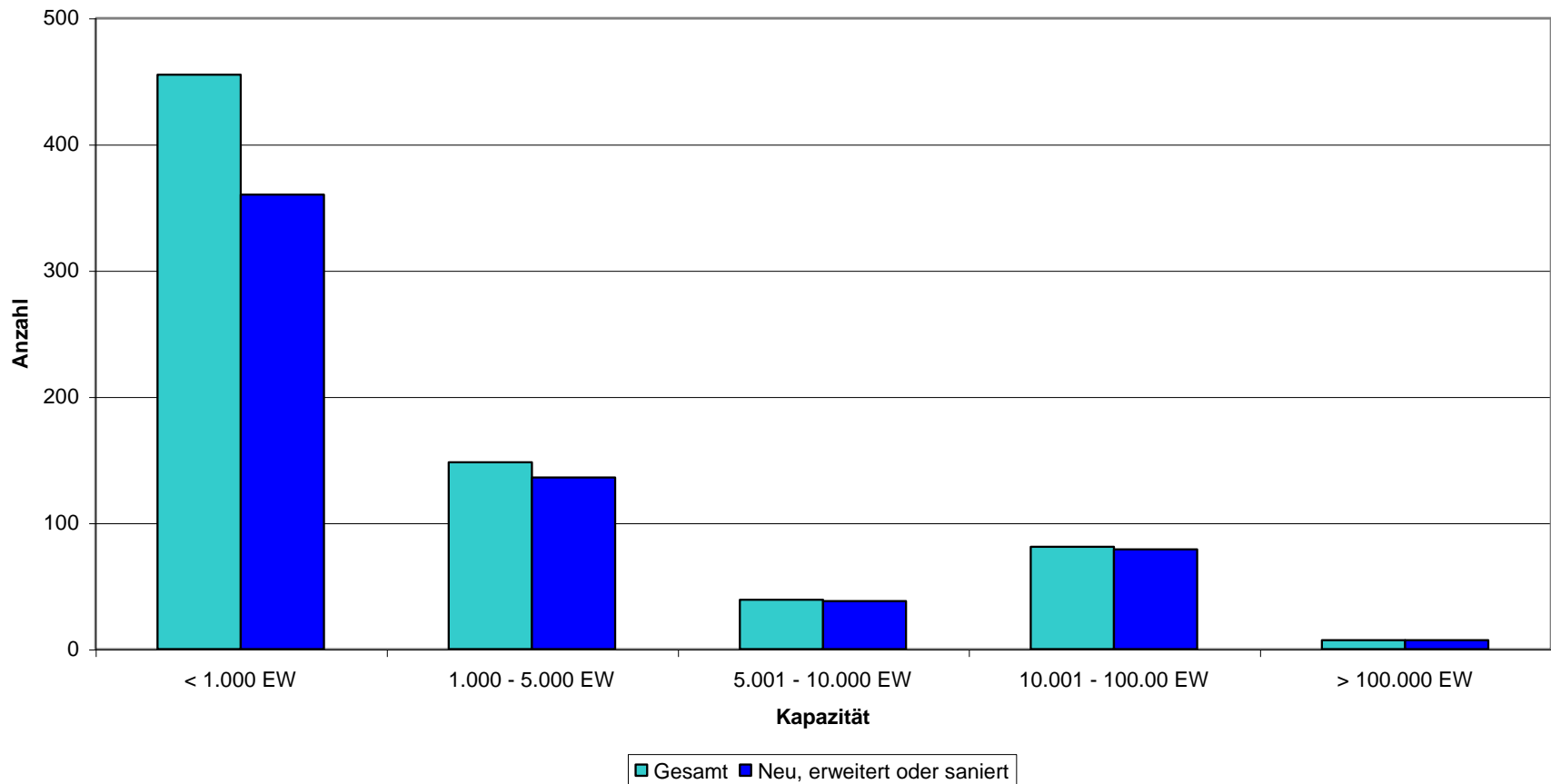
Environmental Administration in Saxony



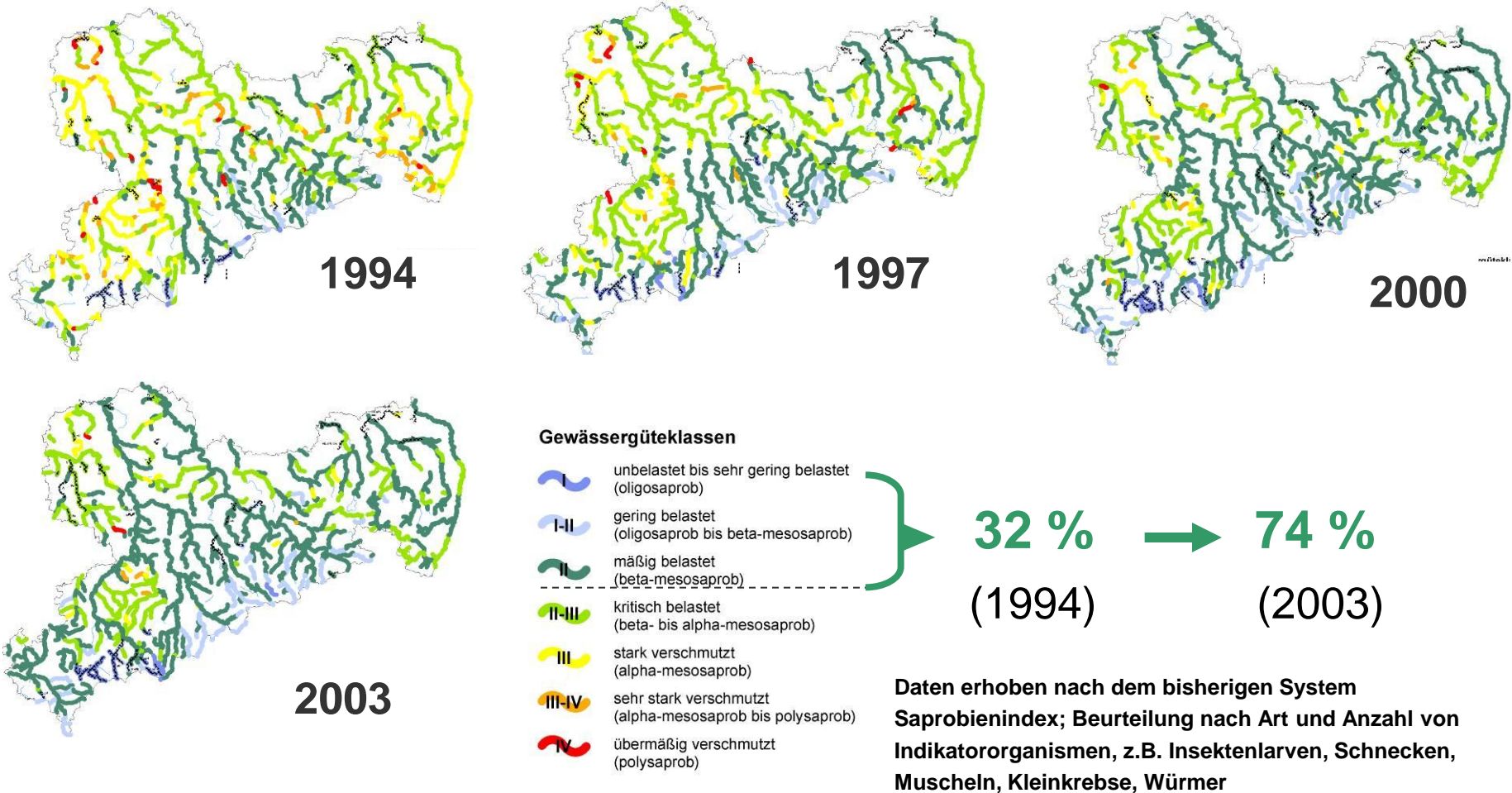
¹⁾ LfULG: SAXON STATE AGENCY FOR ENVIRONMENT,
AGRICULTURE AND GEOLOGY

Environmental Protection in Saxony – Waste Water

Municipal Waste Water Treatment Plants
constructed, reconstructed or extended 1991 – 2008



Environmental Protection in Saxony – Quality of Surface Water



Environmental Protection in Saxony – Remediation of contaminated Sites

Examples: SAXONIA Freiberg



← tailing 1989

2004 →



Environmental Protection in Saxony – Former Lignite Mining Sites

Examples: Open Pit Mine Espenhain



← in operation



in remediation →

Environmental Protection in Saxony – Climate Protection

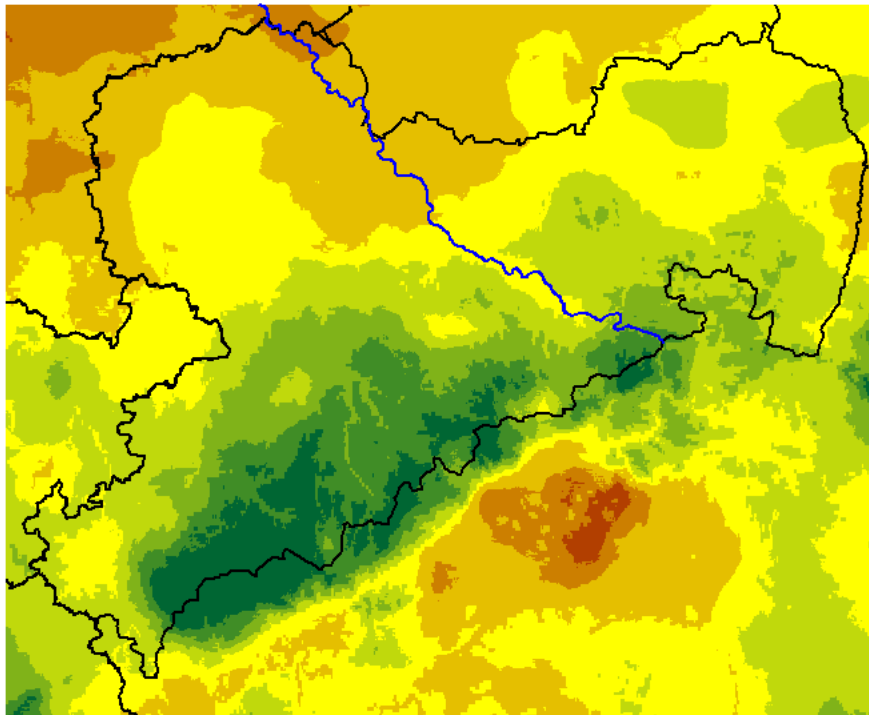
Climate Modelling

forecast of mean precipitation in summer in Saxony

1981 - 2000

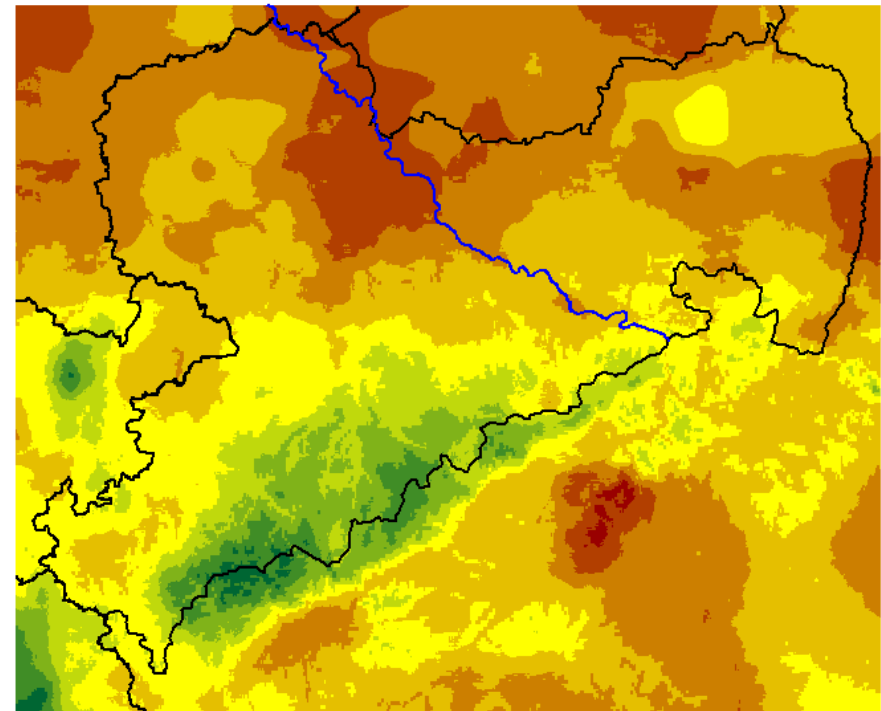
1981 - 2100

WEREX IV ; EO-HAMS; A2 ; MIUet; 1961_1990; 1991_2000; Niederschlag; mei, Sommer (JJA)



90.0 116 141 167 192 218 243 269 294 320 [mm]
13.02 mm je 100 m
R = 0.683
Mittel 216.1 [mm]

WEREX IV ; EO-HAMS; A2 ; MIUet; 2061_2090; 2091_2100; Niederschlag; mei, Sommer (JJA)

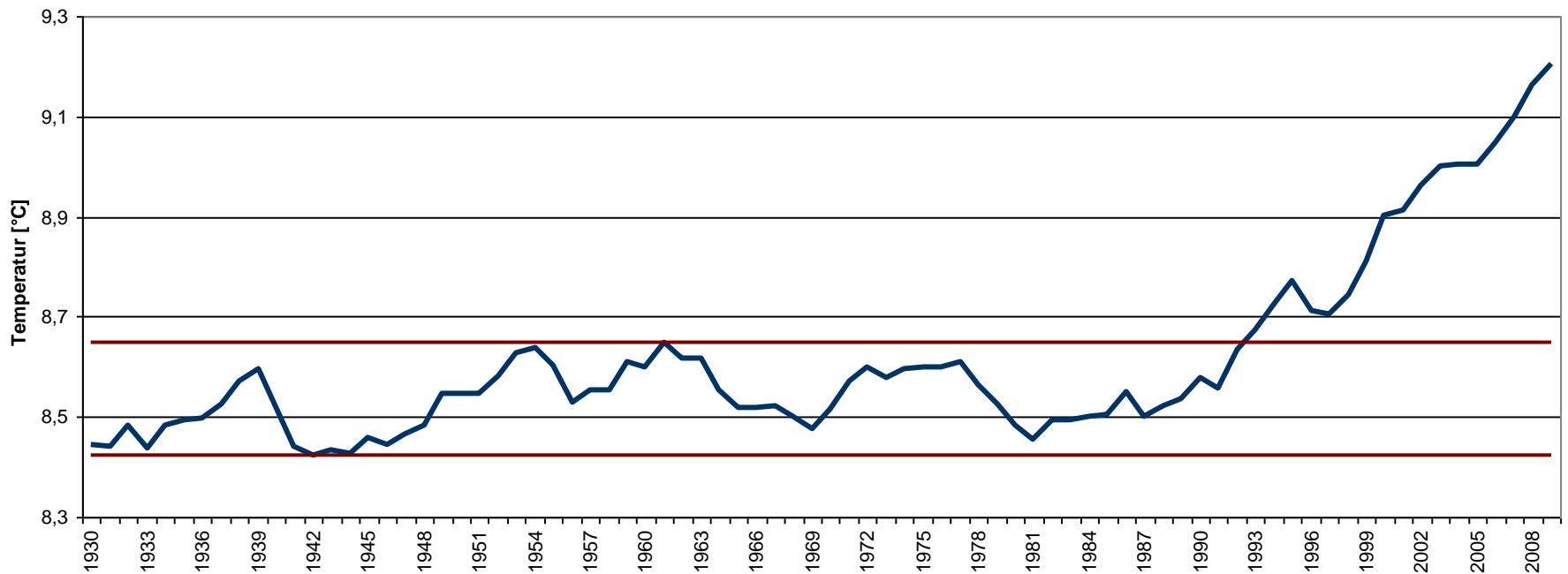


90.0 116 141 167 192 218 243 269 294 320 [mm]
13.43 mm je 100 m
R = 0.700
Mittel 182.9 [mm]

Environmental Protection in Saxony – Climate Protection

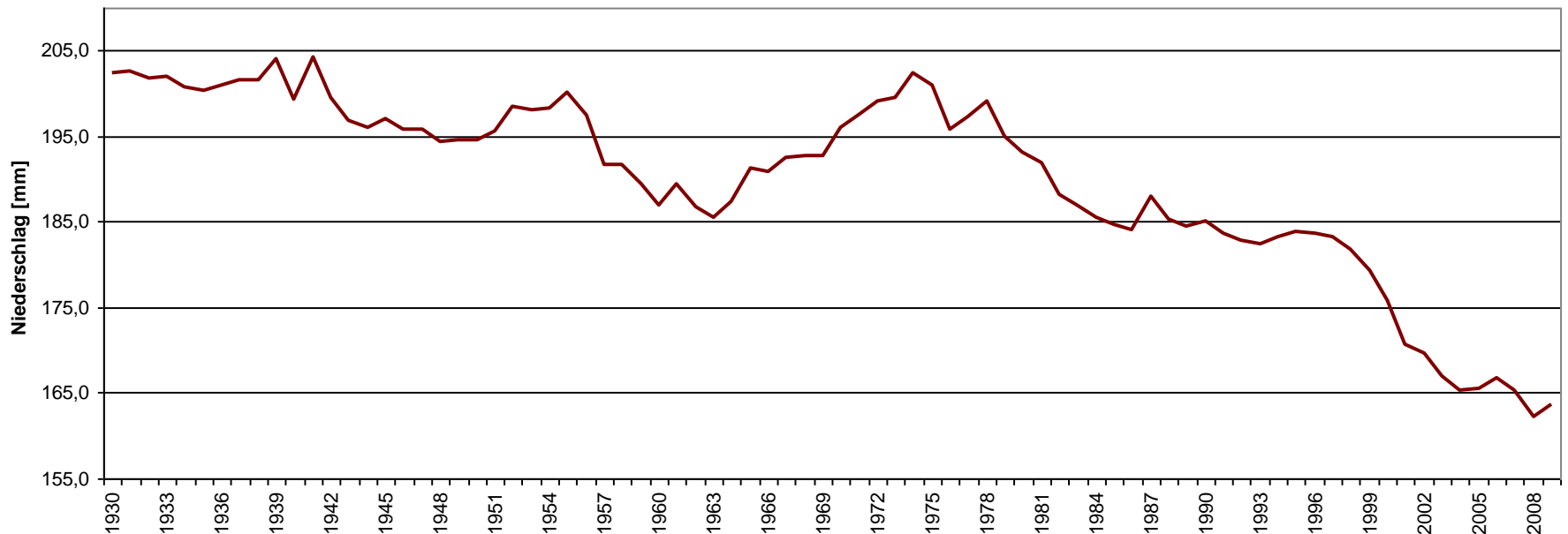
Air Temperature

Entwicklung der Lufttemperatur im Raum Dresden
(Gleitendes 30jähriges Mittel der Perioden 1901-1930 bis 1980-2009)



Environmental Protection in Saxony – Climate Protection Precipitation

Entwicklung des Niederschlages in der Vegetationsperiode 1 (April bis Juni)
Klimareferenzstation Görlitz
(Gleitendes 30jähriges Mittel der Perioden 1901-1930 bis 1980-2009)



Environmental Protection in Saxony – Flood Prevention



Responsibilities of Environmental Administration

- - protection, management and remediation of surface water resources
- - protection, management and remediation of groundwater
- - organization of drinking water supply and wastewater systems
- - remediation of surface- and groundwatersystem after mining
- - flood protection