

Water Resources Management in Georgia

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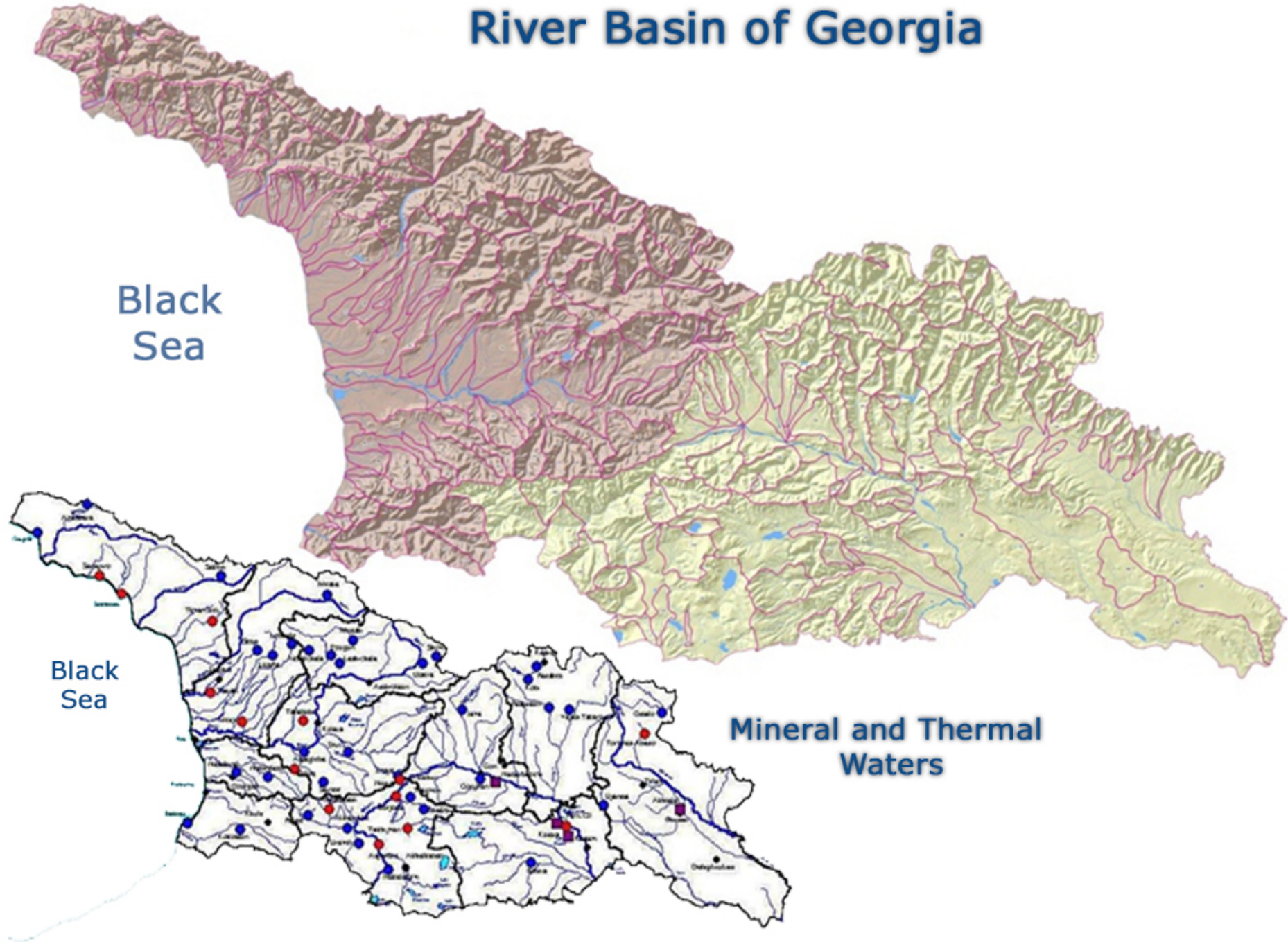
Ministry of Environment
and Natural Resources
Protection of Georgia

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River Basin of Georgia

Black Sea

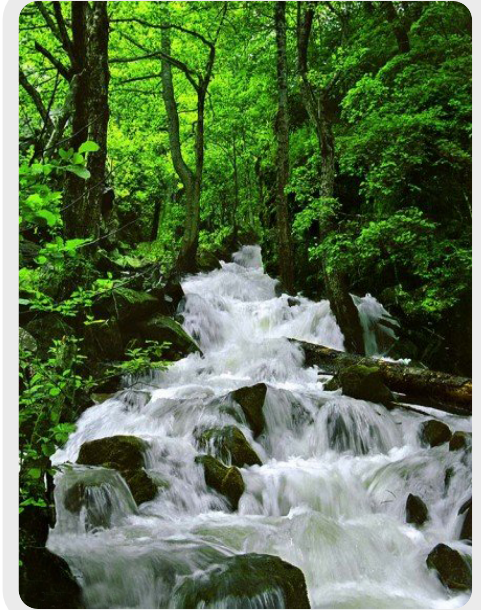
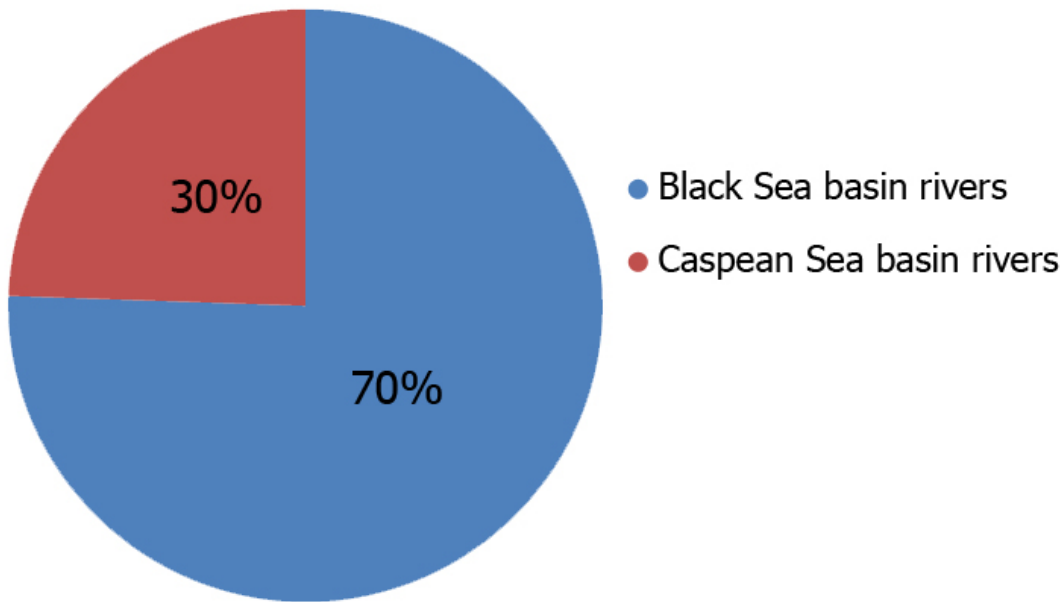


Mineral and Thermal Waters



Water Resources of Georgia

- Over **26000 rivers** - total length is about **60 000 km**.
- 99% of rivers are short (less than 25 km long).
- Water resources are however distributed unevenly, being predominately located in the west.





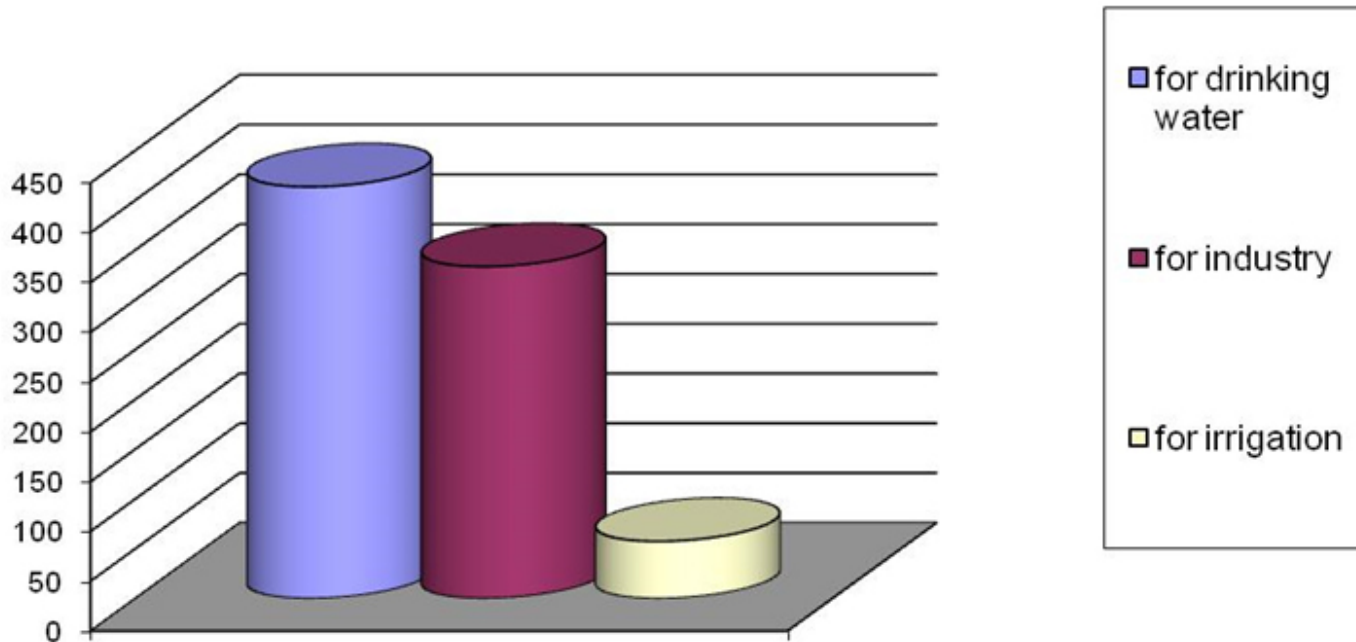
Water Resources of Georgia

- About **860 lakes**;
- **43 reservoirs** created for hydro energy, irrigation and drinking purposes;
- **Wetlands** cover about **630 km²**;
- About **730 Glaciers** accumulate **30 billion cubic meters** of ice;
- Natural supply of fresh **Ground Water** - about **18000 million m³**;
- The whole observed supplies of water for consumption - about **10600 million m³**;
- More than **1000 sources of Mineral Water**;
- About **250 sources of Thermal Water**.





Water Use



Water use in total 29756 mln.m³

- **Hydropower - 28952 mln.m³ (97%)**
- **Drinking water supply - 414 mln.m³**
- **Industry - 333 mln.m³**
- **Irrigation - 57 mln.m³**



Main Problems of Surface Water

Main problem is pollution of water

Main polluters:

- Municipal wastewater – 67%
- Thermal Power stations – 31%
- Industry – 2%
- Pollution from the illegal landfills Agricultural lands (non point sources of pollution).

Main pollutants are:

- Nitrogen compounds;
- Biochemical oxygen demand (BOD);
- Suspended Solids.

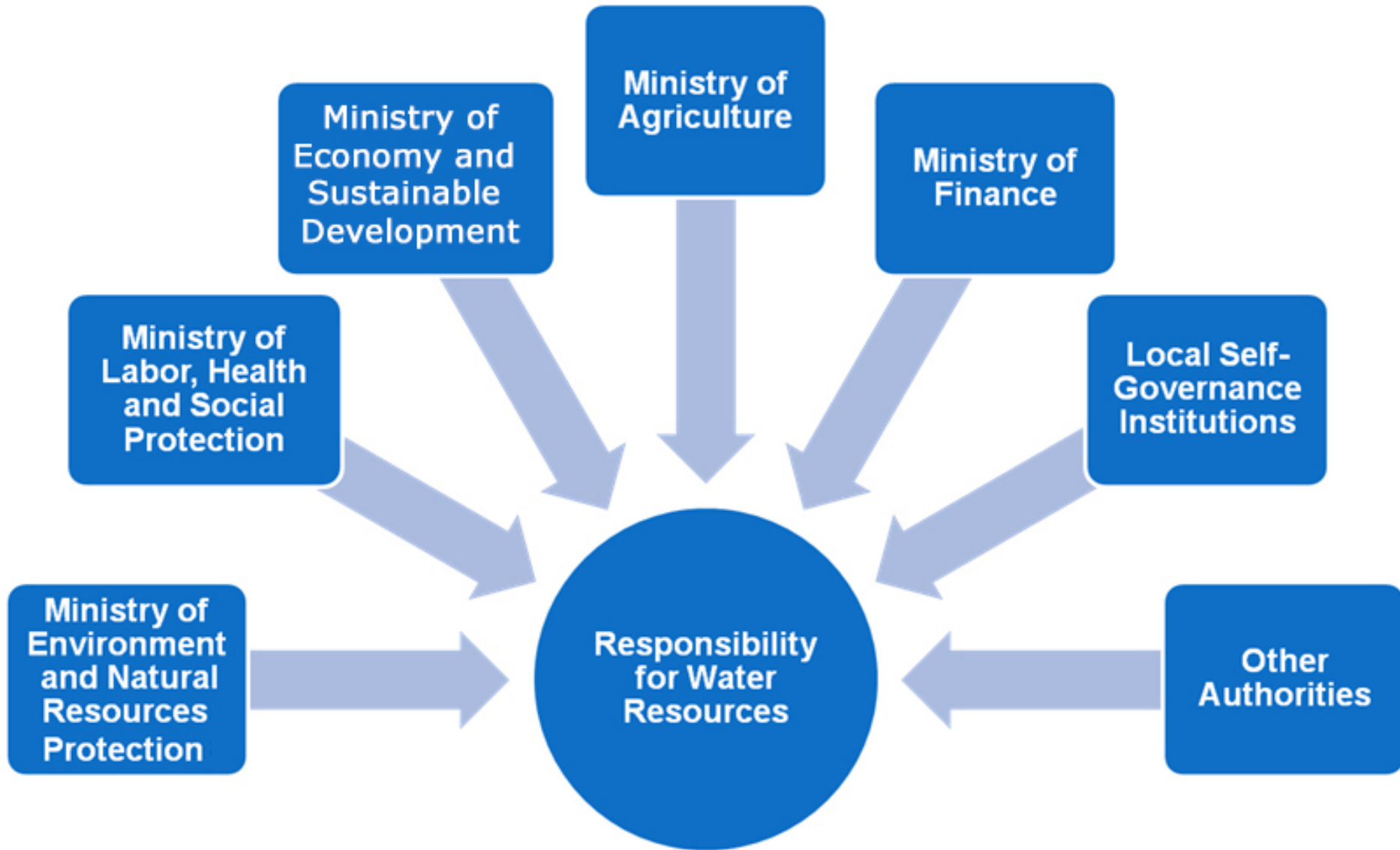
Other Problems:

- High losses of water from municipal water use and irrigation;
- Scarcity (Eastern Georgia);
- Erosion and floods.





Institutional Setting





Institutional Setting



The Ministry of Environment and Natural Resources Protection is a key institution at national level dealing with water-related issues. The Ministry is responsible for the management and protection of water resources, as well as for setting up water monitoring system.



Legal Framework

- Law on Environmental protection;
- Law on Water; (Law on Water Resources Management)
- Law on Environmental Permit;
- Law on Control of Entrepreneurial Activity;
- Law on State Control of Environmental Protection;
- Technical environmental regulations.



EU Directives



EU-Georgia Association Agreement:

- ❖ 2000/60/EC establishing a framework for Community action in the field of water policy; (EU Water Framework Directive)
- ❖ 2007/60/EC on the assessment and management of flood risks;
- ❖ 91/271/EEC on urban waste water treatment;
- ❖ 98/83/EC on quality of water intended for human consumption;
- ❖ 91/676/EC concerning the protection of waters against pollution caused by nitrates from agricultural sources;

EU - Georgia

Association Agreement





**Teşekkür
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Thank you**

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