

Daira Sabz

Consulting &
Engineering Group



Disaster Risk Reduction and Management



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Disaster Risk Reduction and Management (DRRM)

At Daira Sabz Consulting and Engineering Group, we deliver innovative and multidisciplinary Disaster Risk Reduction and Management (DRRM) solutions to help governments, development agencies, humanitarian organizations, and private sector actors build resilience, reduce vulnerabilities, and ensure rapid, coordinated response to disasters.

Operating from our offices in Germany and Afghanistan, and through our global partnerships, we integrate climate change adaptation, environmental sustainability, and community-based disaster risk governance to ensure inclusive and impact-driven solutions.



Our services adhere to:

- UNDRR Sendai Framework for Disaster Risk Reduction 2015–2030
- EU Civil Protection Mechanism
- German Federal Office of Civil Protection and Disaster Assistance (BBK)
- THW (Technisches Hilfswerk) methodologies
- ISO 22301 (Business Continuity), ISO 14090 (Climate Adaptation), and Afghanistan NEPA and ANDMA Guidelines



Our DRRM Services

1. Multi-Hazard Risk Assessment and Mapping

- Comprehensive hazard, exposure, and vulnerability mapping using GIS, LiDAR, and remote sensing
- Climate-sensitive risk modeling (e.g., flood, drought, earthquake, landslides, wildfire)
- Community-level risk profiling aligned with IPCC and GFDRR methodologies

2. Early Warning Systems (EWS) and Emergency Preparedness

- Design and implementation of Multi-Hazard Early Warning Systems (MHEWS)
- Integration of IoT-based sensors, telemetry stations, and satellite data
- Mobile-based and multilingual alert systems (SMS, apps, radio)
- Strengthening national and local preparedness plans and communication protocols

3. Predictive Risk Intelligence and Scenario Modelling

- AI/ML-powered disaster forecasting and impact modeling
- Web-based dashboards for national risk observatories and crisis centers
- Use of decision-support systems (DSS) for scenario planning and logistics simulation

4. Climate and Disaster-Resilient Infrastructure

- Design of resilient rural/urban infrastructure (roads, bridges, schools, health centers)
- Nature-Based Solutions (NbS): urban green buffers, floodplains, reforestation, soil stabilization
- Ecosystem-based disaster risk reduction (Eco-DRR)

5. Community-Based Disaster Risk Management (CBDRM)

- Participatory vulnerability assessments and community hazard mapping
- Formation and training of Community Emergency Response Teams (CERTs)
- Awareness campaigns, public education, and inclusion of women, youth, and persons with disabilities

6. Emergency and Contingency Planning

- National and local-level contingency plans and Standard Operating Procedures (SOPs)
- Logistics chain analysis and emergency supply mapping
- Evacuation route design and shelter site planning

7. Training, Drills, and Capacity Building

- Simulation-based trainings for first responders, municipalities, and NGOs
- Multi-agency disaster response exercises (table-top and full-scale)
- Custom curricula development for civil protection, DRR, and crisis communication



8. Policy, Governance, and Mainstreaming DRR

- Technical assistance for DRR policy drafting and legislation
- Budgeting and financial risk transfer mechanisms (e.g., insurance, resilience bonds)
- Integrating DRR into spatial planning, education, agriculture, and water management sectors

Cross-Cutting Expertise

- Disaster risk financing and insurance advisory
- Business Continuity and Recovery Planning (ISO 22301)
- Health Emergency Preparedness (pandemic, disease outbreaks)
- Post-Disaster Needs Assessments (PDNA)
- Safeguards compliance with IFC, World Bank, UNDP, and EU Commission standards

Why Choose Daira Sabz?

- Multi-hazard expertise with local insight and global technical capacity
- Compliance with international, regional, and national DRR standards
- Field-tested tools and scalable models applicable in urban and fragile contexts
- End-to-end delivery: from risk diagnostics to infrastructure resilience and recovery

🌍 Whether you're a government institution, development agency, or private actor, we help you turn risk into resilience, while meeting your climate, ESG, and humanitarian mandates.



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