



Geoinformatics & Water Resource

UIZ Umwelt und Informationstechnologie Zentrum



UIZ

UIZ is a technical research based company with international access, approach and support with highest level of creative strategic planning and service for new technology. We propose to provide high quality of Consulting, Remote Sensing, Geographic Information System (GIS), Environment and Water Resources.

Our extensive knowledge, consistent deployment of state-of-art technologies, and our dedicated Research and Development (R&D) team are all factors that have turned UIZ into a high-performing company with numerous activities in Germany and abroad.

For more info visit www.uizentrum.de

OUR VISION

Quality professional, development, support, management and allied services to clients through our innovation, identification, development, implementation and handover of practical solutions.

OUR STRENGTH

A multi-talented international team, constituted by senior consultant, professionals and scientist in the field of Cartography, Geodesy, Geographic Information Systems, Photogrammetry, Remote Sensing, Web Mapping, Hydrology, Geology and Civil Engineering.

GOAL

Achieve sustained organizational success in terms of growth and sustainability goals through scientific and business vision, mission, values, strategy, structure and operating system and process of:

“Innovating, Researching & Developing” service opportunities in chosen areas independently and with strategic partnerships;

“Implementing & bringing to society” service contracts efficiently and effectively to due satisfaction of clients, funding partners’ requirements as well as social needs.

“Knowledge and Skills transfer”, i.e., exchange of skills, sharing knowledge among developed and developing worlds.

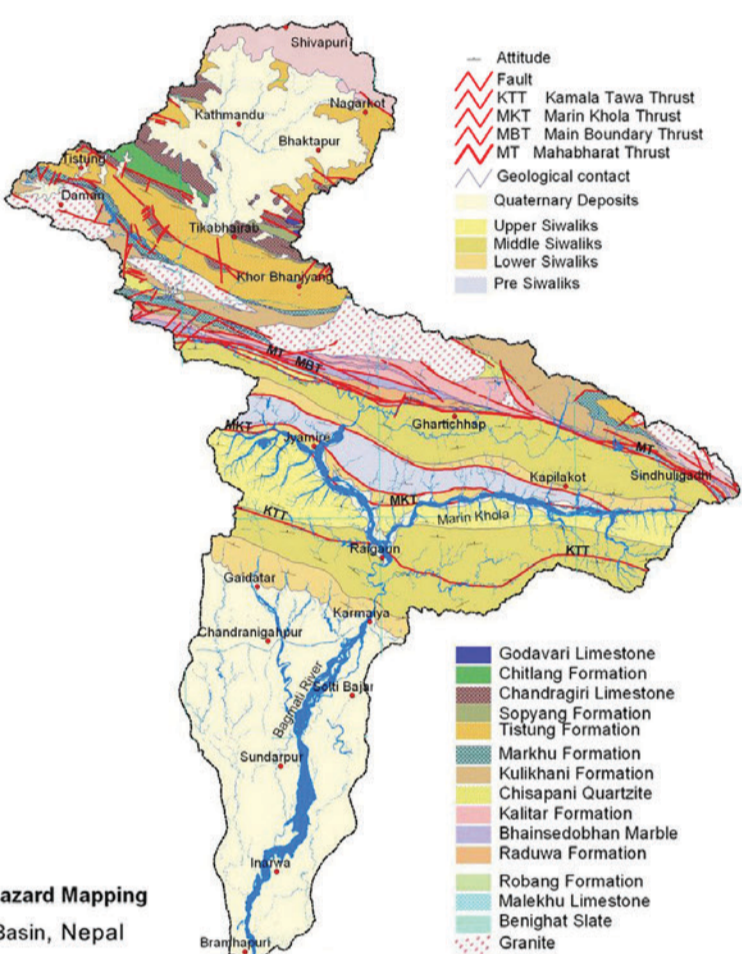


GIS Services /01

UIZ provides GIS Consulting, GIS Data conversions, GIS Mapping, WebGIS, Application Development, GeoMedia, Geomarketing, Training and Support. Our GIS service analyses spatial relationships, visualization of geographic data and efficient data management.

We capture, store, manipulate, analyse, manage, and present all types of spatial or geographical data. By integrating GIS with Computer Aided Design (CAD) and Global Positioning Systems (GPS), using high-end GIS Mapping and GIS data conversions software, our GIS services team assists our customers’ needs for host industries such as mining, utility sector, agriculture and town planning.

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Remote Sensing Services /02

UIZ serves for accurate and cost-effective data collection that proves to be an important input for planning, designing and management of mapping projects. Our remote sensing service includes classification, image correction, image enhancement, image processing, and change detection services.

UIZ Remote sensing services includes in the following verticals:

- Satellite Imagery Interpretation and Classification
- Classification-supervised and unsupervised
- Change detection
- Slope aspect analysis
- Land cover classification
- Coastal ecosystem management
- Forestry mapping
- Agricultural mapping
- Mining and Geology mapping
- Environmental impact assessment mapping
- Clutter data for Wireless telecommunication mapping for RF planning
- Watershed management

Outsourcing Projects

Remote sensing and GIS project cost is usually the primary driver in most business decisions. In addition to purchasing software and hardware, there is a significant training cost associated. UIZ services are ideal for corporations that want to effectively identify and manage risk across the spectrum of environmental, commercial, and political threats. UIZ can provide start-up guidance and training for organizations willing to establish an internal remote sensing and GIS capability.

Water /03

Water department of UIZ is specialize in provision of products and services for the water – quality, protection and management. Professionals of water team consist of individuals with a wide range of practical expertise in the fields of hydrology, hydrogeology, geochemistry, geology, civil engineering, and botany. UIZ offers consultancy services, high quality advice and value – added services in our areas of expertise:

1. Monitoring and Optimization Services
 - ➔ Flow and level measurement, Water quality monitoring, Hydrometric networks.
2. Hydrometric Analysis
 - ➔ Feasibility and design, Flow gauge ratings, Uncertainty analysis, Data processing and quality analysis.
3. Numerical Modelling
 - ➔ Surface water, Groundwater, Flood Hydrology, Rainfall – run off, Hydraulic and Water resource modeling.
4. Water Resources
 - ➔ Flood risk assessment, Water resource planning, Hydro power, Irrigation, River restoration.

Research and Development /04

Our research contribution aim to integrate environment with information technology crossing disciplinary borders among the natural and commercial sciences and incorporating stakeholders from industry, politics and society.

- ➔ Forest, agriculture and environment
- ➔ Water availability, quality, accessibility and monitoring
- ➔ Water cycle and climate
- ➔ Integrated water resources management



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