SFEWS

Smart Flood Early Warning System

Reducing damages to communities & ecosystems.

Key Features

- Flood Monitoring & Forecasting

- Timely detection of possible flood risks and floods

- Tailored solution that can be integrated with any existing systems/ solutions.

- Smart relief efforts management

- Generating warning upto 24 hours in advance

About SFEWS

SFEWS strengthens the overall flood management by enabling preparedness, response and recovery.

- It mitigates the damage resulting from floods by minimizing the human fatalities, injuries and health risks as well as infrastructure damage.
- It reduces costs related to post-flood rehabilitation and rebuilding
- It improves network connectivity within and between local communities

Since the S-FEWS predicts and communicates the warning of expected floods, this can timely notify the gated dam for water release.
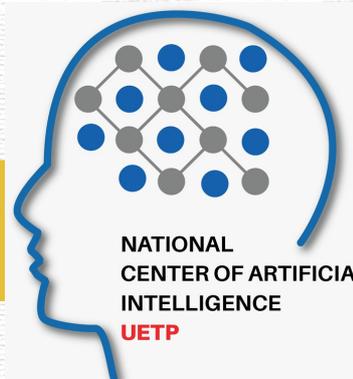
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How It Works

- **Installation of IoT based sensors at sources and sinks.**
- **Configuration of flow monitoring sensors on servers.**
- **Real-time data collection.**
- **Data analytics prediction & forecasting enabled.**
- **Water flow maps generated.**

"Request a meeting. Call our friendly sales team now!"

District Wise Monsoon Hazards Vulnerability Matrix – KP

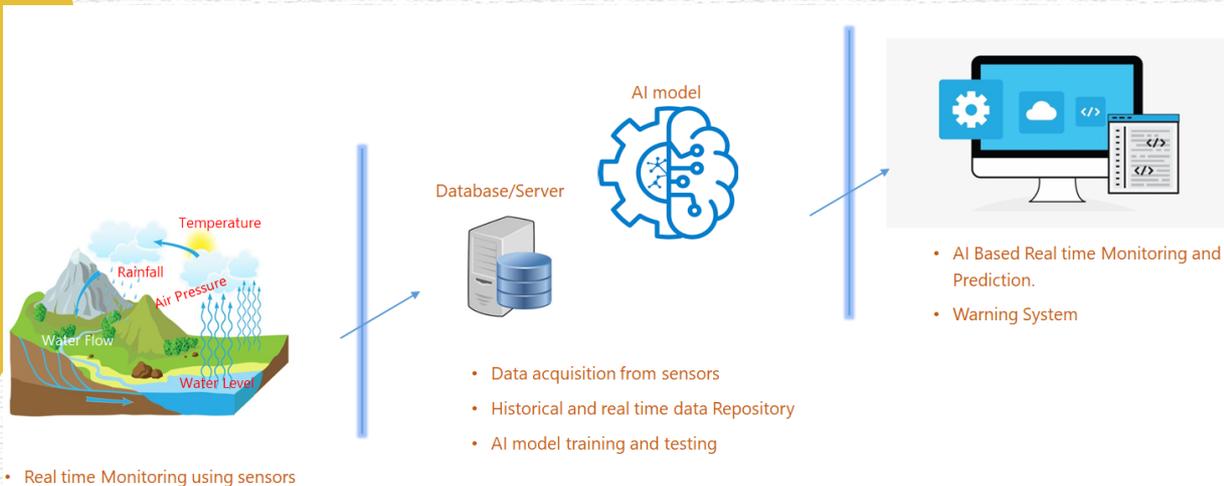| District	Flood Hazard	Riverine Flood	Flash Flood	Urban Flood	Landslide
Charsadda	Very High	Yes	No	No	No
Dera Ismail Khan	Very High	Yes	Yes	Yes	No
Peshawar	Very High	Yes	No	Yes	No
Shangla	Very High	Yes	Yes	No	Yes
Upper Kohistan	High	Yes	Yes	No	Yes
Lower Kohistan	High	Yes	Yes	No	Yes
Nowshera	High	Yes	Yes	Yes	Yes
Swat	High	Yes	Yes	No	Yes
Tank	High	Yes	Yes	No	No
Upper Dir	High	Yes	Yes	No	Yes
Buner	Medium	No	Yes	No	Yes
Chitral	Medium	Yes	Yes	No	Yes
Lower Dir	Medium	Yes	Yes	No	Yes
Malakand Pa	Medium	Yes	Yes	No	Yes
Mansehra	Medium	Yes	Yes	No	Yes
Torghar	Medium	Yes	Yes	No	Yes
Mardan	Medium	Yes	No	Yes	No
Swabi	Medium	Yes	Yes	No	Yes

Accuracy above 95%

In our Smart Flood Early Warning System, the following elements co-exist in order to be effective.
1. Risk knowledge
2. Monitoring and warning service
3. Dissemination and communication
4. Response capability

Our AI based module uses historical data to train the model and then use the real-time data to make predictions of the floods.

- Real time Monitoring using sensors
- Data acquisition from sensors
- Historical and real time data Repository
- AI model training and testing
- AI Based Real time Monitoring and Prediction.
- Warning System

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