

# IOT\_PHASE2

## FLOOD MONITORING & EARLY WARNING

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Flood monitoring and early warning systems are essential to mitigate the impact of floods. These systems typically involve:

**1.Data Collection:** Sensors, weather stations, and satellite imagery collect data on rainfall, river levels, soil moisture, and other relevant parameters.

**2.Data Analysis:** Advanced algorithms analyze the collected data to assess the current and potential flood risk.

**3.Warning Generation:** When a potential flood risk is detected, automated warning messages are generated.

**4.Communication:** Warnings are communicated to relevant authorities, emergency services, and the public through various channels, such as sirens, text messages, apps, and social media.

**5.Response Planning:** Authorities and communities can use this information to plan and execute flood response strategies, including evacuations and resource allocation.

**6.Public Awareness:** Raising public awareness about flood risks and preparedness is crucial to ensure that individuals and communities take appropriate actions when warnings are issued.

**7.Continuous Monitoring:** These systems operate 24/7, continually monitoring conditions to provide timely warnings.

Investing in these systems helps save lives and reduce property damage during flood events.