FLOOD MONITORNING AND EARLY WARNING

PHASE 4

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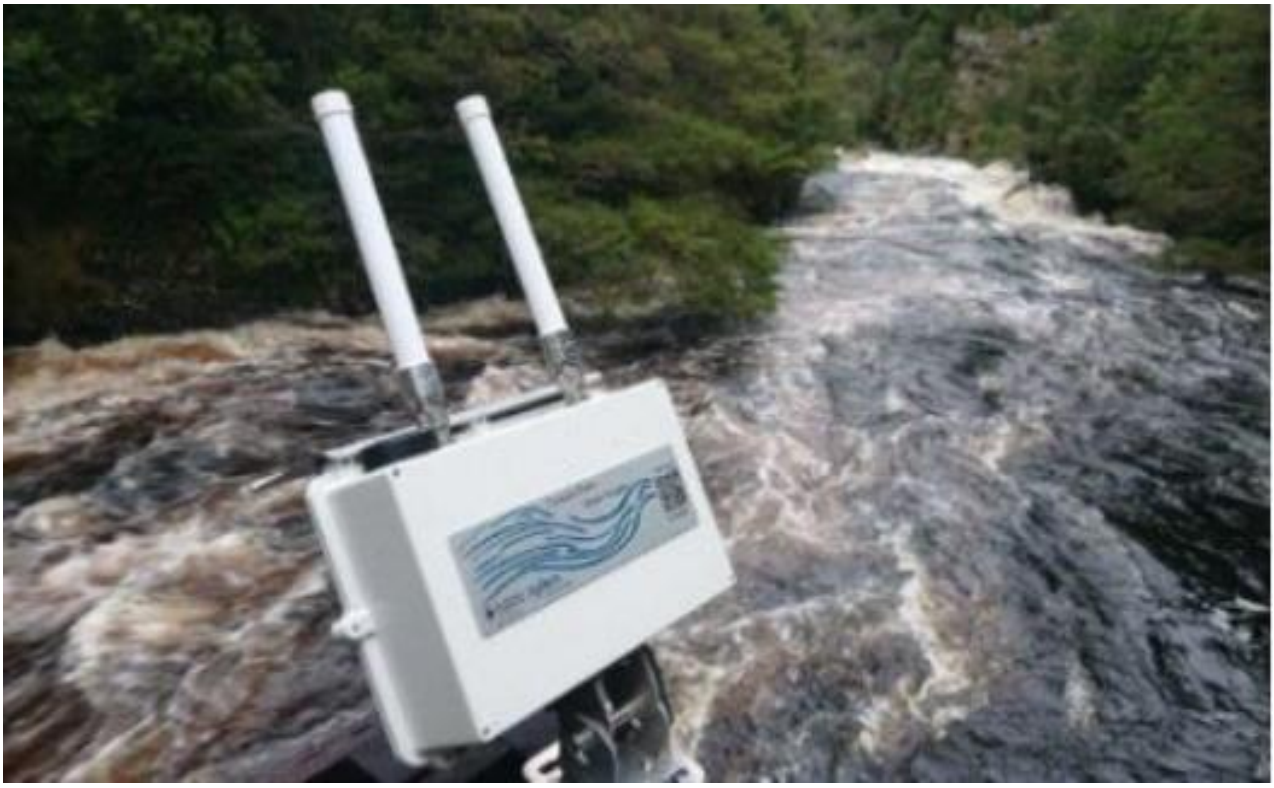

DEFINITION:

Flood Early Warning System (FLEWS) is a system by which flood induced hazards can be minimized and prevented. Currently different organizations are working on flood forecasting and early warning at national, continental and global scale.

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INDICATORS

The flood warning system utilizes computer technology, database technology, communication technology, and sensor technology. Powered by IoT technology, rainfall and water levels are monitored and floods are predicted. Early warning of impending flooding can save lives and reduce extensive property damage.

Early warning systems for floods are an important component of natural disaster risk management strategies. The system uses data from sensors to measure water level surge in local water basins (rivers, lakes) or flood defenses (dikes, dams, embankments) to forecast alerts for a potential flood event.

PURPOSE

Early warning systems for floods are an important component of natural disaster risk management strategies. The system uses data from sensors to measure water level surge in local water

basins (rivers, lakes) or flood defenses (dikes, dams, embankments) to forecast alerts for a potential flood event.

JAVASCRIPT TO DISPLAY THE WATER LEVEL

```
<!DOCTYPE html>
<html>
<head>

 <title>Water Level Monitoring</title>
 <style>
  #water-container {



    width: 200px;
    height: 300px;
    background-color: #3498db;
    position: relative;
  }
  #water-level {
    background-color: #e74c3c;
    position: absolute;
    bottom: 0;
    width: 100%;
  }
```

```
  </style>
</head>
<body>
  <h1>Water Level Monitoring</h1>
  <div id="water-container">
    <div id="water-level" style="height: 50%;"></div>
  </div>
  <p>Current Water Level: <span id="water-level-display">50%</span></p>

  <script>
    // Replace this with the actual data from your IoT sensors
    // The variable 'waterLevel' should be a value between 0 and 100.
    // 0 represents no water, and 100 represents full water level.
    let waterLevel = 50;

    const waterLevelDisplay = document.getElementById('water-level-display');
    const waterLevelElement = document.getElementById('water-level');

    function updateWaterLevel() {
      waterLevelDisplay.textContent = waterLevel + '%';
      waterLevelElement.style.height = waterLevel + '%';
    }

    // Initial update
```

```
    updateWaterLevel();

    // You can update the water level as needed, for example, from IoT data
    // For testing, you can update the waterLevel variable like this:
    // waterLevel = 75;
    // updateWaterLevel();
  </script>
</body>
</html>
```

BENEFITS:

Early warning systems for floods are an important component of natural disaster risk management strategies. The system uses data from sensors to measure water level surge in local water basins (rivers, lakes) or flood defenses (dikes, dams, embankments) to forecast alerts for a potential flood event.

THE SENSOR USED TO ALERT AND DISPLAY:

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