An innovative idea for a flood monitoring system could involve the use of advanced technologies like AI and remote sensing. Here's an idea:

Create a network of autonomous drones equipped with AI-powered image recognition and sensors. These drones could patrol flood-prone areas and monitor water levels, weather conditions, and potential trouble spots. They would constantly analyze data in real-time and communicate it to a central system.

Key features could include:

1. Predictive Analytics: Use historical data and machine learning to predict potential flood risks in advance, allowing authorities to take preventive measures.

2. Rapid Response: The drones can be programmed to respond to sudden changes in water levels, immediately alerting authorities and residents in danger.

3. Communication Hub: Set up a communication hub that relays data from drones to emergency services and local communities, providing real-time updates through mobile apps or emergency alerts.

4. Flood Mapping: Create detailed flood maps using data from drones, helping authorities plan evacuation routes and resource allocation more efficiently.

5. Integration with IoT: Integrate the system with IoT devices like smart flood sensors, which can further enhance data accuracy and provide on-the-ground information.

This comprehensive flood monitoring system would significantly improve early warning capabilities, response times, and ultimately help mitigate the impact of floods on communities.