



Kerala Flood Safe Interactive Map

A district-level flood risk intelligence platform for emergency responders, local authorities, and citizens — built to save lives during Kerala's monsoon season.

EMERGENCY INTELLIGENCE PLATFORM

KERALA DISASTER MANAGEMENT

Platform Overview

What Is Kerala Flood Safe?



Kerala Flood Safe is a real-time, interactive district-level flood risk intelligence platform designed to bridge the critical gap between emergency data and public action during monsoon flooding.

For Responders

Rapid district-level risk assessment and resource deployment intelligence

For Authorities

Centralised command-level visibility across all 14 Kerala districts

For Citizens

Instant access to safety guidance, relief centres, and emergency contacts

District Risk Classification

Kerala's 14 Districts Flood Risk Map

All 14 districts are colour-coded in real time based on flood severity assessments by the Kerala State Disaster Management Authority (KSDMA).

● High Risk

- Alappuzha
- Ernakulam
- Idukki
- Pathanamthitta
- Wayanad

□ Medium Risk

- Thrissur
- Malappuram
- Kozhikode
- Kannur
- Kottayam

□ Low Risk

- Thiruvananthapuram
- Kollam
- Palakkad
- Kasaragod



Risk levels are dynamic and updated based on IMD rainfall data, river gauge readings, and KSDMA situational reports. Always verify with official sources.

Interactive Dashboard

District Information Panel

Selecting any district on the interactive map instantly loads a structured information panel — giving responders and citizens a complete situational picture at a glance.



District Panel — Data Layers

What You See When a District Is Selected

Flood Risk Level

Colour-coded risk status — High, Medium, or Low — with a brief situational summary and last-updated timestamp.

Relief & Evacuation Centres

Geo-tagged list of active camps with capacity, occupancy status, and directions from current location.

Safety Information

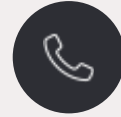
District-specific do's and don'ts, safe zones, and real-time advisories issued by local authorities.

Emergency Contacts

District Collector, Fire & Rescue, NDRF, and local helpline numbers — one-tap dial enabled.

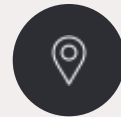
Emergency Features

Critical Response Tools



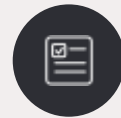
Emergency Helplines

KSDMA: 1070 | NDRF: 9446300600 | Police: 100 | Ambulance: 108



Relief Centres Panel

Live-updated database of government relief camps across all high-risk districts with occupancy tracking.



Preparedness Checklist

Downloadable pre-monsoon checklist for households, covering supplies, documentation, and evacuation planning.

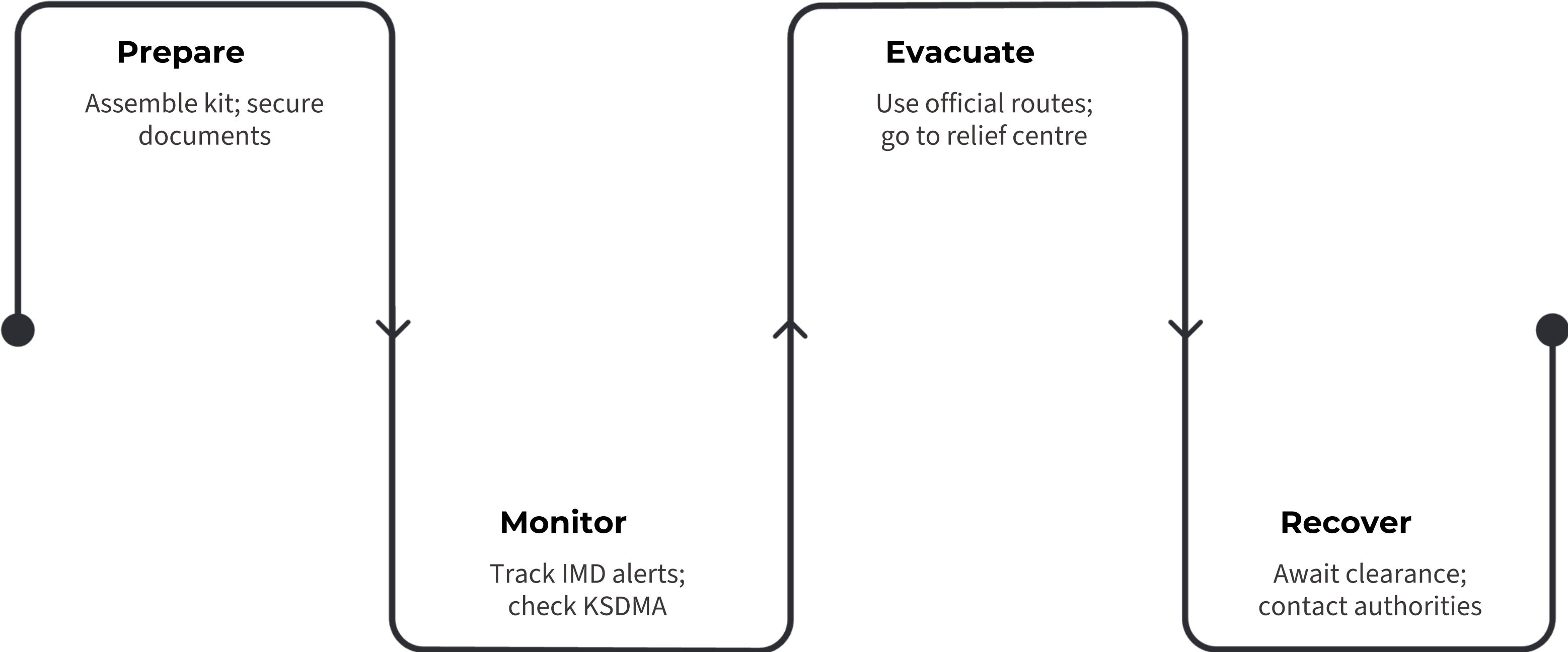


Disaster Awareness

Educational resources on flood behaviour, warning signals, and community preparedness protocols.

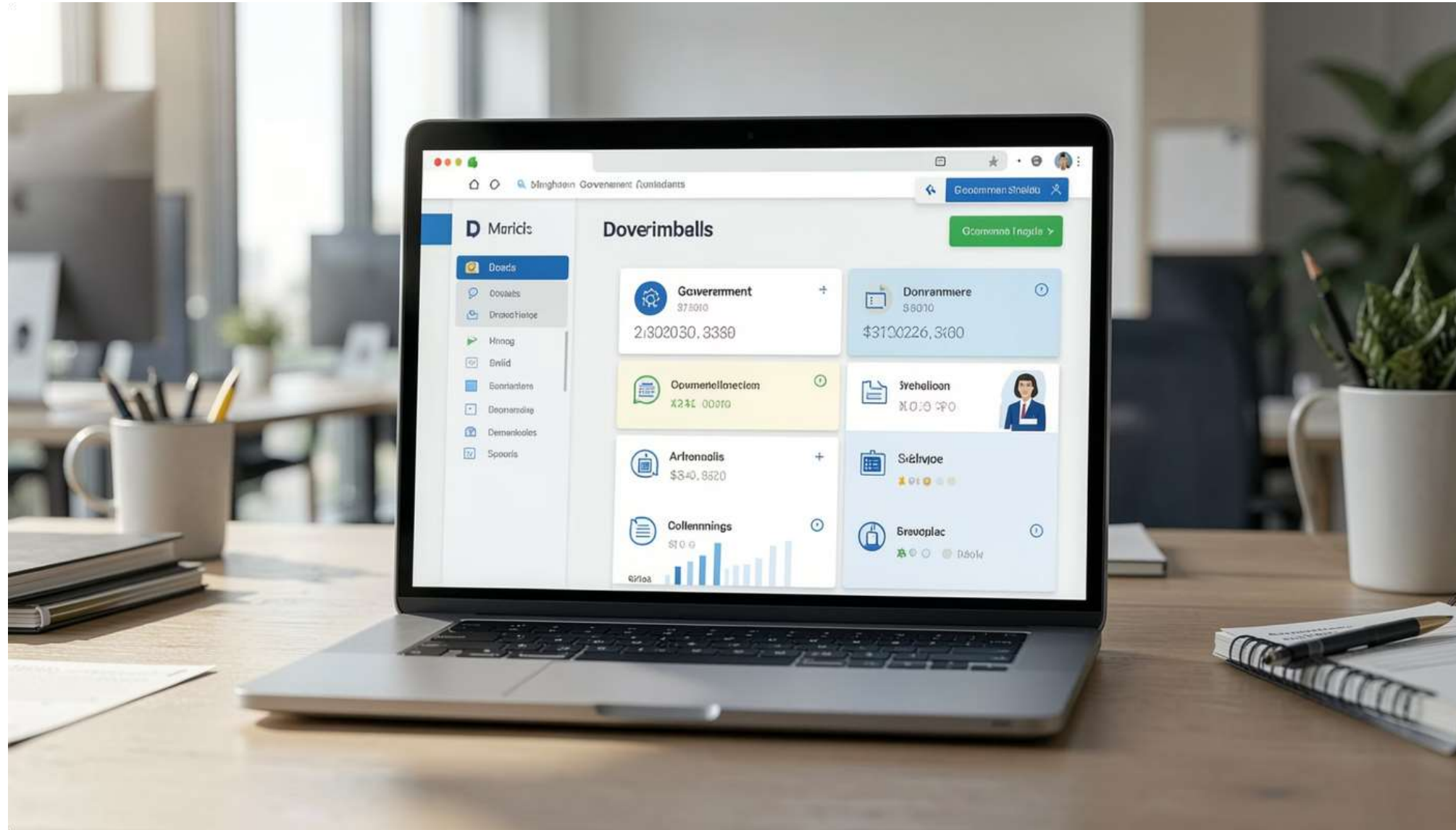


Before the Flood: What Every Household Must Do



Early action saves lives. Households in high-risk zones should complete preparation steps before the onset of the southwest monsoon in June.

Dashboard Design Principles



The platform follows established **emergency-management UI standards** — prioritising clarity, speed, and accessibility under high-stress conditions.

→ Responsive Web Design

Fully functional on mobile, tablet, and desktop — critical for field access during emergencies.

→ High-Contrast Palette

Blue-white-grey emergency colour scheme ensures readability in all lighting conditions.

→ Low-Bandwidth Mode


Designed to function in degraded network conditions common during active flooding.

About This Project

Why Interactive Mapping Changes Everything

Kerala has experienced some of India's most devastating floods in recent memory — 2018, 2019, and 2021 each exposed critical failures in **information access** at the district and community level.

Kerala Flood Safe addresses this directly: by placing geo-referenced, real-time flood intelligence into the hands of every responder and citizen, the platform compresses the time between a flood event and an informed response.

-  Interactive mapping reduces evacuation decision time by enabling citizens to identify the nearest active relief centre without relying on overwhelmed phone lines or delayed broadcasts.

Platform Impact Goals

Faster Evacuation

Route citizens to relief centres in under 60 seconds

Unified Command

One platform for all 14 district emergency coordinators

Public Empowerment

Zero dependence on intermediaries for life-safety information

Kerala Flood Safe

A Resilient Kerala — Prepared, Connected, Protected

Kerala Flood Safe is more than a mapping tool. It is a commitment to **evidence-based emergency governance** — ensuring that no district, no responder, and no family faces a flood without the information they need to act.

KSDMA

Kerala State Disaster Management Authority

NDRF

National Disaster Response Force

IMD

India Meteorological Department

1070

State Emergency Helpline — Available 24/7

