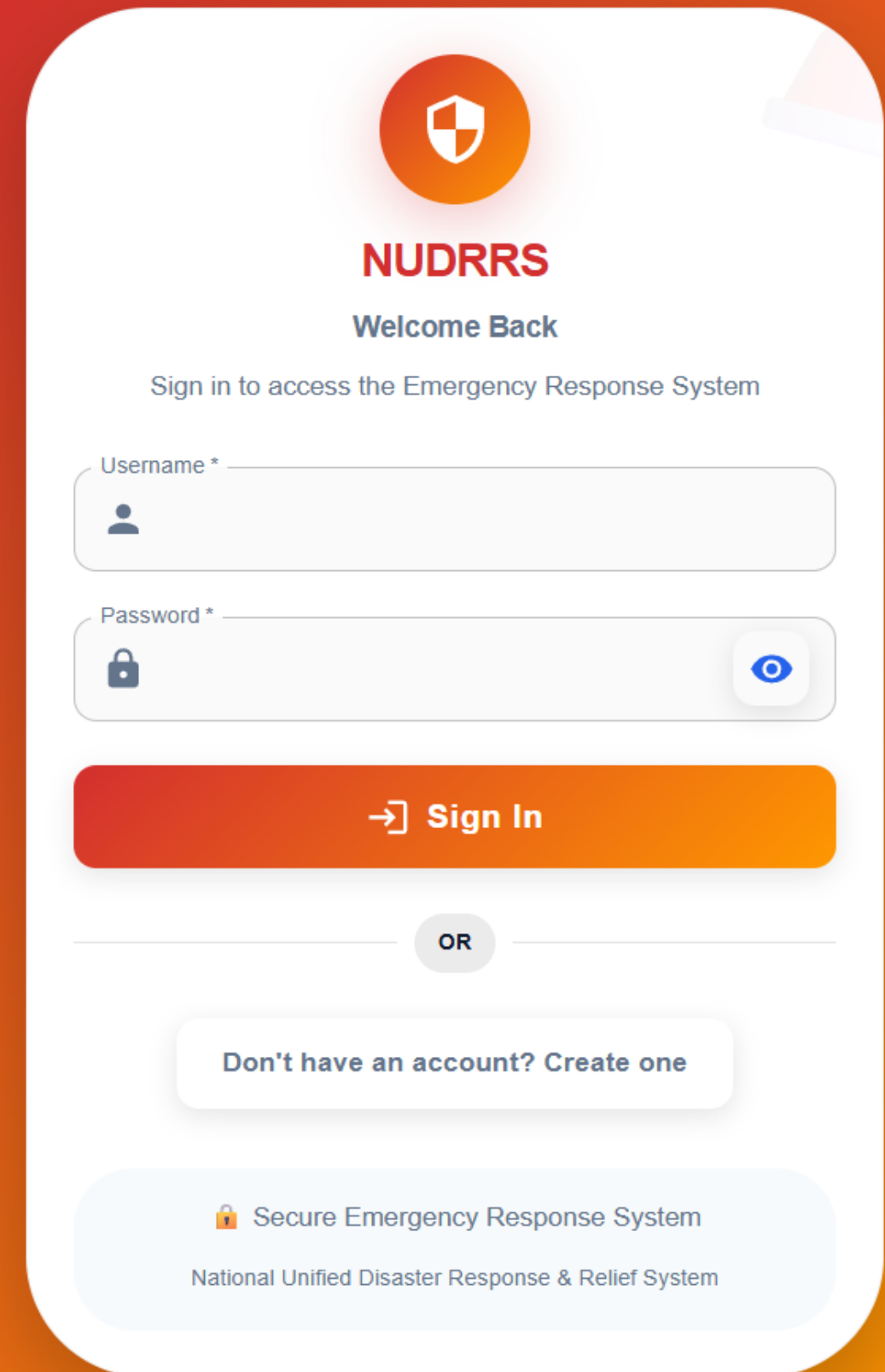


# NUDRRS: National Unified Disaster Response & Relief System


India faces over **300 natural disasters annually**, causing damages exceeding **₹50,000 Crores**. Current emergency response systems suffer from slow response times, manual verification processes, and poor inter-agency coordination.

NUDRRS delivers an **AI-powered emergency response platform** with real-time intelligence capabilities, transforming how India responds to disasters.

Team HackerXHacker | Smart India Hackathon 2025




The image shows a login interface for the NUDRRS system. At the top, there is an orange circular logo with a white shield icon. Below the logo, the text "NUDRRS" is displayed in red, followed by "Welcome Back" in blue. A message "Sign in to access the Emergency Response System" is shown in blue. The login form consists of two input fields: "Username \*" and "Password \*". The "Username \*" field has a person icon on the left. The "Password \*" field has a lock icon on the left and an eye icon on the right. Below the password field is a large orange button with a right arrow icon and the text "Sign In". Below the button is a horizontal line with a circle containing the text "OR" in the center. Below the line is a button with the text "Don't have an account? Create one". At the bottom, there is a light blue box containing a lock icon and the text "Secure Emergency Response System" and "National Unified Disaster Response & Relief System".

  
**NUDRRS**  
Welcome Back

Sign in to access the Emergency Response System


Username \*

Password \*

 Sign In

OR

[Don't have an account? Create one](#)

 Secure Emergency Response System  
National Unified Disaster Response & Relief System

# What is NUDRRS?

An intelligent disaster response platform that revolutionizes emergency management through cutting-edge AI technology and seamless government integration.



## AI-Verified SOS Reporting

95% accuracy in emergency verification with fraud detection capabilities



## Real-Time Disaster Mapping

Live visualization with predictive analytics and risk assessment



## Multi-Channel Alerts

Instant SMS, WhatsApp, and email notifications to stakeholders



## Government Integration

Seamless API integration with existing government systems



## Crowdsourced Intelligence

Citizen reporting network with AI-powered fraud detection

# How NUDRRS Works

Our streamlined emergency response process transforms disaster management through intelligent automation and real-time coordination.



## Citizen Reports Emergency

Mobile app with GPS location tracking and AI-powered description analysis for accurate reporting



## AI Verifies & Analyzes

Advanced AI algorithms achieve 95% verification accuracy in under 3 seconds using multiple data sources



## Automated Dispatch

Real-time alerts sent to authorities with intelligent resource allocation and response coordination

**Key Features:** Voice-to-text emergency reporting, advanced image analysis for damage assessment, predictive risk modeling for proactive response planning

# Technology Stack

Built on enterprise-grade infrastructure designed to handle India's scale and complexity with robust security and seamless integration capabilities.

### Database Layer

PostgreSQL for structured data with Redis for real-time processing and caching

### AI/ML Engine

Google Gemini API integration with YOLO v8 for advanced image recognition and analysis

### Cloud Infrastructure


AWS/GCP deployment with auto-scaling to support 10,000+ concurrent users during peak disasters

### Security Framework

AES-256 encryption, GDPR compliance, and government-grade security protocols

### API Architecture

RESTful APIs designed for seamless integration with existing government systems and databases




NUDRRS National Disaster Response

Emergency Response System


LIVE

10:03:25 AM



3

A



## National Unified Disaster Response System

Real-time coordination for emergency response across India

24/7

Active Monitoring


Connected

### Key Metrics

11

Active Alerts


+12% vs last week



1

People Helped


+8% vs last week



4

Response Teams


100% vs last week



8.2 min

Avg Response Time

-15% vs last week



### Quick Actions

# Revenue Model

Scalable service-based pricing designed to deliver value while ensuring sustainable growth across government and enterprise sectors.

₹5-15

**Per-Report Processing**

Cost per verified emergency report with AI analysis and verification

₹10K-50K

**Analytics Dashboard**

Monthly subscription for real-time analytics and insights per organization

₹2-5L

**State Government License**

Monthly unlimited access for state-level disaster management agencies

₹2-20L

**Custom AI Models**

Specialized AI models tailored for specific disaster types or regional needs

₹1-10L

**Integration Services**

One-time setup plus ₹50K-2L monthly technical support and maintenance

# Market Opportunity

## Massive Growth Potential

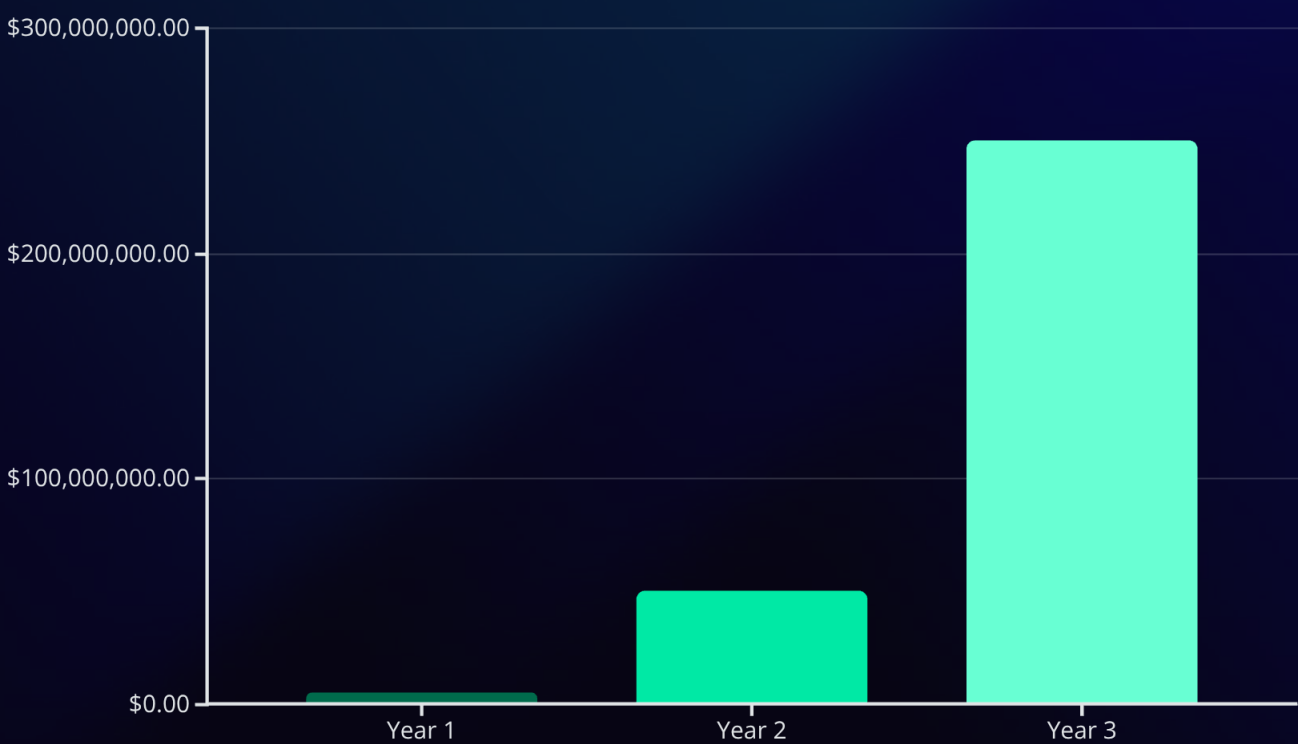
India's disaster management market represents a ₹2,500 Crores annual opportunity with significant growth drivers accelerating adoption.

Target Market Size

28 states × ₹2-5 Lakhs monthly = ₹67-168 Crores potential ARR

Growth Drivers

Accelerating climate change impacts, government digitalization initiatives, and increasing AI adoption



Projected revenue growth from ₹50 Lakhs in Year 1 to ₹25 Crores by Year 3



# Why NUDRRS ?

## AI-First Approach

95% accuracy in emergency verification compared to 60% with traditional manual processes

## Lightning Speed

Under 3 seconds response time versus 15+ minutes with conventional emergency systems

## Cost-Effective Solution

70% reduction in emergency response operational costs through intelligent automation

## Infinite Scalability

Auto-scaling infrastructure handles peak disaster loads without performance degradation

## First-Mover Advantage

India's first comprehensive AI-powered disaster response platform with government integration

# Use Cases & Impact

Real-world applications demonstrating NUDRRS's transformative impact across multiple disaster scenarios and government agencies.



## Flood Response

Real-time flood monitoring with predictive analytics and automated evacuation alerts to at-risk communities



## Earthquake Relief

Immediate structural damage assessment using AI image analysis with intelligent resource allocation



## Fire Department

AI-verified fire incident reports with automatic dispatch and optimal route planning for first responders



## Government Agencies

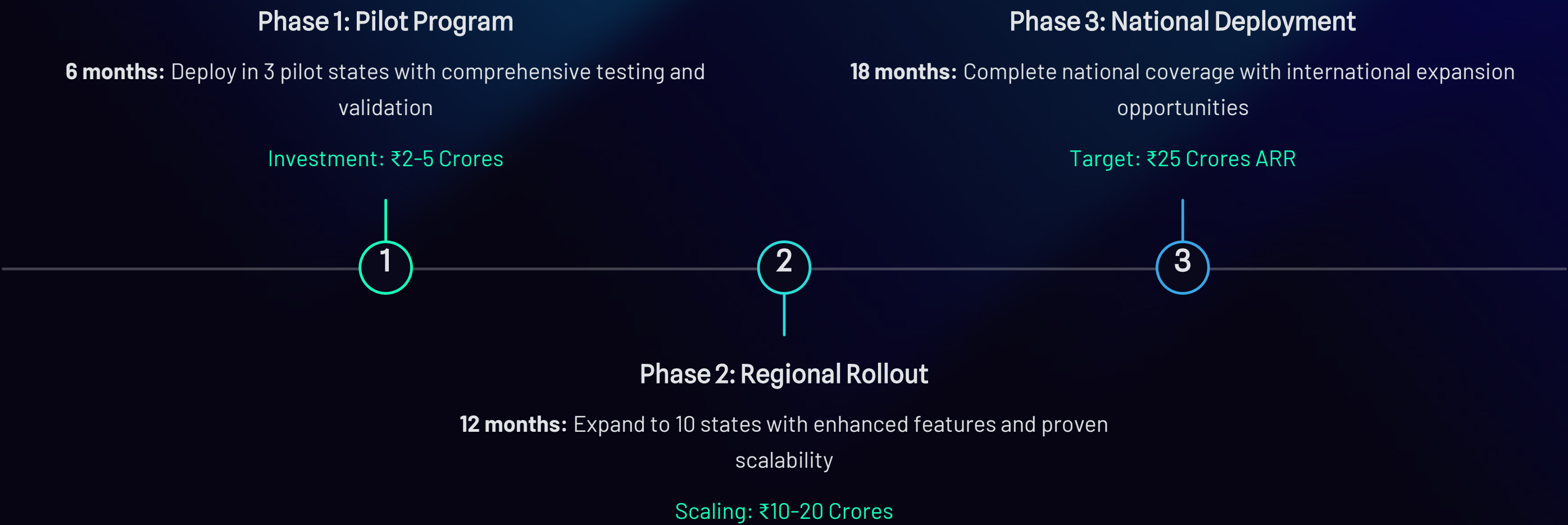
Centralized disaster management dashboard providing real-time situational awareness and coordination

✔ **Measurable Impact:** 85% faster emergency response times, 70% cost reduction in disaster management operations, and most importantly—lives saved through intelligent early warning systems



# Implementation Roadmap

Strategic three-phase deployment ensuring successful adoption, scalability, and sustainable growth across India's diverse disaster management landscape.



**Success Metrics:** Maintain 95% AI accuracy, achieve 70% faster response times, and reach ₹25 Crores Annual Recurring Revenue by Year 3

# Ready to Transform India's Disaster Response?

## Immediate Impact

Save countless lives through faster, more accurate emergency response and early warning systems

## Revenue Potential

₹25 Crores ARR by Year 3 with scalable, sustainable business model

## Market Leadership

Secure first-mover advantage in India's AI-powered disaster management sector

## Government Ready

Purpose-built for compliance, security, and seamless integration with existing systems

## Investment Opportunity

Scalable, profitable, and socially impactful solution addressing critical national infrastructure needs

## Questions & Discussion

Let's discuss how NUDRRS can revolutionize disaster response and save lives across India