

HACKFORGE 2025

RESQNET

Smart Emergency Response System

TRACK OPEN INNOVATION

**PROBLEM
STATEMENT** ENHANCING POST-ACCIDENT
EMERGENCY RESPONSE IN INDIA

TEAM NAME SUDO BANG

THE PROBLEM

Emergency Response Delay

- **Critical Time Gap**

Significant delay between accident report and treatment initiation

- **Fragmented Communication**

Disjointed information flow among citizens, ambulances, and hospitals

- **Incomplete Patient Data**

Lack of readily accessible medical records impedes rapid decision-making

- **Unprepared Facilities**

Hospitals often receive patients unprepared for immediate care

OUR APPROACH

- **Rapid SOS & Dispatch System**

Automatic & manual SOS activation, smart ambulance matching, and real-time navigation

- **Seamless Information Flow**

Direct coordination between patients, paramedics, hospitals & emergency contacts

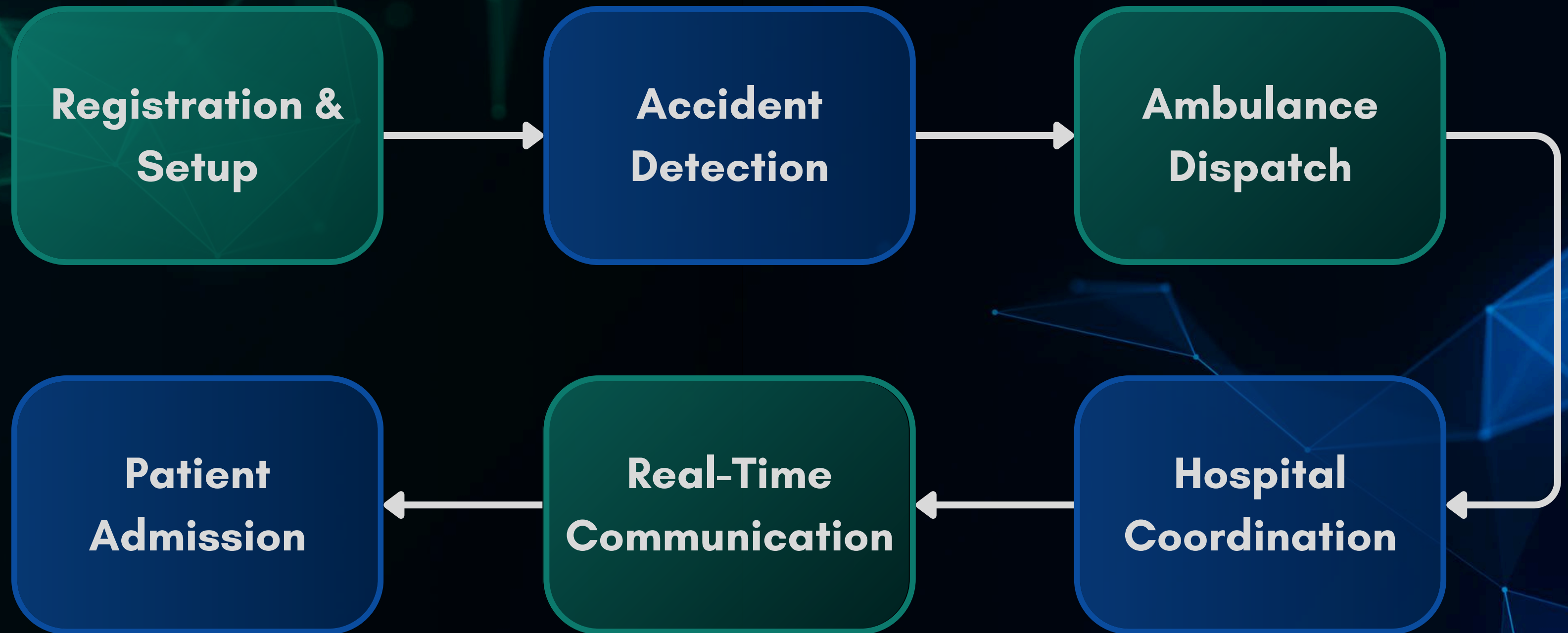
- **Instant Medical Record Access**

Patient records are instantly available to paramedics & hospitals for informed decision-making

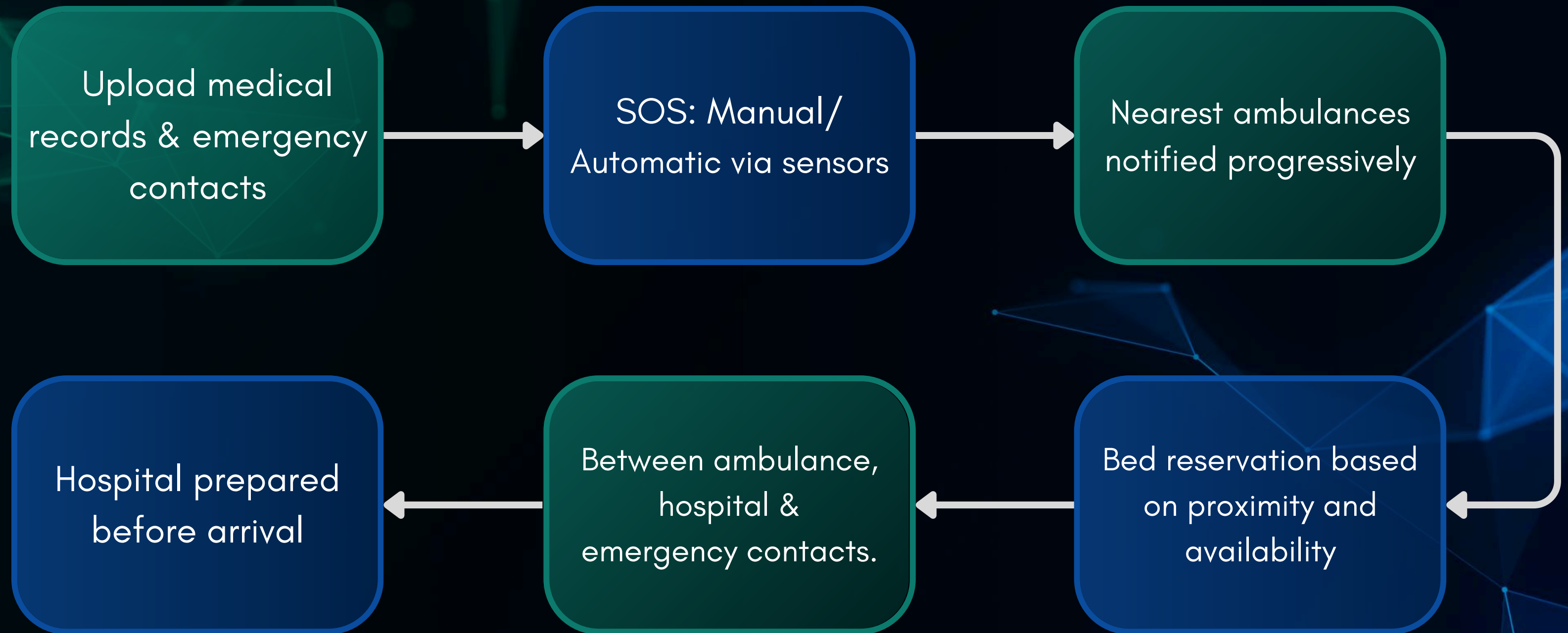
- **Preemptive Hospital Readiness**

Live updates on bed availability & real-time coordination ensure hospitals are prepared before arrival

WORKFLOW (1)



WORKFLOW (2)



WHY RESQNET?

Key improvements over the **standard 108 service**:

- **Automated & Sensor-Based Activation**

108 depends on the caller to provide information, which delays help if the patient is unable to call.

- **Comprehensive Data Sharing & Real-Time Communication**

108 gathers only basic details through a call, which may not provide complete context for emergency responders.

- **Integrated Multi-Stakeholder Coordination**

108 mainly functions as a call-based system with limited cross-communication between patients, emergency contacts, ambulances, and hospitals.

- **Enhanced Hospital Coordination**

108 does not have the same level of pre-arrival hospital integration.

TECH STACK

Frontend: React, React Native, Expo

Backend: Node, Express, MongoDB,
Clerk (auth), WebRTC, Websockets

APIs: Google Maps, Google Location
Services, Google Places, Twilio



RESEARCH & REFERENCES (1)

In July 2022, a seven-month pregnant woman in Madhya Pradesh, died because the **ambulance couldn't reach her** and take her to the hospital on time, reported NDTV.

In November 2022, a man in Telangana was forced to carry his daughter's dead body on a motorbike after a nearby hospital refused to provide an ambulance.

According to Indian government data from 2017, nearly half of all heart attack patients take more than **400 minutes** to reach a hospital – nearly 13 times more than the ideal window of 30 minutes.

Latest National Crime Records Bureau statistics reveal that nearly 24,012 people – victims of conditions ranging from strokes and brain hemorrhage, to accidents – die every day **due to a delay in getting medical help**.

source: <https://unitedsikhs.org/ambulance-service-in-india/>



RESEARCH & REFERENCES (2)

India has one of the highest levels of traffic-related deaths in the world. In 2023, an estimated **1.6 lakh** Indians were killed in road accidents, according to an official report.

It is well established that about **50%** of road crash **deaths** can be **averted** if victims receive definitive medical care within the **first hour**

India's network of ambulance services could play a key role here, but it falls short on several counts. It is disorganised, lacks adequate equipment and trained staff, and has poor regulatory mechanisms.

source:

<https://scroll.in/article/1068217/death-by-delay-revamping-indias-ambulance-services-could-save-lives-lost-to-road-crashes/>





THANK YOU!

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