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EMERGENCY FIRST RESPONDER

TO MOBILIZE RESOURCES OF EMERGENCY SERVICES FOR PUBLIC USE

YEP
THAT SHOULD DO IT
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MemeCenter

BORDER ROADS ORGANISATION
AFTER WHISKY
DRIVING RISKY
21 TF
BRDB

INDIA RANKS THE FOLLOWING FOR CERTAIN ISSUES:

RANK	REASON	DEATH RATE
56th	DUE TO FIRE	4.68
83rd	DUE TO VIOLENCE	5.75
64th	DUE TO ROAD ACCIDENTS	20.74
72nd	DUE TO STROKES	104.39
42nd	DUE TO POISONING	3.47

*AS REPORTED BY WORLDLIFEEXPECTANCY.COM

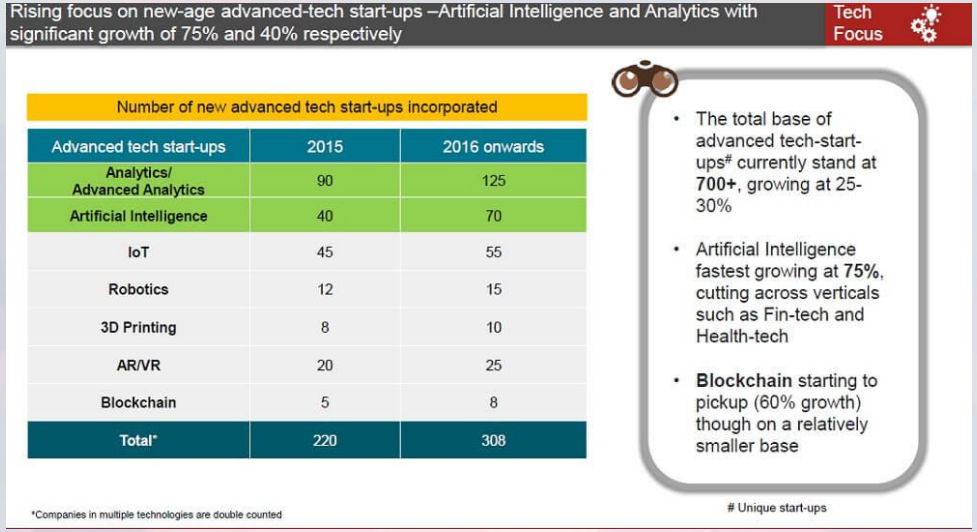
"ROAD SAFETY IS EVERYONE'S RESPONSIBILITY. BECAUSE EVERY FATAL CRASH OR SERIOUS INJURY HAS A LONG-LASTING EFFECT ON THE FAMILY AND FRIENDS LEFT BEHIND. IF YOU SEE AN ACCIDENT, DO STAY CALM AND DON'T DRIVE AWAY. THEN ASK IF SOMEONE HAS CALLED FOR AN AMBULANCE. AND IF NO ONE HAS, DO SO. HELP CHILDREN FIRST." SAYS K K KAPILA, CHAIRMAN, INTERNATIONAL ROAD FEDERATION (IRF), AN ORGANISATION BASED IN GENEVA.

MOTIVATION FOR THE IDEA:

"ACCORDING TO 6WRESEARCH, INDIA UAV MARKET IS PROJECTED TO GROW AT A CAGR OF 18% DURING 2017-23"

"INTERNET PENETRATION IN URBAN INDIA WAS 64.84% IN DECEMBER 2017 AS COMPARED TO 60.6% LAST DECEMBER. IN COMPARISON, RURAL INTERNET PENETRATION HAS GROWN FROM 18% LAST DECEMBER TO 20.26% IN DECEMBER 2017."

ALMOST 47% OF NEW STARTUPS SET UP IN 2017 WERE IN THE B2B SEGMENT, UP FROM 34% LAST YEAR. AMONG THESE, HEALTHTECH AND FINTECH AND B2B ENTERPRISE PRODUCTS WERE THE KEY VERTICALS. AS THE TECH STARTUPS IN INDIA ROSE TO 5,200, THE TOTAL SHARE OF B2B STARTUPS HAS RISEN TO 40% IN THE OVERALL STARTUP BASE.


Rising focus on new-age advanced-tech start-ups –Artificial Intelligence and Analytics with significant growth of 75% and 40% respectively

Tech Focus

Number of new advanced tech start-ups incorporated

Advanced tech start-ups	2015	2016 onwards
Analytics/ Advanced Analytics	90	125
Artificial Intelligence	40	70
IoT	45	55
Robotics	12	15
3D Printing	8	10
AR/VR	20	25
Blockchain	5	8
Total*	220	308

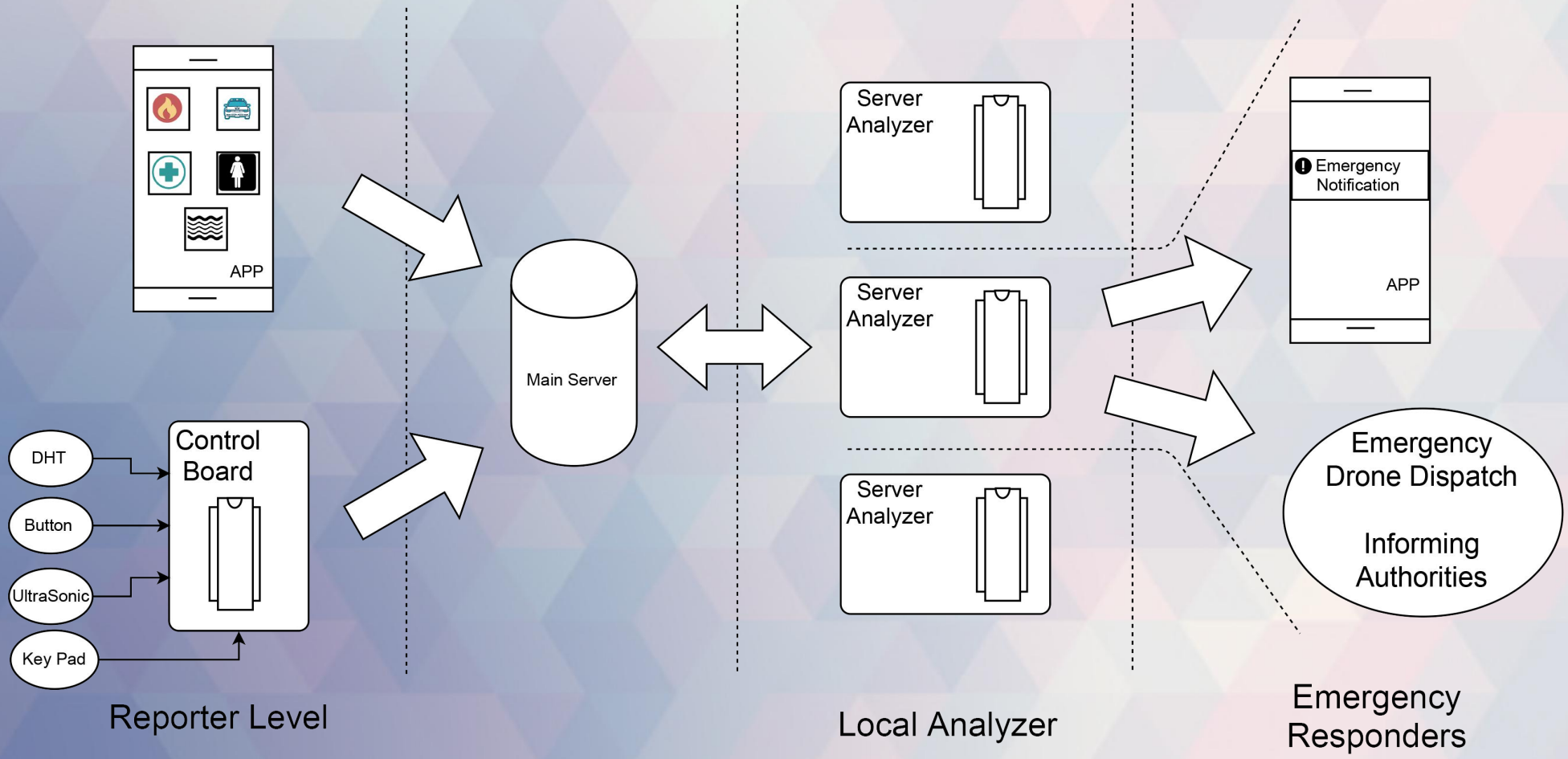
- The total base of advanced tech-start-ups# currently stand at **700+**, growing at 25-30%
- Artificial Intelligence fastest growing at **75%**, cutting across verticals such as Fin-tech and Health-tech
- **Blockchain** starting to pickup (60% growth) though on a relatively smaller base

*Companies in multiple technologies are double counted

Unique start-ups

*NASSCOM-ZINNOV REPORT

THE IDEA:

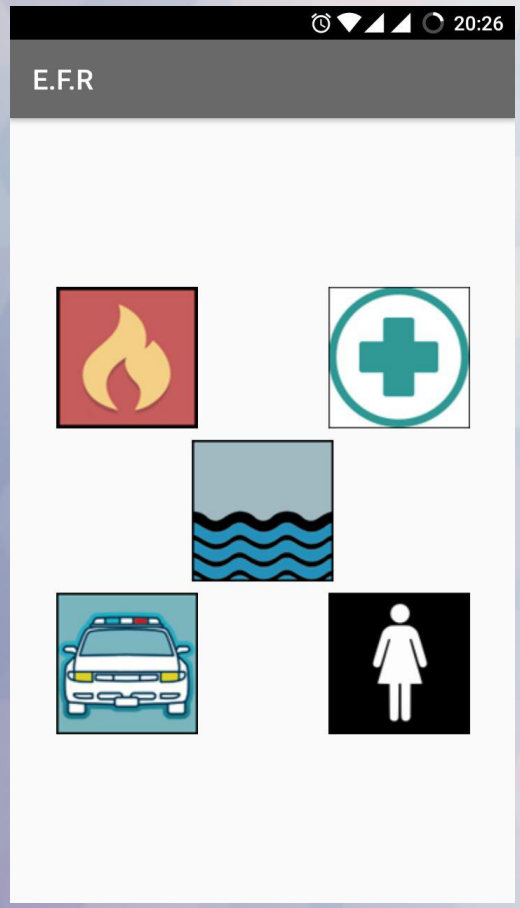

APP
Main Server
Server Analyzer
Server Analyzer
Server Analyzer
Emergency Notification
APP
DHT
Button
UltraSonic
Key Pad
Control Board
Emergency Drone Dispatch
Informing Authorities
Reporter Level
Local Analyzer
Emergency Responders

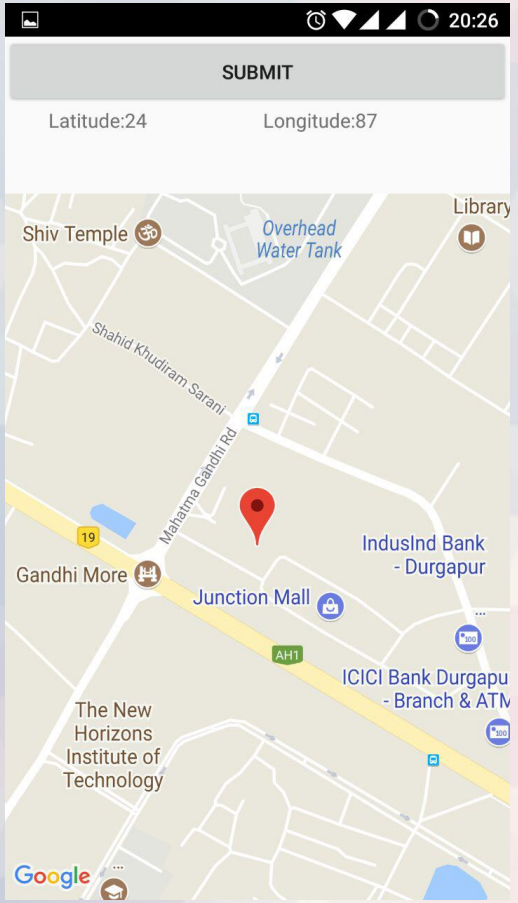
THE EXECUTION. THE APP:

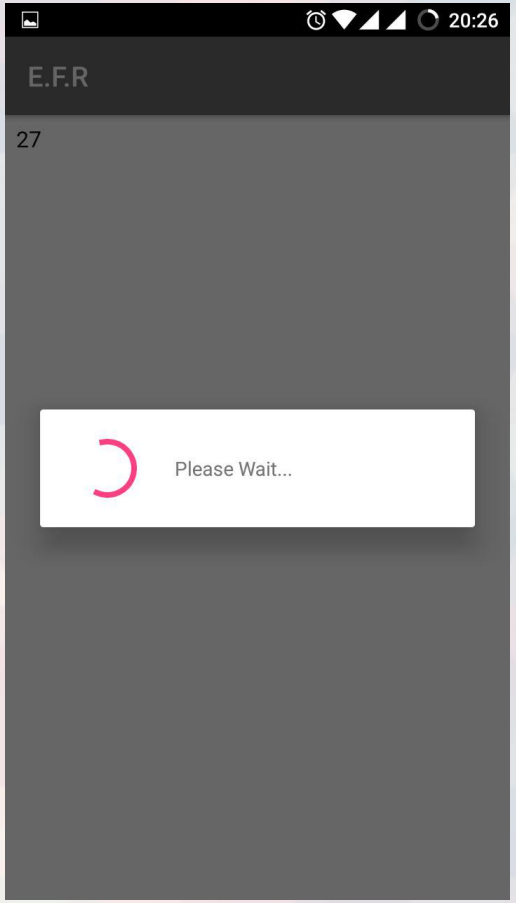
THE PEOPLE WILL BE GIVEN A SERVICE BY THE USE OF THIS " APP" . IT WILL BE RESPONSIBLE FOR SHARING THE PRESENT LOCATION OF THE REPORTER TO THE MAIN SERVER IN A GIVEN FIELD (ONE OF THE 5) . EACH KIND OF EMERGENCY HAS ITS OWN BUTTON .THE REPORTER WOULD ONLY NEED TO CLICK THE APPROPRIATE ONE.

ISSUES MAY BROADLY FIT INTO EMERGENCIES REGARDING:

- FIRE OR FIRE DEPARTMENT
- AMBULANCE OR MEDICAL RESPONDER
- MISC. ISSUES LOCAL TO A REGION
- CRIME/OFFENCE OR POLICE
- CRIMES AGAINST WOMEN



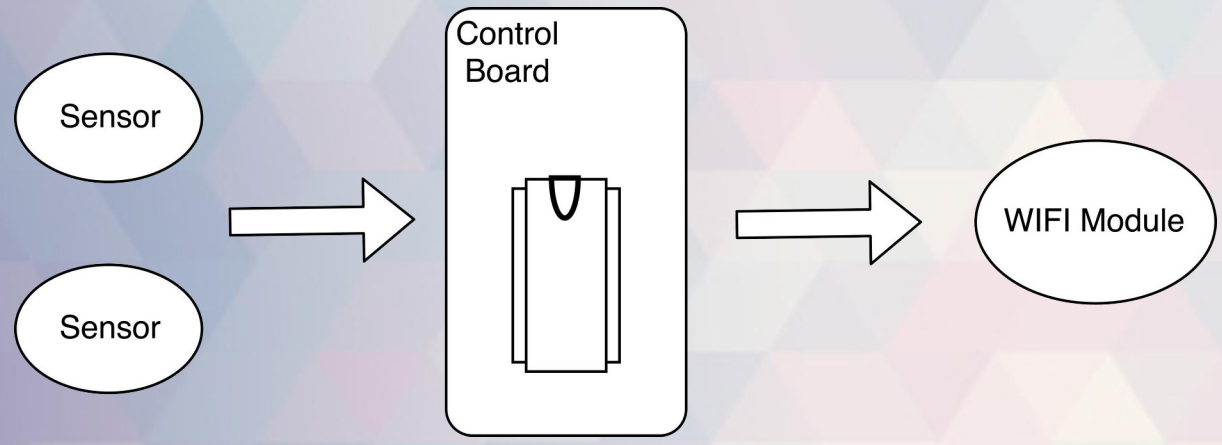




THE EXECUTION. THE HARDWARE:

REPORTER LEVEL:
THE ORGANIZATIONS/INSTITUTIONS WILL USE THIS SERVICE USING A CENTRAL EMERGENCY SYSTEM. IT WOULD REMAIN ONLINE AT LEAST DURING WORK HOURS AND WILL BE CONNECTED TO AUTOMATIC SENSORS AND PHYSICAL BUTTONS WITH THE LOCATION HARDWIRED INTO THE CONTROL SYSTEM. THE PRINCIPLE OF FUNCTION WILL BE SAME. IN CASE OF AN EMERGENCY, THE SENSORS WOULD GO OFF OR THE SWITCHES ARE TURNED ON AND THE LOCATION IS SHARED TO THE APPROPRIATE SERVER.

THIS MAY BE POSSIBLE BY USING INEXPENSIVE AND MICROSIZED HARDWARE LIKE AN ARDUINO MINI AND A WIFI MODULE, OR EVEN SOME SPECIALISED LOW POWER CONTROLLER BOARD. THE DELAY WILL BE MINUTE FOR ANY KIND OF SYSTEM.



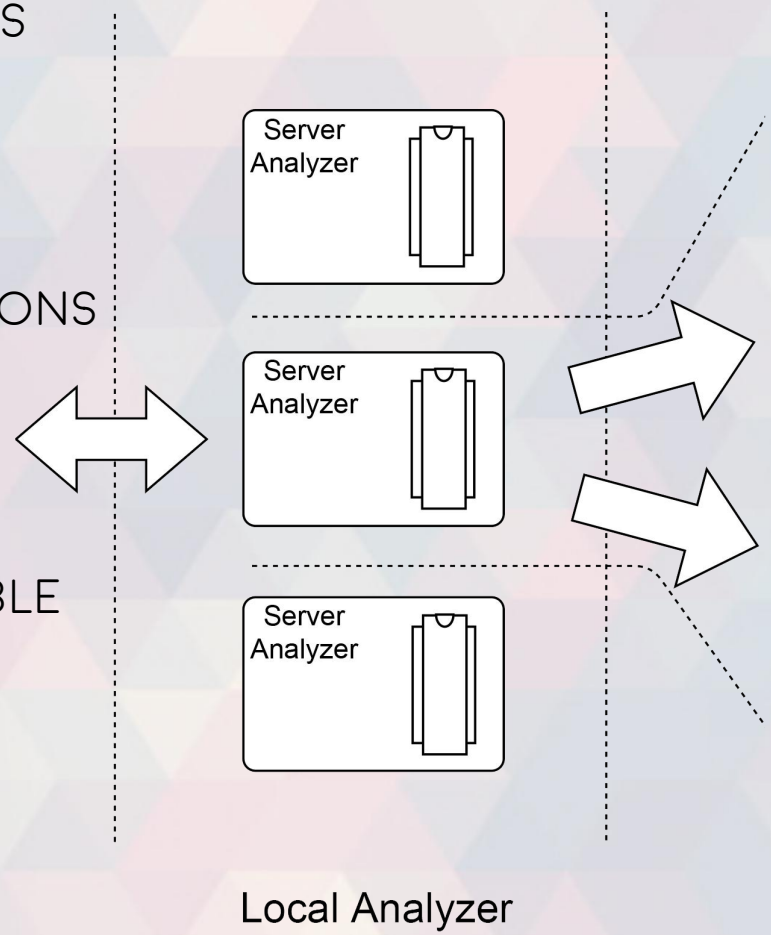
THE EXECUTION. THE HARDWARE:

THE REGIONAL ANALYZER:

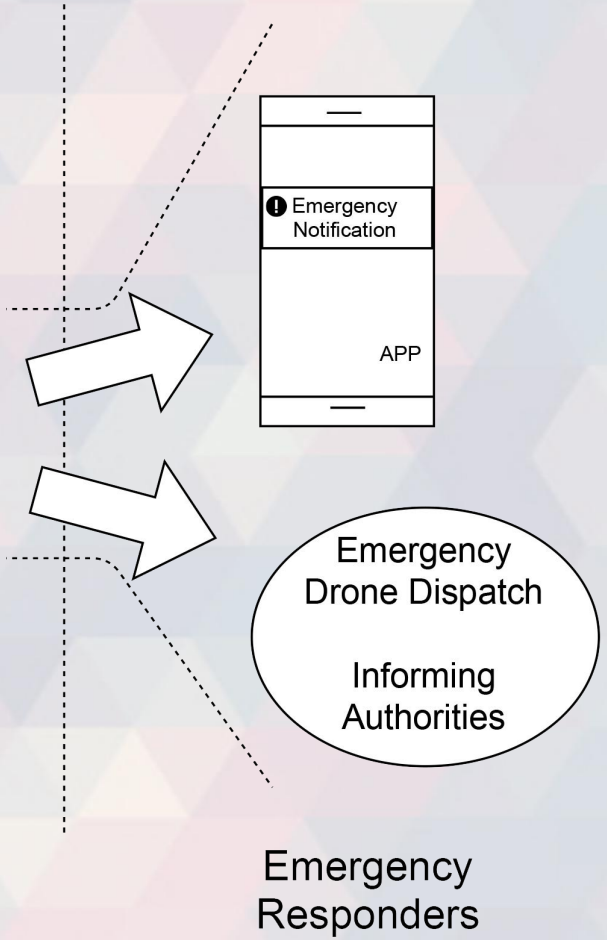
EACH REGIONAL CONTROLLER WILL BE A SET OF SERVER ANALYZERS (HUMAN OR MACHINE) RESPONSIBLE FOR ANALYZING THE SERVER INFORMATION AND CHECKING IF THE LOCATION UPLOADED CORRESPONDS TO THEIR DESIGNATED REGION.

THESE CONTROLLERS WILL BE CONNECTED TO HOTLINE CONNECTIONS TO EACH SUB AND MAIN OFFICES OF EMERGENCY SERVICES AND WOULD BE RESPONSIBLE FOR ALERTING THE CONCERNED TEAM.

APART FROM SERVICES RUSHING TO LOCATIONS, THE REGIONAL CONTROLLER WILL CONTROL AN ARSENAL OF DRONES, RESPONSIBLE FOR GIVING FIRST HAND DATA AND OBSERVATION AND MOST IMPORTANTLY A BIRDS EYE VIEW OF THE SITUATION THAT WILL BE DIRECTED TO THE LOCATION WITHOUT ANY DELAY.



WHAT NEXT?

NON HUMAN ELEMENTS OR DRONES WILL BE RESPONSIBLE FOR REACHING THE LOCATION WITH MINIMUM DELAY AND PROVIDE ASSISTANCE TO EMERGENCY FIRST RESPONDERS ON SPOT BY CONNECTING THEM TO A PROFESSIONAL OVER THE NET THROUGH THE DRONE OR GATHER EVIDENCE AND MAKE THE OFFENDERS AWARE OF SURVEILLANCE. ALSO, THEY ACT A SOURCE OF FIRST HAND DATA FOR THE PROFESSIONAL EMERGENCY TEAM BEFORE THEY ARRIVE.

THE HUMAN ELEMENTS OR EMERGENCY RESPONDERS CAN EITHER TAKE NOTE AND EVACUATE IN CASE OF LARGER EMERGENCIES OR PROVIDE A HELPING HAND AND MEDICAL/LOGISTIC ASSISTANCE WITH THE HELP OF THE DRONE ON SPOT.