**Project Title: Project Design Phase-I** - **Solution Fit Template Team ID:PNT2022TMID34027**

Emerging methods for early

detection of forest fires

Satellites,Drones,Virtual Reality,Artificial intelligence are some of the techniques used for fire detection



Forest officer

local people

hunters

Sensors allow for detecting and monitoring of fires, transfer the information about the location ,temperature, of the forest fires through satellite. Satellite data is also critical for observing and monitoring smoke from the fires.

Before :

People were in fear about their lives and property

After :

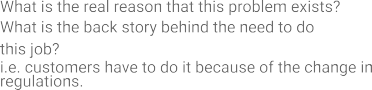
Feel relief

Forest fires cause lots of damage, some of them are – loss of wildlife habitat, extinction of plants and animals, destroys the nutrient rich top soil, loss of valuable timber resources, ozone layer depletion, loss of livelihood for tribal people and poor people, increase in global warming.

The manner in which fuel ignites,flame develops and fire spreads

.Sensors are used to detect fires in forest .Continuous monitoring is required to detect forest fire. Sensor set in the forest detect fires by sensing heat. Satellites are used t

For detecting and monitoring fires.



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|  | **3. TRIGGERS** | **TR** | **10. YOUR SOLUTION SL** | **8.CHANNELS of BEHAVIOUR CH** |  |
| Camp fires left unattended, The burning of debris, equipment use and malfunctions and negligently discarded cigarettes. |  | We using sensor to detect fires. We should improve the quality of sesors for security. To further enhance the capability of their application backup and recovery of data technique can be used. | ONLINE: sensors to detect fire  OFFLINE: educate the tribal people about forest fire |
| **4. EMOTIONS: BEFORE / AFTER EM** | |  |  |
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