**Project Title:**-Emerging Methods For Early Detection Of



**2. JOBS-TO-BE-DONE / PROBLEMS**

**Permanent monitoring and data collection secure manner**.

**The manner in which fuel ignites, flame develops and fire spreads. In wildland this behavior is influenced by weather and topography interact.**

**7. BEHAVIOUR**

What does your customer do to address the problem and get the job done?

**BE**

**9. PROBLEM ROOT CAUSE**

What is the real reason that this problem exists? What is the back story behind the need to do this job?

i. e. customers have to do it because of the change in regulations.

* **Natural causes- Many forest fires start from natural causes such as lightning which sets trees on fire.**
* **Manmade causes-fire is caused when a source of the fire like naked flame, cigarette or electric sparks or source of**

**ignition comes into contact with inflammable material.**

Focus on J&P, tap into

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Forest Fires **Project Design Phase-I** - **Solution Fit Template Team ID** PNT2022TMID03339

**Explore AS, differentiate**

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| **Def** | **6. CUSTOMER CONSTRAINTS**  What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.  **Requires large amount of storage to store the data.** | **5. AVAILABLE SOLUTIONS** |
| Who is your customer? **CS**  i.e. working parents of 0-5 y.o. kids | Which solutions are available to the customers when they face the problem |
| **CS** | or need to get the job done? What have they tried in the past? What pros & |
|  | cons do these solutions have? i.e. pen and paper is an alternative to digital |
| **officers who wants to monitor the entire forest using the sensor 24/7** | notetaking   * **Camp responsibly.** * **Remote technologies.** * **Check weather and drought condition.** |

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|  | **3. TRIGGERS**  What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efﬁcient solution in the news.  As forest officers can’t be aware of the upcoming situations this detection is necessary to avoid disasters. | **10. YOUR SOLUTION**  If you are working on an existing business, write down your current solution ﬁrst, ﬁll in the canvas, and check how much it ﬁts reality.  **Satellite image processing methods, Optical sensors and Digital Camera-based methods are used to detection of forest fires.** | 1. **CHANNELS of BEHAVIOUR CH**    1. **ONLINE**    2. **OFFLINE**   **ONLINE**  Forest offices will access the security servicein online mode(Web Service)  **OFFLINE**  Forest police will access the security servicein offline mode(call using telephone). |  |
| **4. EMOTIONS: BEFORE / AFTER E**  How do customers feel when they face a problem or a job and afterwards?  **Insecurity of disconnection -->Control of device makes them confident** |