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

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| **fitCS,Define** |  |  |  |  |
| Who is your customer? |  |  |  |
| **CS** |  |  |
|  |  |  |
|  | i.e. working parents of 0-5 y.o. kids |  |  |
|  |  |  |  |
| **CCinto** | **officers who wants to monitor the entire** | | |  |
| **forest using the sensor 24/7** |  |  |  |
|  |  |  |  |
|  |  |  |  |  |

**Project Design Phase-I** - **Solution Fit Template**



**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.**



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| **5. AVAILABLE SOLUTIONS** | | | **Explore** |  |
|  |  |
| Which solutions are available to the customers when they face the |  |  |  |  |
|  |  |  |
| problem | | |  |  |
| 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 | | | **AS,** |  |
| notetaking | | |  |
|  |  |
|  **Camp responsibly.** | | | **differentiate** |  |
|  **Remote technologies.** | | |  |
|  |  |
|  **Check weather and drought** | | |  |  |
| **condition.** | | |  |  |
|  |  |  |  |  |

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| **Focuson** |

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| **J&P,tap** |

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| **into** |

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

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

**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?

1. 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.**



**BE**

**7. BEHAVIOUR**

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

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

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| **Focuson** |

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| **3. TRIGGERS** | **10. YOUR SOLUTION** | **8. CHANNELS of BEHAVIOUR** | | **CH** |
| What triggers customers to act? i.e. seeing their | If you are working on an existing business, write down your | **8.1** | **ONLINE** |  |
| neighbour installing solar panels, reading about a | current solution first, fill in the canvas, and check how much it | **8.2** | **OFFLINE** |  |
| more efficient solution in the news. | fits reality. |  |  |  |

|  |  |  |  |  |  |
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| As forest officers can’t be aware of the | | |  | **ONLINE** |  |
| upcoming situations this detection is | | | **Satellite image processing** | Forest offices will access the security |  |
| necessary to avoid disasters. |  |  |  |
|  |  | service in online mode(Web Service) |  |
|  |  |  | **methods, Optical sensors and Digital** |  |
|  |  |  |  |  |
|  |  | | **Camera-based methods are used to** |  |  |
| **4. EMOTIONS: BEFORE / AFTER** | **E** |  | **OFFLINE** |  |
| How do customers feel when they face a problem or a job and afterwards? |  |  |  |
|  |  | **detection of forest fires.** | Forest police will access the security |  |
| **Insecurity of disconnection -->Control of** |  |  |  |
|  |  |  | service in offline mode(call using |  |
| **device makes them confident** |  |  |  |  |
|  |  |  | telephone). |  |
|  |  |  |  |  |