Project Title: Forest fire detection methods Project Design Phase-I - Solution Fit Template Team ID: PNT2022TMID52343

Human-caused fires result from campfires left unattended, the burning of debris, equipment use and malfunctions, negligently discarded cigarettes, and intentional acts of arson. It is possible to detect forest fires, elevated CO2,Triggers and alerts can be configured.

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Vital data would be needed for bushfire prevention planning and it can come from a range of sources.Here is a list of potential sources,Eg Satellite images by gathering and analyzing data with AI.

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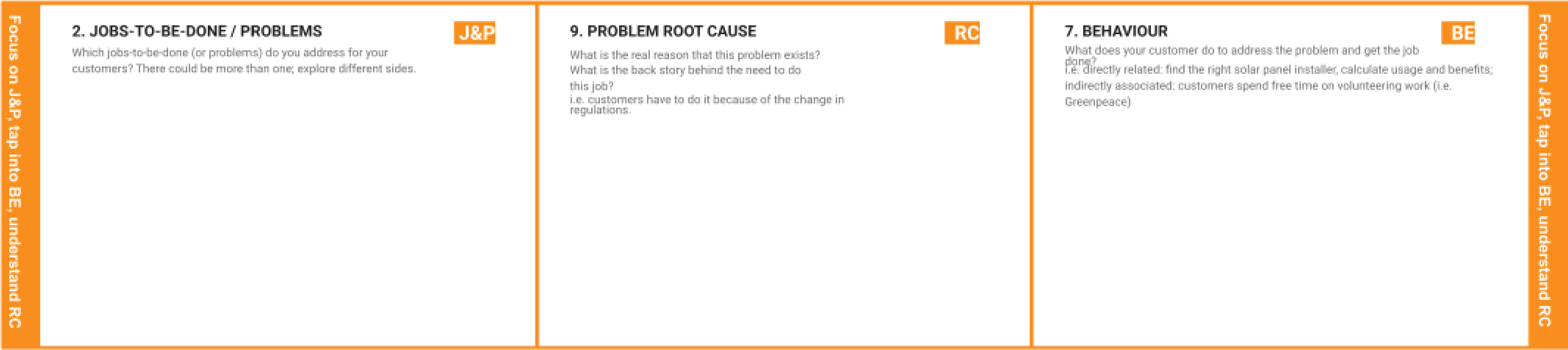
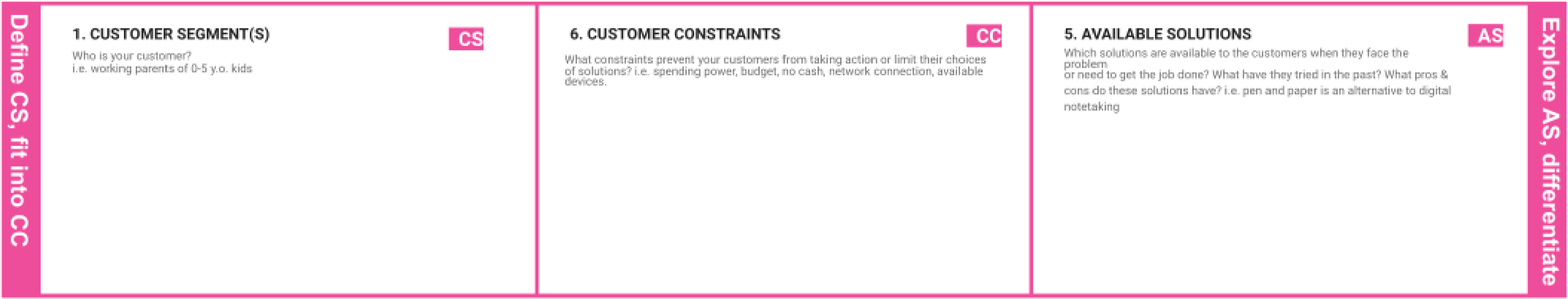
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The proposed system detects the forest fire at a faster rate compared to existing system. It has enhanced data collection feature.

8. CHANNELS OF BEHAVIOUR

Check with fire officials before attempting to return to your home.

Use caution when re-entering a burned area - flare ups can occur.

4. EMOTIONS:BEFORE/AFTER

3. TRIGGERS

Cotrolling burning,fire weather forecasts and estimates of fuel and moisture,watch towers,optical smoke detection,infrared,spotter planes.

7. BEHAVIOUR

Loss of valuable timber resources. degradation of catchment areas. loss of biodiversity and extinction of plants and animals. loss of wildlife habitat and depletion of wildlife

One of the biggest causes of natural forest fires

is lightning. Lightning in places of dry vegetation causes a fire. These fires mostly occur in remote locations away from human presence. In some cases, volcanic activities lead to fires. With the advancement of technology, these types of fires are predicted well in advance and firefighters create a buffer zone to manage the fire. root cause

9. PROBLEM ROOT CAUSE

2. JOBS-TO-BE-DONE/PROBLEMS

One of the ways fires are detected is by lookout stations. These are situated at a location with extensive visibility and have associated structures manned by a lookout observer whose prime purpose is to locate and report wildfires.

From the place of lignition, the direction of spread, speed, extent and shape of fire depend upon wind, inflammable material and topography.

In recent history and even the present day, several forest fire detection methods

have been implemented, such as watchtowers,

satellite image processing methods, optical

sensors, and digital camera-based methods2,

although there are many available solutions

in forest fire detection.

5 .AVAILABLE SOLUTIONS

6 .CUSTOMER CONSTRAINTS

1 .CUSTOMER SEGMENT (S)