

## 1. CUSTOMER SEGMENT(S)

Who is your customer?

CS

The customer for this product is a farmer who grows crops. Our goal is to help them, monitor field parameters remotely. This product saves agriculture from extinction.

## 6. CUSTOMER

C

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.

Using a large number of sensors is difficult. An unlimited or continuous internet connection is required for success.

## 5. AVAILABLE SOLUTIONS

Which solutions are available to the customers when they face the problem

AS

of 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

The irrigation process is automated using IoT. Meteorological data and field parameters were collected and processed to automate the irrigation process. Disadvantages are efficiency only over short distances, and difficult data storage.

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

J&P

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

The purpose of this product is to use sensors to acquire various field parameters and process them using a central processing system. The cloud is used to store and transmit data using IoT. The Weather API is used to help farmers make decisions. Farmers can make decisions through mobile applications.

## 9. PROBLEM ROOT CAUSE

What is the real reason that this problem exists? What is the back story behind

Frequent changes and unpredictable weather and climate made it difficult for farmers to engage in agriculture. These factors play an important role in deciding whether to water your plants. Fields are difficult to monitor when the farmer is not at the field, leading to crop damage.

## 7. BEHAVIOUR

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

i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

Use a proper drainage system to overcome the effects of excess water from heavy rain. Use of hybrid plants that are resistant to pests.

<div data-bbox="152 252 295 276">3. TRIGGERS</div> <div data-bbox="721 248 770 279">TR</div> <div data-bbox="152 285 638 328"> <p>What triggers customers to act? i.e., seeing their neighbor installing solar panels, reading about a more efficient solution in the news.</p> </div> <div data-bbox="152 352 763 486"> <p>Fáimeis struggle to provide adequate irrigation. Inadequate water supply reduces yields and affects fáimeis' profit levels. Fáimeis have a hard time predicting the weather.</p> </div> <div data-bbox="152 564 501 588">4. EMOTIONS: BEFORE / AFTER</div> <div data-bbox="721 561 770 592">EM</div> <div data-bbox="152 596 754 638"> <p>How do customers feel when they face a problem of a job and afterwards? i.e. lost, insecure &gt; confident, in control - use it in your communication strategy &amp; design.</p> </div> <div data-bbox="174 694 689 861"> <p>BEFORE: Lack of knowledge in weather forecasting → Random decisions → low yield. AFTER: Data from reliable source → correct decision → high yield</p> </div>	<div data-bbox="835 252 1052 276">10. YOUR SOLUTION</div> <div data-bbox="1279 248 1314 279">SL</div> <div data-bbox="835 285 1310 328"> <p>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.</p> </div> <div data-bbox="835 335 1310 400"> <p>If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.</p> </div> <div data-bbox="848 448 1346 647"> <p>Our product collects data from various types of sensors and sends the values to our main server. It also collects weather data from the Weather API. The final decision to irrigate the crop is made by the farmer using a mobile application.</p> </div>	<div data-bbox="1413 252 1715 276">8. CHANNELS of BEHAVIOUR</div> <div data-bbox="1982 248 2024 279">CH</div> <div data-bbox="1413 285 1503 303">8.1 ONLINE</div> <div data-bbox="1413 306 1968 328"> <p>What kind of actions do customers take online? Extract online channels from 7 #</p> </div> <div data-bbox="1413 346 1518 363">8.2 OFFLINE</div> <div data-bbox="1413 367 1977 411"> <p>What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.</p> </div> <div data-bbox="1429 445 1995 612"> <p>ONLINE: Providing online assistance to the farmer, in providing knowledge regarding the pH and moisture level of the soil. Online assistance to be provided to the user in using the product</p> </div> <div data-bbox="1429 651 2007 783"> <p>OFFLINE: Awareness camps to be organized to teach the importance and advantages of the automation and IoT in the development of agriculture.</p> </div>
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