

# Project Title: Estimate the Crop Yield Using Data Analytics

## Project Design Phase-I -Problem Solution Fit

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Define CS, fit into CC	<b>1.CUSTOMER SEGMENT(S)</b> <b>CS</b>  Farmers are the customer who wants to yield a better crop in field by predicting all certain conditions.	<b>6. CUSTOMER CONSTRAINTS</b> <b>CC</b>  Less knowledge and development towards the current environmental changes and technologies because they follow ancient method and also limited nutrient availability.	<b>5. AVAILABLE SOLUTION</b> <b>AS</b>  <ul style="list-style-type: none"><li>Practice crop rotation.</li><li>Precision farming.</li></ul>	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <b>J&amp;P</b>  <ul style="list-style-type: none"><li>Help them understand the usage of prediction and software application for good results in agriculture.</li><li>Data report should to be created to reduce the loss of the crop .</li></ul>	<b>9. PROBLEM ROOT CAUSE</b> <b>RC</b>  Extreme weather events and Various disease on the plants can lead to reducing the quality of the crops productivity. The insects on the plants can spread the disease	<b>7. BEHAVIOUR</b> <b>BE</b>  <ul style="list-style-type: none"><li>Try to get help from agricultural experts.</li><li>Try to take up non-natural means of cultivation for quicker harvest</li></ul>	Focus on J&P, tap into BE, understand RC

I d e n t i f y s t r o n g T R & E M	<b>3. TRIGGERS</b> <b>TR</b> <ul style="list-style-type: none"> <li>Seeing their crops are being infected by disease and facing huge loss in quality.</li> </ul>	<b>10. YOUR SOLUTION</b> <b>SL</b> <ul style="list-style-type: none"> <li>The solution for the problem, creating data report using past datasets.</li> <li>Creating IBM Cognos dashboard could make them better understand easily.</li> <li>Analyzing the weather changes for better conditions.</li> </ul>	<b>8. CHANNELS of BEHAVIOUR</b> <b>CH</b> <ul style="list-style-type: none"> <li>Trying to use pesticides and fertilizers that increase gain but cause harm.</li> <li>Irrigation channel changes.</li> <li>Extreme Weather Changes can cause harm to the field.</li> </ul>
	<b>4. EMOTIONS: BEFORE / AFTER</b> <b>EM</b> <p>Before: Most of the famers in India have Stress, Loosing Self Confidence.</p> <p>After : Gain of Self Confidence.</p>		