

Project Design Phase-I

Problem – Solution Fit Template

Date	19 September 2022
Team ID	PNT2022TMID36477
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	2 Marks

Problem – Solution Fit Template

Problem-Solution Fit canvas

Purpose / Vision

Version

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS Demographic, psychographic, behavioural and geographic segment	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> Environmental factors including water stress, nutrient deficiency, high or low temperature chemical & physical soil constraints and biotic factor reduce crop yield	5. AVAILABLE SOLUTIONS AS <small>PROS & CONS</small> Crop with climate change, soil erosion and bio-diversity loss Satisfy customer's changing tastes and expectations	Explore AS, differentiate
	2. PROBLEMS / PAINS PR <small>+ ITS FREQUENCY</small> With the changing of climate, agriculture faces increasing problem with extreme weather events leading to considerable yield losses of crops. Most often, crop plants are sensitive to stresses since they were mostly selected for high yield, and not for stress tolerance	9. PROBLEM ROOT / CAUSE RC Using advanced climate and agriculture models, scientists found that the change in yields is due to projected increases in temperature, shifts in rainfall patterns. And elevated surface carbon dioxide concentration from human-caused greenhouse gas emission	7. BEHAVIOR BE <small>+ ITS INTENSITY</small> Crop yield is a standard measurement of the amount of agriculture production harvested-yield of a crop-per unit of land area. Crop yield is the measurement most often used for cereal, grain. Or legumes	
Focus on PR, tap into BE, understand RC	3. TRIGGERS TO ACT TR Fertility, availability of water, climate, and disease or pests.	10. YOUR SOLUTION SL 1. Quality of seeds, agriculture productivity depends on the quality of seed with which farmers sow their fields 2. Field productivity zoning. 3. Monitoring crop growth. 4. Regular scouting.	8. CHANNELS of BEHAVIOR CH ONLINE Can be available digitally in the form of feedback or review comparative prices high visibility	Extract online & offline CH of BE
	4. EMOTIONS EM <small>BEFORE / AFTER</small> The monitoring system of the emotions of agriculture gives the wings of 'wisdom' to agriculture		OFFLINE Can be inspected personally. Required considerable efforts time consumption1 on 1 or 1 to n personal relationship.	

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 Designed by Daria Negriakina / ideahackers.ru - we tailor ideas to customer behaviour and increase solution adoption probability.

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