# Problem-Solution fit canvas 2.0

Purpose / Vision

### 1. CUSTOMER SEGMENT(S)

Who is your customer? i.e. working parents of 0-5 y.o. kids

> Farmers who are responsible for food production of a country

# CS 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.

Low internet connectivity, High cost, lack of awareness for old farmers, fear of crop damage by radiation, power consumption

### 5. AVAILABLE SOLUTIONS

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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 pust? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking

loT based farming solutions for fertilizer management has soil intelligence platform which uses data from geographic information systems(GIS) and loT sensors to analyze

data, use of drones

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

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

Declining soil fertility has become a threat in agricultural productivity and agro-economic scenario. Floods, drought, soil type can affect crop protection. Also pests, weeds can cause low productivity.

#### 9. PROBLEM ROOT CAUSE

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What is the real reason that this problem exists?
What is the back story behind the need to do this job?
i.e. customers have to do it because of the change in regulations.

Soil fertility decline occurs
when the quantities of
nutrients removed
from the soil in harvested
products exceed the quantities
of nutrients being applied. Excessive
outtivation, Salinization, or
the accumulation
of salts in the topsoil have a deletrious
effect on soil productivity.
Soil erosion is caused
by floods. Infertile
land leads to drought.

### 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 apend free time on volunteering work (j.e. Greenpeace)

Farmers are facing these problems over the past. 50 years frequently. Farmers's activities: Destruction of crop

merss activities: Destruction of cro residues, deep plowing, crop rotation,

use of fertilizers, strip-cropping, irrigation, scheduled planting operations, till their soils, rotate their crops,

scout their fields, and carefully consider factors such as plant density and planting dates.

### 3. TRIGGERS

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

Crop protection in IOT can save time, reduce labour cost, decrease damage to crop

## 4. EMOTIONS: BEFORE / AFTER

How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design

Thaditional methods do not have real time monitoring, very difficulin pets control widespread of disease After IOT Earning can be nade easy, prevention of attacks, quick detection and solving of

### 10. YOUR SOLUTION

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.

If you are working on a new business proposition, then keep it blank until you fill in

If you are working on a new business proposition, then keep it blank until you fill in the cenves and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

Helps farmers to achieve increased production and reduced costs by enabling better management of land resources by GIS software which will meet cultivator's requirements.

### 8. CHANNELS of BEHAVIOUR

8.1 ONLINE

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What kind of actions do customers take online? Extract online channels from #7

Remote sensing, smart control, use of IOT for crop protection are done via online

#### 8.2 OFFLINE

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

Traditional methods of crop protection can be done via offline.



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