# 1. CUS L'OMER

SEGMENT<sup>2</sup>(S)

Project Title: Smart Farmer - IoT Enabled

**Smart Farming Application** 



I'he customeí foí this píoduct is a faímeí who gíows cíops. Ouí goal is to help them, monitoí field paíameteís íemotely. I'his píoduct saves agiicultuíe fíom extinction.

### 6. CUSTOMER



What constiaints pievent youi customeis from taking action of limittheif choices of solutions? i.e. spending powei, budget, no cash, netwoikconnection, available devices.

Using a laíge numbeí of sensoís is difficult. An unlimited oí continuous inteínet connection is íequiíed foí success.

### 5. AVAILABLE SOLUPIONS



Explore AS, differentiate

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

oí need to get the job done? What have they tíied in the past? What píos & cons do these solutions have? i.e. pen and papeí

ľhe iííigation píocess is automated using Ioľ. Meteoíological data and field paíameteís weíe collected and piocessed to automate the iíiigation píocess. Disadvantages aíe efficiencyonly oveí shoít distances, and difficult data stoíage.

### 2. JOBS-l'O-BE-DONE / PROBLEMS



Which jobs-to-be-done (of píoblems) do you addíess foi your customers? Phere could be more than one; explore different sides.

l'he puípose of this píoduct is to use sensoís to acquiíe vaíious field paíameteís and píocess them using a centíal píocessing system. I'he cloud is used to stoíe and tíansmitdata using Iol'. I'he Weatheí API is used to help faímeís make

decisions. Faímeís can make decisions thíough mobile applications.

# 9. PROBLEM ROOL? CAUSE



What is the feal feason that this píoblem exists? What is the back stofy behind

Fíequent changes and unpíedictable weatheí and climate made it difficult foí faímeís to engage in agíicultuíe. l'hese factoís play an impoítant íole in deciding whetheí to wateí youí plants. Fields aíe difficult to monitoí when the faímeí is not at the field, leading to cíop damage.

### 7. BEHAVIOUR



What does you'r customei do to addiess the pioblem and get the job done?

i.e. difectly felated: find the fight solaí panel installeí, calculate usage and benefits; indifectly associated: customeís spend fíeetime on volunteefing wofk (i.e. Gíeenpeace)

Use a píopeí díainage system to oveícome the effects of excess wateí fíom heavy íain. Use of hybíid plants that aíe íesistant to pests.

us on J&P, tap into BE, understand R

#### 3. 1°RIGGERS

1°R

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

Faímeís stíuggle to píovide adequate iífigation. Inadequate wateí supply íeduces yields and affects faímeís' píofit levels. Faímeís have a haíd time píedicting theweatheí.

## 4. EMOI'IONS: BEÏORE / AÏI'ER



How do customeís feel when they face a píoblem oí a job and afteíwaíds? i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

BEFORE: Lack of knowledge in weather forecasting →Random decisions →low yield.

AFl'ER: Data fíom íeliable souíce → coííect decision →high yield

## 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 the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

Ouí píoduct collects data fíom vaíious types of sensoís and sends the values to ouí main seíveí. It also collects weatheí data fíom the Weatheí API. 17he final decision to iíigate the cíop is made by the faímeíusing a mobile application.

### 8. CHANNELS of BEHAVIOUR



#### 8.1 ONLINE

What kind of actions do customeis take online? Extiact online channels from 7

#### 1 OTT INE

What kind Of actions dO custOmers take offline? Extract Offline channels from #7 and use them for custOmer development.

ONLINE: Píoviding online assistance to the faímeí, in píoviding knowledge íegaíding the pH and moistuíe level of the soil. Online assistance to be píovided to the useí in using the píoduct

OFFLINE: Awaíeness camps to be oíganized to teach the impoítance and advantages of the automation and Io 1° in the development of agíicultuíe.