# Problem-Solution Fit canvas

Purpose / Vision

Version:

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## 1. CUSTOMER SEGMENT(S) `CS`

When people started using of technology in order **to be more efficient when it comes to managing waste**. This makes it possible to plan more efficient routes for the trash collectors who empty the bins, but also lowers the chance of any bin being full for over a week!

*Define CS, fit into CL*

## 6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES `CL`

1. Sensor nodes used in the dustbin have limited memory size

2. The smart bin can hold 8 times more waste compare to normal

3. The resultant product has short life

## 5. AVAILABLE SOLUTIONS PLUSES & MINUSES `AS`

1. Identification ,track & control the infrastructure of smart waste management

2. Information point for citizen direction to nearest available bin to the users

*Explore AS, differentiate*

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## 2. PROBLEMS / PAINS + ITS FREQUENCY `PR`

1. Non-optimized truck rout.

2. Recycling

3. Inadequate management of non industrial hazardous waste

4. Setting up smart sensor

*Focus on PR, tap into BE, understand RC*

## 9. PROBLEM ROOT / CAUSE `RC`

Rise in population and modernization has resulted in demand for food and essential supplies. Modern method of packaging for transportation and storage purpose has resulted in large quantities of waste

## 7. BEHAVIOR + ITS INTENSITY `BE`

1. Intension to not throw away Food waste unwantedly

2. Predict future garbage behavior

3. Easier to clean workspace

4. Recycling, composting and waste-to-energy are increasingly being adopted as alternative waste management strategies

*Focus on PR, tap into BE, understand RC*

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## 3. TRIGGERS TO ACT `TR`

1. Bio-degradable waste such as food, paper, wood can be decomposed organically for fertilizer for plants

2. Population Growth that lead more waste

*Identify strong TR & EM*

## 4. EMOTIONS BEFORE / AFTER `EM`

1. Air Quality
2. Digital Transformation
3. Sustainable Mobility

1. Energy
2. Tourism & Culture
3. Green Urban Area

## 10. YOUR SOLUTION `SL`

1. Overflow of dustbin will create a unpleasant environment ,so it affects many peoples

2. This project improve the waste management because cleanliness could be maintained

## 8. CHANNELS of BEHAVIOR `CH`

ONLINE

1. Household waste management

2. A National strategy to reduce food waste at the customer level

OFFLINE

It saves the environment from toxic effects of inorganic and Biodegradable element present in waste

*Extract online & offline CH of BE*

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