Cut to Crush Delay in Sugarcane Supply Chain





STUDENT COMPETITION The HUMLOG Challenge

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Region Represented:



Uttar Pradesh

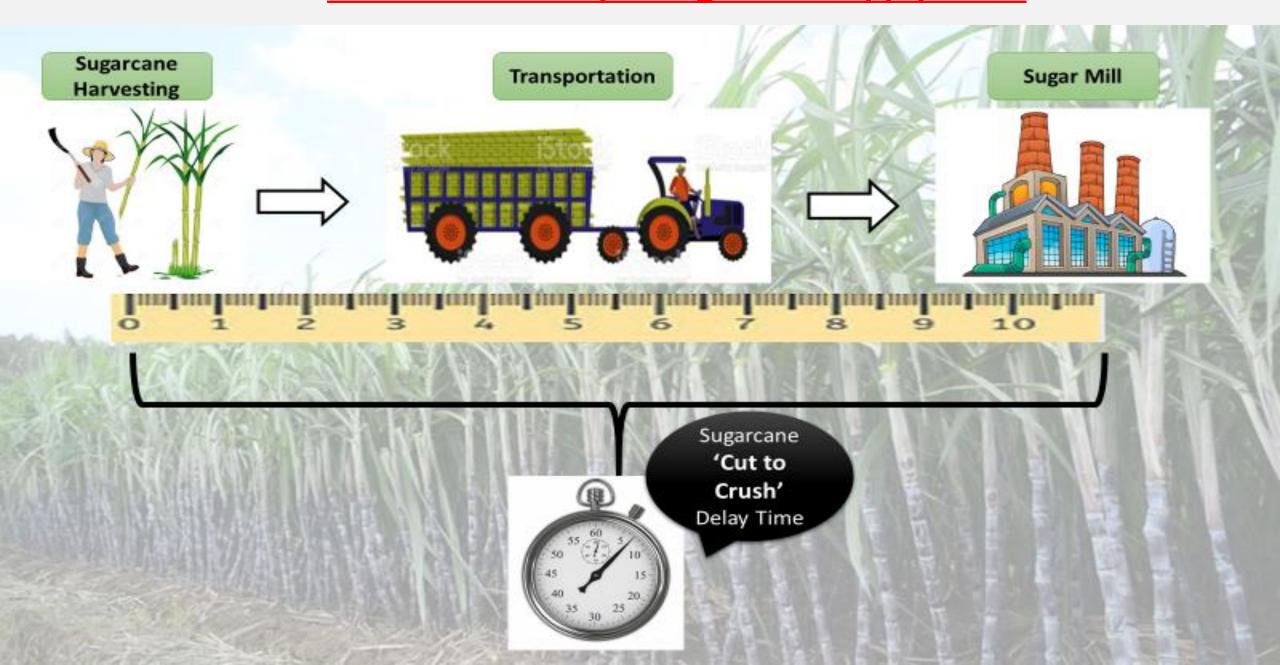
Maharashtra

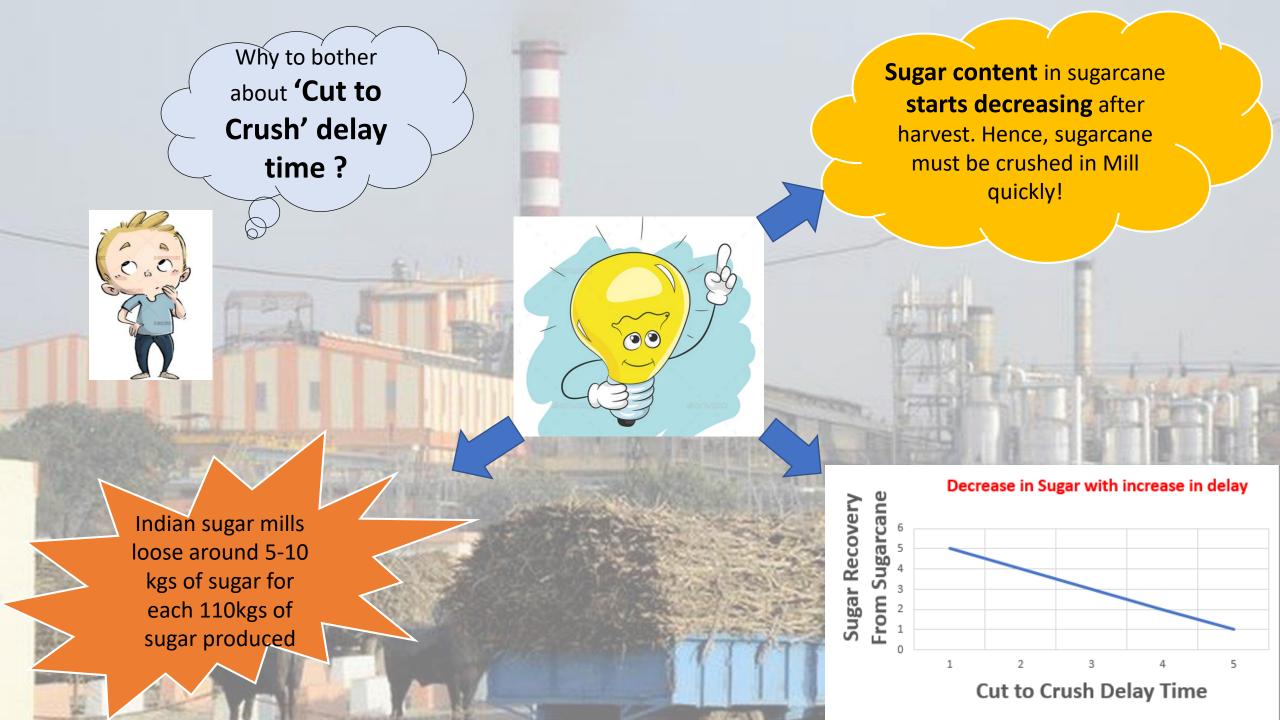
Tamil Nadu

- India is the 2nd largest producer of sugar in the world next to Brazil
- In the year 2017-18 the sugar quantity produced was 32.32 Mn tonnes
- Sugarcane farmers and their families,
 numbering over 35 million, constitute about
 7 percent of the rural population

- Farmer's suicide account 7.4% of total suicide in India and growth rate is 5-6 %
- 12000 Maharashtra farmers have committed suicide in last 3 years, Uttar Pradesh sugarcane farmers due approx. 100 billion from mill's side

Problem Identified : Cut to Crush Delay in Sugarcane Supply Chain





Proof Of Research

Primary Research

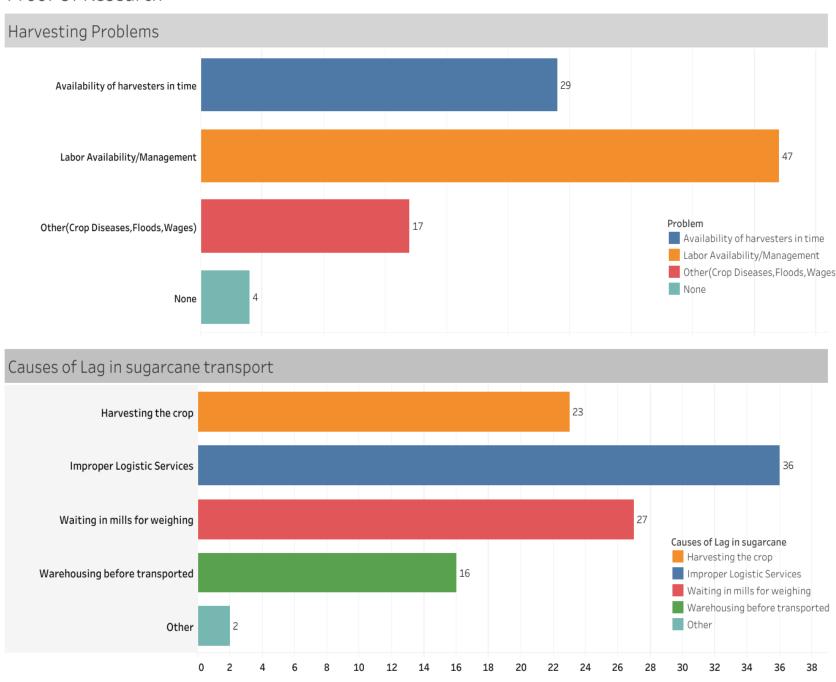


- 107 responses received from farmers through google forms and telephonic conversation
- Telephonic interviews with industry experts

Secondary Research

- Articles
- Newsletter
- Research paper
- Report





Supply Chain Stages and corresponding issues

Harvesting

- Labour management and lack of machinery results in longer harvest time
- Non-adherence to pre-booked crushing time slot

Transportation • Non-availability of timely logistic services from mill or third party service providers

Weighing in Mill

- Huge queue of vehicles outside mill to weigh the sugarcane
- Poor scheduling and communication between farmers and mills

Crushing in Mill

- Poor maintenance and operations management by mill
- Unexpected Shutdowns and delay in cane procurement
- Mills do not operate with optimum capacity

Solution

TRANSMERS HRP

Industry Resource Planning
Software Application
(IRP)



1. Integrated Digital Platform

4. <u>Data for</u> <u>Decision/Policy Making</u>



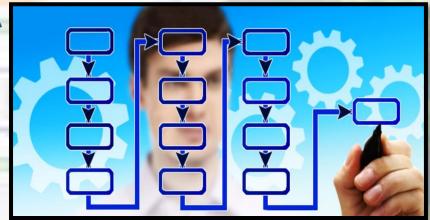






2. Increase Collaboration

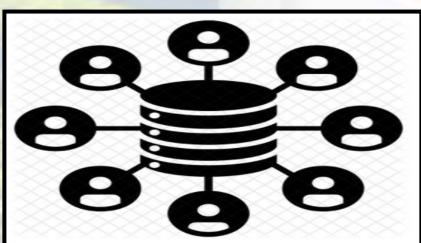
3. Systematic Functioning





1. Avail Services

4. Collect Data for Policy Making



What IRP can do?

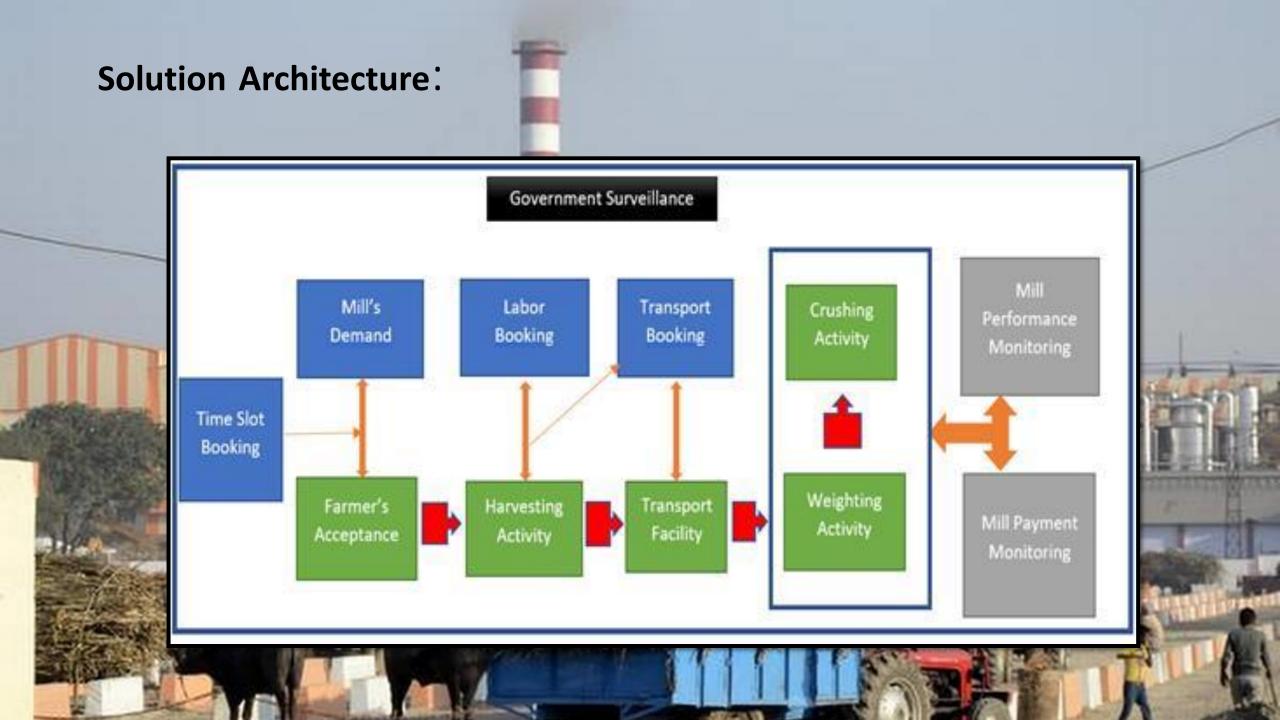




2. Register Grievances

3. Monitor Entire
Supply Chain





Implementation Plan:

Government budget

Third party collaboration for IT infrastructure

Integration and registration of stakeholders

Awareness and digital literacy

Small scale to large scale implementation and improvements

