A3 No. and Name Group 2: V-Track

Team Leader (name & 'phone ext)

Abdelmoaty, Serageldin Monir Farid Abdelghaffar

Team members (name & role)

- 1. Abdelmoaty, Serageldin Monir Farid Abdelghaffar
- 2. Dixit, Shantanu
- 3. Huang, Tai-Siang
- 4. Rathod, Jaiminiben Natvarbhai
 - Shaik, Mohammed Adeen

Stakeholders (role & department)

- AI & ML Coordinator, Conestoga College
- Other Conestoga College stakeholder(s)
- Administrative & Policy Stakeholders

Company objective Canada Government

Start date & planned duration

2025-05-13

14 weeks



1. Clarify the problem

2. Breakdown the problem

Current Situation

Traffic violation penalties are assessed manually, taking an average of 15 minutes per case. Officers rely on spreadsheets and disconnected databases, making it hard to access full driving histories. This leads to inconsistent penalties and delays in decision-making.

Ideal Situation

An Al-powered Decision Support System would reduce decision time to 5 minutes, integrating driver history, offense context, and risk factors. It would ensure fair, consistent penalties and improve efficiency across jurisdictions.

There is a 15-minute time gap per case between manual and Al-based assessment. The current system lacks data integration and standardization, while the ideal setup enables fast, data-driven decisions with unified driver profiles.

4. Analyse the Root Cause

Why does the process take too long at Documentation & Ticket Preparation?

→ Because officers manually write or e-print the ticket and log case notes, which is time-consuming.

Why is manual writing or e-printing so time-consuming?

→ Because there is no integrated or automated system to auto-fill or generate tickets and notes.

Why isn't there an integrated system for ticket generation?

→ Because current systems are outdated or lack real-time synchronization with driver databases and violations.

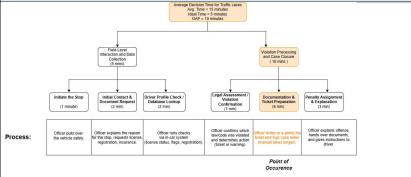
Why are systems outdated and not synchronized?

→ Because budget constraints and limited digital infrastructure have prevented modernization.

Why hasn't the budget been allocated to modernize this process?

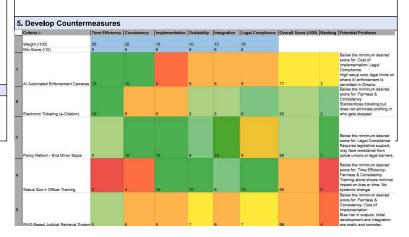
→ Because of low awareness of how Al-driven automation can reduce case handling time and improve decision-making.





3. Set the Target

Reduce the average decision time for traffic offense penalty assignment from 15 minutes to 5 minutes by the end of 2025, by standardizing the evaluation process and ensuring consistency in fairness and speed.



8. Standardise & Share Success

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