Main Heading:

Smart Traffic Vendor Project

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Introduction to project and what exactly is included in the project:

* My project main goal is to write a publish a white paper comparing the top smart traffic systems in the market.
* This includes comparing hardware and software implementations i.e to understand type of problem that they are focusing to find a solution, and the way they are planning to solve the problem
* Checking whether the vendor systems comply with the Department of Transportation rules and regulations

(Majorly we consider the Florida Department of Transportation)

Projected Timeline of the Project:

The projected deadline of the project was on 30th December to deliver the final presentation and report to the investors based on the information gathered

And the further step being Publishing the White paper

Updates and the current stage of the project

The project is in the stage where we have the target companies to try for the smart traffic product

The rules that the vendors need to satisfy in order to get the permissions and showcase how safe using their systems is without human intervention using AI

Getting the investors to understand the costs for the project and the advantages of the white paper , which will give the DOT a clear picture on where the technology advancement is in and also an advantage to know where the rest of the focus areas are for the traffic monitoring systems

Information on the research gathered:

No Traffic:

Optimizes Lights timing based on Smart Sensors in real time

End to end hardware and software solution

This Platform can retrofit any intersection in the world to a cloud connected and fully autonomous in less than 2 hrs

Has plug and play sensors at human eye level

Data of road users is transferred to cloud for additional processing

Further optimizing the traffic signals thus reducing delay time

Plans to implement – Road as a Service

Indicates other vehicles if there is any other vehicle that is a red light runner or if a pedestrian is about to jump onto the road

Claims – 900 hours of delay eliminated

11 tons of emissions are reduces

Miovision:

Focuses on reducing emissions, road safety and congestion

Remotely manage and track your traffic network – What are your thoughts on this regarding the privacy..

Miovision Scouts : Camera based data sensor

The major thing about miovision I understood is that it’s a system which efficiently understands the data and classifies vehicles, pedestrians, Bicycles etc, and also calculating the Turning Movement Counts, Time travelling between two or more locations.

Has the option for Custom Classification

Rhythm Engineering:

InSync:

Uses Greedy Algorithm, for traffic signal Operations

Real time co ordination

Code green:

Cyclops:

Problems Faced During the Project:

No proper communication with the vendors

Interruptions in the project because of issues in the collaboration between the investors

No proper updates among the team

Costs

Is the project going as per planned?

No the project is in a stage of halt

My Learnings and contributions in the project:

I was able to contact the FDOT officials related to smart traffic and gather the rules that are required for the vendors devices to satisfy in order to implement them on road.

Was able to get the perspective of what the future of smart traffic systems is and the way it is projected to.

Getting to know the device software requirements and hardware requirements to an extent