

Unified Vehicle Distribution System

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Abstract

*This Research report concludes the idea and finding of a critical problem that could be solved with and easy integration of technology also generating pure revenue to gov.*CRITICAL: To implement this system the major requirements include a minor law change in the motor vehicle act to make it reality. The research explores the complexities of the issue, emphasizing how it affects different stakeholders and has wider social ramifications. It highlights how technology might act as a catalyst to effectively and efficiently address the highlighted difficulty. Moreover, it delineates the particular prerequisites for execution, stressing the need for legislative modification to enable smooth integration. This study not only explains the technical components of the suggested solution but also provides a thorough economic analysis that highlights the possible income streams that may be tapped by putting it into practice. The suggested solution not only mitigates the highlighted problem but also offers a profitable potential for government income collection by utilizing technology and harmonizing legal frameworks. This research paper makes a strong argument for legislative changes that are required in order to enable revolutionary transformation in the transportation industry. It emphasizes how crucial innovative technology and aggressive governance are to solving today's problems and promoting sustainable development.*

Keywords: Distribution System, vehicle, online auction, High Voltage Distribution System (HVDS), vehicle market

INTRODUCTION

The idea behind UVDS is to generate new revenue source for government of India lowering the risk of storage of old vehicle and need for space to them also providing person a legal way to purchase vehicle as per their needs maybe at a discounted rate than market. Also enabling a new market in the automobile industry where people could buy used vehicle taken under government due to any legal reason against owner [1].

We will take you through the journey of multimillion market of this vehicles which could have been used and sold rather than storing for so many years and then scrapping.

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UVDS is like an online auction which is not just available for a dealer, but it will be used also by any individual planning to buy a vehicle. Where the vehicle details will be available with pictures and the name of the police station where it has been kept so you can have a visit and get a inspection done and buy it easily.

OBJECTIVE/SCOPE

All Online

First, the whole details of the vehicle will get attached with the number plate and data will be

uploaded on server once the vehicle complete time period of around 1 year and the owner does not claim it with courts order paper will be generated easily through its system and the vehicle will go online on the government website.

Once live anyone will be able to see and buy the price of the vehicle will be less than the market rate of second-hand vehicle.

Maintaining the Integrity of the Market

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The second-hand market of vehicle is so huge that it generates around 1 lakh average income to a dealer and according to gov. data there are 20 lakh vehicle dealers in India this includes dealer, agents and brokers [2]. The sales through them are whopping 4.3 million in FY 2021 and is predicted at 8.3 million by 2026.

Finally, if we do after math this could lead to generate millions of rupees to government and serve a good deal to the individual reducing the scraps getting piled up in the police station.

What Numbers Tells Us

If we see the time of India report it says there are on average 50-150 vehicle under a single police station just staying, [1] there for the past 8-10 years in just Mumbai there are 102 main police stations where vehicles are present [3, 4].

$$102 \times 90 (\text{average of average}) = 9,180$$

If we take an average price from car to bike selling price it will lead to 5,000 and
 $50,000 \times 9,180 = 459,000,000$ (45 crore 90 lakh)

And I would like to add that the vehicle no always increases day by day it doesn't keep still new vehicles are added every day. Now you can imagine if a city can develop so much revenue just looks at our country this figure annually could go up to 2,000 crores just by 46 major cities of India [5].

Flow of AI

- If used high end AI along with the existing website could make this system game changer where data driven analytics will help government with useful insights to focus on markets and where the demand is high this could be analysed".
- Website with user-friendly simple interface and total control of data because when these vehicles are got in to police stations their ancestor details are also noted so there will be no issue of putting accurate data.
- The police stations now a days are provided with computer to maintain digital records and when the paperwork of these vehicle done digitally will help the system easily to alert the stations that the vehicle has completed its 1 years period and auction notice will start. This will make the officials alert and keep the vehicle ready.
- User when interested in a vehicle will contact and visit the station get inspection done and initiate the paperwork online only all paperwork and money transaction will be done online, and a digital receipt will be provided through which the person will submit it in station and receive the vehicle [6].

Process Flow

The process equation diagram will be followed as:

- Vehicle registered and kept in police station
- If not claimed owner ship within 1 years

- System automatically identifies
- Alerts the officials
- Vehicle available on site
- Purchaser visits for inspection
- Finalized the deal online and submits paperwork
- Documents verified online payment initiated
- Letter of possession provided online
- Submitted in police station
- Received the vehicle and paperwork of ownership delivered to person's address.

Limitation and Future use

- The huge revenue without any investments and this could be used in development of nation.
- This is a corruption free system where all the work are done online and the money received to government is direct just the inspection is done offline for satisfaction of person.
- Control in pollution because pilling up of useable material and getting it in to scrap itself is pollution causing.
- Maybe the 8.3 million units could be reached not by 2026 just in 2 years with a direct profit for government.
- The price could be based on formula/ bidding price if possible, as per my consideration a formula could be developed to calculate the price of the vehicle for 2nd purchase
- In the meantime, scrapping policy in India is evolving day by day due to the heavy vehicles on Mumbai and other metropolitan cities where it has become a huge head ache for authorities to get the unidentified vehicles on road out from there.
- Exports to underdeveloped markets is also possible with great profits where in African countries there is huge demand for cheap and high-quality vehicles where Indian new companies are already dominating
- Our brands are dominating in new vehicle segment government can enable their website their and dominate the used market and generate exports revenue which will also lead to strengthen the ties between the nation and benefit us in 2 ways [7].
- The dealers all across India could also be legalised for bulk auction done online where every year for scrapping their could be a bid placed with no corruption module
- Also it is easier for us that not only African but our neighbour country too have huge demands if the site is enabled with least export expense government will be able to sell in: Sri lank, Pakistan, Nepal, Myanmar, Afghanistan, Iran where these countries are accessible by road so exports cheap and they have huge market for these vehicles and have potential [8].
- The 2,000-crore margin in India could be made at 3,000 crores through export.

ANALYSIS AND FINDINGS

After few months of gathering information from internet and going to police station having talk with the officials and understanding the problems arising and procedures that re today done my findings are:

Major Ownerhip not Calimed

The police official told me that in major cases the vehicle owner does not take ownership and keep the vehicle as it is this happened in a case where after 4-5 years brand new car owner didn't take ownership of car and after 8 year he was contacted to take his care and generally till that time the brand new cars was just a scrap material. This was reported in TOI article too.

Cases

- a. *Normal challan or rule break:* ownership is calimed and the person get paper from court.
- b. *Major accident casaes:* in 60% cases the owner run away and the vehicle used in the incident is kept for years and year in to the police sation ground.no calim is done majorly

- c. *Illegal vehicle*: some times we get illegal vehicle ceased we contact original owner but 40% cases owners are not identified or located and vehicles are kept for year to become a scrap.

Changes needed: To change the default, adjust the template as follows

- law*: governments under motor vehicle act could add a clause that any vehicle not claimed ownership more than 1 years will be auction [5, 6].
- Examples*: government generally does this practices with the goods of airport which we know as customs ka maal where any left good ceased goods, etc found or recovered on airport is auction within 3 months if ownership is not claimed by the owner and most of us are familiar with this practice which gives rights to custom houses to do this under custom act.
- Corruption by officials is the main concern in this system which is eliminated due to all proceedings are done online with the help of dataanalytics.
- Pan India*: I have come into contact of some dealers where I have seen that people all over india come to metro cities to buy cars. So this tells us that the demand is so huge that people will travel from all the way from up to mumbai police station to receive the vehicle not just mumbaikers. Also the online process will make the transaction better smooth with the trust of government legality

Prominent case study:[9]

In 2016 virat kohli sold his Audi R8 through a agent to a person named as vikas thakkar(shaggy) for about 2.5cr with in 2 month government officials and income tax got this news and they investigated and found shaggy use to run a fake call centre scam business and make millions through which all his assets were taken away and the R8 was on of them [10].

Since then, Audi R8 is lying at the police station for past 7 years and now looks like as scrap material.

Table 1. Scenario details.

Original	Condition		
	Vikas Thakkar	Amount	Gov. got
Virat	AUDI	2.5cr	Nil by parking it

a. (Official data)

Example of a scenario. (Virat Audi)

Figure if the same would have been auction by government at that time a celebrity car would have got more than 2.5cr Table 1.

CONCLUSION

- If executed properly with the current technology this model will reduce pollution, increase revenue and generate secondary market for people to buy used cars.
- Exports in neighbouring countries will lead in exports income which will be direct to government and also help to increase Indian dominance in their market which will make our ties with these countries strong as they will be reliable on us for this market.
- Annual turnover with this model could lead to make 10 villages in to city with proper infrastructure.
- Indian dominance in external market will also create opportunity for Indian car manufacturer and let them enter their market.
- The flow between registration of vehicle into system till RTO approving papers online will make it corruption less as in most cases it is seen that corruption could happen not only in police but also RTO to make your paper works which is not a small amount [7].

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