

TD Car: Procedure Platform for the importation of new and used vehicles.



The challenge:

Costa Rica faced a complex problem related to the dissolution of the contract with a concessionaire company entrusted with the technical vehicle inspections. This revealed the lack of these services for the population for a few months. The effect on the importers of new and used vehicles became evident immediately, leading to the loss of millions of colons. It also revealed the lack of an integral and efficient platform that simplifies the processes of vehicle verification in customs, exoneration procedures, assignment of license tag numbers, and technical vehicle inspection. This resulted in undue delays, inefficiency, and the absence of transparency during the process monitoring, creating a negative impact on the importers and the entities involved.

The absolute necessity of our potential clients is unmistakable: they require a solution that simplifies and hastens the vehicle importation procedure, ensures transparency and efficiency, and implements constant communication throughout the process. Additionally, due to the country-level use, there is a need to implement high-security standards to ensure the integrity of Costa Rican importer information and the availability of services 24/7. Likewise, it is needed to provide a low-cost, scalable, and highly trustworthy platform infrastructure for the Costa Rican State.

Our solution:

TD Car is a platform that integrates all the procedures related to the importation of vehicles into one solution. Our software has been specially designed to offer a seamless experience without complications for importers and the entities involved. TD Car simplifies the process of vehicle verification in customs, saving time and reducing red tape. It also automates exoneration procedures, accelerates the fulfillment of importation, and minimizes errors and redundant delays.


One outstanding feature of TD Car is its capacity to deliver frequent updates on the process through real-time notifications. It provides users with total control over the vehicle importation procedure.

To ensure rapid and cost-effective deployment of infrastructure, guarantee service availability and scalability during high demand, and establish appropriate security levels for a country-wide platform, we have chosen AWS Cloud. AWS Cloud offers a wide range of services and high overall availability.

Institutions involved:



Consejo de Seguridad Vial (COSEVI), Ministerio de Obras Públicas y Transportes (MOPT), Ministerio de Hacienda (Aduanas), Registro Nacional de la Propiedad, Importers of new vehicles and importers of used vehicles.



Results:

- Since its implementation, it has successfully processed more than 100,000 vehicles and has counted 4,451 satisfied users.
- It has conducted more than 43,000 seamless procedures.
- The software simplifies and accelerates the procedures, offers transparency and constant notifications, and consistently obtains positive results.
- The implementation of a high-availability infrastructure commensurate with the necessity.

Applied Technologies:

- **Amazon WAF:** for the safety of the platform against possible cyber-attacks, filtering incoming traffic from the website, among others.
- **Amazon RDS for Oracle:** to store configuration information of services related to payment transactions.
- **Amazon RDS for PostgreSQL:** to store information on vehicle importation procedures.
- **Amazon EC2:** to host the development appraisal and charges system and the TD Car platform.
- **Backend programming languages:** Java, JavaScript, CF
- **Frontend libraries** JavaScript-based: React

Testimonies:

"The national market must migrate to digitalization and use technological tools that relieve the procedures and reduce costs. The appropriate use of the platform collaborates with the simplification of the formalities and has eliminated more than 46 reprocesses. Another important aspect is that it becomes a base for the State and not one Enterprise with a precarious title, and we do not wish that to happen again, facing a lack of information for the shift of concessionaires or borrowers."

Lilliana Aguilar

AIVEMA Executive Director

"Certainly, TD Car has come to hasten, both internal and external, procedures and requirements for the importation of vehicles of brands that we represent, making them simpler and more efficient. At the same time, this impacts positively on the business continuity and collaborates with the high-level service we provide to our clients as a differentiating factor."

Purdy Group.

"It has been a positive change. The times to obtain technical inspections went from three days to immediate, therefore, the inscriptions could be made almost the same day as the handlings. Also, as we do not have to print the procedure, it reduces the use of paper and, thus, we contribute to the environment."

Ana Lucrecia Vargas

Director of marketing, Danissa Group.

Press Release

<https://www.larepublica.net/noticia/tdcar-revoluciona-la-importacion-de-vehiculos-en-costa-rica-con-el-respaldo-de-los-concesionarios>

<https://www.larepublica.net/noticia/nueva-aplicacion-tdcar-le-ayuda-a-la-importacion-segura-de-autos>

