



QUIPU X

Self-sustaining private public partnership  
projects



Quipux creates **innovative solutions** and accompanies governments in their operation under **self-sustaining private public partnership models** that help to solve real problems of transit, transportation and mobility, **to improve the quality of life of citizens.**



# Transforming cities towards sustainability

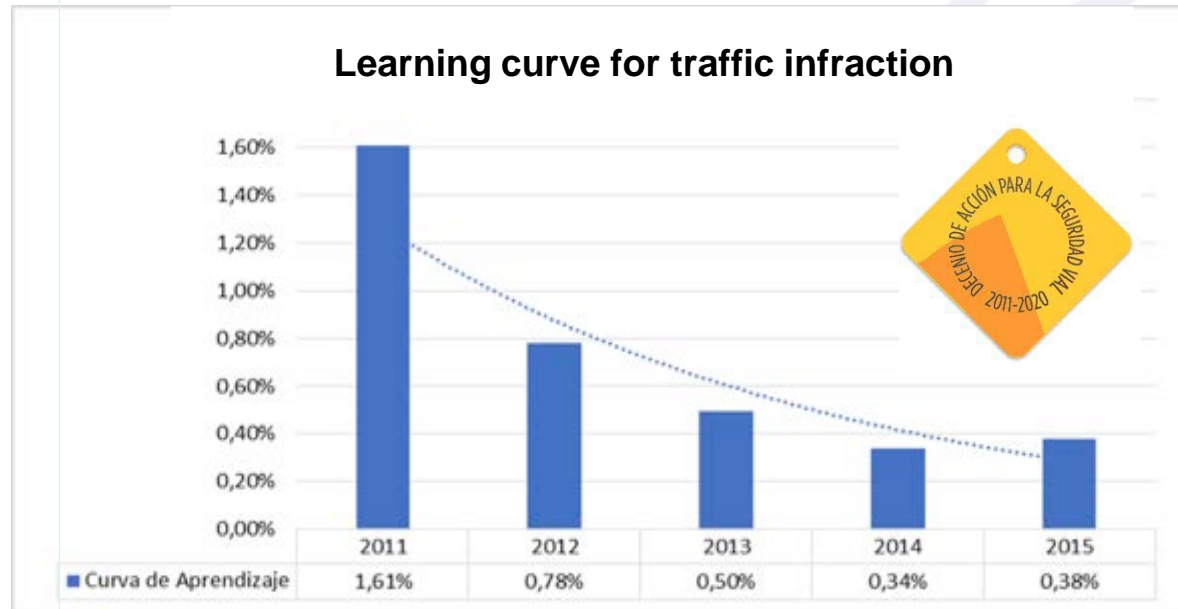
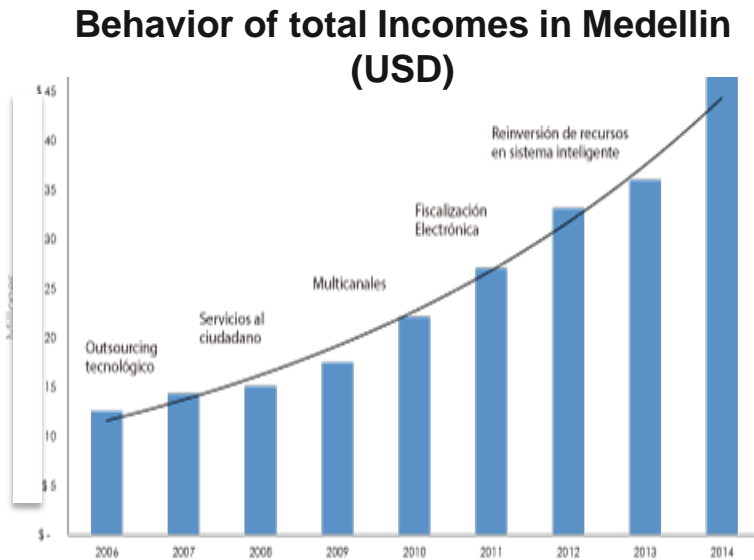
We are constantly working on:

- Improving the citizens' perceptions about the government services.
- Increasing the respect of the traffic regulations and the pedestrian protection.
- Increasing collections.
- Reducing users' service time from weeks to minutes.
- Creating multiple service channels for the citizens.
- Integrating and simplify processes.
- Strengthening the authority of traffic and transportation.
- On-line mobility control.
- Reducing accidents and traffic fatalities.



# Self-sustaining private public partnership model

The revenue growth allows to expand the services and the investments in new technologies, letting the model to be self-sustainable



- ✓ It is not just a matter of financing but a service model
- ✓ Contracts: Public-private alliances, concessions, services.
- ✓ Self-sustaining projects that generate income for public entities





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Smart Mobility Systems

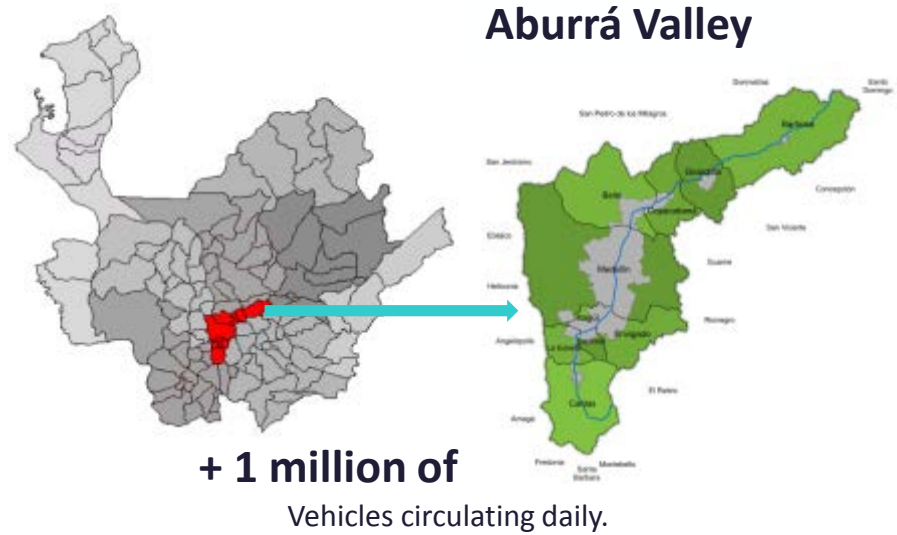
Successful case Medellin - Colombia



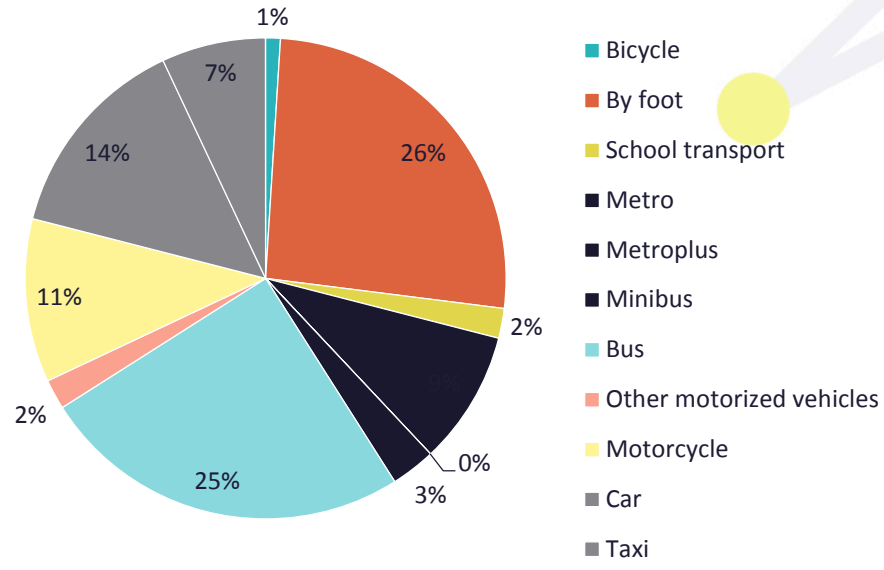
# Context: Aburrá Valley and Medellín

**Population:** Aburrá Valley: 3.8 million | Medellín: 2.5 million

Antioquia



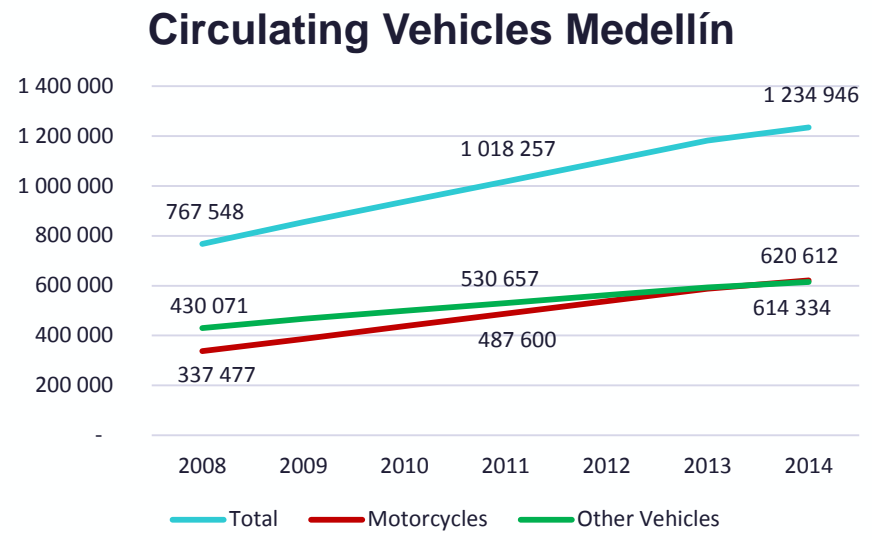
## Aburrá Valley Mobility distribution



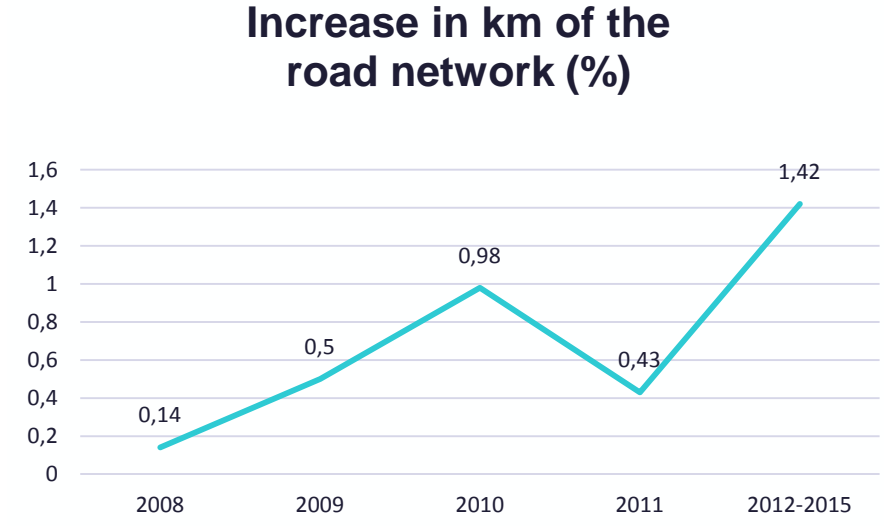
- 34% of the rides are made in individual vehicles.
- 5.6 million rides/day.
- Average for Aburrá Valley > 1.7 rides/ day/ inhabitant.
- Citizens take 2.4 rides/day on average.



# Rise of the vehicle fleet and road network



The vehicle fleet has doubled in the last 8 years.



The road network has grown 1.42% in the last 4 years.

Medellin is affected by a large traffic congestion, it has a deficiency in terms of the road networks which makes it even more challenging.

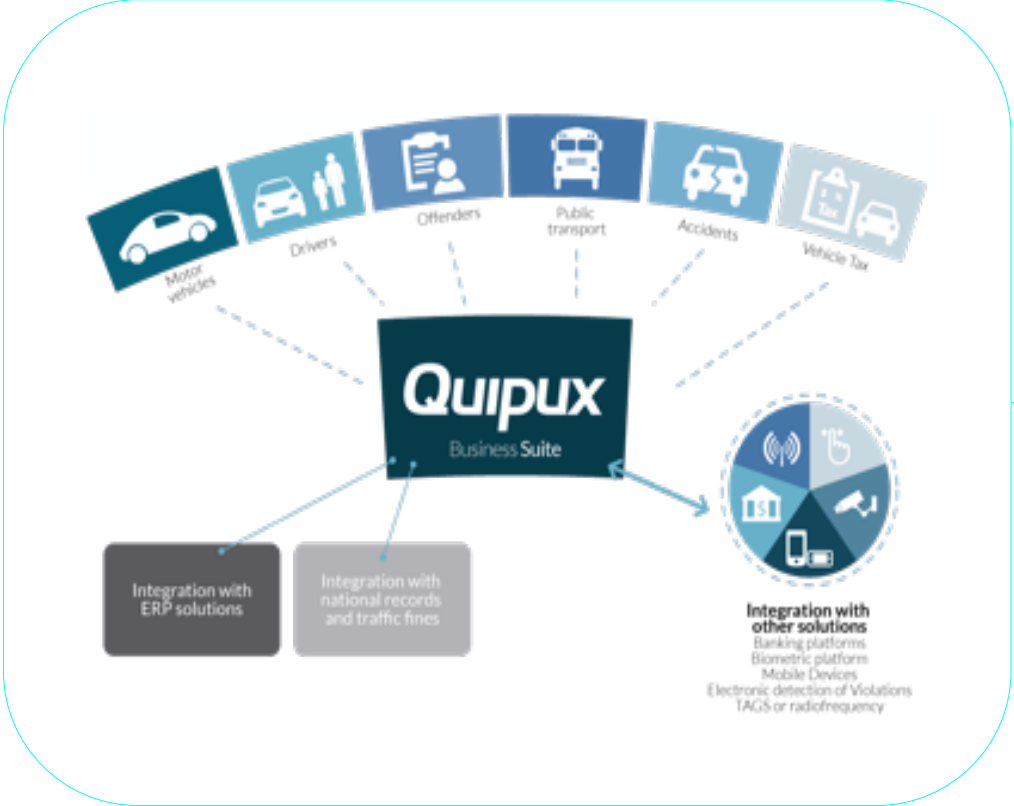


# Respecting the rules





# Smart Mobility Systems



# Achievements



**341**

Avoided injured people (23%)



**Enforcement**

Saved lives



**65.000 million**

The money the city has saved in socio-economic costs due to traffic accidents



**276.900**

People save time, due to timely and verified information on the SIMM's social networks (Twitter, Facebook, Youtube y Flickr)



**65%**

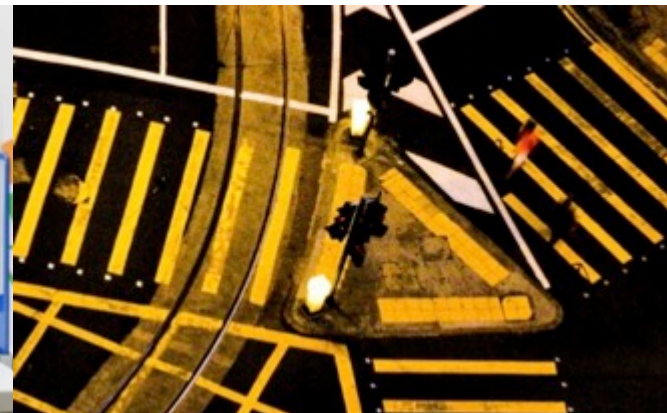
Decrease in photo-detection due to red light crossing and

**69%** in pedestrian walkway invasion



**51.741**

Less photo-detections due to speed exceeding between 2013 y 2014







# Technologies et Savoir faire

Conception, ingénierie, financement, mise en place et exploitation d'un système de gestion intégrée de l'ensemble des activités de transports en Côte d'Ivoire

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# Integrated management of activities



- **New quality service scheme** for the customers.
- Building a secure DB (photo and fingerprints).
- Personal assistance for the customers
- **100%** customer reception.
- Documents available **the same day**.
- Secure transactions or registries modification.
- Respect of the rules by validating the system.
- **Guarantee and conciliation of 100%** of the payments.
- Use of end technology.
- Integration with the Ministry and the other actors.





# Integrated management of activities

## Customer service center



Before



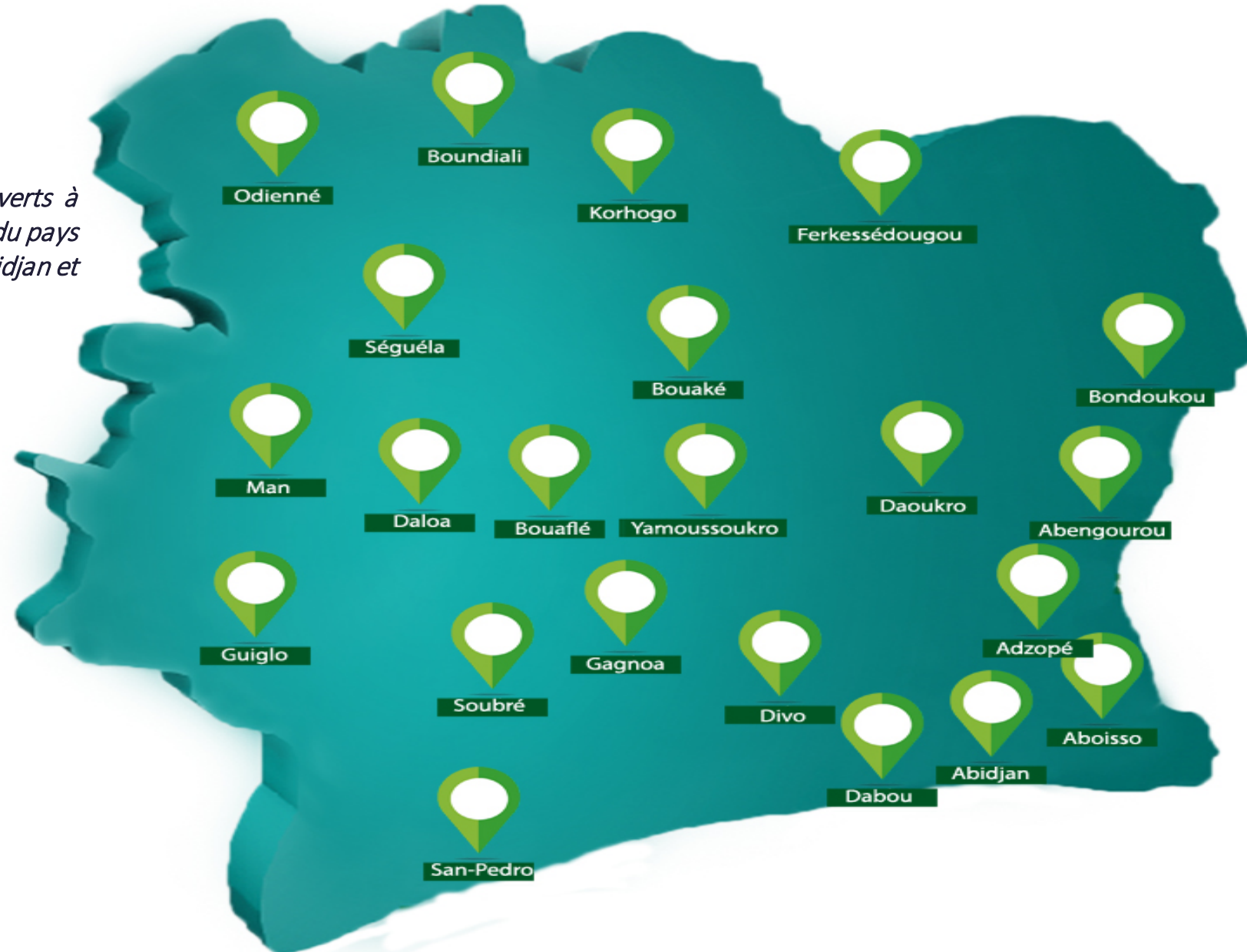
After



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# Etat des points d'accueil des usagers Actuel

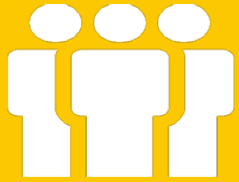
*ce sont au total 106 guichets ouverts à Abidjan et 84 à l'intérieur du pays  
2,008,329 usagers reçus à Abidjan et*





# Drivers school control

Positionner la Côte d'Ivoire en tant que leader régionale de la sécurité routière



Assainissement et renforcement des capacités du secteur des auto-écoles



Formation des candidats au permis de conduire adapté aux exigences de sécurité routière



100% des candidats au permis sont effectivement formés



Processus d'évaluation en centre d'examen automatisé



Les auto-écoles se modernisent et améliorent leur viabilité économique



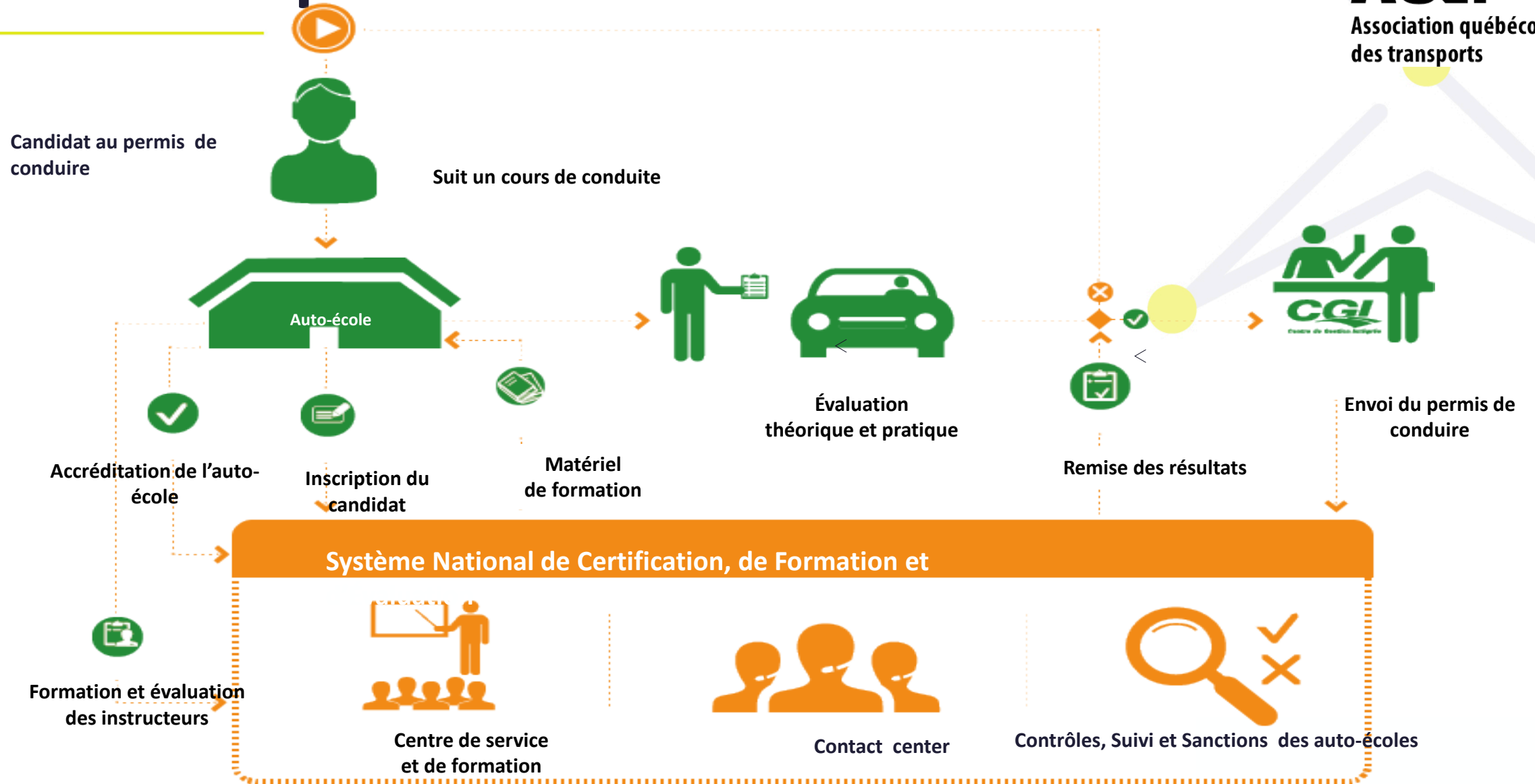
Diminution des accidents

**AQTr**

Association québécoise des transports

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# Modele Operationnel





# Integrated vehicle dismantling control solution

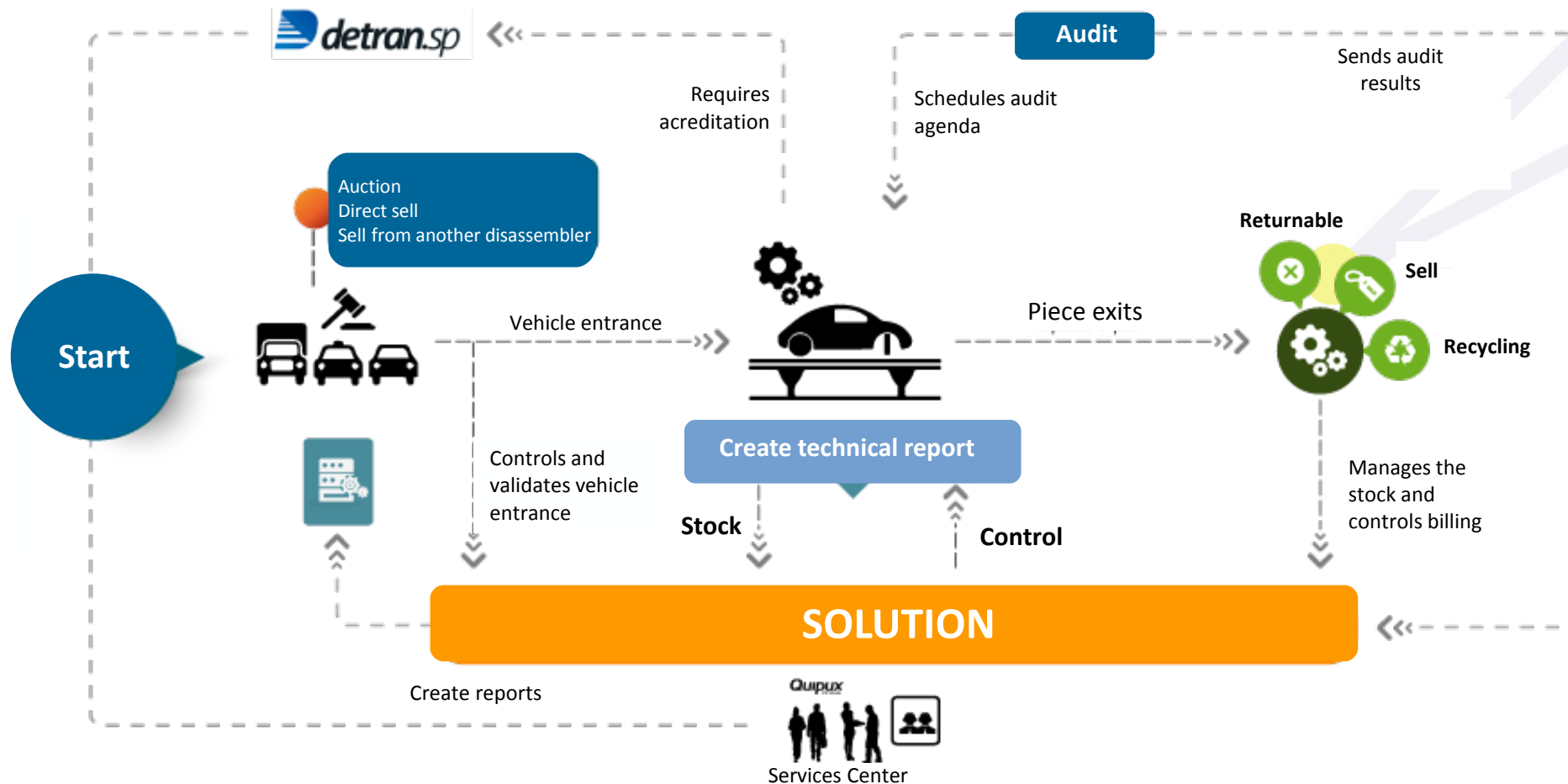
Case of success: Sao Paulo State



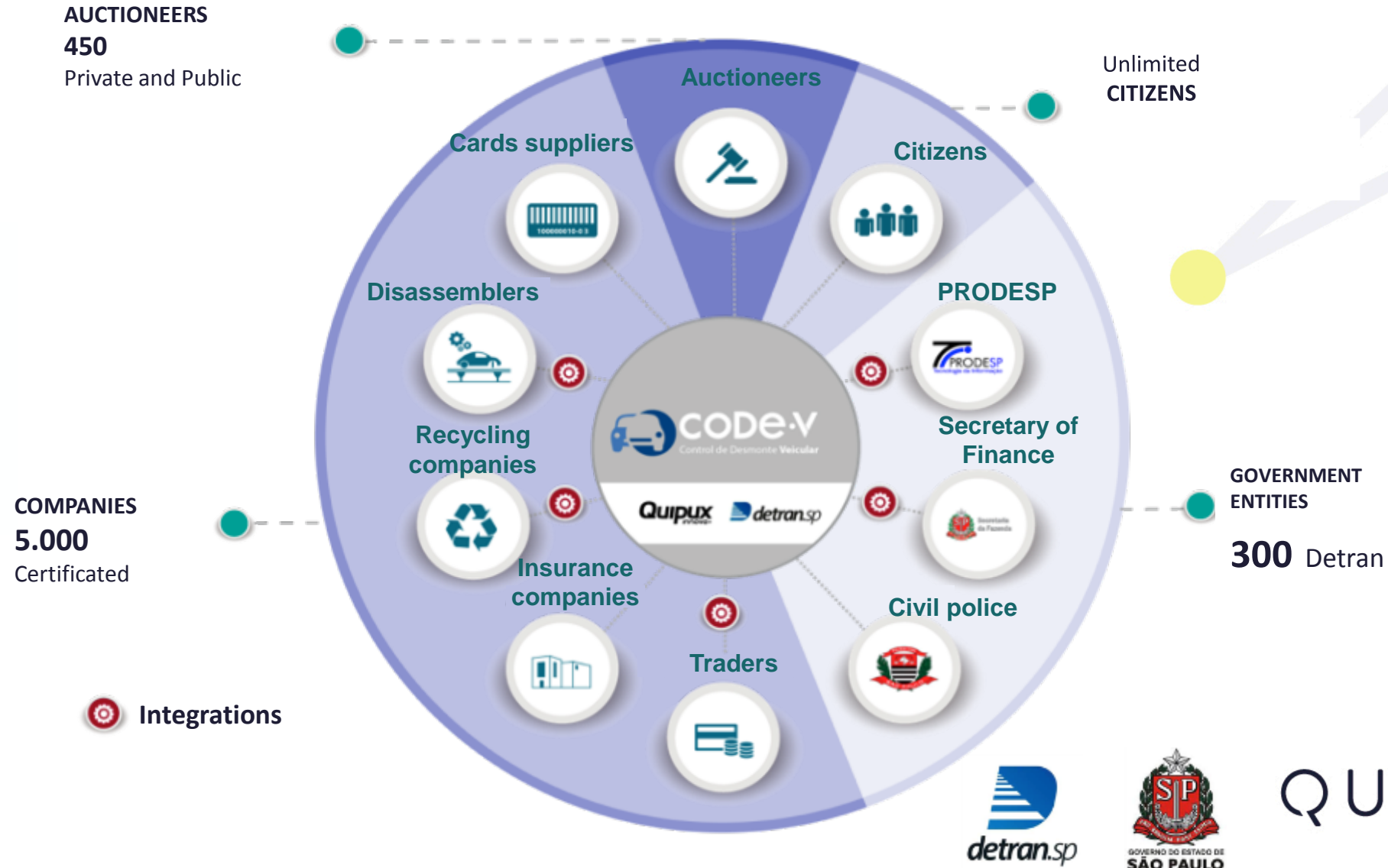
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# Vehicle recycling end-of-life vehicles



# Vehicle recycling – end-of-life vehicles



# Vehicle recycling – end-of-life vehicles

## Brazilian Press



### Lei do Desmanche completa 1 ano e diminui furtos e roubos de carros.

2015, July 1th. Retrieved from <http://g1.globo.com/sao-paulo/noticia/2015/07/lei-do-desmanche-completa-1-ano-e-diminui-furtos-e-roubos-de-carros.html>



### Brasil pode ter seguro popular de automóvel no ano que vem. 2015, December 12th.

Retrieved from <http://g1.globo.com/bom-dia-brasil/noticia/2016/01/carro-usado-pode-ter-seguro-popular-ate-30-mais-barato.html>



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Next innovative solutions ...

# 100% digital services for the citizens



Trámites y servicios Seguimiento a mis trámites Consultas

Entrega de vehículo [Mi cuenta](#)

### Trámites frecuentes

-   
Vender o comprar mi vehículo
-   
Recuperar mi vehículo inmovilizado
-   
Consultar y pagar mis multas
-   
Programar una cita para ser atendido

### Hemos diseñado nuestros servicios para usted

Sabemos que su tiempo es valioso; por eso diseñamos nuestros servicios para facilitarle la vida. Queremos que realice sus trámites, programe citas para ser atendido en un punto de atención, inscriba y consulte sus alertas, pague sus multas, acuerdos de pago y semaforización; desde la comodidad de su hogar u oficina.

-   
1 Diligencie la solicitud del trámite
-   
2 Realice el pago del trámite
-   
3 Reciba su aprobación por correo electrónico
-   
4 Solicite una cita y dirijase al punto de atención
-   
5 Finalice su trámite con la ayuda de un funcionario

# The new driver license

## Use Case #1 – Mobile Driving License (mDL)

- Certified digital representation of a physical driving license document, securely stored and displayed by an App in the mobile device of the license holder.
- License holders can make use of this certified digital copy as an alternative to the physical document, especially in cases where this later one might not be present.
- Security features guarantee the truthfulness and integrity of the displayed mobile Driving License, and can be validated from an inspection device.







Thank you

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