



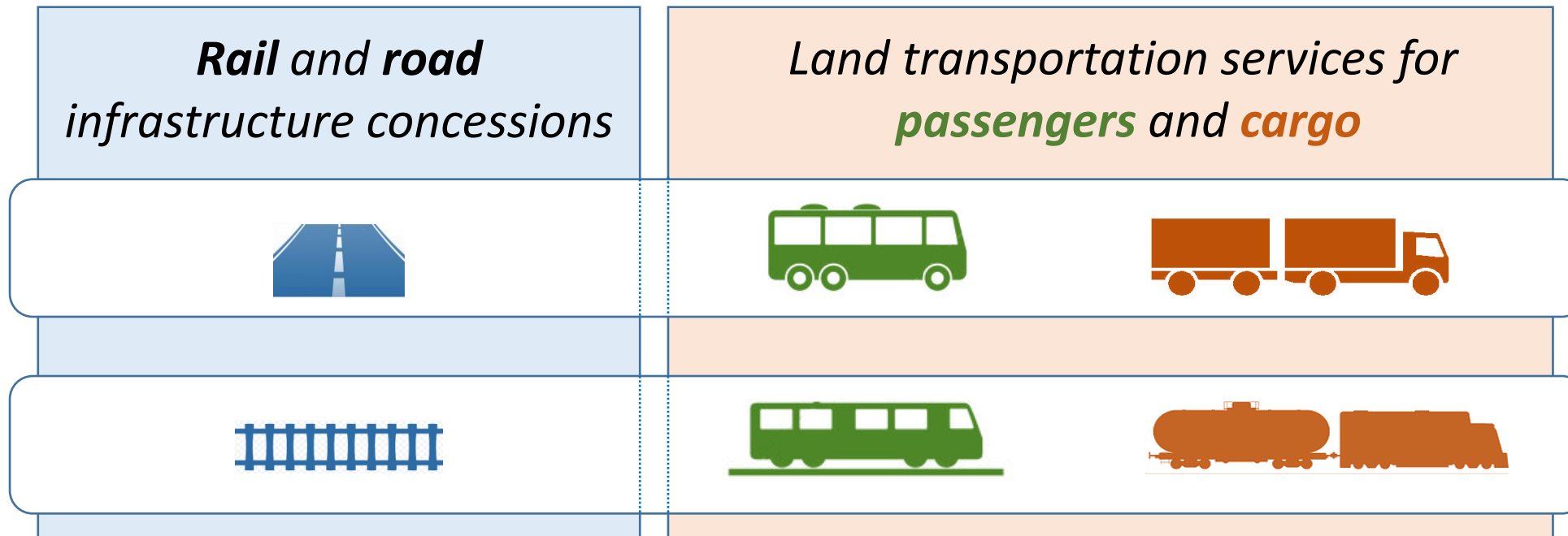
**AGÊNCIA NACIONAL DE
TRANSPORTES TERRESTRES**

NATIONAL LAND TRANSPORTATION AGENCY

Paris - April 16th, 2016.

ANTT Role

Brazilian Land Transportation Regulatory Agency – ANTT Regulates:



PROBLEM IDENTIFIED

ANTT identified some problems that resulted in the **Canal Verde Brasil – CVB**



Brazil has **continental** proportions



Not enough **personnel** to enforce inspections



Inspecting services costs are too high

Regulators must **rely on technology** in order to improve efficiency



LOGISTICS BOTTLENECKS



Santos (SP)

CANAL VERDE BRASIL – CVB



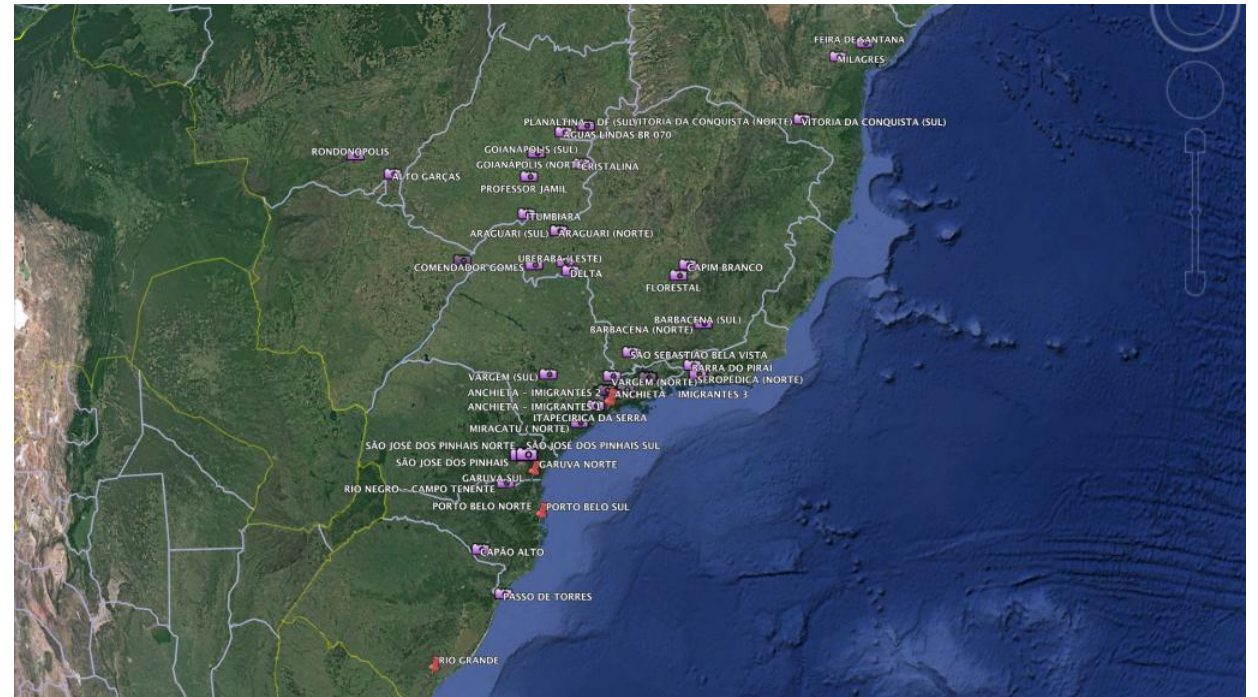
It is an **intelligent national network** for **monitoring** and **mapping** of transport flow on logistic corridors;



Providing **data**, **information** and **knowledge** for market regulation, national logistics planning and economic/financial indicators.

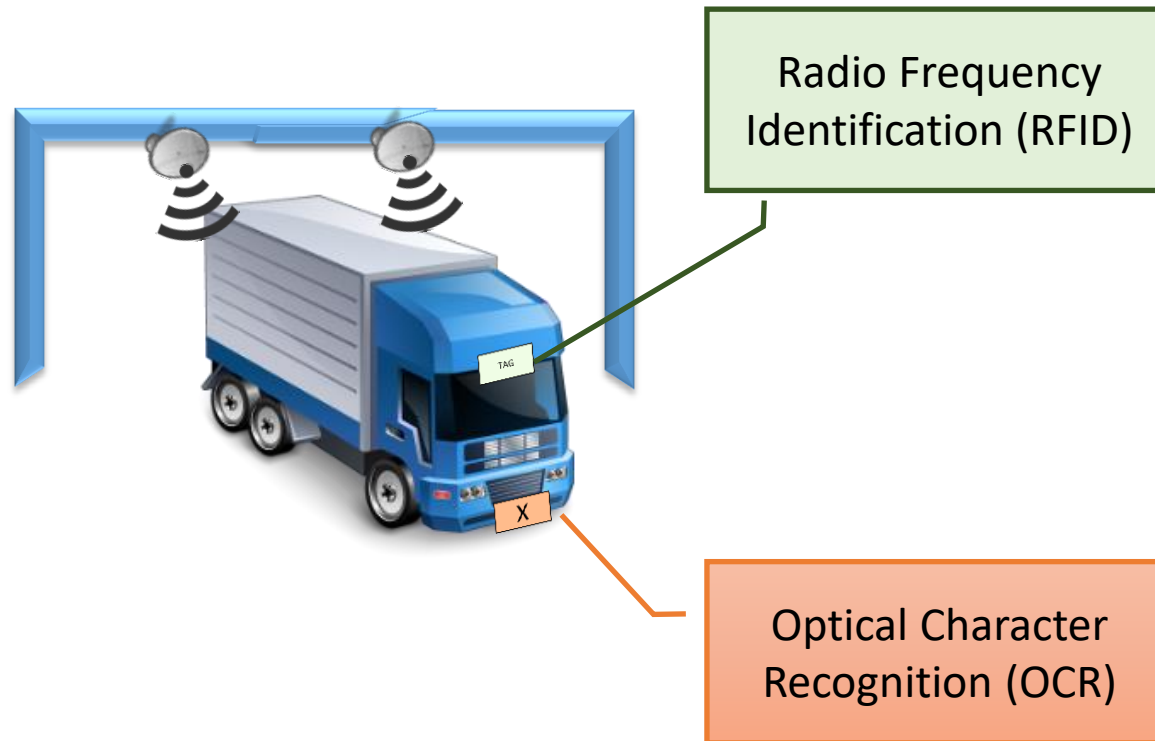
HOW DOES CANAL VERDE BRASIL (CVB) WORKS?

Approximately 55 portals installed in different roads;



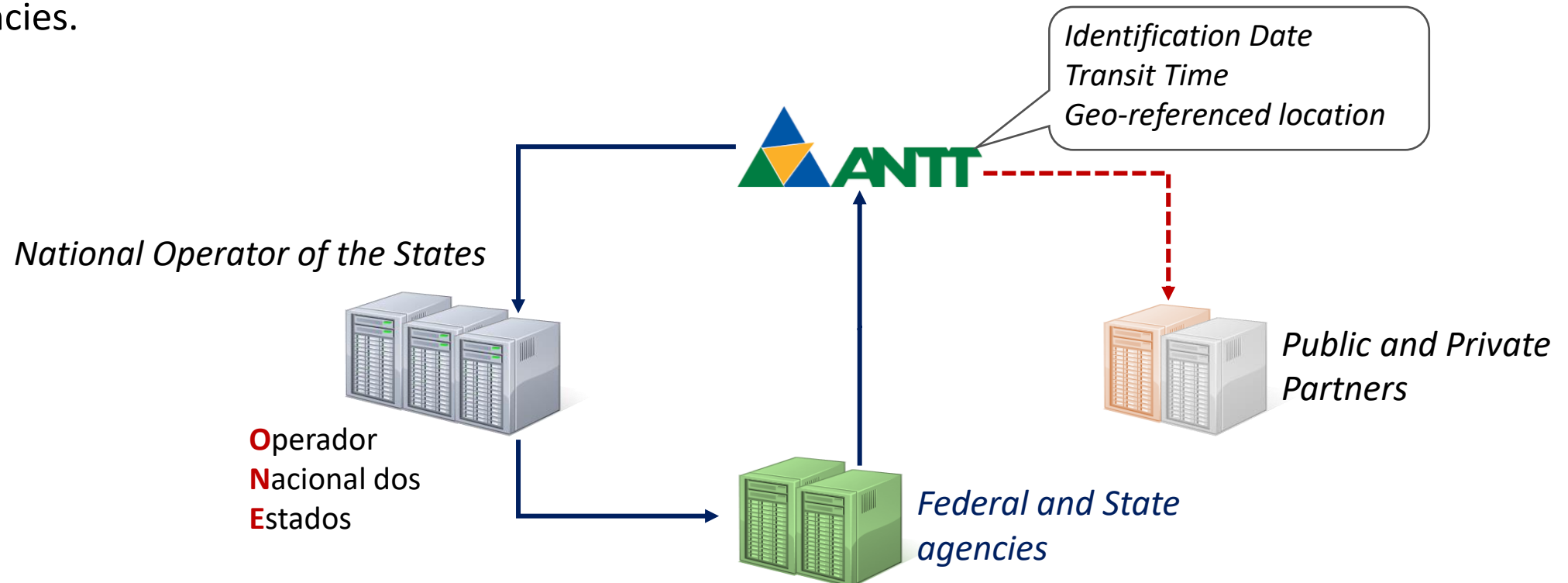
HOW DOES CANAL VERDE BRASIL (CVB) WORKS?

An OCR capable camera and a RFID reader antenna register the vehicle passage



APPROACH AND INTERVENTION

The information registered by the reading point (identification data, transit time and the geo-referenced location) are crossed with information registered in other databases of Federal and State agencies.



APPROACH AND INTERVENTION

Alerts



	NSU	PLACA	DATA HORA	LATÊNCIA
	0002192380	HNO-8032	23/06/2016 10:35:01	52,22 seg
	0002192381	FQF-5938	23/06/2016 10:34:53	01,01 min
	0002192378	GZG-0871	23/06/2016 10:34:36	01,25 min
	0002192359	HHK-8082	23/06/2016 10:34:06	41,33 seg
	0002192361	FDZ-0996		
	0002192364	DPN-7921		
	0002192362	MKR-4276		
	0002192360	ELW-5709		

ELETRONIC INSPECTION - EXAMPLES

The screenshot displays a web-based interface for vehicle inspection. On the left, a vertical list of images shows different views of a blue Mercedes-Benz truck. The main area features a large image of the truck's front with a red line pointing to the license plate 'NAB 9191'. To the right, a sidebar provides detailed information:

- INFORMAÇÕES**
 - DATA VISÃO: **NAB9191**
- INFORMAÇÕES DE PASSAGEM**
 - Município/UF: ALTO GARCAS - MT
 - Logradouro: BR-364
 - Equipamento: FLISD1601A00049
 - Local: 766001
 - Faixa: 1
 - Data/Hora: 21/03/2016 11:03:43
- CLASSIFICAÇÃO**
 - Imagem de um caminhão bitrem.
 - Classe: Bitrem
- INFORMAÇÕES DE TRÂNSITO**
 - Velocidade Aferida: 48
 - Velocidade Permitida: 80
 - Velocidade Considerada: 41
- RESTRIÇÕES**
 - Não possui agendamento.
 - Congelar Fluxo

At the bottom of the sidebar, there is a blue button labeled 'Mais'.

Integrated system with **Port of Santos**, issuing non-scheduling alerts in real time

RESULTS, IMPACT AND LESSONS LEARNT

The advantages of the Canal Verde Brasil (CVB) project are:

- **Reduction of the logistics costs** resulting from the controls on transportation
- **De-bureaucratization** of state apparatus
- **Increased competitiveness** of national products
- **Reductions in public funding and investments** to analogical control processes
- **Increased control** over transportation operations
- **Increased safety**
- **Generation of information and knowledge** in order to improve cost/benefit analysis of regulatory activity on markets, for public policies planning and investments in transportation and logistics sectors.

RESULTS, IMPACT AND LESSONS LEARNT



The integration with Port of Santos system:

- **Before:** BRL\$115 millions per year were the estimated loss due to congestion of trucks
- **After:** Reduction of waiting time for trucks.



Prescheduling system:

- **Before:** almost all trucks got in the Port without prescheduled time.
- **After:** only 7% of the trucks get there without prescheduled time.



Integration with São Paulo State Treasury Office system:

- 6% increase in the collection of the value-added tax on sales and services for São Paulo State



At this point, the results achieved with CVB program for ANTT are:

- *the transportation inspection went from 905,213 vehicles, between 2010 to 2018, to 74 million between 2016 and 2018.*



24/7 Operation

905.213
In loco
inspections
(acum. jan/10 to dec/18)

**The game
changer**

67.215.653
Eletronic
inspections
(acum. may/16 to dec/18)

+7.300%



CANAL VERDE BRASIL - CVB

Integration environment for data related to transport



GOVERNO DO ESTADO
RIO GRANDE DO SUL
SECRETARIA DA FAZENDA



Remote weighing stations

CVB - Portals



SIFAMA



MANIFESTO ELETRÔNICO DE DOCUMENTOS FISCAIS



CASA DA MOEDA DO BRASIL

MONITRIP



Database from other institutions





**AGÊNCIA NACIONAL DE
TRANSPORTES TERRESTRES**

Thank You!