





**ORGANIZED BY** 



**HOSTED BY** 



— milanoserravalle — — milanotangenziali —



# SATELISE®: A SMART MOBILITY SOLUTION FOR ROAD USER CHARGING RESULTS OF THE PILOT PROJECT IN PORTUGAL (2020-2022)

Javier Martínez Ordóñez CEO of Vialivre, S.A.

**ORGANIZED BY** 



**HOSTED BY** 



— milanoserravalle — — milanotangenziali —







#### **TABLE OF CONTENTS**

- 1 Introduction: What is Satelise ®
- 2 Pilot Projet of Satelise ® in Portugal
- 3 Next steps



#### 1. INTRODUCTION: WHAT IS SATELISE ®? I



MILANO 2024

**(**5)

Platform developed by **Cintra**, in limited commercial operation **since 2016** in the C-16 motorway in Spain

(near Barcelona) with 1500 trips per day and 4500 active accounts.



The platform offers a technological solution for RUC, through geopositioning of the mobile device of the use r who only needs to install the Satelise ® app in his/her device.

Instead of physical tolling infrastructure, Satelise ® operates with virtual gantries, based on the concept of geofencing (polygons are drawn over the digital cartography of the infrastructure to be tolled).

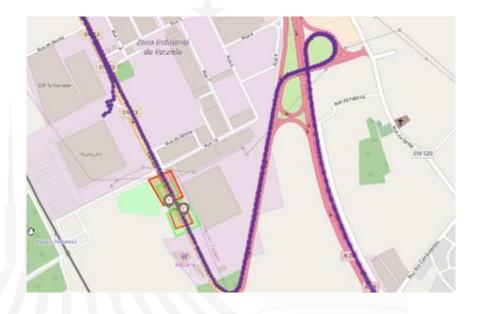
Satelise ® registers the GPS

trace of the vehicle along
the tolled infrastructure,
with toll transactions being
created as the vehicle goes
through the virtual gantries
defined along the corridor
as per the tolling scheme
indicated by the tolling
charger.

#### 1. INTRODUCTION: WHAT IS SATELISE ®? II



















#### 1. INTRODUCTION: ADVANTAGES OF THE SOLUTION





- Optimized implementation timeline
- Minimal CAPEX & OPEX
- Guaranteed Flexibility /Scalability



#### NO NEED FOR A DEDICATED DEVICE

- Simplified commercial distribution
- **Bi-directional communication** between user/service provider.
- Technical interoperability not an issue, as the solution relies on universal technologies

Real potential to transform any existing infrastructure into a "smart road" by application of up-to-date 21st century technologies on 20th century roads.



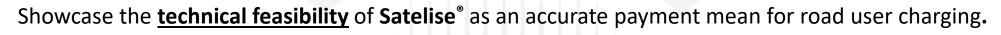
## 2. PILOT PROJECT IN PORTUGAL I Objectives

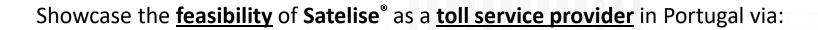




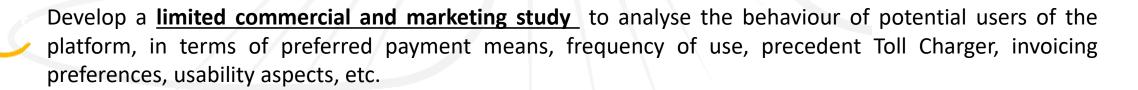


Pilot project in partnership with **Vialivre (Toll Charger)** in the A22 (Algarve) and A28 (Porto) toll roads, in collaboration with **Infraestruturas de Portugal (IP)**, owner of the toll income, with authorization from **Instituto da Mobilidade e dos Transportes (IMT)**, as **Grantor and Regulator**, with the following **objectives**:





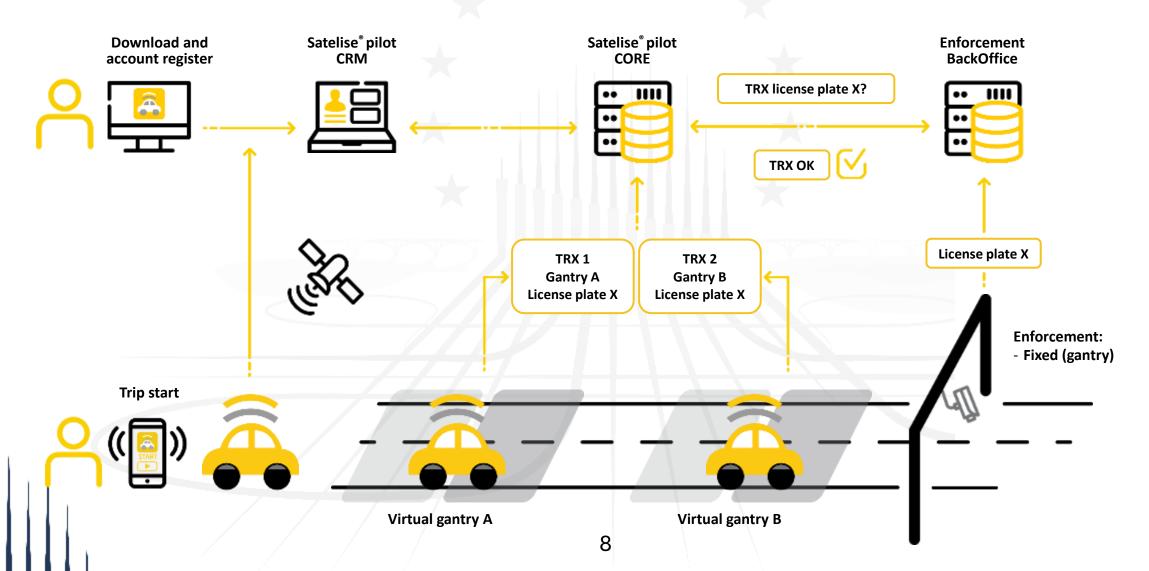
- → Illustrate through Vialivre's example the simplicity of the adaptations needed in the current back office platforms of the existing Toll Chargers to process Satelise ® transactions.
- → Performance of <u>full commercial cycle tests with real users</u>



## 2. PILOT PROJECT IN PORTUGAL II Flow chart







#### 2. PILOT PROJECT IN PORTUGAL III Timeline



	_	2019	2020	2021	2022
	JUL AGO	SET OUT NOV DEZ JAN	FEV MAR ABR MAY JUN JUL AGO SE	T OUT NOV DEZ JAN 21 – DEZ 21 JAN FEV	MAR ABR MAY JUN JUL AGO SET OUT NOV DEZ
SW Development					
Vialivre's Back Office Adaptations					
~Integrated testing					
Demo phase					
Friends &Family					
Commercial testing					
User Acquisition			777		
1 1					



## 2. PILOT PROJECT IN PORTUGAL IV New functionalities after the initial release



	Upgrade Requirement to be fulfilled		Released on
	Availability of the app for testing in A22	The pilot was initially only scheduled to happen in A28, but we detected a strong interest in the users of A22.	14-10-2020
	Availability of post-payment means for the account: "Referências Multibanco" and "MB Way"	Reluctancy of Portuguese users to associate a credit or debit card number as payment mean for their accounts	18-01-2021
	Acceptance of foreign plate numbers in Satelise ® accounts	Direct request from this type of users, especially in A22 (Algarve region)	23-06-2021
	C-Roads – NAP interface	Satelise ® was designated as the driver's interface to receive alerts and other traffic-related messages from the NAP in the Portuguese C-Roads project	23-11-2021





## 2. PILOT PROJECT IN PORTUGAL V Main results (July 2020 to December 2022)





+70.000
DOWNLOADS (APPLE AND ANDROID)



4800 ACTIVE ACCOUNTS



**9225** TRIPS A22 (87%)



**1428** TRIPS A28 (13%)

# USER PROFILE: NATIONAL NOT RECURRENT OR FOREIGNER





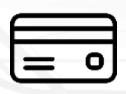
+10653
TOTAL TRIPS



60%
POST PAYMENT



+89%
PAYMENT SUCCESS



40% CREDIT/DEBIT CARD



30%
USERS WITH
FOREIGN PLATE
NUMBER



PUBLISHED VERSIONS OF THE APP, WITH CONTINUOUS FUNCTIONAL UPDATES

## 2. PILOT PROJECT IN PORTUGAL VI Conclusions

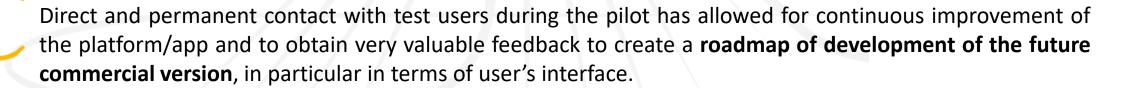




Confirmation of foreseen <u>commercial target</u>: national drivers previously paying by plate or in enforcement phase (>50%) and foreign drivers (>30%).

<u>Commercial and Technical feasibility</u> of the platform has been confirmed by the Pilot considering the main results obtained:

- 1. Technical failures practically non-existing
- 2. High collection success rate (90%)
- 3. Seamless integration of Satelise ® as a third Toll Provider in Vialivre's Back Office, with uninterrupted operation during the pilot without any registered incident affecting regular collection flows.





### 3. NEXT STEPS

#### Commercial implementation in Portugal





Portugal transposed the Directive (EU) 2019/520 in Dezember 2022, through the decree 84-C/2022.



Cintra is analysing the commercial feasibility of Satelise <sup>®</sup> in Portugal as a Toll Service Provider.



Some questions remain open in terms of certification of new toll service providers that want to use solutions for OBE different than a traditional transponder.





## THANK YOU

**GRAZIE** 

Javier Martínez Ordóñez jmordonez@vialivre.pt +351 914 12 96 98





**HOSTED BY** 



— milanoserravalle — — milanotangenziali — ORGANIZED BY

