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44TH ASECAP STUDY & INFORMATION DAYS 2016

The Path Towards an Integrated And Sustainable Mobility in Europe

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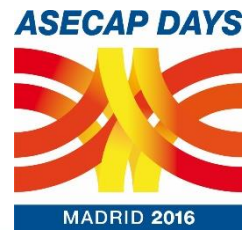


Organized by



Mobile Enforcement Teams

An Effective Tool For Toll Collection Enforcement



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Mobile Enforcement Teams

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01/ Portugal a Reference Country

In famous people:



Cristiano Ronaldo
Real Madrid



José Mourinho

In tourism:



Algarve



Porto / Port Wine and cellars

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01/ Portugal a Reference Country

In road sector:

\ Network
21 Concessions

\ Extension
2.943 km

\ Toll Revenues
€916 millions

\ AADT **
14.092



LEGENDA

- AEA Auto-Estradas do Atlântico
- AEBT Auto-Estradas Baixo Tejo
- AEDL Auto-Estradas Douro Litoral
- AELO Auto-Estradas Litoral Oeste
- AENL Auto-Estradas Norte Litoral
- AE XXI Auto-Estradas XXI
- ASC BLA Ascendi Beiras Litoral e Alta
- ASC CP Ascendi Costa de Prata
- ASC DI Ascendi Douro Interior
- ASC GL Ascendi Grande Lisboa
- ASC GP Ascendi Grande Porto
- ASC NORTE Ascendi Norte
- ASC PI Ascendi Pinhal Interior
- BCR Brisa Concessão Rodoviária
- Brisal
- Euroscut Açores
- Euroscut Algarve
- Lusoponte
- Norscut
- Scutvias
- Via Litoral

Açores - São Miguel

Madeira

Accomplished

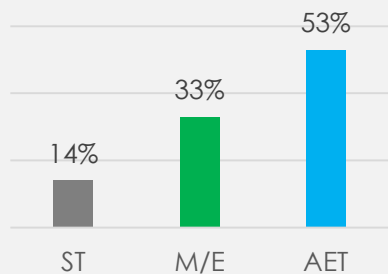
User- pay principle in all highway network

Mobile Enforcement Teams

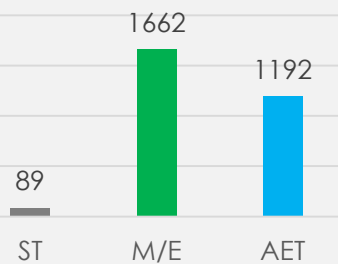
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01/ Portugal a Reference Country

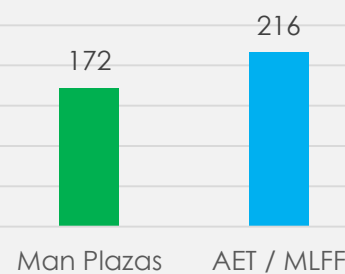
Tolling System per Concession



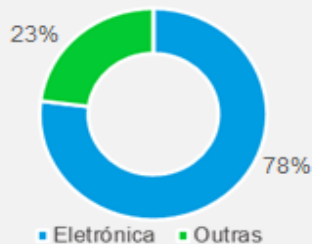
Extension (Km)



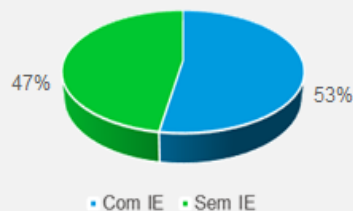
Plazas / Charging Points



% Transactions



% Vehicles with OBU



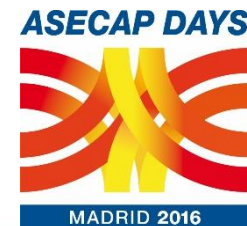
Accomplished

**80%
Electronic
Transactions**



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02/ Ascendi Overview

ASCENDI GROUP
In the World



Around **\$850 M. assets**
under management

Equity stakes in **15**
Concessionaires

Over 3.000 km
of motorways and roads,
including 1.300 km
operated solely by
Ascendi

Sustained activity
in Portugal, Spain,
Mexico, Brazil
and Mozambique

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02/ Ascendi O&M Overview

- Service provider for toll collection operations;
- Manages in Portugal a network of more than **600km of tolled motorways** equipped with All Electronic Systems (AET) based on Multi-Lane-Free-Flow (MLFF);
- 6 operations and **130 charging points** in full operation.

Ascendi O&M

Largest European private operator of AET systems collecting all types of vehicles as a service.



Ascendi O&M AET Operations

Mobile Enforcement Teams

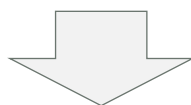
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03/ Enforcement

Universal user pay-principle implemented in all highways;

More than

- 50% of the Portuguese concessions use AET (MLFF);
- 50% of all Portuguese vehicles are equipped with a OBU;
- 80% of all transactions are electronic.



- \ The AET Systems raised concerns related to toll enforced collection;
- \ The ability to accomplish high collection rates without revenue leakage.

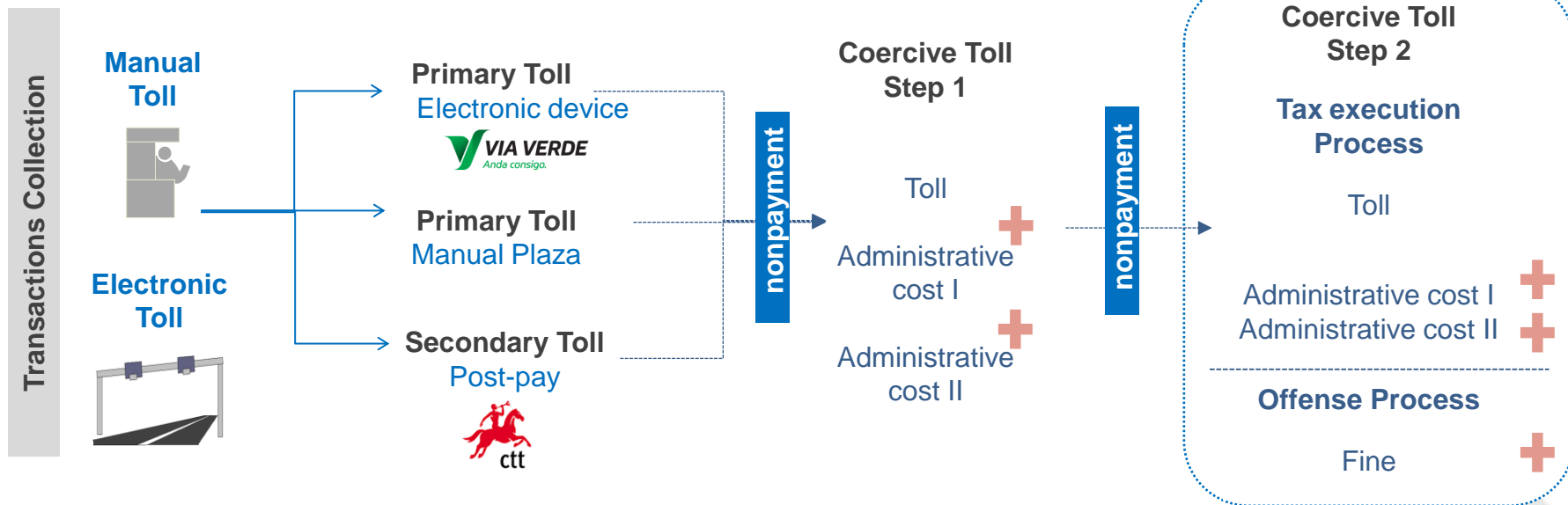
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03/ Enforcement

Road Concessionaire / Operator

Portuguese Tax Authority



Foreign drivers are still a problem

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03/ Enforcement

Teams empowered to
impound user's vehicles
documents and charge
open debts

Everyday operation

From 06AM to 10PM

Stand alone operations (teams of 2)

Operations with Road Police and special
support to Portuguese Road Authority.

To support teams and increase their efficiency,
Ascendi O&M developed new technology ensuring:

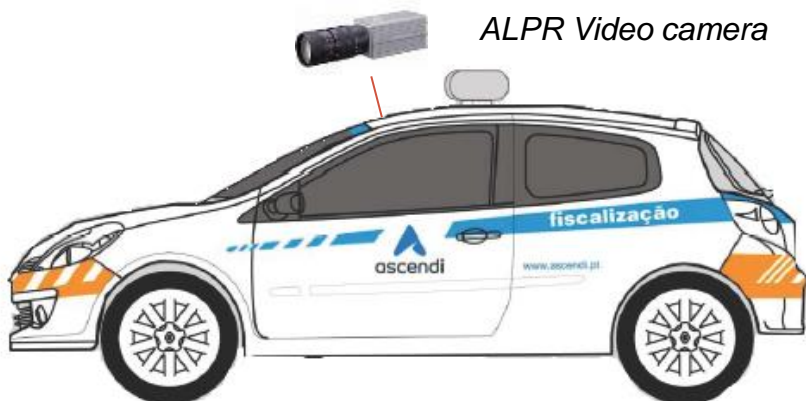
True mobility

Automatic identification of
vehicles with unpaid tolls.

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04/ Mobile Enforcement Teams (MET)



Tablet PC On-Board



Printer



ATM

Awarded

Best technological and business value projects

Embedded Technology for Mobile Enforcement Teams – Portugal CIO Awards 2013



Mobile Enforcement Teams

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04/ Mobile Enforcement Teams

Mobile enforcement system **supports all activities and process of the MET**, namely the identification of the vehicles (ALPR and manual), payments and on-demand invoices, supports basic CRM and shifts management with geo-fencing.


Mobile Application



Back-Office



 Automatic License Plate Recognition

 Data-Base management

Products



Invoices



Transactions

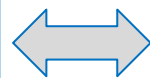


Payments



Complaints and Clients Management

 Shifts Management



GPRS/4G

Wi-Fi

 Data-Base management

 Reports

 Configurations

 Interface with external services

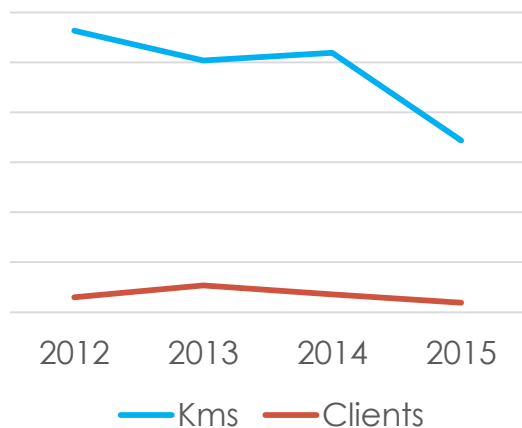
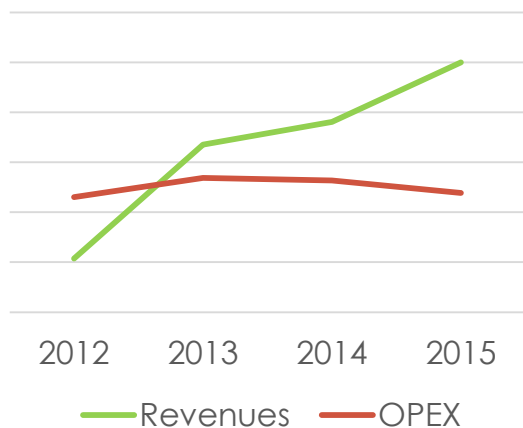
 Shift management

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04/ Mobile Enforcement Teams

Performance Indicators



Products

18% Toll Products
 82% Notifications

Clients

58% Nationals
 42% Foreigners

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05/ Challenges Ahead

MET are an effective tool to **enforce and moralize the AET System**, for Portuguese and Foreign drivers.

The **operational results** of the MET are experiencing **constant growing** in recent years.

Challenge

Improve the capacity of the MET (more cooperation programs with police);

Challenge

Improve the cross-border enforcement programs;

Challenge

Share cross border enforcement information between States of the non payment drivers;

Challenge

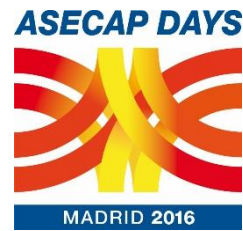
Better information to foreign drivers on how to use these roads;

Challenge

Accelerate interoperability programs implementation currently underway.

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Thank You

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