





EMT MADRID: EXAMPLES OF CUSTOMER CENTRIC-APPROACH

Sergio Fernández Balaguer

Communication and Consultancy department

Empresa Municipal de Transportes de Madrid S.A.

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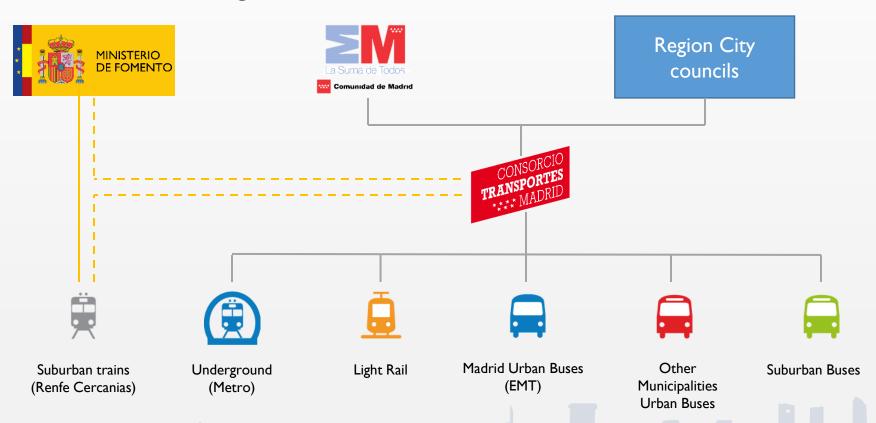




How do we manage public transport in Madrid Region?

Public Transport Institutional Framework

Organizational Structure



The Public Transport Authority of Madrid Region

CRTM - Consorcio Regional de Transportes de Madrid



Since May, 1985 the Public Transport Authority of Madrid Region (CRTM) is responsible for providing and managing all public passenger transport services.

Principal functions:

- Planning public transport infrastructures.
- Managing an integrated fare system.
- Planning services.
- Controlling the financial management.

Madrid Public Transport Company

EMT – Empresa Municipal de Transportes



- Originated in 1920 as a tram company.
- In 1947, EMT is created.
- Since 1972, EMT manages only bus services.
- Limited company owned 100% by Madrid City Council.
- We provide 24/7 service every day of the year.
- Direct management of the urban bus network.
- Since 2013, management of city parking facilities and tows trucks service.



Madrid Public Transport Company

Main figures

5 depots

I,500,000 passengers every day

1,904 buses

85,500,000 kilometers per year

daytime & 26 night services.

8,559 employees



Madrid Public Transport Company

The fleet

72% of our fleet is "green"





- Diesel (50% with filters and catalizers)
- Compressed Natural Gas
- Fully Electric
- Hybrids: Electric+Diesel and Electric+CNG

The first company in Europe with CNG and CNG-Hybrid buses



International Presence

Active consultancy activities: exporting know-how



Activities Abroad

We know of main work field: operation projects.



- Lima (Peru): Currently operating in Lima by Transvial Company.
- Bursa (Turkey): Consultancy for the development of Public Service Contract of the new LRT city transport system.
- La Paz (Bolivia): Consultancy for a BRT system at La Paz
- Da Nang (Vietnam): Consultancy for a BRT system at Da Nang

Why EMT?

Wide experience in urban environments

- Our knowledge strength is the operation of complex systems of networks.
- We are a global operator of transport in large and complex cities with different social and economic environments.
- Experience in the use of different traction systems and alternative energies.
- Own designs of buses, bus stations, workshops and depots.
- Leader in the application of IT technologies for urban transport with our own developments.



What do we do?

After 70 years of managing a big city as Madrid

Demand studies and design of urban transportation routes

Applications technological tools to transport companies.

Engineering for the design of depots and workshops.

Consultancy in Advanced Maintenance systems,

Working tools for operating complex transport networks.

Buses and chassis settings advice.

Examples of customer centric-approach

A way to generate new services and to improve existing ones



- Proximity services with clean fleet (fully electric)
- European projects (with active citizen's participation)
- Payment with contactless credit card (for occasional users and tourists)
- Improved information both on board buses and at bus stops
- New website and social media services
- Smart Madrid



Service of proximity for vulnerable users

Specially oriented to elderly users





Started in 2007

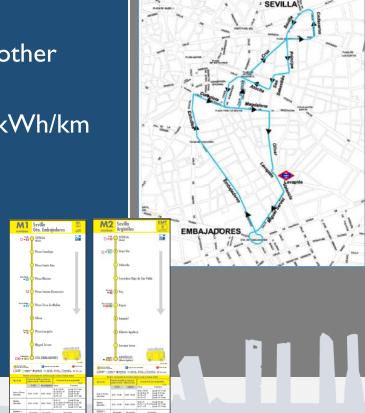
Narrow streets with lack of other means of public transport

Average consumption: 0.84 kWh/km

Commercial speed: 6 km/h

Silent and no local emissions

20 units





EUROPEAN PROJECTS

Fostering public participation

A wide range of research projects.









Sustainable development of SmartCity applications through open and standard platforms,



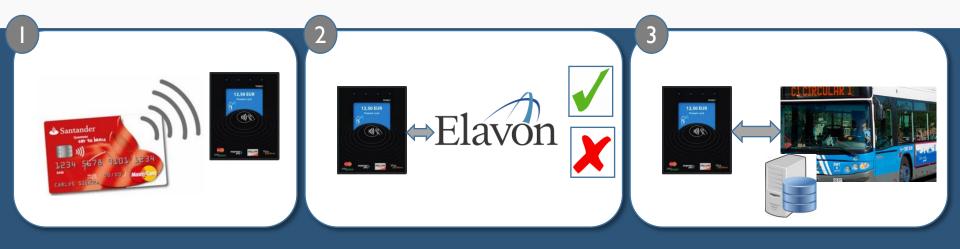
Foster mobility services using a more intelligent use of ITS resources.



Smart City applications + Internet of Things applied to health

Attending customer needs

Tourists and occasional users oriented



- Easy way to pay, being tested now in two bus lines: number 27 and Airport express one
- Target group: 5-6% total EMT passengers
- Launched in March'16



Improved information both on board buses and at bus stops

The better information, the higher client satisfaction

Hyper connected information = higher value for the client



Wifi on board and at bus stops 800 PMV

 These media channels allow us numerous real time features providing fully updated information to our users, specially for those who don't use portable devices (waiting time, incidents, connections, interesting information, warnings, weather information, etc.)

Plan to install information TV screens on board buses

Open data policy since 2011



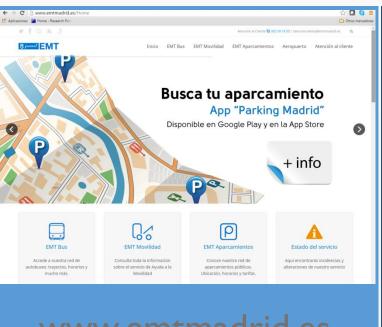




New website and social media services

The better information, the higher client satisfaction

Hyper connected information = higher value for the client



Launched in december'16

Integrating all services (buses, parking, tow trucks, etc.)

Transparency portal (openness)

Responsive web design (RWD)

Specific contents for visitors in 8 languajes

www.emtmadrid.es





New website and social media services

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Essential information and communication channel between EMT and users

Facebook: 30.000 followers

Twitter: 60.000 followers

Instagram, Youtube and corporative blog

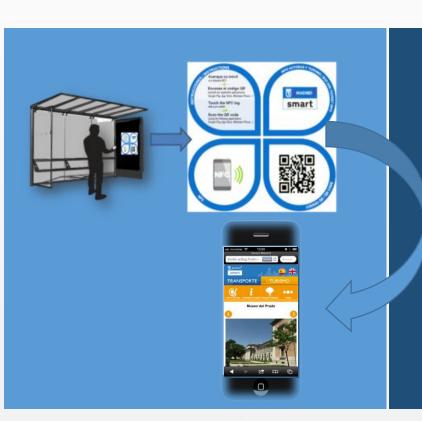
Continually updating our users on the service (changes, incidents, information of interest, etc.)

These channels are a basic tool of active listening; they allow us to have a permanent feedback from our users about complaints, needs, suggestions, etc.



ALL INFORMATION AT A "CLICK"

In cooperation with Connecthings



"Smart Madrid" labels at all bus stops (5.500)

NFC and QR technology

Free of charge

Real time

All information available about EMT service (including tourist information and cultural activity)



Thank you very much! Sergio Fernández Balaguer

sergio.fernandez@emtmadrid.es

Empresa Municipal de Transportes de Madrid



