CATALONIA: THE INTEGRATED APPROACH FOR PUBLIC TRANSPORT SOLUTIONS

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1. CATALONIA PASSENGERS TRANSPORT PLAN (PTVC)

- **PTVC 2008-2012**
- **PTVC 2020**

- Developed
- Public information

**BUS**  ↔  **TRAIN**  ↔  **TICKETING INTEGRATION**  ↔  **QUALITY**

**USERS INFORMATION**  ↔  **INFRASTRUCTURE**
2. CATALONIA TICKETING INTEGRATION

TRANSPORT FIGURES 2014

915,561 trips in public transport (millions)

652,192 trips in integrated areas (millions)
2. CATALONIA TICKETING INTEGRATION: T-MOIBILITY PPP

1. A NEW TECHNOLOGICAL SYSTEM
   (from magnetic system to contactless technology)

2. A NEW FARE SYSTEM
   (pay per use at the end of the month).
   Those who more use public transport, less pay.
2. CATALONIA TICKETING INTEGRATION: T-MOBILITY

3. A NEW MANAGEMENT SYSTEM
(unified customer care center and single platform for public transport information)

4. IMPLEMENTATION
   - October 2016: phase 1
   - 2018: all Barcelona Metropolitan Region
3. T-10/120 CARD: IMPLEMENTATION’S CURRENT MAP
3. T-10/120 CARD. MAIN FEATURES

- T-10/120 allows you to make 10 trips in 120 days.

- **Multipersonal.** It can be used by the same family or user group for their travels together.

- **Contactless technology validation**
3. T-10/120 CARD. MAIN FEATURES

- **Discount of between 40-50% over single ticket**

- **Results**: 50% increase of trips
  65% use of T-10/120
4. Level of Service

expres.cat: BHLS commuter lines

Hierarchy of network (rethinking the bus network)

BHLS (Buses With High Level of Service)

53,8 Million trips
706 bus lines
7.6 fleet average age
62 private companies
152 concessions
1,122 vehicles

Strong Political Support

TOP 40

40% demand
40 bus lines
35 Passengers/expedition
19 BARCELONA
7 TARRAGONA
7 GIRONA
7 LLEIDA
Level of Service
expres.cat: BHLS commuter lines

Main characteristics

- High frequency in peak hours
- Real time information to the user
- 100% accessible vehicles
- More intermodality (with Underground, urban buses, trains, Bicing, Tram, etc)
- Bus stops improvement
- High and competitive commercial speed (prioritization in traffic lights and bus lanes)
- More sustainable and comfortable vehicles (biodiesel, Euro VI)
- Brand new image in all elements
- Wifi and free newspaper on board
- Integrated fare system
NEW NETWORK: EXPRÉS.CAT
INCREASED DEMAND:

BUS EXPRÉS CORRIDORS

950,000 passengers/month

30-35 passengers / expedition

Forecast 2015: 11 M of passengers
Level of Service
expres.cat: B HLS commuter lines

RESULTS:

INCREASE IN DEMAND

2014: **5,5M trips**
Expected 2015: **11 M trips**
e3 Barcelona → 17% more trips
e4 Barcelona → 29% more trips
e1 Lleida → 31% more trips

SATISFACTION SURVEYS

An average of **more than 8 points** (for example, e4 Barcelona: 9,1 points; e2 Barcelona: 8,5 points)
5. Multimodal journey planner: Mou-te

Web http://mou-te.gencat.cat

smartphone: gencat.mobi/moute
5. Multimodal journey planner: Mou-te

- **First multimodal router in Catalonia and Spain**: 1,229 lines, 15,000 stops, 179 operators (public and private).
- **Transport modes**: Urban buses, Metro, Tramway, Regional train, suburban train, long distance train, High Speed train, commuter buses (230 uploads in 2014).
- Multimodal planner: **public transport + private car**
- **Main challenges**: different information sources and frequency of updates.
- **MY WAY European Project**.
6. MYWAY PROJECT

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**INNOVATION**

**Trip Composer:**
- All possible modes of transport: public/private
- External/existing planners
- Meta-planning

**Trip Memory:**
- Learning
- Tracking experience
- Updating → adapting

**Trip Follower:**
- Active monitor
- Alerts → proactive elements
6. MYWAY PROJECT: Multimodal journey planners, user’s preferences (user’s centric vision)
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6. MYWAY PROJECT: TRIP SETTINGS

- Optimisation
  - Cheap
  - Green
  - Sportive
  - Fast

- Preferences
  - Few transfers
  - Less walking
  - Public transport

- Considerations
  - I travel with babies
  - I am bringing my pet
  - I have reduced mobility
  - I am carrying luggage
6. MYWAY PROJECT: TRIP FOLLOWER AND REPLANNING
6. MYWAY PROJECT: REAL TIME INFORMATION AND STATISTICS
7. INFRASTRUCTURES

- **FGC TERRASSA:**
  The extension of FGC in Terrassa with 3 new stations within the city has been put in service on July 2015

- **FGC SABADELL:**
  The extension of FGC in Sabadell with 4 new stations will be put in service during 2016.
7. INFRASTRUCTURES

- FORECAST:

L9 LINE TO THE BARCELONA AIRPORT – EL PRAT

The stretch of L9 Line from Zona Universitària to Airport of Prat will be put in service on February 2016
Thank you!

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