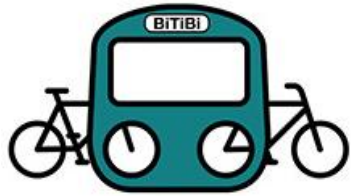




EUROPEAN CITIES AND REGIONS NETWORKING FOR INNOVATIVE TRANSPORT SOLUTIONS



icidbike
one train
at a time

2014 ANNUAL POLIS CONFERENCE

BITiBi Connecting bicycles and trains in Europe

27th November 2014



Co-funded by the Intelligent Energy Europe Programme of the European Union



FGC's Introduction

FGC's mission is to manage with efficiency the services and infrastructures that have been assigned to it as a public company with the aim of contributing to the improvement of the mobility in Catalonia, offering profitable leisure services to the public and managing freight train services.

Within the framework of this mission, FGC is the leading public company in Catalonia as a result of its constant innovation, its constant growth and its respect for the environment.

- 75 M passengers/year
- More than 1,500 employees
- 292.5 km railway length
- 97 stations



FGC has an important territorial presence in Catalonia. FGC participates in forums and international bodies as UITP and UIC.



FGC's main features

Barcelona-Vallès and Llobregat-Anoia - Metropolitan Railways -

Railway length **143 km**

Stations **76**

Stations adapted to PRM **72**

Peak hour offer B-V **32 trains/hour**

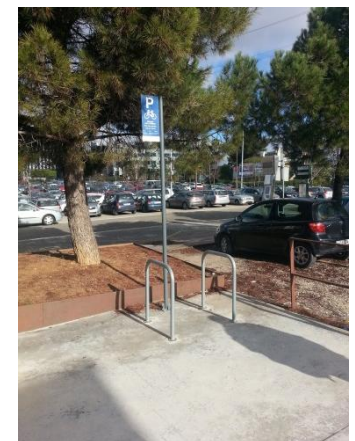
Peak hour offer L-A **15 trains/hour**

Available bike parking places **774**

Sant Cugat **46 places**

Sant Boi **12 places**

“Biciestació de Sarrià” (since 2012) – *Safe and Sheltered*



BiTiBi:

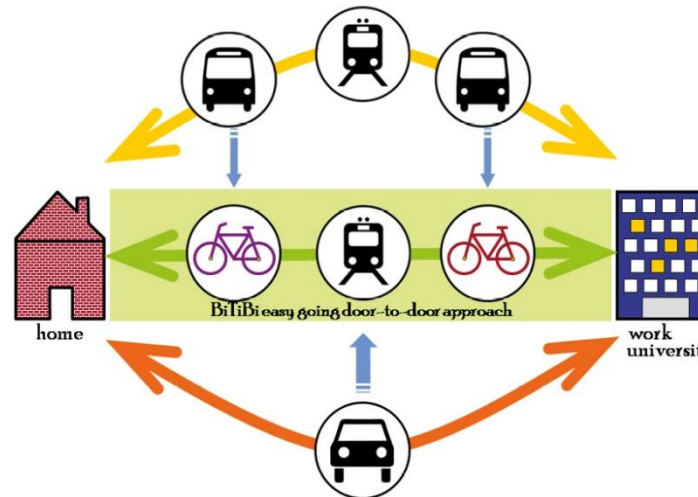
Combine most efficient transport modes into easy going door-to-door transport

The BiTiBi concept

- . Provide convenient travel for users
- . Save energy in transport
- . Provide more clients and revenue for rail operators

The BiTiBi Building Blocks

- . Safe sheltered bicycle parking
- . Shared bicycle available
- . Integrated organization
- . Integrated payment system
- . Positive communication



The BiTiBi project

- . Pilots in Barcelona, Milano, Liverpool, Belgium
- . Substitute public transport journeys by bike journeys
- . Substitute car journeys by BiTiBi journeys
- . 2000 new BiTiBi users
- . CO₂ and energy savings
- . Spread the concept over Europe via guidelines
- . 10 partners, operators, experts, communicator

BIKE - TRAIN - BIKE

15 March 2014 -14 March 2017



BiTiBi:

EU Knowledge exchange 2014-2017

PARTNERS

- Ferrocarrils de la Generalitat de Catalunya
- NS Dutch Railways
- Belgian Railways (Blue Bike)
- Merseyrail Liverpool
- FNM Milano

The «proven» Dutch approach



Merseyrail



FNM



Poliedra
Politecnico di Milano



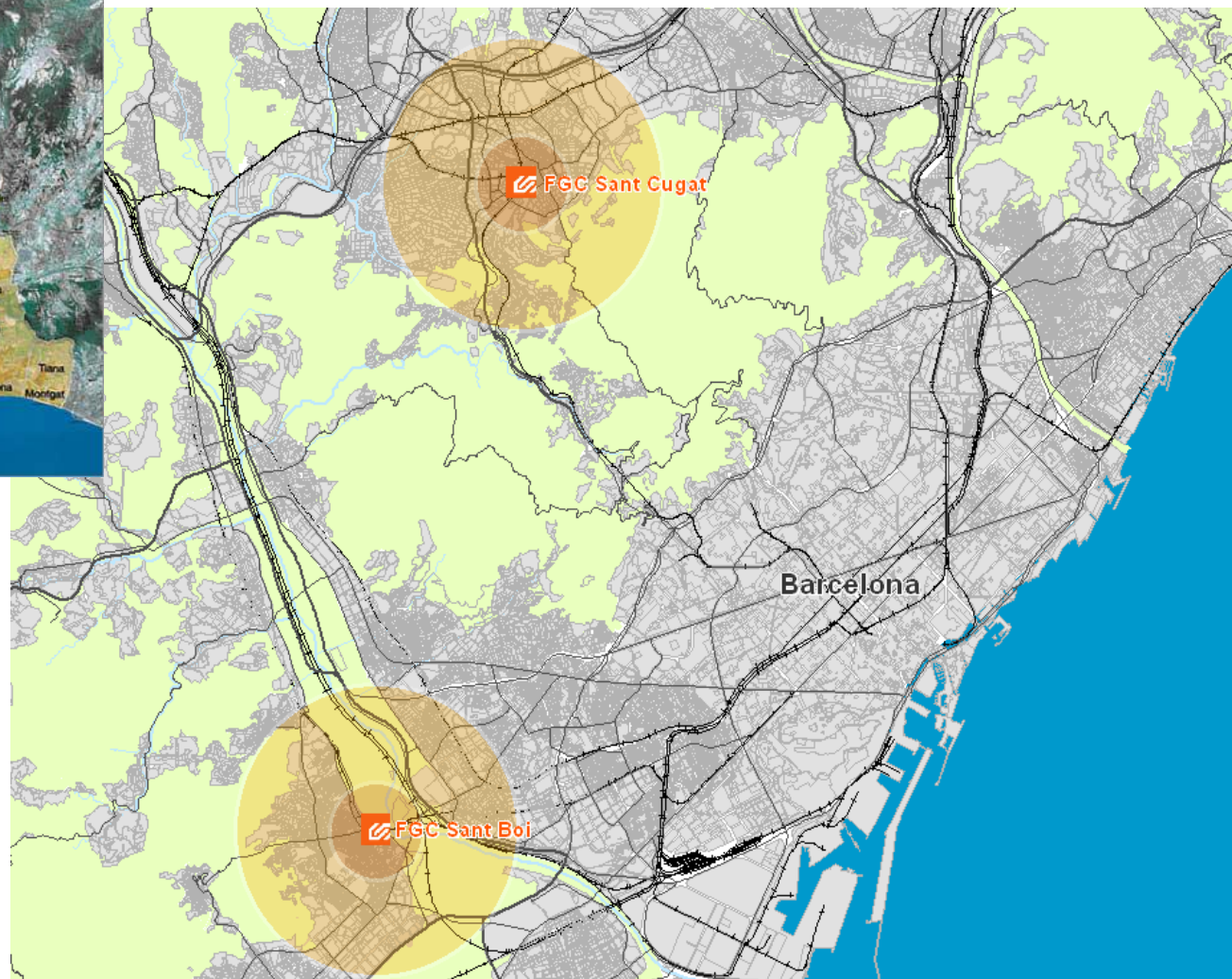
BiTiBi:

Solutions to remove barriers,
based on the Dutch approach

Barrier	BiTiBi solutions	Building block
lack of safe bike parking	safe sheltered bike parking	BB1
no solution for last mile	shared bicycle	BB2
no coherence between bike and train service	integrated organisation	BB3
no or ineffective fare integration	integrated payment	BB4
bike service not corresponding to user need	adapting to needs	Listen to users BB1-BB4
no bicycle friendly access to railway station	attention for bicycle routes	Make cities aware
bike service not known by user	market service to consumer	BB5
cultural barrier	make cycling hot, innovative, normal	BB5



BiTiBi Project - Study area Barcelona Region and FGC



Barcelona Metropolitan Area

- 36 municipalities
- 3,225,000 inhabitants

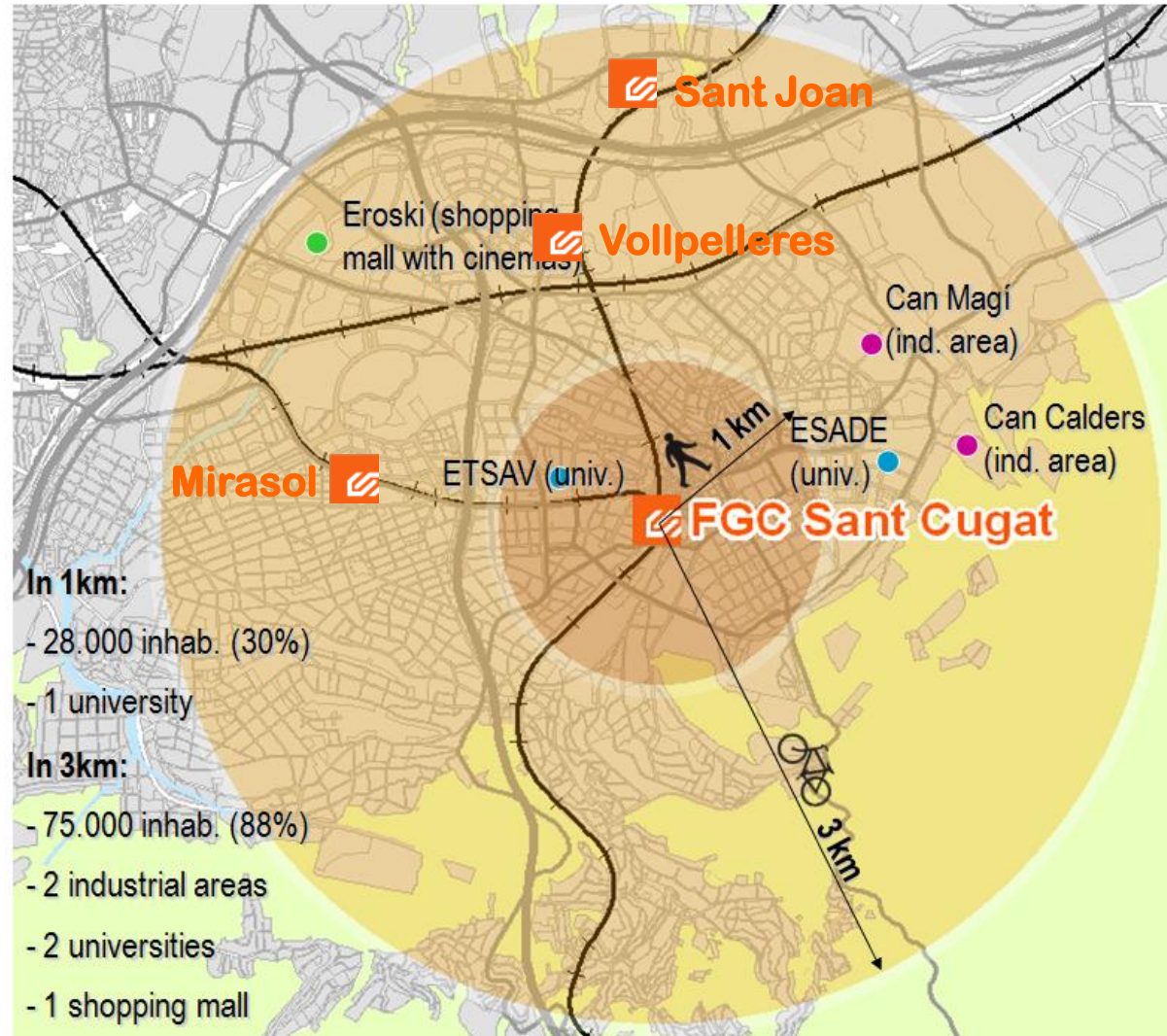


BiTiBi Project - Study area

Sant Cugat del Vallès



- 86,100 inhabitants (52,000 act.)
- 48 km²
- 1 shopping mall, 38 big companies
- 5 public secondary schools, 11 public primary schools, 9 private schools and 4 universities
- Average temperature 14°C (8°C-22°C), 99 rain days
- 9 train stations + 12 urban + 4 metropolitan bus lines
- Modal split to FGC station: 85% foot, 6% bus, 8% car / motorbike, 1% bike

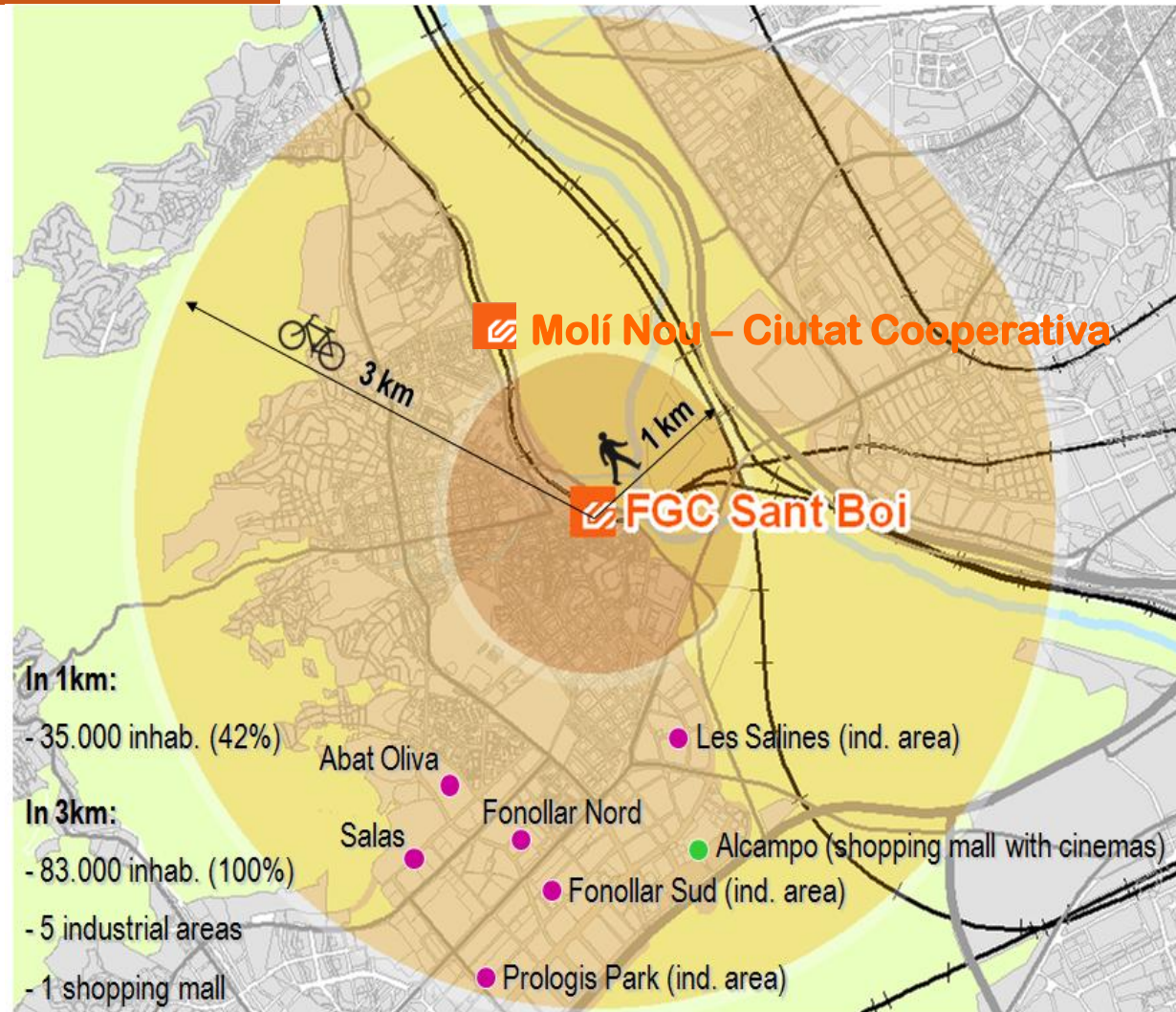


BiTiBi Project - Study area

Sant Boi de Llobregat



- 83,400 inhabitants (54,000 act.)
- 22km²
- 1 shopping mall, 28 big companies
- 5 public secondary schools, 14 public primary schools, 9 private schools
- Average temp 16°C (9°C-23°C), 92 rain days
- 3 urban + 17 metropolitan bus lines
- Modal split to FGC station: 72% foot, 22% bus, 5% car / motorbike, 1% bike



Building block 1 (BB1)

Safe, sheltered and convenient bike parking at train stations

Barcelona Region and FGC

Current situation:

- 70 FGC stations with bike parking
- 774 available bike parking places for FGC users
- Safe and sheltered bike parking (plus shop and workshop) inside Sarrià station (Barcelona), since summer of 2012.



BB1

Safe, sheltered and convenient bike parking at train stations

Barcelona Region and FGC

Local objectives:

- Deciding where and how to implement the safe and sheltered bike parking next to FGC stations.
 - Local governments and FGC have already visited 4 different stations in Sant Cugat del Vallès and 2 different stations in Sant Boi del Llobregat.
 - Creating a bike station managed along with an interested company.
- Creation of safe parking places (*not financed in project*). Local government and FGC will provide a space.
 - Analysis of BiTiBi users' remarks and suggestions collected by:
 - operator
 - managers of the bike-park
 - living Lab
 - Workshops with local stakeholders:
 - evaluating the feasibility of suggestions
 - studying the feasibility of creating FGC bikestation



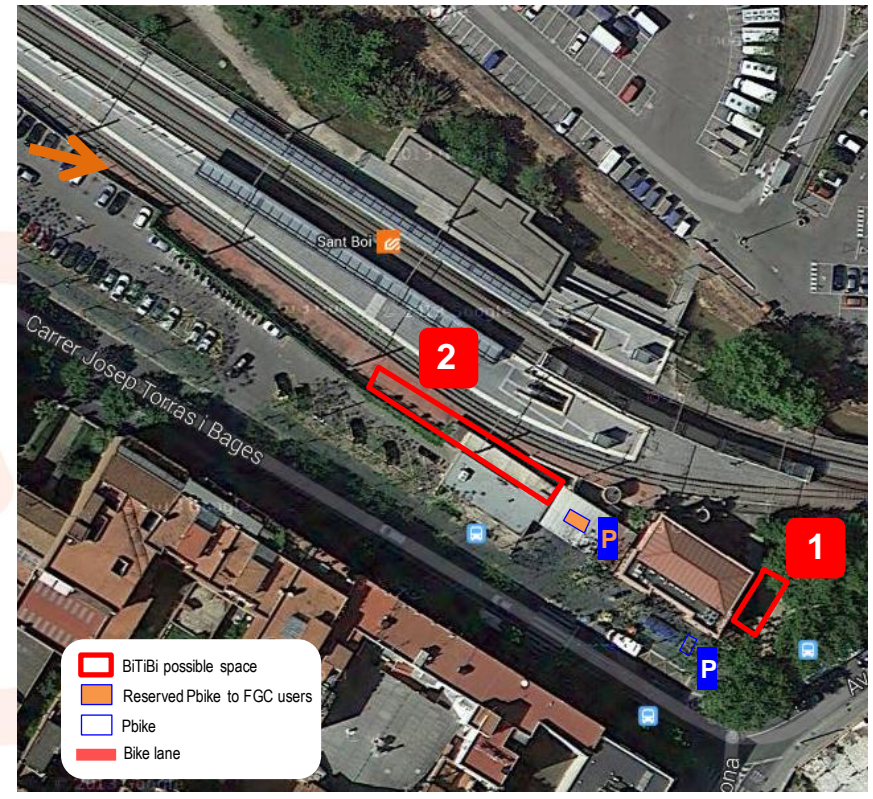
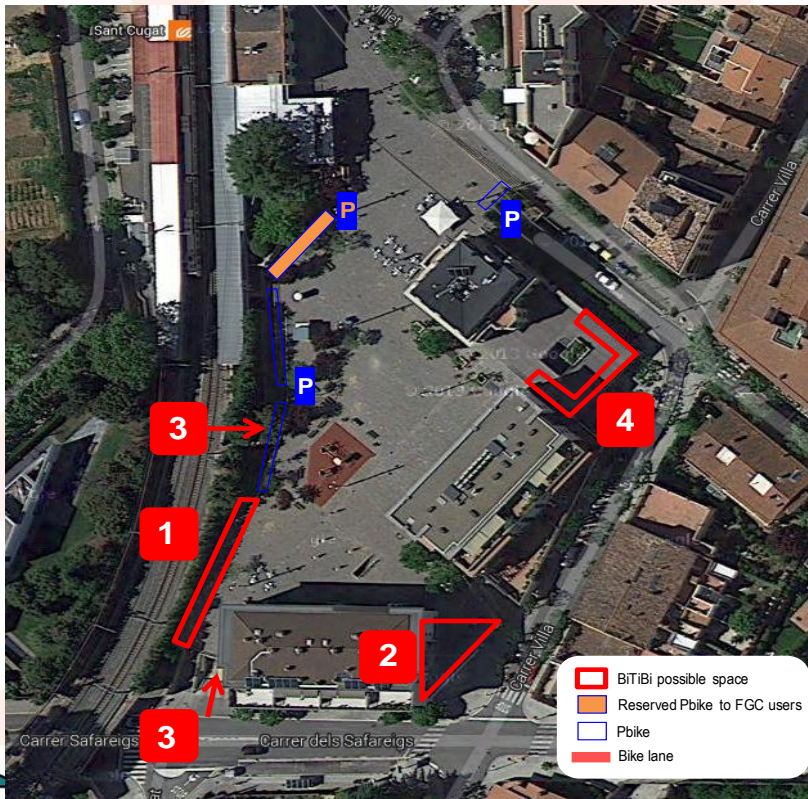
BB1

Safe, sheltered and convenient bike parking at train stations

Barcelona Region and FGC

Sant Cugat and Sant Boi stations

First and last mile



Building block 2 (BB2)

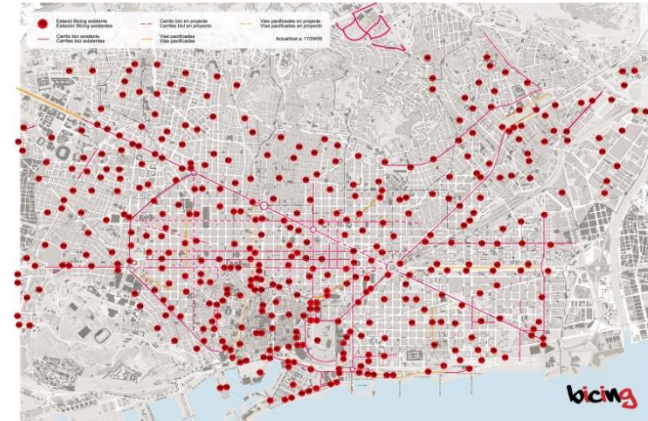
Convenient public bike available

Barcelona Region and FGC

Current situation:

- Barcelona is the only FGC served town with a shared bike system: *Bicing*

- separate operator
- 420 bicing stations
- 6,000 bikes
- 120,000 users



bicing

- In the Barcelona Region two other towns have had a shared bike system (Terrassa and Granollers), but both stopped in 2011 due to economic reasons.

- In Catalonia there is only another town with a shared bike system (Girona with *Girocleta*).



BB2

Convenient public bike available

Barcelona Region and FGC

Actions:

- Contacting local companies and other attracting centers (university, mall, etc.).
- Some companies in Sant Cugat del Vallès and Sant Boi de Llobregat have already shown interest in using a work-station fleet of bikes.
- Reusing bikes from old bike sharing systems (Granollers and rental tour bikes)
 - analyzing the administrative, financial and juridical aspects
 - managing the bike borrowing
 - implementing the system
- Starting negotiations through workshops to set up a local bike sharing system.

Building block 3 (BB3)

Unity of bike-train organisations

Barcelona Region and FGC

Current situation:

- FGC offers some free parking places next to or inside the stations, but there is not a commercial relation between the train and the 'Bicing' or 'Biciestació' systems.

Local objectives:

- Integrating bike fleet to rail services.
- Studying the feasibility of integrating all different bike services to rail services.

Actions:

- Analysis of the administrative, financial and juridical aspects.
- Action plan of concrete steps for integration.
- Follow-up of integration action plan in 3-monthly bilateral meetings including the local municipalities.



Building block 4 (BB4)

Integrated payment system/fare integration

Barcelona Region and FGC

Current situation:

- There is currently no integrated payment system or fare integration for the existing bike services (Bicing or Biciestació) and the train trip.

Local objectives:

- Using a unique card to access to the train, bike park and bike sharing system

Actions:

- Discussing and implementing a fare integration ticket, through workshop, with existing and new bike services.
- Functional analysis of bike and rail systems.
- Analysis of the administrative, financial and juridical aspects.
- Feasibility and action plan with all steps prepared for its implementation.
- Follow-up of integration action plan in 3-monthly bilateral meetings including the local municipalities.



Building block 5 (BB5)

Positive communication and marketing about bike-train combination

Current situation:

- There is information in the trains about the available services in the new Bikestation in Sarrià (Biciestació).



Local objectives:

- Setting a media and marketing plan.
- Informing and convincing potential users.
- Establishing relations with local companies and universities, some of them already identified.
- Expansion of the communication plan to the whole FGC service (76 stations).

Actions:

- A marketing plan will be set up.

Effectiveness of actions will be monitored.



Thank you very much!

jcantero@fgc.cat

scasorran@aimsl.com



FGC
Ferrocarrils
de la Generalitat
de Catalunya

