



Bike-Train-Bike – faster, cooler, easier Seamless energy efficient from door to door 400% return on investment – How to implement?

Bruno Van Zeebroeck- BiTiBi Coordinator (TML)







BiTiBi is...

COMBINING ENERGY EFFICIENT modes!!

- Short distance
- Long distance



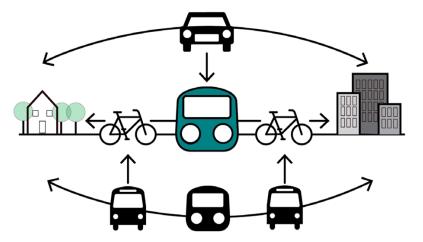




Why **BiTiBi**?

Radius X 5 = Catchment area around station X 25





More train users. More cyclists. Less car users

More liveable cities

Healthier citizens

Cheaper public transport





Why BiTiBi?

		Flexibility		Speed		
Car		Average		Average		
Train		No			Yes (Super fast)	
Bike		Yes (Super flexible)		No		
BiTiBi		Average			Average	
		Acces mode	Station +		Egress mode	Total
		Accesinede	Train		Lgi ess mode	Journey
	BiTiBi in NL's	+/-12 min.		ı.	+/-17 min.	
	BiTiBi in NL's		Train	ı.		Journey
	BiTiBi in NL's Local PT + Train	+/-12 min.	Train +/-38 min	ı. "	+/-17 min.	Journey

	Walking distance	Bicycle distance	Electric bicycle
Distance to station	< 1 km	< 5 km	< 7,5km
% of tot. population living in radius around station	19%	69,1%	81,2%





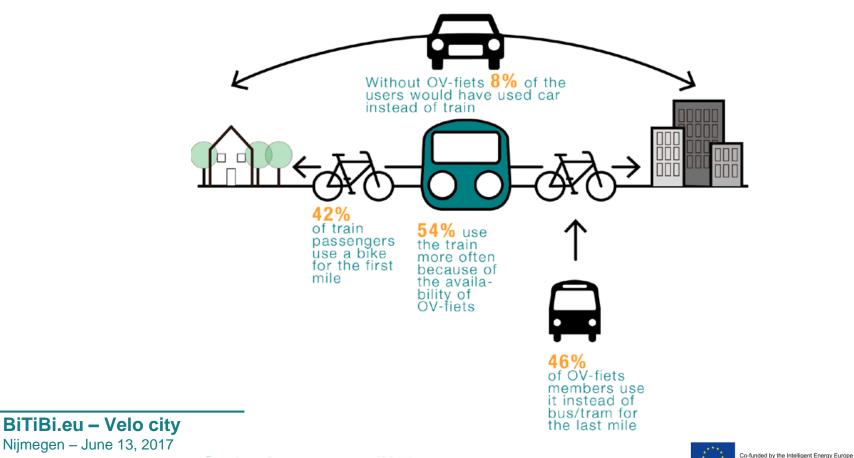


Capacity utilisation	Km. on bike per inhabitant per day.		
****	30300000000000000000000000000000000000	СРН	
*******	ġ.ġ	Madrid	





BiTiBi really works! In the Netherlands...



isicbike oner train

Programme of the European Union

It's worth expanding the concept

Step 1: Current BiTiBi project

Step 2: You in the near future

Get inspired !

Step 3: BiTiBi Plus project

Belgium, UK, France, Spain, Italy, Greece, ... maybe more International Railway Union (UIC) support A 3-year project :

from 2014 to 2017

4 pilot projects...

- Barcelona (Sant Boi & Sant Cugat)
- Milan (Como & Bollate)
- United-Kingdom (Liverpool)
- Belgium (Ghent & Liège)







Implementing BiTiBi services in a good way is easy.

BiTiBi

Only one thing is easier.

Implementing BiTiBi services in the wrong way.





Implementation = easy Wrong implementation = easier





The project defined 6 Building Blocks to overcome barriers

BB1: safe and sheltered bicycle parking (first mile)

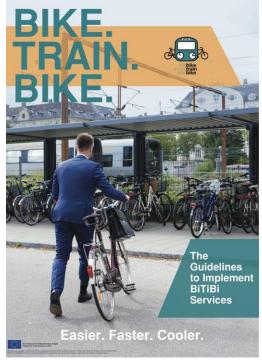
BB2: provide shared bicycle (last mile)

BB3: integrated organisation

BB4: integrated payment system

BB5: positive communication

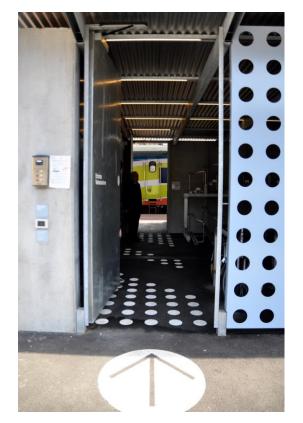
BB6: safe bicycle infrastructure to reach the station



Programme of the European Union



BB1: Safe and Sheltered Bicycle Parking



Como Borghi: bike parking opening on platforms





BB2: Shared Bicycle











BB3: Integrated Organisation

Bike&Go (Liverpool - Merseyrail) Visibility, signage of the bike service

ő James Street River Liverpool Lime Street Low Level 000 Central . do 00 Plail Tickots & -+ Trains operate in this direction only Brunswick Aigl Convenience Store Bus connections to Liverpool John Lennon Airport St Michaels Cycle Hire Interchange Station o (connections to other trains) 00







BB4: Integrated Payment System

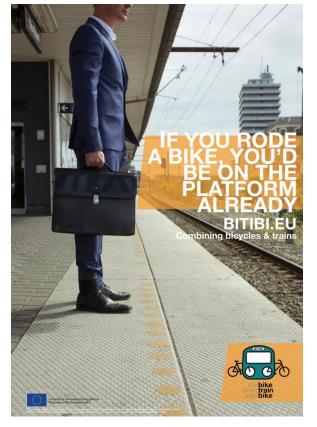






BB5: Positive Communication -Easy, Fast & Cool









BB5: Positive Communication -Making Cycling Desirable

- Make the product visible ٠
- Create partnerships third party payment ٠
- Build a community of users ٠









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

BiTiBi.eu – Velo city Nijmegen – June 13, 2017

FOLLOW

bluebikebelgium, tinahottinger lindemansvdz. t1dblue barley_guy_kappen, tatjana_vdb and dirt_sa_like this

yavapu

vavapu Zwalm. Ofte: niemandsland. Met de bluebike. En ik ben moe. siaailon Van een postbike word ie ook moe__en rood

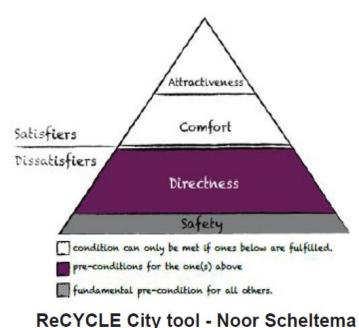
bluebikebelgium Binnenkort #bluebikes met 7 versnellingen in Zottegem 3

yavapu Ze mogen meteen ook een aangepaster en comfortabeler zadel hebben dan :-) bluebikebelgium zo te zien is het

eerder naar voor hellend gemonteerd., we vragen het Fietspunt om ze rechter te zetten! Zadels zijn verder enorm persoonlijk, hebben we intussen wel door.

Add a comment.

BB6: Safe Bicycle Infrastructure



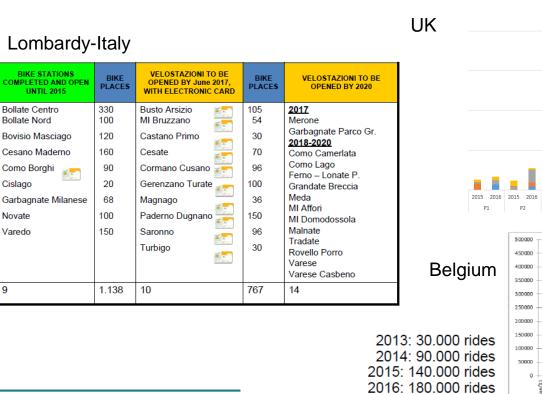
(right)Pyramid Public space for cylist. (left) Successful cycle conditions with sub criteria (Scheltema, N.(2012) Recycle city: Manual p.67)

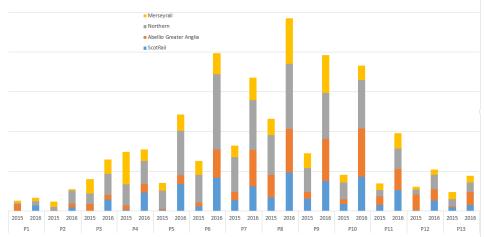


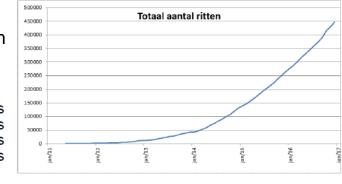




Some Results From Pilots Projects

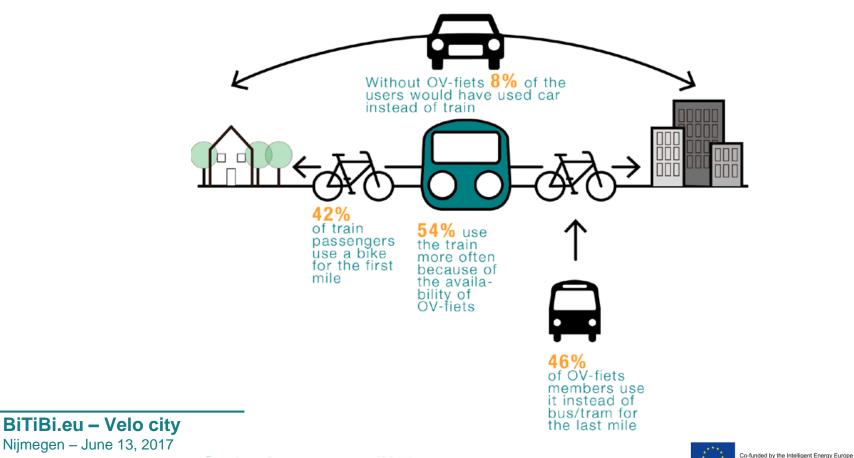








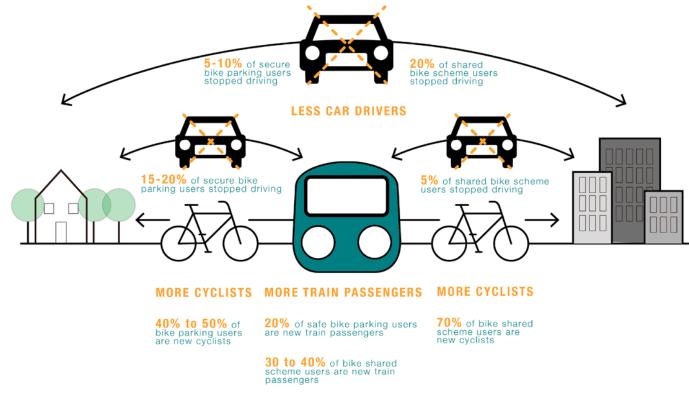
BiTiBi really works! In the Netherlands...



isicbike oner train

Programme of the European Union

...and elsewhere





2030 BiTiBi societal impacts of massive BiTiBi introduction 20% railwayusers cycling to station (4% today)







Reduction of emissions annually:800 ktons of CO255 tons of PM250 tons of NOx



Reduction in annual energy use: 2,500 Mwh



6 400% return on investment rate (bicycle parking)

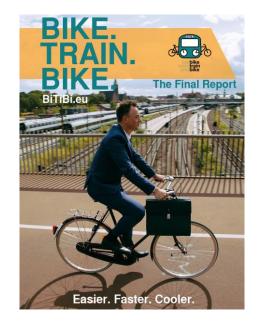








Final report



BiTiBi.eu – Velo city Nijmegen – June 13, 2017

Get inspired

Guidelines



Another Guidelines: Railtoolkit 2 By Rail Delivery Group

Main deliveries also at www.tmleuven.be

Evaluation



October 2016





The BiTiBi Partners



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