



## CIVITAS ELAN STUDY TOUR



**ZAGREB, Croatia and LJUBLJANA, Slovenia**  
21 - 23 October 2013

This study tour, organised by CIVITAS ELAN in cooperation with CIVITAS VANGUARD will see two capital cities and will cover the following themes:

- Improvements in public transport and waste management in Zagreb
- The revival of Ljubljana Old Town using a new pedestrianised area



## About the Zagreb study tour

### *Theme: Improvements in public transport and waste management*

The nine hundred year-old city of Zagreb is the capital and largest city of Croatia with more than 800,000 inhabitants on an area of 641.22 km<sup>2</sup>. Zagreb is the cultural, economic and administrative centre of Croatia. Public transport consists of buses, trams, funicular and suburban trains.

### **CIVITAS ELAN measures presented in Zagreb:**

#### 1) New trams/energetic recovery system for trams – ZET

Tramways are the backbone of public transport in Zagreb. They operate at short intervals and often beyond capacity. ZET started a large scale fleet renewal in 2005, introducing 100 new trams by 2009. Aside from being more accessible and attractive, these vehicles produce less noise than the old ones. A particularly interesting feature is the energy recovery system that allows the team to generate electrical power when braking and feeds it back to the electrical network. More than 700 tram drivers have been trained on how to return braking power into electrical supply network, as well as on how to operate new trams.

#### 2) Clean public transport strategies (CNG, biofuel & emission control) – ZET

Seventeen new CNG articulated buses have been introduced in regular circulation, with a total there of 160 clean fuels and energy efficient buses now in circulation: 100 biodiesel and 60 CNG. All the new buses are labelled with CIVITAS ZAGREB co-financed by the EU stickers. The substitution of the existing bus fleet was done gradually and the new buses were used to organise activities.

#### 3) Clean public fleet (waste management) vehicles – Cistoca

Zagreb aimed to make its fleet of public transport vehicles more sustainable by introducing energy efficient vehicles and raising the share of clean fuels in its fleet.

#### 4) Promotion of electronic PT tariff system – ZET

A new electronic public transport tariff system together with an integrated transport system has been implemented by ZET. This includes a tariff union among public transport operators in Zagreb and the two neighbouring counties in the Zagreb region using ITS. A marketing and information campaign was developed, while the harmonisation of ticketing and vehicle equipment has progressed well. A new improved version of the software has been installed.

#### 5) Dissemination activities and dialogue with citizens on mobility – ODRAZ

The participants will be informed of different dissemination activities and dialogue with citizens on mobility in the Info-point, an old refurbished tram situated in front of Technical museum that was a source of information about the project measures for Zagreb citizens, but also visitors and tourists. It is still open five days a week and continuously attracted visitors. Brochures, leaflets and other information are available to visitors.



#### 6) Studocikl - bike sharing scheme for students

A bicycle sharing pilot project, introduced on Zagreb's student campus Borongaj as the first of its kind, is a big hit among students. The main idea is to provide an alternative means of commuting from the Borongaj campus where most activities of the Faculty of Transport and Traffic Sciences take place to other buildings of the faculty in the centre of Zagreb. The scheme currently consists of 20 bicycles. Studocikl is an example of a good cooperation and partnership between the Faculty of Transport and Traffic Sciences and a civil society organisation ODRAZ – Sustainable Community Development.



## About the Ljubljana study tour

***Theme: The revival of Ljubljana Old Town using a new pedestrianized area***

Ljubljana, capital of the Republic of Slovenia, is an important political, cultural, and economic centre. It has more than 280,000 inhabitants, as a regional centre Ljubljana population rises over 500,000.

### **CIVITAS ELAN measures presented in Ljubljana:**

#### 1) Pure plant oil (PPO) for vehicle propulsion

Agricultural Institute of Slovenia, Department of Agricultural Engineering and Energetics, has invented its own kit for easy engine modification to PPO. The report analysing the using PPO in vehicles, stationary engines and exhaust gas measurements (PM 10) will be presented.

#### 2) Update of a Sustainable Urban Transport Plan

Based on the experience with SUMP in Ljubljana and trainings the Urban Planning Institute of Republic of Slovenia (UIRS) was successful in involving national transport ministry (they supported preparation of national SUMP guidelines and pilot SUMP for small municipality - Ljutomer) and other municipalities (Maribor started with SUMP preparation, Nova Gorica is preparing a regional SUMP with neighbouring municipalities). UIRS has also established a National platform for SUMP with website, newsletters, events, site visits and trainings.

#### 3) Safe routes to schools - presentation

Safe routes to schools are showing very good results on technology part of the measure (interactive web page and its permanent improvements) and on necessary data collection and dissemination/citizens engagement activities. With this Elan measure, together with the Demand responsive services Elan's measure, Ljubljana is one of three finalists (with Edinburgh and Gijon) for the Eurocities 2013 award in category "Smart living".





#### 4) Reduced speed zones

Survey on pedestrian area and reduced speed zones customers satisfaction among inhabitants of these zones, users, shop owners or shop renters has shown that the majority of them have praised the general improvement of the image of the city, public transport, new traffic arrangements, lower noise levels, air quality and positive attitude they have regarding these changes. For these achievements Ljubljana has won the 2012 European award in Barcelona for public space rearrangements.

#### 5) Demand responsive services

Established connection with organizations that provide a mobility service to disabled citizens e.g. Down-syndrome or autism. This has enabled a new mobility service that according to our best knowledge has not been introduced anywhere else. With this Elan measure, together with Safe routes to schools Elan's measure, Ljubljana is one of three finalists (with Edinburgh and Gijon) for the Eurocities 2013 award in category "Smart living".



## Preliminary programme

<b>Day 1 Zagreb 21 October 2013</b>	
12:00	Gathering in ZET (Zagreb PT operator) premises
12:00 - 13:30	Lunch at ZET restaurant, hosted by ZET
13:30 - 14.30	Visit to ZET depot, new buses and trams shown
14:30 - 16.30	Tour of CIVITAS mobility measures by bus: The CIVITAS corridor will be shown, where Information point is situated, including the results of a measure related to PT priority; pedestrian area in the city centre; funicular to the upper part of the town
16:30 - 17.30	Ride Studocikl - bike scheme for students in Campus - (depending of weather conditions)
	Free late afternoon and evening to explore Zagreb, ride a tram or funicular

<b>Day 2 Zagreb 22 October 2013</b>	
9:30	Gathering at CIVITAS ELAN Info point, in front of Technical museum (old refurbished tram vehicle)
9:30 - 10:30	Presentations of CIVITAS ELAN measures, e.g. car pooling, study on intermodal passenger terminal, waste management fleet and similar depending on visitors' interest and availability of experts. More information beginning September.
10:30 - 11:30	Optional - visit Technical museum or ride on public bikes, situated in front of the Museum. Technical museum: <a href="http://www.mdc.hr/tehnicki/en/opci-podaci.htm">http://www.mdc.hr/tehnicki/en/opci-podaci.htm</a>
11:30 – 12:30	Travel to Zagreb Central Station (Croatian: Zagrebački Glavni kolodvor)
12:30	Train from Zagreb Central Station to Ljubljana (Croatian: Zagrebački Glavni kolodvor) (participants are responsible for booking their own train)
14:53	Arrival in Ljubljana Central Station (Slovene: Železniška postaja Ljubljana)
19:00	Dinner for Study tour participants and Ljubljana Elan's measure leaders, (at own expense – location tbc).

<b>Day 3 Ljubljana 23 October 2013</b> <b>City Hall, Mestni trg 1</b>	
10:00 – 10:10	Welcome speech by Mr Zoran Janković, Mayor of Ljubljana (tbc)



10:10 – 10:35	Introduction to topic: Ms Zdenka Šimonovič, COL, CIVITAS Elan coordinator
10:35 – 10:45	Short movie on sustainable projects in the City of Ljubljana (COL)
10:45 – 11:15	Vision on 2020 Ljubljana mobility, Prof. Janez Koželj, Vice-mayor of Ljubljana
11:15 – 11:35	Starting the SUMP process in other cities and towns in Slovenia based on the knowledge and experience from Ljubljana: Dr Aljaž Plevnik, UIRS
11:35 – 11:55	Role of evaluation in the stage of measures and project planning: Dr Branko Kontić, SEM, IJS
11:55 – 12:15	Safe routes to schools, Ms Tjaša Tekavčič, COL
12:15 – 12:35	Bike-rental scheme BicikeLJ, Vita Kontić, COL
12:35 -12:50	Coffee break
12:50 -14:20	The revival of Ljubljana Old Town using a new pedestrianized area, walking and cycling study tour guided by Prof. Janez Koželj, Vice mayor of Ljubljana
14:20 -15:30	Lunch (at own expense - location tbc)
15:30 – 15:50	Pure plant oil (PPO)for vehicle propulsion, Dr Viktor Jejčič, AIS (demonstration in the pedestrian area)
15:50 – 16:20	Demand responsive services, Mr Gregor Cunder, LPP (demonstration in the pedestrian area)
16:20	End of the Study tour

*Please note: Number of participants is limited! Registration is necessary.*



# Practicalities Zagreb

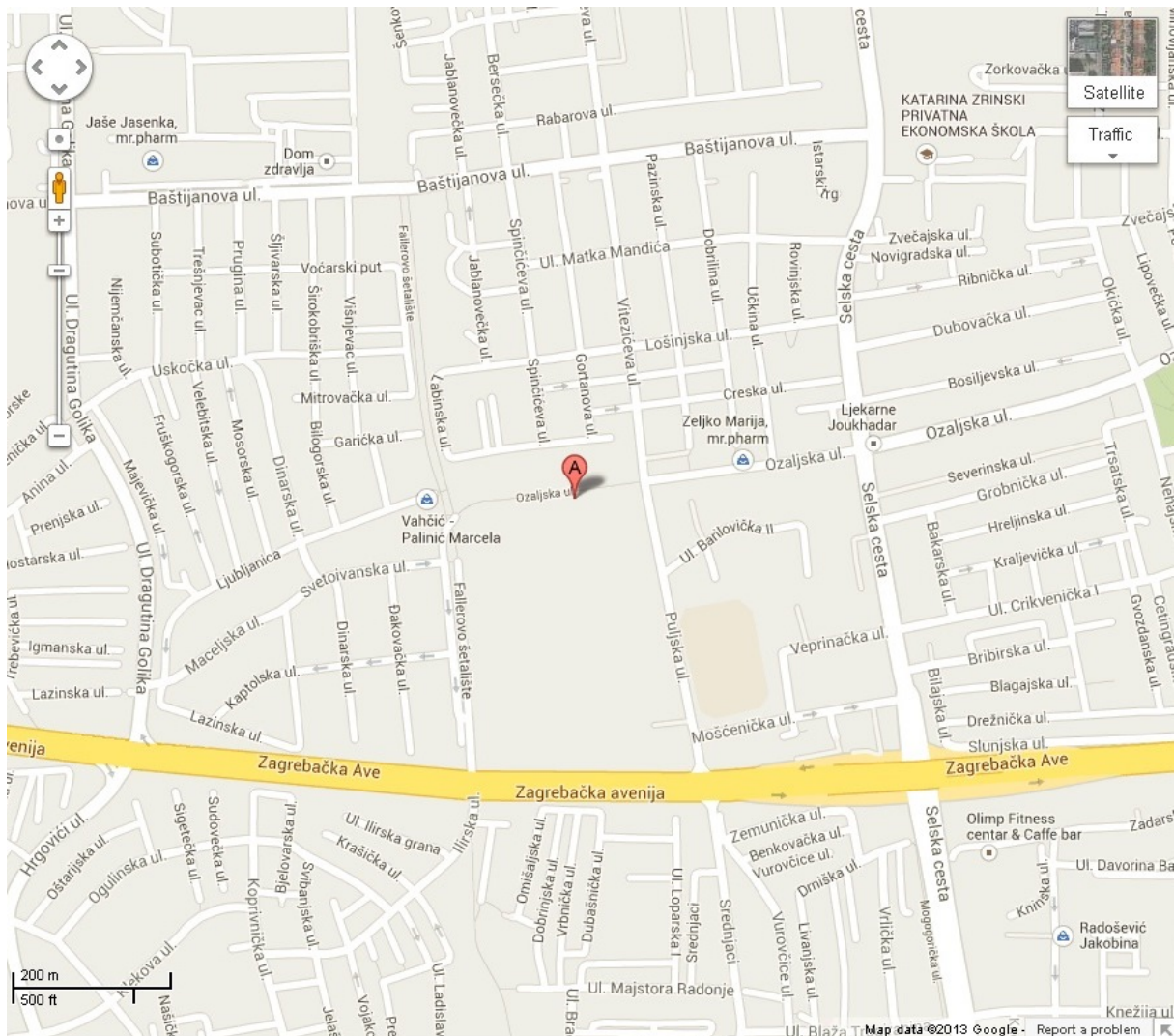
## How to get to meeting point?

### Address meeting point Zagreb day 1:

ZET - Zagrebacki elektricni tramvaj

Ozaljska 105, 10110 Zagreb

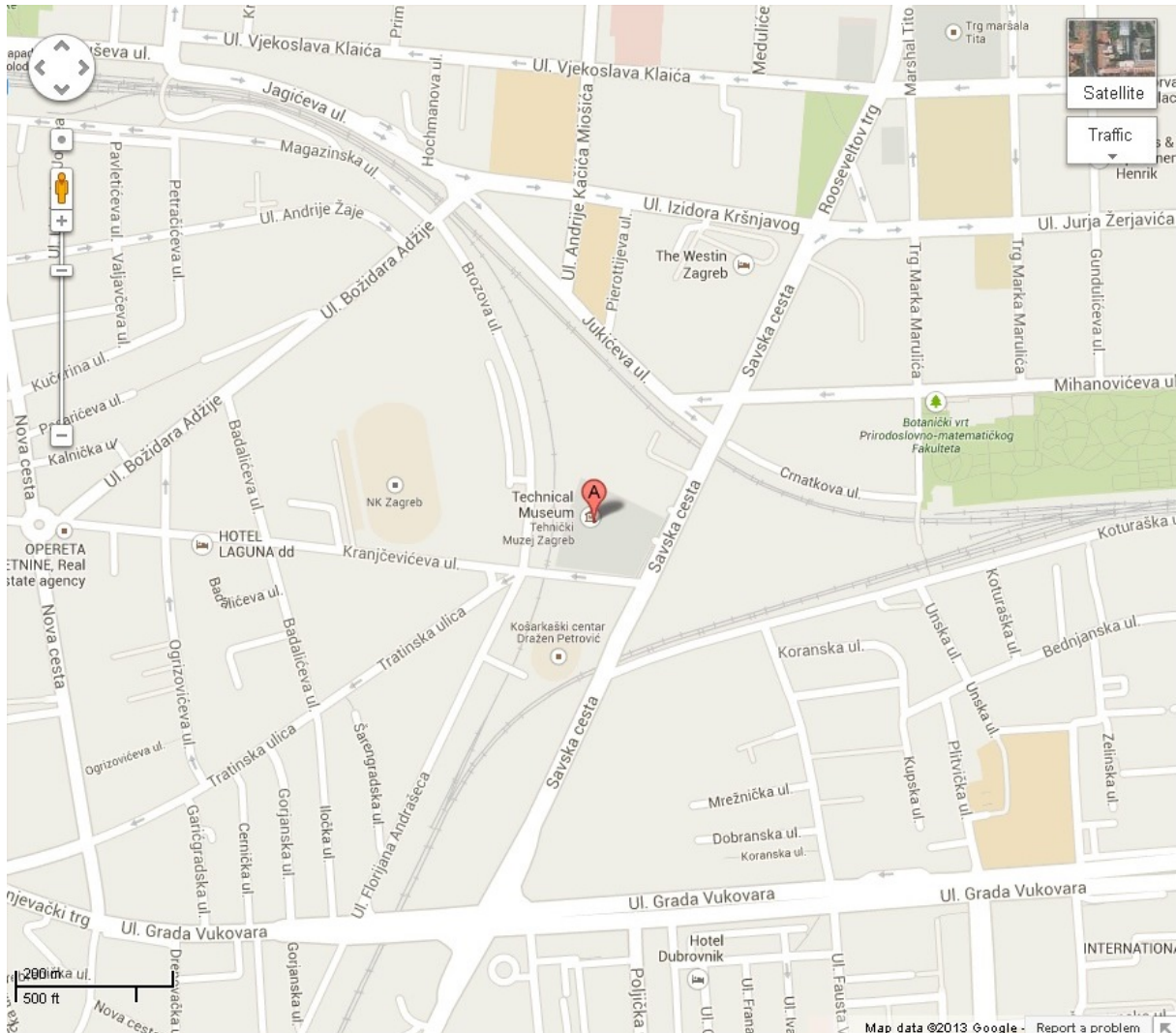
More information: <http://www.zet.hr/english.aspx>



### Address meeting point Zagreb day 2:

CIVITAS information point, in front of Technical museum:  
Savska cesta 18, 10000 Zagreb





## From Zagreb Airport

Bus transfer from Zagreb Airport to the city of Zagreb. Immediately after landing, passengers can use bus transfer from the airport to Zagreb by buses of „Pleso prijevoz Ltd“, which is the official transport company on the route Zagreb Airport – Main Bus Station in Zagreb [www.akz.hr](http://www.akz.hr)

Bus timetable is being adjusted to all aircraft arrivals and departures (international or domestic) and it is published on the following site: [www.plesoprijevoz.hr](http://www.plesoprijevoz.hr)

The starting bus stop is in front of the Passenger Building, and the last bus stop is at the Main Bus Station in Zagreb. The ride takes approximately 30 minutes.

<http://www.zagreb-airport.hr/Reaching-airport-g29.aspx>





## From Zagreb train or bus station

Both Zagreb train and bus stations are situated in the City centre, available by trams and also taxi (app. cost to hotels 5€).

## Hotels Zagreb

There is a number of hotels in City centre, the most of them could be explored and booked through booking.com:

[http://www.booking.com/city/hr/zagreb.hr.html?aid=333365:label=zagreb-nB4Y\\*sLjv5K5e8neUMPFdwS25521619531:pl:ta:p1100:p2260,000:ac:ap1t1:neg:ws=&gclid=CIDIn86M3LgCFcJc3godFAMAZg](http://www.booking.com/city/hr/zagreb.hr.html?aid=333365:label=zagreb-nB4Y*sLjv5K5e8neUMPFdwS25521619531:pl:ta:p1100:p2260,000:ac:ap1t1:neg:ws=&gclid=CIDIn86M3LgCFcJc3godFAMAZg)

## Travelling from Zagreb to Ljubljana

Those wanting to take part in both cities can take a train from Zagreb to Ljubljana where the study tour will continue on day 3. We will be taking the 12:30 from Zagreb Central Station and arrive at 14:53 in Ljubljana Central Station. For booking please visit: <http://www.raileurope-world.com/>. Participants are responsible for booking their own train.

<b>06:50 ZAGREB GL. KOL. 09:06 LJUBLJANA. 2h 16m Direct</b>
<b>12:30 ZAGREB GL. KOL. 14:53 LJUBLJANA. 2h 23m Direct</b>
<b>18:25 ZAGREB GL. KOL. 20:45 LJUBLJANA. 2h 20m Direct</b>
<b>21:20 ZAGREB GL. KOL. 23:36 LJUBLJANA. 2h 16m Direct</b>

## Practicalities Ljubljana

### How to get to meeting point?

#### Address meeting point Ljubljana

City Hall, Mestni trg 1, Ljubljana

#### From Ljubljana Airport

Ljubljana Jože Pučnik Airport is located 26 kilometres to Ljubljana (20 minutes by road).

Address: Zgornji Brnik 130 a 4210 Brnik



Telephone: [+386 \(0\)4 206 19 81](tel:+386(0)42061981)

E-mail: [info@lju-airport.si](mailto:info@lju-airport.si)

Website: <http://www.lju-airport.si>

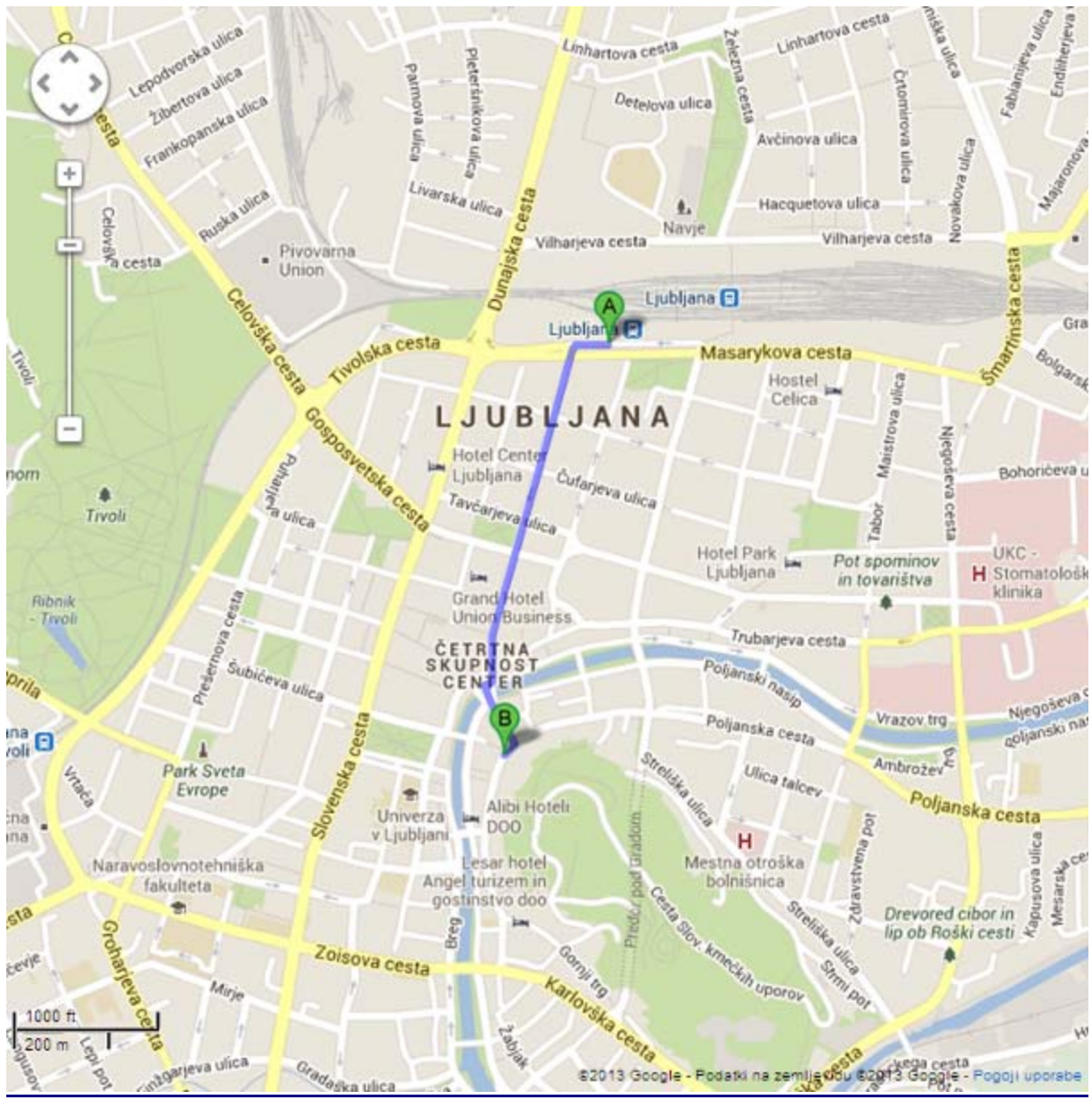
### **Airport transfers**

Ljubljana Jože Pučnik Airport is connected to Ljubljana by a city bus service departing from Stand 28 of the Ljubljana Bus Station. The fare is €4.10. The ride takes 50 minutes. For more information, please call +386(0)1 234 46 00. For a detailed timetable, visit the website of the Ljubljana Bus Station: <http://www.ap-ljubljana.si/eng/>. The airport is also connected to Ljubljana by shuttle buses (charges range from €5 to €19) and taxis (charges range from €20 to €45). For more information on airport transfers, please [click here](#).

### **From Ljubljana train or bus station**

Slovenian Railways: <http://www.slo-zeleznice.si/en/passengers/slovenia>

From the main bus and train station (A) to the City Hall (B) – *10 min walk (via Miklošičeva cesta)*:

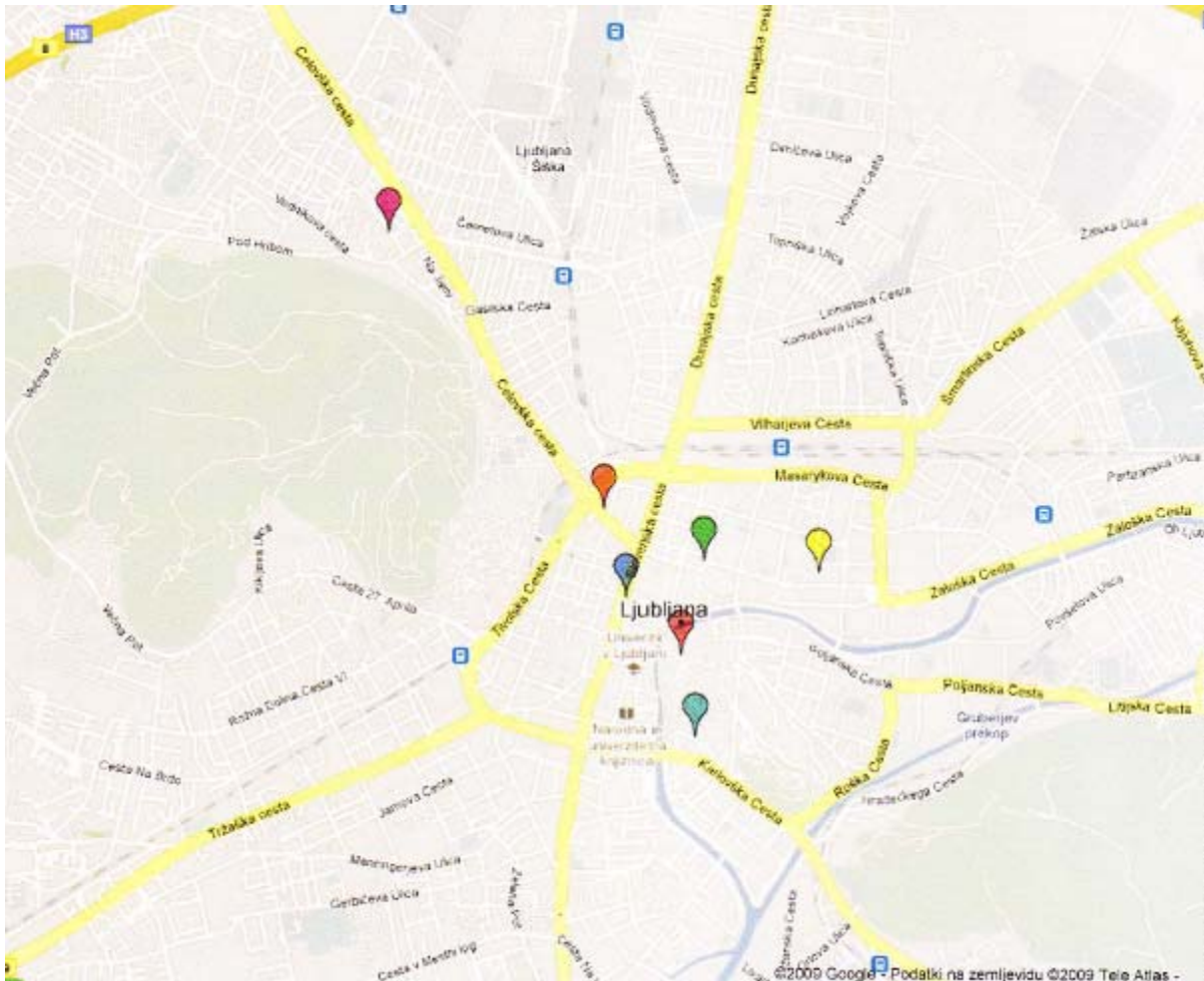






## Hotels Ljubljana

Participants are responsible for booking their own hotels



-  City hall
-  Hotel Slon
-  City hotel
-  Antiq hotel
-  M hotel
-  Hotel Lev
-  Hotel Park

Hotel Slon	<a href="http://www.hotelslon.com/en/">http://www.hotelslon.com/en/</a>
City Hotel	<a href="http://www.cityhotel.si/cms/index.xhtmll">http://www.cityhotel.si/cms/index.xhtmll</a>
Antiq Hotel	<a href="http://www.antiqhotel.eu/">http://www.antiqhotel.eu/</a>



M Hotel	<a href="https://www.m-hotel.si/">https://www.m-hotel.si/</a>
Hotel Lev	<a href="http://www.hotel-lev.si/eng/">http://www.hotel-lev.si/eng/</a>
Hotel Park	<a href="http://www.hotelpark.si/en_home,7.html">http://www.hotelpark.si/en_home,7.html</a>

## Target group

CIVITAS Plus measure leaders and local dissemination managers  
Other CIVITAS FORUM Network cities interested in the topic  
Mobility professionals

## Organisation

This study tour is organised by CIVITAS ELAN in cooperation with CIVITAS VANGUARD.

# Registration

Registration for both cities is available at:

Zagreb [http://www.civitas.eu/registration\\_login.phtml?event\\_id=550](http://www.civitas.eu/registration_login.phtml?event_id=550)

Ljubljana [http://www.civitas.eu/registration\\_login.phtml?event\\_id=551](http://www.civitas.eu/registration_login.phtml?event_id=551)

It is possible to register separately for the Zagreb or Ljubljana study tours however we strongly encourage participants to register for the full package and for both cities.

# Contact

For further information, please contact:

Zagreb: Lidija Pavić-Rogošić - [lidija@odraz.hr](mailto:lidija@odraz.hr) - + 385 (01) 46 55 203

Ljubljana: Vlado Babič - [vlado.babic@ljubljana.si](mailto:vlado.babic@ljubljana.si) - + 386 (1) 306 4306

CIVITAS VANGUARD: Yannick Bousse – [yannick.bousse@eurocities.eu](mailto:yannick.bousse@eurocities.eu) - +32 (0) 25 52 08 68

For more information please visit:

[www.civitas.eu](http://www.civitas.eu)

<http://www.visitljubljana.com/en/>

<http://www.ljubljana.si/en/>



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