



International student's traffic engineering project seminar MEPS

Doc. Ing. Jiří ČARSKÝ, Ph.D.

Ing. Jana JIRKŮ

Doc. Ing. Josef KOCOUREK, Ph.D.

Department of Transportation Systems

CTU in Prague Faculty of Transportation Sciences

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MEPS – history and tradition

MEPS = Middle European Project Seminar:

- **tradition** in cooperation among technical universities in Czech Republic, Hungary and Austria since 1990 ⇒ **already 24 years !!!**
- form to support **project oriented education** at the Faculty of Transportation Sciences (used for **already 18 years**)
- **MEPS** established and organized **at our faculty since 1997** by Department of Transportation Systems
- **target** of this seminar – solve chosen **transport problems** in one of the **cities** in the Czech Republic, Hungary or Austria ⇒ **cooperation of students** groups from 3 various countries

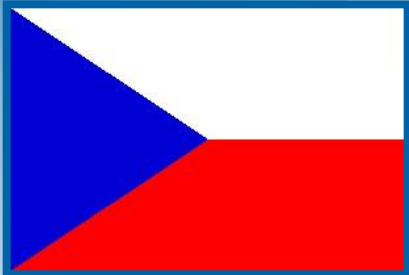


*example: MEPS 2010
(Wiener Neustadt, Austria)*



MEPS – history and tradition

Cooperation of 3 technical universities:



Czech Technical University in Prague

Faculty of Transportation Sciences
Praha (Prague), Czech Republic



Budapest University of Technology and Economics

Faculty of Civil Engineering
Budapest, Hungary



Vienna University of Technology

Faculty for Civil Engineering
Wien (Vienna), Austria



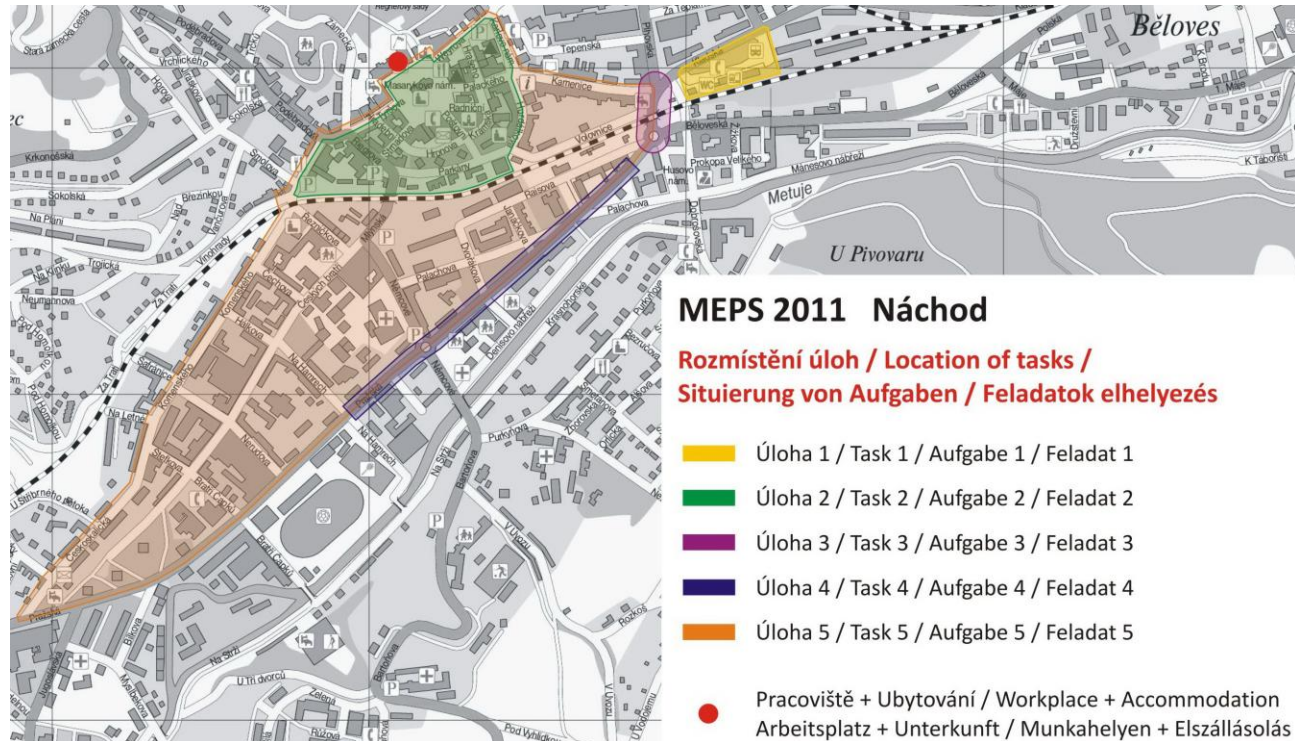


MEPS – choice of topics

topics chosen several weeks **before** the beginning of MEPS (students can think about ideas in advance)

⇒ **cooperation of:**

- representatives of the **city**
- transport **specialists**
- **organisations** focused on regulation and planning of traffic in the chosen area
- organizing **university**



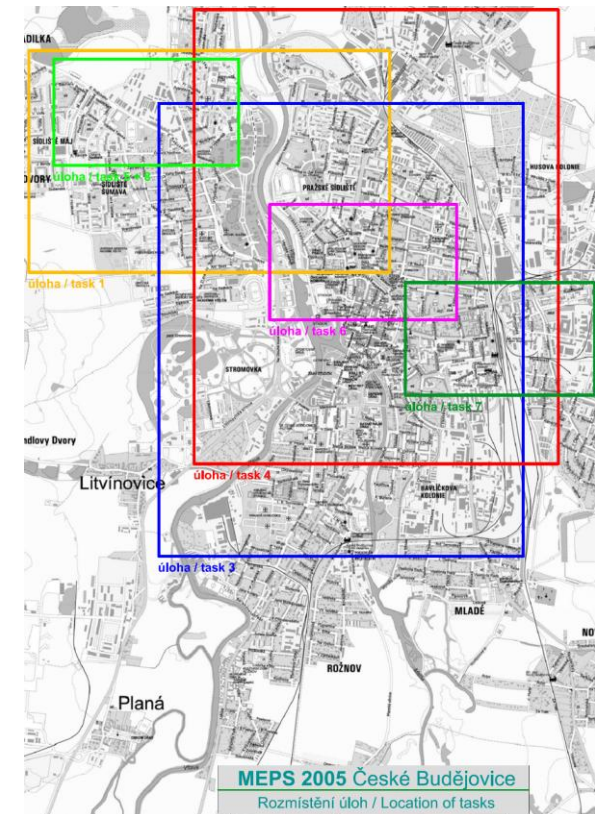
example: topics for MEPS 2011 (Náchod, Czech Republic)



MEPS – choice of topics

usual topics for students are focused on:

- **intersections** designing and evaluation (including traffic lights plan)
- **public mass transport** planning (including layout of stations and terminals) and quality
- layout of traffic **organisation and regulation**
- traffic **calming**
- **pedestrian and cycling** transport, routes, crossings and layout
- aspects of transport **safety**



example: location of topics for MEPS 2005 (České Budějovice, Czech Republic)



MEPS – international character

important to keep international character of seminar

⇒ **students** assigned into **5 to 7 groups**:

- each **group** should have **at least 1 student from each country** (Czech Republic, Hungary, Austria) ⇒ students learn new ways of planning and cooperating in group
- **different technical parameters** used in different countries
- **official language = English** (many students use German language as well) ⇒ student can learn basics of each language
- every student **group solves 1 topic**



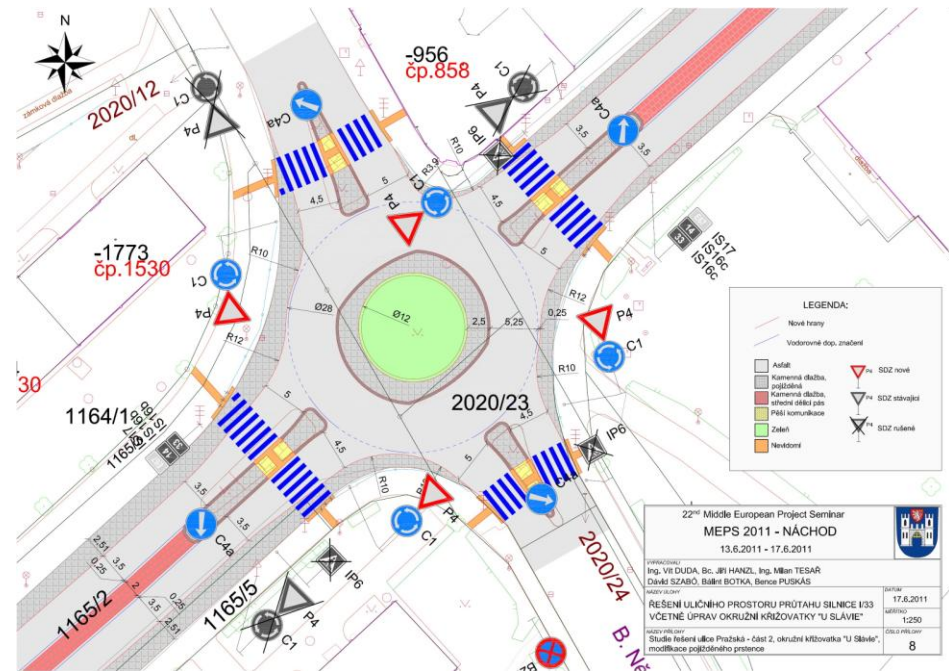
*example: group in MEPS 2010
(Wiener Neustadt, Austria)*



MEPS – solution of topics

students asked to **find new solutions or low cost and effective solutions:**

- students need to get always basic row **traffic data** and information about **transport status of the city** (view of the history, evolution and characteristics of the city)
- realisation of own **traffic surveys**
- **discuss** the new proposals with teachers and experts **during seminar**
- using **modern technologies** (AutoCAD, creating 3D models, traffic simulations)



example: results of group Nr. 4 in MEPS 2011 (Náchod, Czech Republic)



MEPS – final presentations

evaluation of the work \Rightarrow chance to **present ideas to city representatives:**

- taken in **English** language
- visited by **city representatives, communication media and public** (everybody, who is interested in new solutions)
- **new solutions** \Rightarrow usually **graphical outputs** (modern technologies designing new solutions)



example: student during final presentation in MEPS 2011 (Náchod, Czech Republic)



MEPS – final presentations

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- **new solutions** \Rightarrow usually **graphical outputs** (modern technologies designing new solutions)
- beside presentation created **small exhibition with** photos and graphical **outputs**



example: group Nr. 3 with their results in MEPS 2011 (Náchod, Czech Republic)



MEPS – final presentations

evaluation of the work \Rightarrow chance to **present ideas to city representatives:**

- taken in **English** language
- visited by **city representatives, communication media and public** (everybody, who is interested in new solutions)
- **new solutions** \Rightarrow usually **graphical outputs** (modern technologies designing new solutions)
- beside presentation created **small exhibition with** photos and graphical **outputs**
- presentations with **results given to the city** representatives



example: President of the Region Hradec Králové Lubomír Franc BSc. and Mayor of Náchod Mr. Jan Birke getting results of MEPS 2011 (Náchod, Czech Republic)



MEPS – final presentations

examples of results:

- concept of the bus station



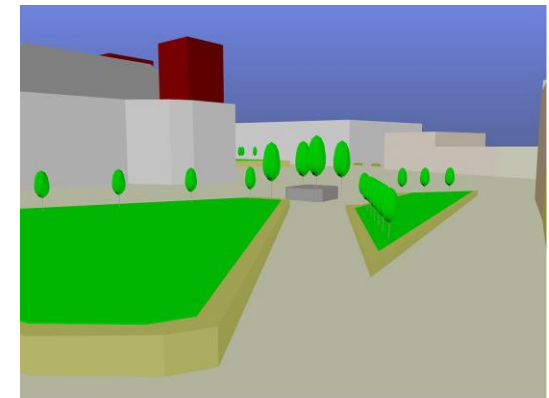
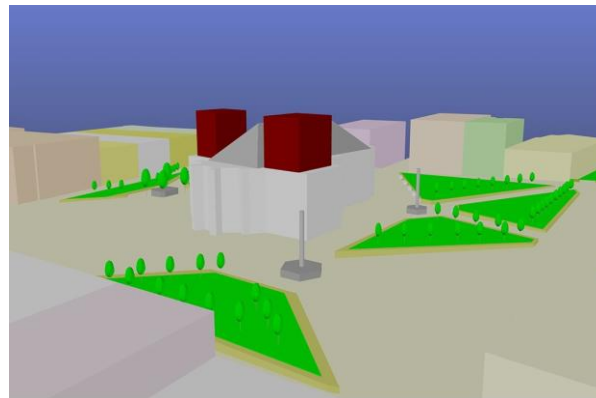
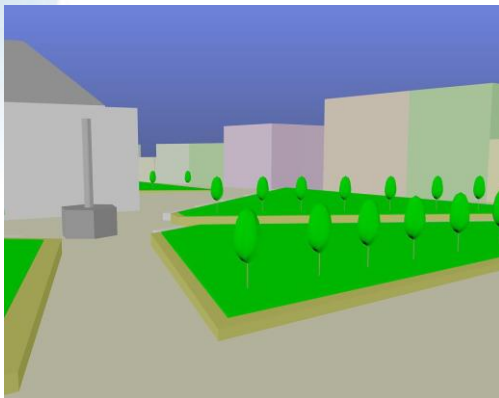
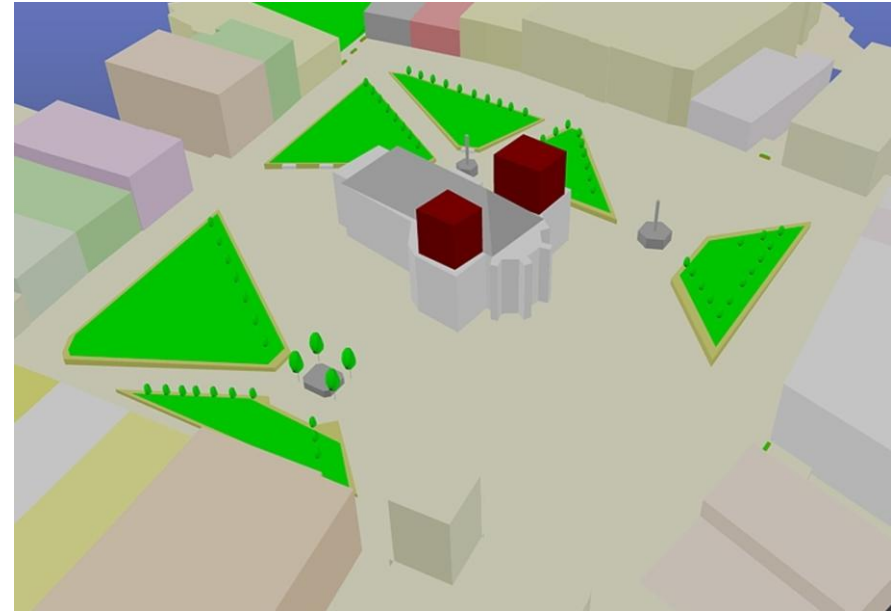
*example: results of topic Nr. 1
of MEPS 2011 (Náchod, Czech Republic)*



MEPS – final presentations

examples of results:

- concept of the bus station
- **parking in city centre**



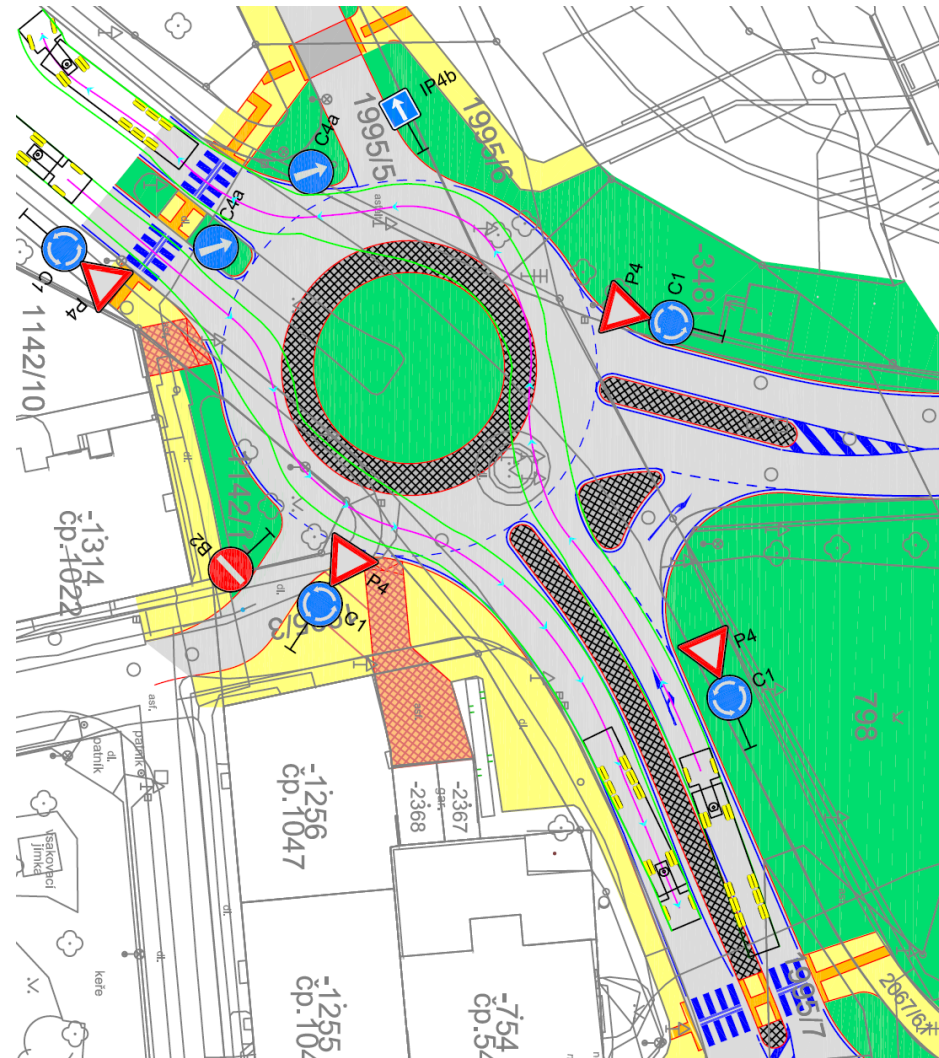
example: results of topic Nr. 2 of MEPS 2011 (Náchod, Czech Republic)



MEPS – final presentations

examples of results:

- concept of the bus station
- parking in city centre
- **redesign of roundabouts**



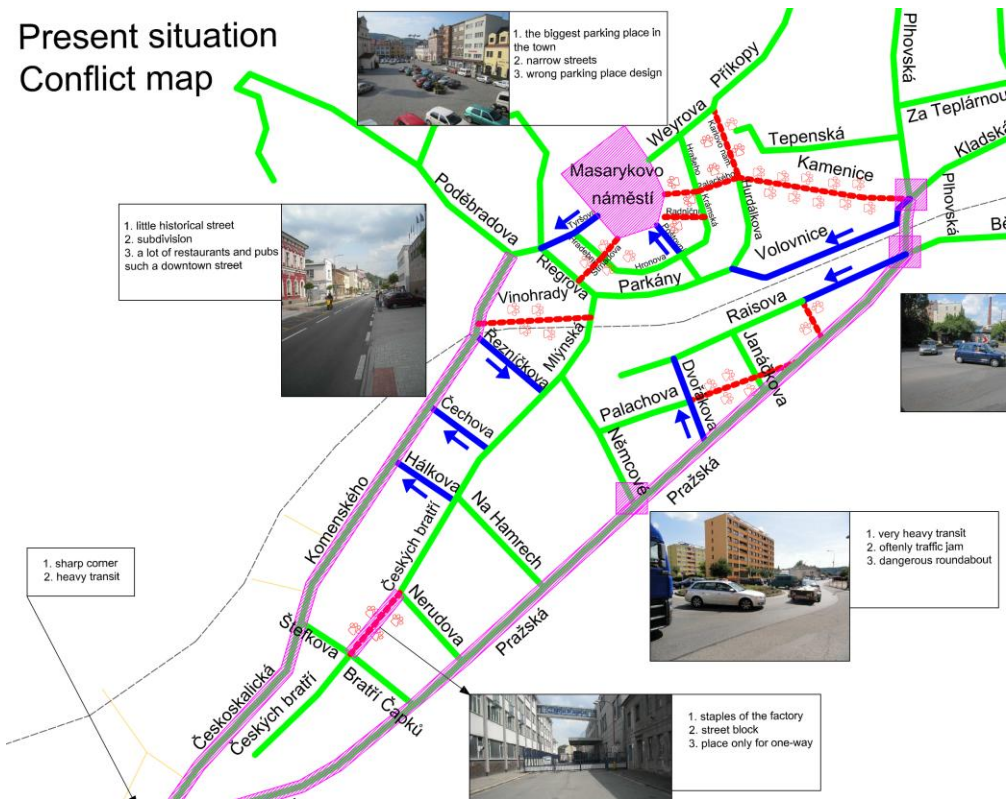
*example: results of topic Nr. 3
of MEPS 2011 (Náchod, Czech Republic)*



MEPS – final presentations

examples of results:

- concept of the bus station
- parking in city centre
- redesign of roundabouts
- new design of through road
- **organization and regulation of part of city centre**



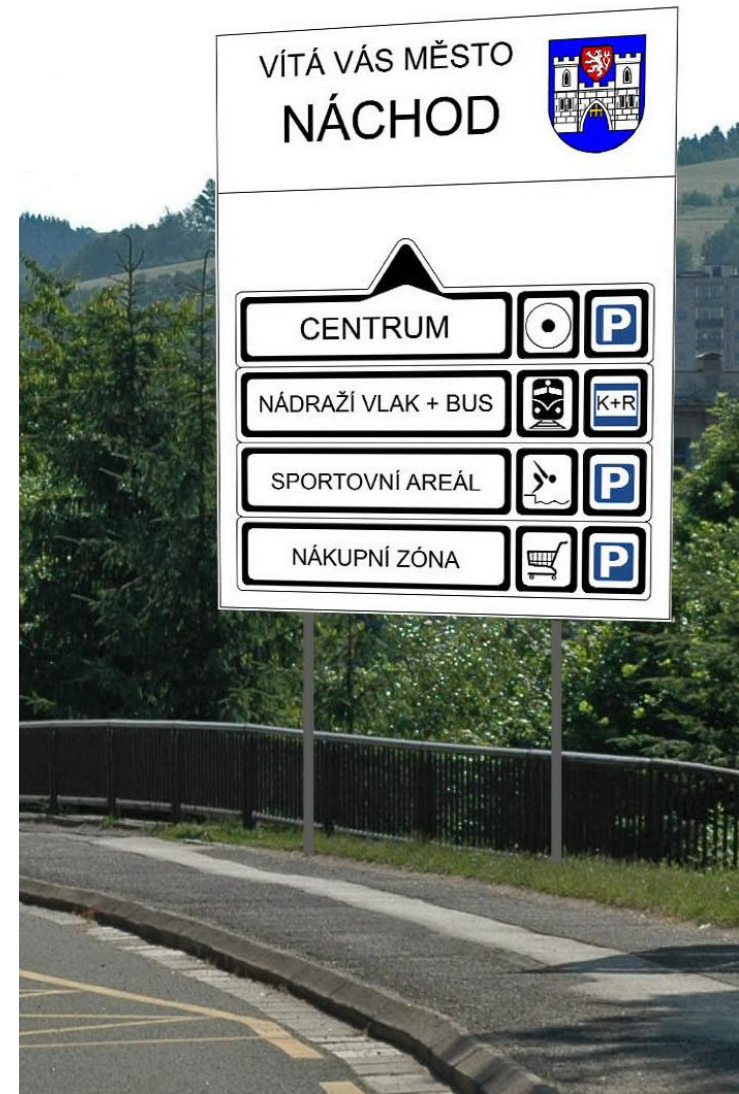
example: results of topic Nr. 5 of MEPS 2011 (Náchod, Czech Republic)



MEPS – final presentations

examples of results:

- concept of the bus station
- parking in city centre
- redesign of roundabouts
- new design of through road
- organization and regulation of part of city centre
- **new city information system**



*example: results of topic Nr. 6
of MEPS 2011 (Náchod, Czech Republic)*

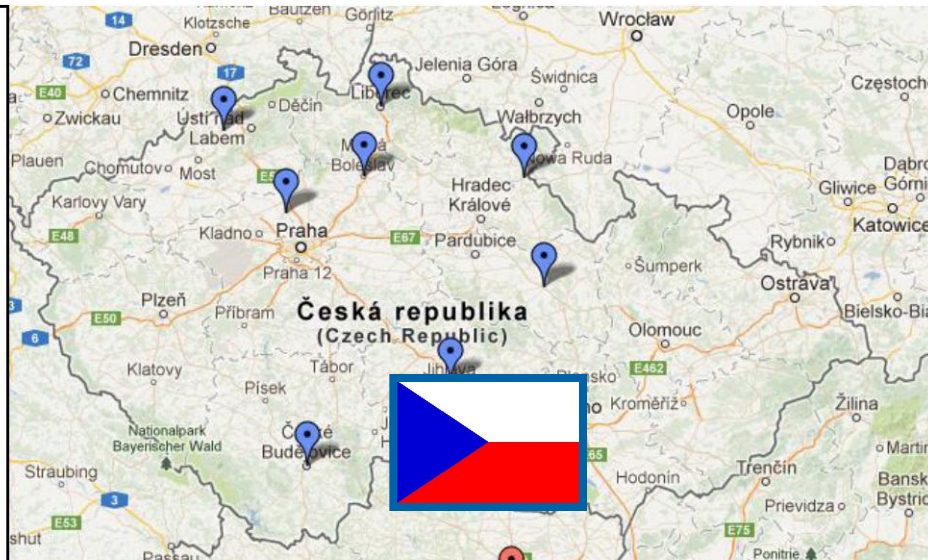


MEPS – next future

already **passed 24 seminars** MEPS in all 3 countries

List of MEPS cities in chronological order

1. (1990) Kralupy nad Vltavou
2. (1991) Kalocsa
3. (1992) Bruck a.d. Mur
4. (1993) Liberec
5. (1994) Tata
6. (1995) Salzburg
7. (1996) Litomyšl
8. (1997) Sopron
9. (1998) Feldkirchen
10. (1999) Teplice
11. (2000) Szentendre
12. (2001) Kufstein



List of MEPS cities in chronological order

13. (2002) Mladá Boleslav
14. (2003) Esztergom
15. (2004) Tulln a.d. Donau
16. (2005) České Budějovice
17. (2006) Hévíz
18. (2007) Bruck a.d. Mur
19. (2008) Jihlava
20. (2009) Siófok
21. (2010) Wiener Neustadt
22. (2011) Nachod
23. (2012) Gyula
24. (2013) Feldkirch

currently looking for candidate matchmaker city
in Czech Republic to organize **25th MEPS 2014 !!!**





Thank you