

Datathon Kick-off Event

1 November, 2016

Active Public Space
Analyze. Ideate. Propose.



CCEA



ARCHIP

- What and why
- Topics and questions
- Data
- Schedule and setup



Lucia Štefánková
Deputy Director for Development
and PR at CERGE-EI

- **What and why**
- Topics and questions
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Iva Kleinová
Program Director
MA in Applied Economics at
CERGE-EI

What is the Datathon and why are we doing it?

- 1 Give students an ability to test and improve their data analytical skills on real world data.**
- 2 Give IPR and the city of Prague some food for thought on what they can improve.**
- 3 Provide specific policy suggestions and/or entrepreneurial ideas for how to solve problems.**

Part of Economics Discovery Hub and organized by MA in Applied Economics program

through which we try to help students improve their skills in data analysis with impact

Who is organizing the Datahon?



CCEA



ARCHIP

With generous data and/or mentoring help from:



IPR —
PRaha



Who will be involved - roles?

Jury

Jury members will use the following criteria for evaluation:

- Using Lean Kick Box Canvas
- Feasibility
- Originality and innovation of the solution

Mentors

Mentors will help the teams with their work in various areas: working with data, urbanism, idea generation, using lean canvas...Mentors will be available during whole Saturday and on Sunday before lunch.

Organizers

Organizers will make sure that you have data to work with, topics to work on and you are fed during the event. They will be there in case you need anything.

Who will be involved - names?

Jury

Gabriel Ahlfeldt (LSE)
Bernhardt Sommer (University of Applied Arts in Vienna)
Mathilde Marengo (IACC)
Lucia Štefánková (CERGE-EI)
Regina Loukotová (ARCHIP)
Igor Kovačević (CCEA)
IPR representative (tbc)

Mentors

Working with data: Lucie Zapletalová (CERGE-EI), Mariia Kosar (CERGE-EI), Taras Hrendash (CERGE-EI), Lukáš Makovský (IPR), Irakli Barbakadze (University of Tartu), Youjun Shin (University of Tartu), Tomáš Křehlík (IES), Tomáš Zelinský (TUKE),
IBM Data Experience Platform: Michal Polena (IBM)
GIS data: Eliška Kyzlíková (IPR)
Urbanism: Karin Grohmannová (CCEA), David Neuhaus (ARCHIP), Bára Šimonová (ARCHIP),
Strategy and ideation: Yvette Vašourková (CCEA), Eva Hromádková (CERGE-EI)

Organizers

CERGE-EI organizational team: Maya Kopecká, Lucia Štefánková, Karolína Břízová, Callum Cope, Neesha Kaur

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Yvette Vašourková

Founder

Centre for Central European
Architecture (CCEA)

Datathon: Active Public Space

The workshop aims:

to analyse city data from both perspectives - the Top-Down and the Bottom-Up to develop ideas related to city data in order to improve the actual city spaces.

How can data help to actively shape cities?

How can we activate public space by data usage?

How can citizens collect data and actively shape their city?

This workshop will focus on exploring new solutions and possibly directly intervene on the city data of Prague.



Topic: How do we enable an active public space?

Urban Movements

How do people move around the city for work and leisure?

What are effective transportation tools for future city?

How should we transform public transportation for today needs?

Have some groups been privileged while others neglected in their travels?

Will future developments in the way we work and have fun affect our transportation needs?

Think:

effect of limited parking zones,
multi-transport migration for work and leisure,
guidebooks for business development,
home-office infrastructure,
cycling,
alternative transportation tools,
shared car system
public transportation neglect zones...
public transportation as complex system

Diverse City

Is Prague ethnically, religiously, socioeconomically and culturally diverse? Where and where not?

Has Prague drab or diverse districts?

Should any specific lifestyles or economic backgrounds be promoted? How and where?

How does safety factor into the diversity equation? Can our data give us any clues?

How to balance varied situations in urban space?

Think:

zones of greatest ethnic and cultural diversity;

prediction of future gentrification and possible cultural clash zones;

zones where city might want to impose social housing;

creation of distributed refugee housing; restaurant startup guides...

Bottom up impact

How can virtual distributed tools allow for a more participative urbanism?

How can more data be generated?

What kind of data is currently needed but not collected to solve the city's problems?

What are some innovative ways to collect this information?

How can citizens activate public space?

Think:

data from experimental projects;

shared infrastructure for business data sharing; statistically significant,

unbiased data sources for public policy making, and more.

Datathon: Follow up

Workshop will be followed by a sitespecific intervention to improve a public space in Prague.

The Datathon participants will have opportunity to develop a proposal for an intervention scheme, based on their analysis conducted during Datathon.

This intervention will be installed and its impact tested within 2-3 months after the Datathon event in a specific location in Prague.

viaduktkreativni.cz

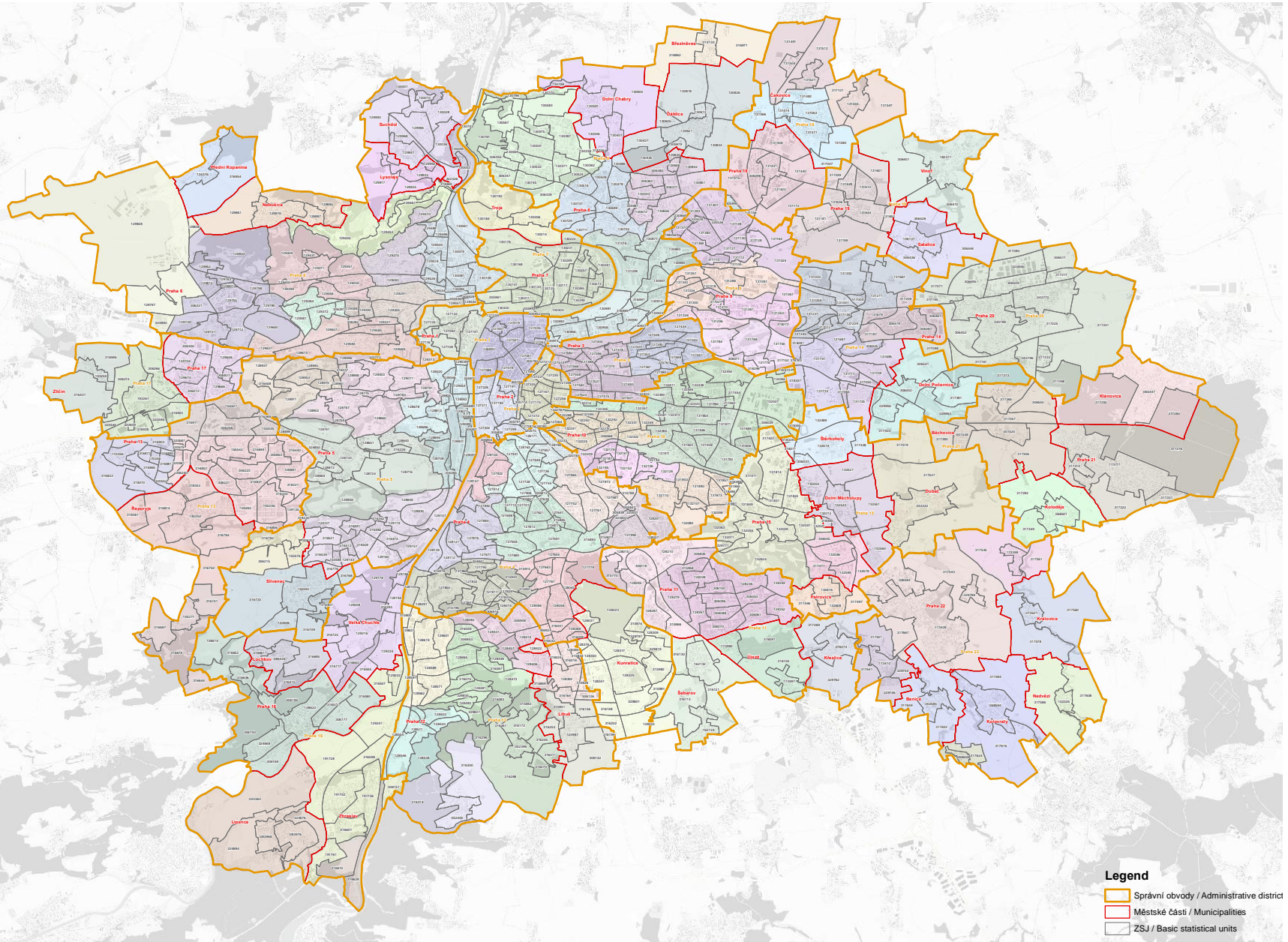


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Mariia Kosar
PhD student
CERGE-EI

The main unit of analysis will be 920 microdistricts in Prague



We will have five main sources of data for each of these districts

Type	Description	Source
1 Geographical + public transport data (2015)	Built environment: buildings and physical structure, land topology and use, urban and zoning plans, public transport access, pollution, noise levels...	<ul style="list-style-type: none">• Prague planning office• Public transport company
2 Census data (2011)	People: gender, age, education, religion, nationality, citizenship, occupation, employment, type of accommodation (rent/own), migration, etc.	<ul style="list-style-type: none">• Czech Statistical office
3 Panel data on population and childbirth (2007, 2011, 2015)	People: survey data on child gender, frequency of birth, citizenship of parents, rank of newborn baby, age of parents, number of babies	<ul style="list-style-type: none">• Czech Statistical office
4 Real estate data (12/2015)	Property and services: average advertised price of residential and commercial real estate, detailed information about properties and neighborhood amenities	<ul style="list-style-type: none">• Online real estate portal Sreality.cz
5 People movement data (2016)	Movement: where people live, work, spend time during the day and night	<ul style="list-style-type: none">• O₂, one of three largest mobile operators

What will be the format?

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
4	Kód městské části	Městská část (uzemně členěná statutární město)	Kód základní sídelní jednotky	Název základní sídelní jednotky	Kód základní sídelní jednotky (dlouh)	Název základní sídelní jednotky (dlouh)	Obyvatelstvo celkem	Obyvatelstvo celkem (%)	Obyvatelstvo celkem - muži	Obyvatelstvo celkem - ženy	Obyvatelstvo - s trvalým pobytem - celkem	Obyvatelstvo - s trvalým pobytem (%)	Obyvatelstvo - s trvalým pobytem - muži	Obyvatelstvo - s trvalým pobytem - ženy	Obyvatelstvo - s dlouhodobým pobytem - celkem	Obyvatelstvo - s dlouhodobým pobytem (%)	Obyvatelstvo - s dlouhodobým pobytem - muži	Obyvatelstvo - s dlouhodobým pobytem - ženy
5	kód	název městské části (obvodu)	kód ZSJ	název ZSJ	kód ZSJ-d	název ZSJ-díl	u111100101	u111100102	u111100103	u111100104	u111100301	u111100302	u111100303	u111100304	u111100401	u111100402	u111100403	u111100404
6	538060	Praha-Běchov	0015200	Běchovice	0015200	Běchovice	1 407	100,00	697	710	1 314	93,39	637	677	84	5,97	57	27
7	538060	Praha-Běchov	3173060	Běchovice-jih	3173060	Běchovice-jih	9	100,00	4	5	9	100,00	4	5	-	-	-	-
8	538060	Praha-Běchov	3173650	Běchovice-ústavy	3173650	Běchovice-ústavy	854	100,00	599	255	184	21,55	131	53	656	76,81	457	199
9	538060	Praha-Běchov	3173570	Běchovice-za tratí	3173570	Běchovice-za tratí	-	-	-	-	-	-	-	-	-	-	-	-
10	538060	Praha-Běchov	3065500	Homole-U Čecha	3065500	Homole-U Čecha	18	100,00	8	10	18	100,00	8	10	-	-	-	-
11	538060	Praha-Běchov	0015380	Nová Dubeč	0015380	Nová Dubeč	578	100,00	294	284	549	94,98	274	275	26	4,50	19	7
12	538060	Praha-Běchov	3173900	U topolu	3173900	U topolu	-	-	-	-	-	-	-	-	-	-	-	-
13	538078	Praha-Benice	0025850	Benice	0025850	Benice	549	100,00	260	289	526	95,81	248	278	23	4,19	12	11
14	538078	Praha-Benice	3176590	K Pitkovicům	3176590	K Pitkovicům	3	100,00	2	1	3	100,00	2	1	-	-	-	-
15	538078	Praha-Benice	3176320	Ke kříži	3176320	Ke kříži	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.
16	500208	Praha 8	1305670	Bohnice-sever	1305670	Bohnice-sever	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.
17	500208	Praha 8	1305410	Bohnice-ústav	1305410	Bohnice-ústav	561	100,00	314	247	551	98,22	313	238	8	1,43	-	8
18	500208	Praha 8	1307610	Bohnice-Zámky	1307610	Bohnice-Zámky	18	100,00	9	9	17	94,44	8	9	1	5,56	1	-
19	500208	Praha 8	1305240	Čimický háj	1305240	Čimický háj	10	100,00	5	5	10	100,00	5	5	-	-	-	-
20	500208	Praha 8	1307960	Drahanská rokle-západ	1307960	Drahanská rokle-západ	-	-	-	-	-	-	-	-	-	-	-	-
21	500208	Praha 8	1305320	Sídlíště Bohnice-východ	1305320	Sídlíště Bohnice-východ	6 772	100,00	3 185	3 587	6 515	96,20	3 043	3 472	223	3,29	123	100
22	500208	Praha 8	3063550	Sídlíště Bohnice-západ	3063550	Sídlíště Bohnice-západ	6 831	100,00	3 280	3 551	6 666	97,58	3 196	3 470	132	1,93	67	65
23	500208	Praha 8	1305590	Staré Bohnice	1305590	Staré Bohnice	1 166	100,00	550	616	1 106	94,85	512	594	52	4,46	34	18
24	500208	Praha 8	1303620	U Čimického háje	1303620	U Čimického háje	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.	i.d.
25	500208	Praha 8	1303710	Za Čimickým hájem	1303710	Za Čimickým hájem	2 024	100,00	798	1 226	1 993	98,47	782	1 211	28	1,38	15	13
26	500208	Praha 8	1307530	Zámky-Podhoří	1307530	Zámky-Podhoří	34	100,00	18	16	34	100,00	18	16	-	-	-	-
27	500119	Praha 4	1281120	Braník-jih	1281120	Braník-jih	109	100,00	46	63	49	44,95	28	21	54	49,54	18	36
28	500119	Praha 4	1278760	Braník-Na křížku	1278760	Braník-Na křížku	2 938	100,00	1 414	1 524	2 787	94,86	1 341	1 446	135	4,59	68	67
29	500119	Praha 4	1278840	Braník-Nad lomem	1278840	Braník-Nad lomem	2 623	100,00	1 250	1 373	2 397	91,38	1 119	1 278	181	6,90	105	76
30	500119	Praha 4	1281390	Braník-pobřeží	1281390	Braník-pobřeží	25	100,00	12	13	21	84,00	11	10	4	16,00	1	3
31	500119	Praha 4	1281210	Braník-střed	1281210	Braník-střed	3 784	100,00	1 758	2 026	3 452	91,23	1 576	1 876	298	7,88	169	129
32	500119	Praha 4	1278330	Jiráskova čtvrť	1278330	Jiráskova čtvrť	2 355	100,00	1 100	1 255	2 237	94,99	1 034	1 203	106	4,50	62	44
33	500119	Praha 4	1276710	Křížské údolí-západ	1276710	Křížské údolí-západ	3	100,00	3	3	3	100,00	3	3	-	-	-	-

Mentors will be available for:

- Excel
- R
- STATA
- IBM Data Science Experience Platform

+ mentors for urbanism and idea generation

Which specific variables will be available?

Available

- Please see separate document with list of variables
- Actual datasets will be provided on Friday/Saturday at the Datathon
- *Note: all variables will be translated into English*

On request

- Number of potential variables extractable from geo data is too large
- Therefore, some of this data will be available on request on Saturday during the Datathon; one of the mentors will extract them based on actual needs of teams

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Maya Kopecká
Marketing Manager, CERGE-EI
Datathon Chief Coordinator

What can I expect each day?

Friday, November 11: Inspiration, team setup

- **13:30-19:00**
- Keynote lectures and small-size workshops with 3 international speakers
- Detailed run through data and topics
- Formation of teams
- Teams start working
- ***Teams created!***

- 2 coffee breaks
- Ability to sleep over at CERGE-EI

Saturday, November 12: Work on data

- **9:00-19:00**
- Groups present their topics and ideas
- LEAN methodology workshop
- Work in teams
- Support from mentors
- Progress presentation
- ***Party at CERGE!***

- Coffee and refreshments available throughout the day
- Lunch
- Pizza + beer dinner
- Ability to sleep over at CERGE-EI

Sunday, November 13: Finalize outputs

- **9:00-15:00**
- Work in teams
- Support from mentors
- Preparation of final presentation
- Presentation in front of the jury
- ***Winners announced!***

- Coffee and refreshments available throughout the day
- Lunch

Technology

- Wifi available throughout the premises
- You may request to use school computers to access Stata in the computer lab
- Most work will likely be done on your own laptop

Sleeping

- Ability to sleep over at CERGE with other students
- Classroom will be available, so bring your own mat + sleeping bag
- Showers are available (1 male, 1 female)

Eating

- Refreshments will be available during the day
- Lunch on Saturday and Sunday for participants
- Pizza + beer dinner party in CERGE-EI club on Saturday for participants
- CERGE-EI is centrally located, so it's easy to get many types of food within 5 min walking distance

Thank you!

