

Challenges of Quality Assurance for Statistics Based on Big Data

Plenary session 2, Keynote speech 2 June 2016

Genovefa Ružić, Director-General Statistical Office of the Republic of Slovenia geni.ruzic@gov.si





Opportunities and challenges

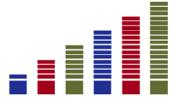
Big data offer opportunities:

- for improving timeliness, reliability and relevance
- for lowering response burden and costs

... and challenges

- access to data
- privacy and ethical issues
- methodological questions
- skills and competencies
- adaptation of quality framework
- etc.

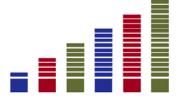






Quality measures

Statistics based on	
traditional data sources	3
administrative data sources	3
big data	Ä





Big data pilots at SURS



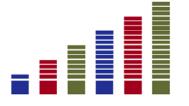
mobile phone data



scanned prices and web scraped prices



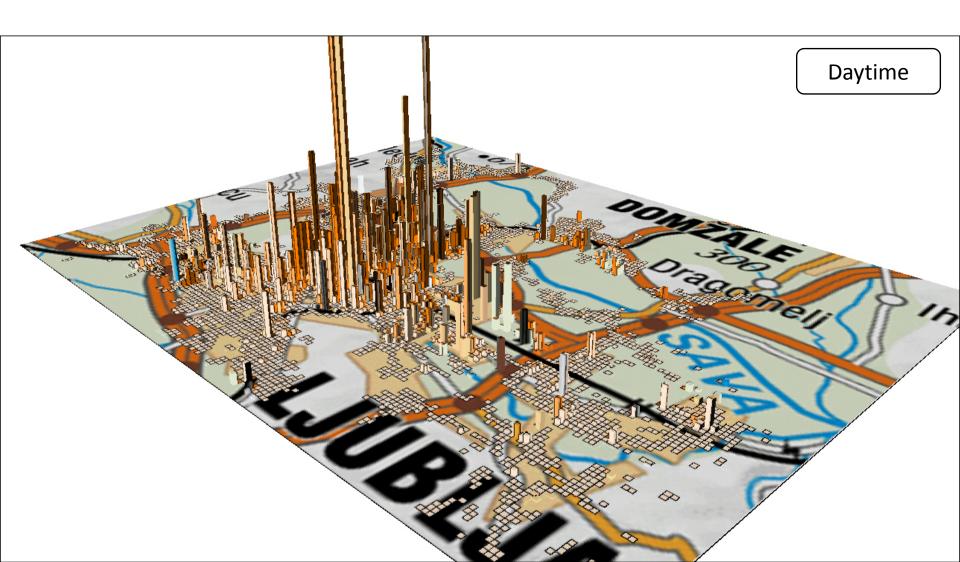
web scraped job vacancies





Mobile phone pilot

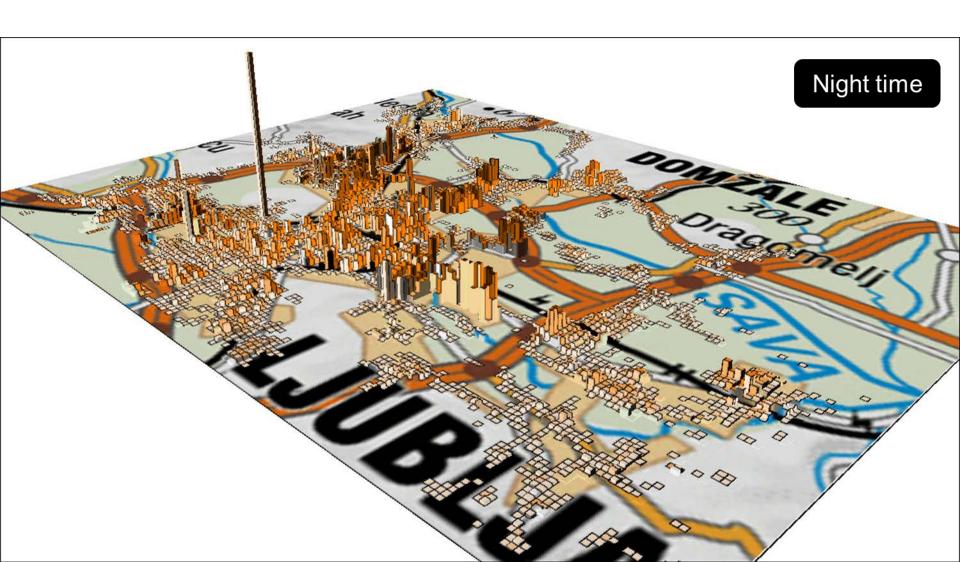
Densitiy of people in Ljubljana





Mobile phone pilot

Densitiy of people in Ljubljana





Institutional environment

Crucial issue: access to big data

- who are the owners?
- how to approach them?
- do we have mandate?
- only legal considerations?
- authoritarian or partnership approach?









Processes

What do we need?

- mental shift
- new knowledge and competencies

How to get to it?

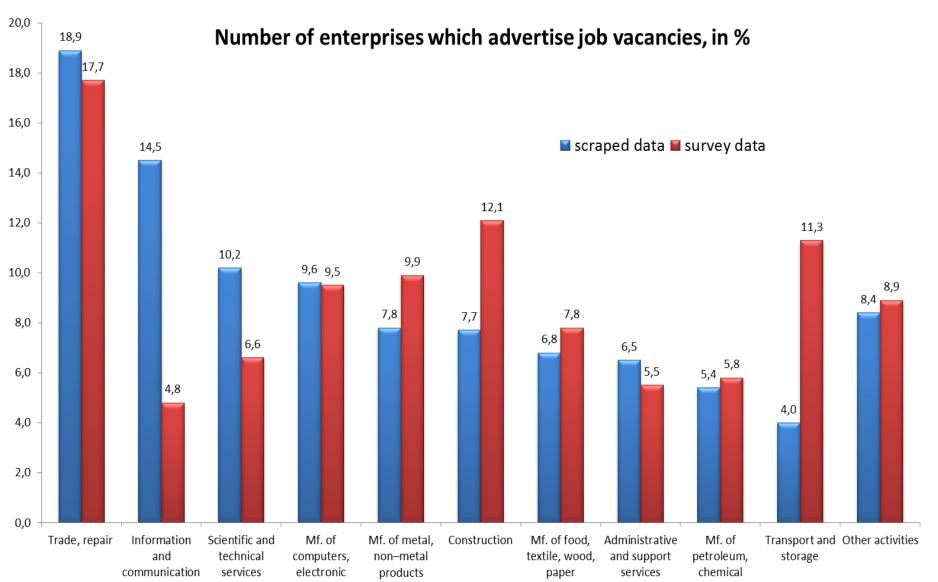


Copyright (c) 1998 by Thaves. Distributed from www.thecomics.com.





Output – job vacancies pilot





Big data for internal purposes

e.g. for measuring the usage of official statistics

http://newsfeed.ijs.si/





Thank you!

100 THINGS TO DO THIS SUMMER

xxxxxxxxxx	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX

