

What's new?

Today's business needs information that is:

- 1. Real-time
- 2. Location-precise
- 3. Individual-specific
 - 4. Robust

What is Big Data?

















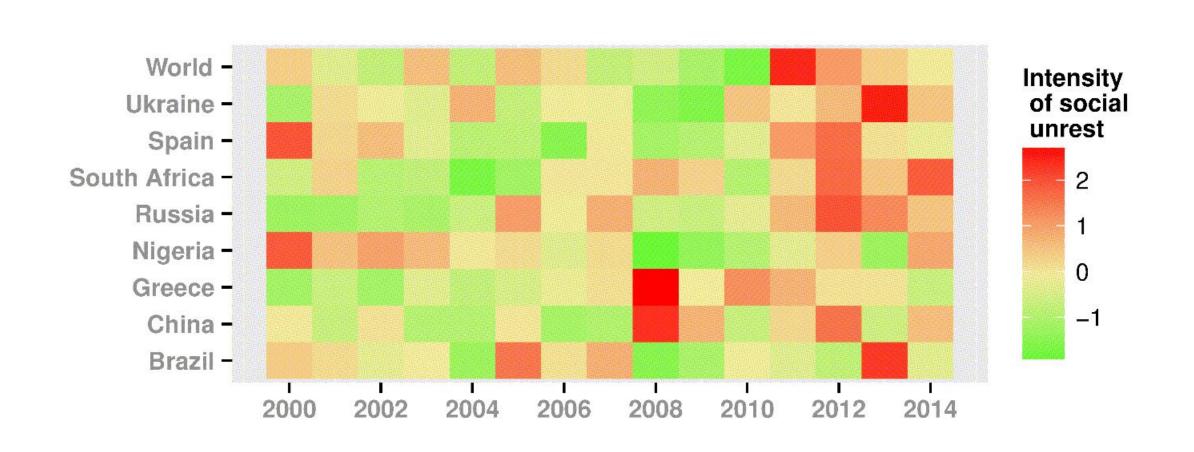
For the Talent Marketplace



How is it being used?

- Combine different data sources:
 - Official data, open source, social media and proprietary data
- Multi-dimensional analysis of data:
 - Combine individual characteristics with aggregate information (regional, national)
 - Analyse multi-faceted social outcomes (e.g. social network dynamics, mobility patterns)
- Use sophisticated statistical tools to detect relationships:
 - "Machine learning": detect statistical relations automatically
 - Clustering to detect similarities between groups (consumers, employees, firms, etc.)

Example: Social unrest



Example: Communication

People connect through language

slow close continued less

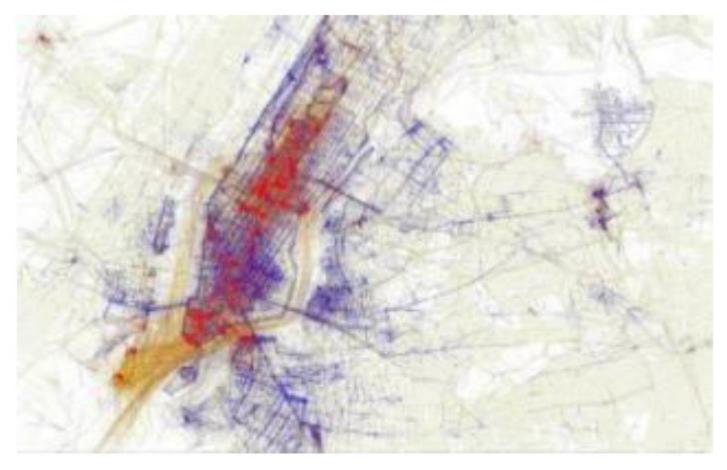
Text analysis for predictions

Most (social media) information only available as text

People's communication contains information about expected future(s)

What can policy makers learn from it?

More precise targeting of policies

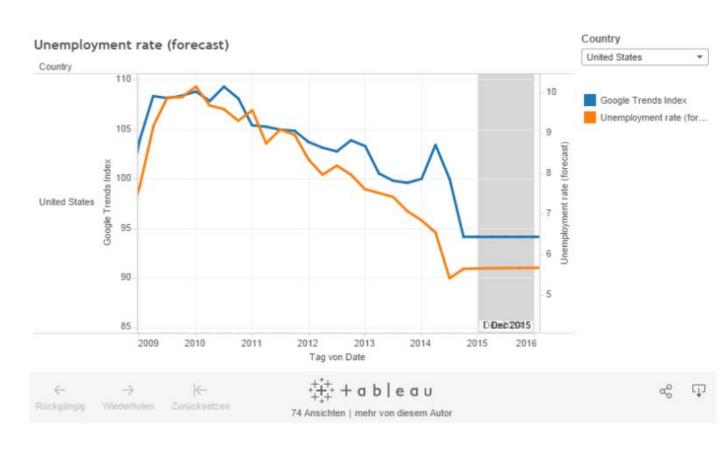


Source: Foresight Alliance. 2016. The futures of work. (Rockefeller Foundation, New York)

What can policy makers learn from it?

Forecasting and manpower planning tools

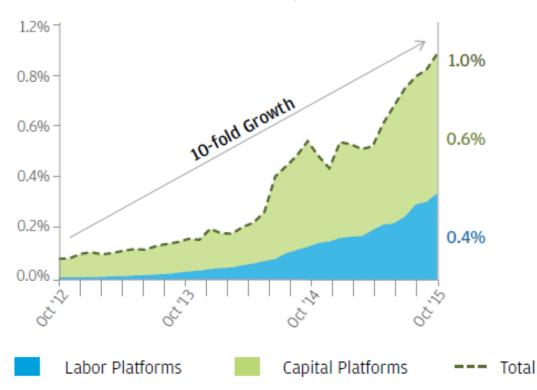


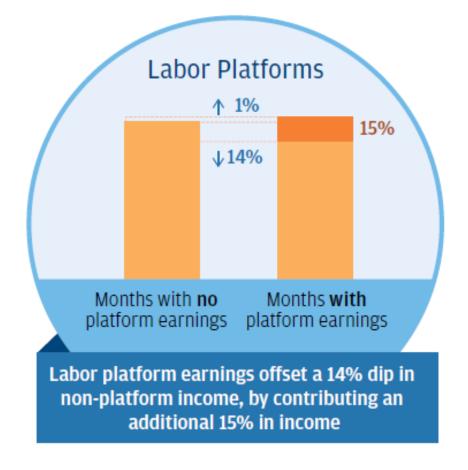


What are the risks for labour?

Business risks shifted to crowd workers and contingent workforce

Percentage of adults participating in the Online Platform Economy in each month

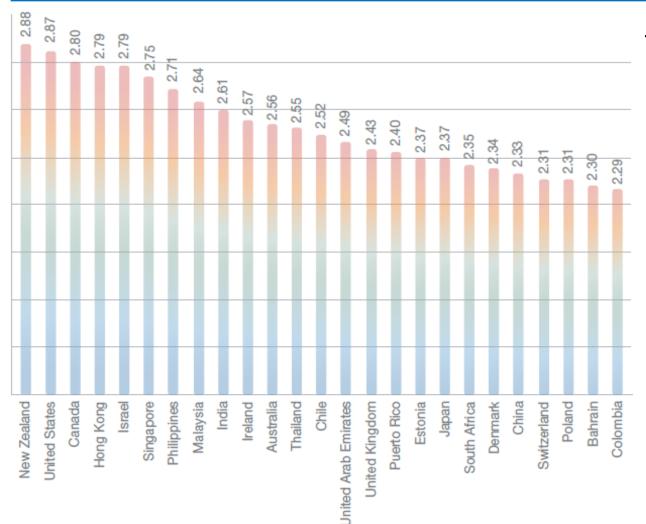




Source: JP Morgan, 2016. Paychecks, paydays and the online platform economy.

What are the risks for labour?

Business risks are increasingly shifted to labour



Temporary contracts and "zero-hour" contracts

HR analytics to optimize production stream

Source: Manpower, 2015. Contingent workforce index.

Burden of adjustment falls entirely on labour

What needs to be done?

- Enforcement of labour standards, including for contingent workforce
 - Avoid zones of "non-droit", especially for temporary workers
 - Business risk must remain with businesses

- Use Big Data more intensively for policy purposes
 - Detect labour market shifts and talent shortages early on
 - Use it also for labour inspection: Where is enforcement particularly needed?
 - Target policies (geographically) for more efficient implementation of labour market policies

In conclusion

- Big data allows to combine and exploit a wealth of information from different sources; but data ownership remains an issue
- Currently, private users have advantage in making use of this data for HR and business planning strategies; generate significant revenues
- Some of these efforts have created benefits for both employees and companies, others have shifted risks to more vulnerable groups
- Potential benefits in policy making and implementation remain underexploited
- Policy makers need to monitor Big Data HR-strategies to avoid undercutting of labour standards