

# TRENDS IN THE DEVELOPMENT OF BIG DATA TECHNOLOGY BY REGION

**Presenter:** Marina Rusinova

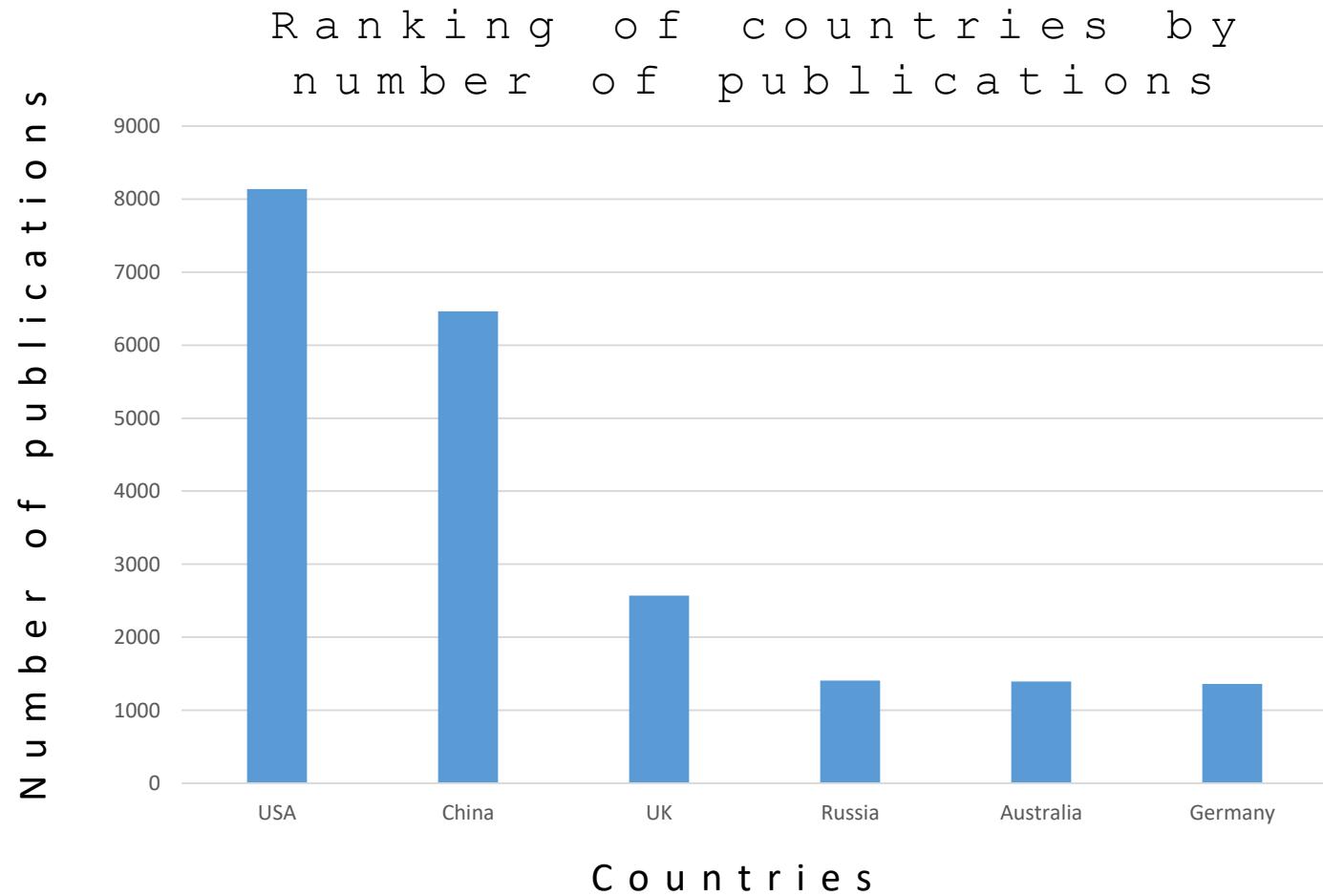
**Authors:** Rufina Tukumbetova, Semyon Chuprygin, Konstantin Patrushev, Marina Rusinova

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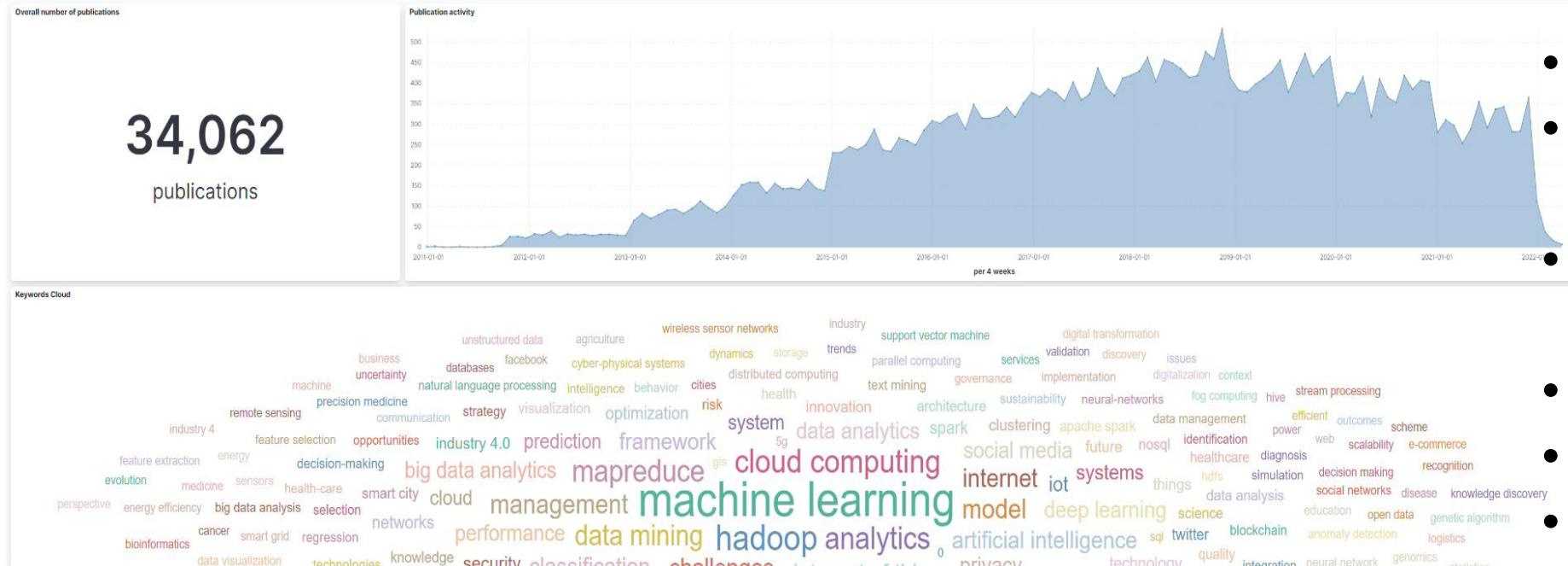


# INTRODUCTION



- 2011-2022
- 1. USA (The United States of America)
- 2. PRC (The People Republic of China)
- 3. Germany
- 4. UK (The United Kingdom)
- 5. Australia
- 6. Russia

# PLATFORM



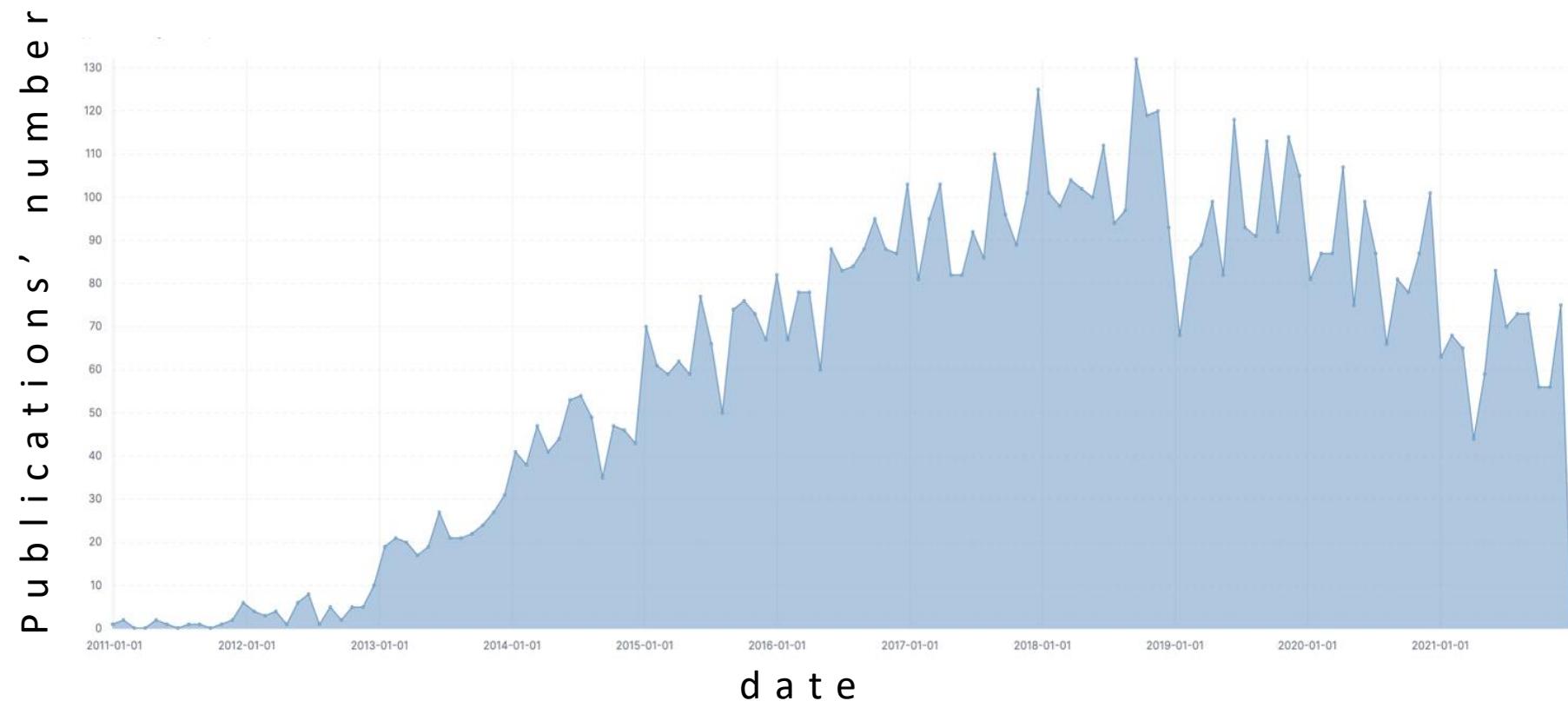
## Dashboard

- Query string
  - Publications dynamics graph
  - Countries-affiliations pie chart
  - Lists of organizations
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  - Keyword clouds

# COUNTRIES' TENDENCIES

## USA

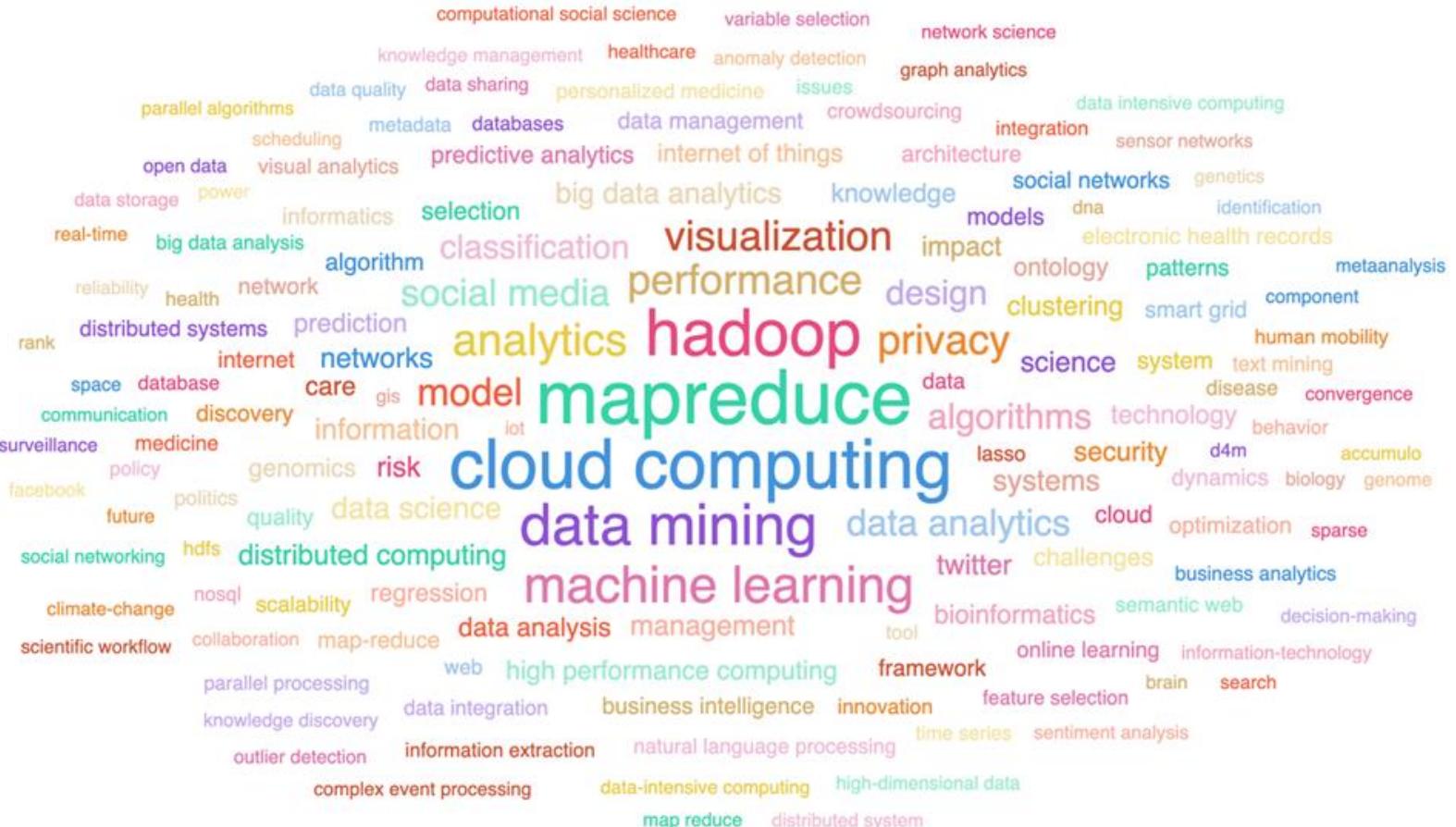
- 8139 publications
- World leader
- Largest companies-developers
- Collaboration with PRC



USA publication dynamics

**USA**

- MapReduce,  
Hadoop
  - Cloud Computing
  - Machine  
Learning, AI  
(Artificial  
intelligence)



## USA keyword cloud 2011-2015

# COUNTRIES' TENDENCIES

**USA**

- MapReduce,  
Hadoop
  - Cloud Computing
  - Machine  
Learning, AI  
(Artificial  
intelligence)

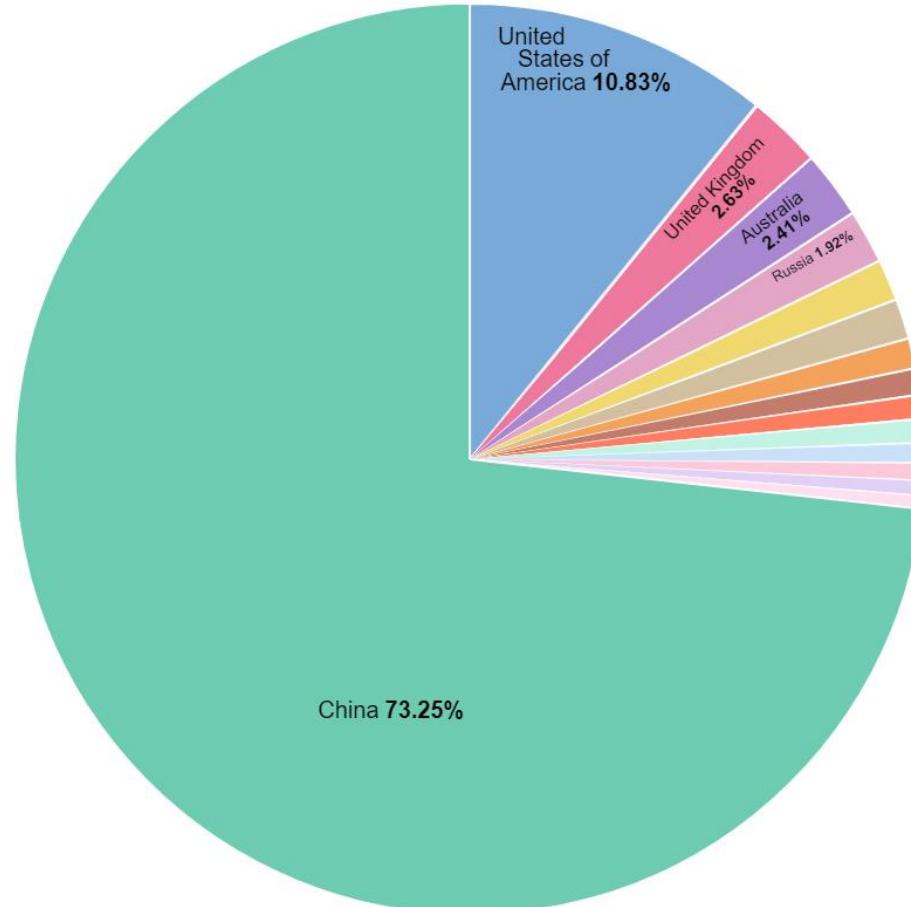


# USA keyword cloud 2017-2022

# COUNTRIES' TENDENCIES

## PRC

- 6464 publications
- Converting paper to digital
- "Digital economy"
- Investments
- 2015 – 2017 USA -Collaboration leader

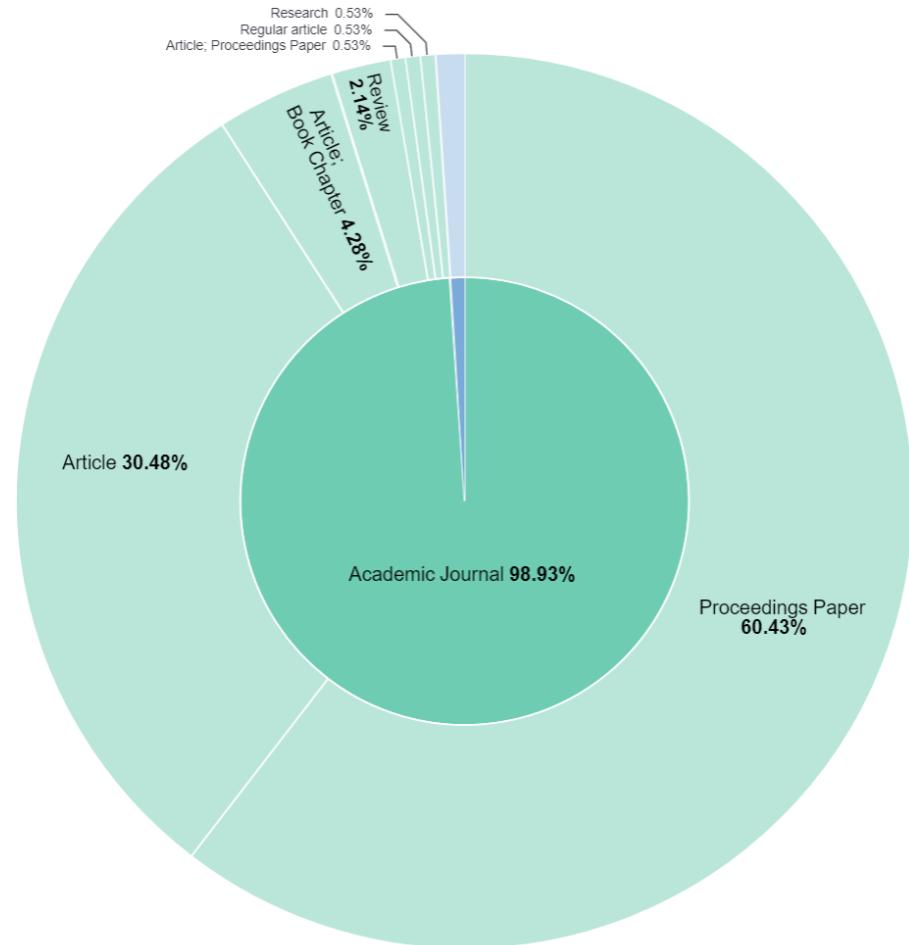


PRC's affiliation countries 2015 – 2017

# COUNTRIES' TENDENCIES

UK

- 2569 publications
- Citation index 12%
- Investments
- Open Data Institute
- Cloud Computing and AI Strategy
- National Strategy



Types of Resources and Publications

# COUNTRIES' TENDENCIES

UK

- 2569 publications
  - Citation index 12%
  - Investments
  - Open Data Institute
  - Cloud Computing and AI Strategy
  - National Strategy



# UK keyword cloud 2013–2017

# COUNTRIES' TENDENCIES

UK

- 2569 publications
  - Citation index 12%
  - Investments
  - Open Data Institute
  - Cloud Computing and AI Strategy
  - National Strategy

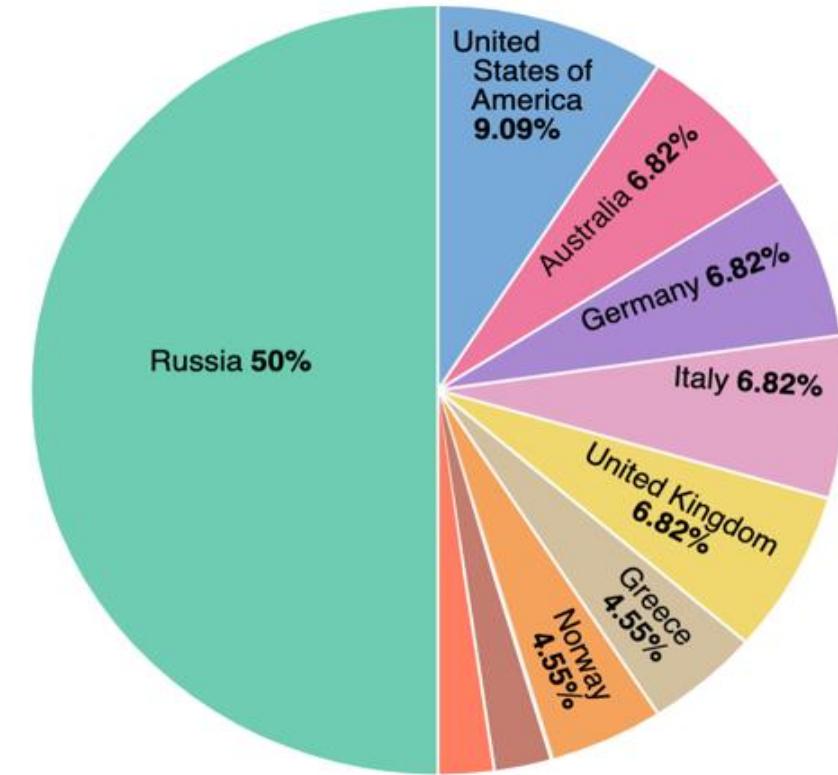


UK keyword cloud 2017-2022

# COUNTRIES' TENDENCIES

## RUSSIA

- 1406 publications
- Leader among the CIS
- MapReduce, Cloud Computing, Machine Learning
- Development of AI

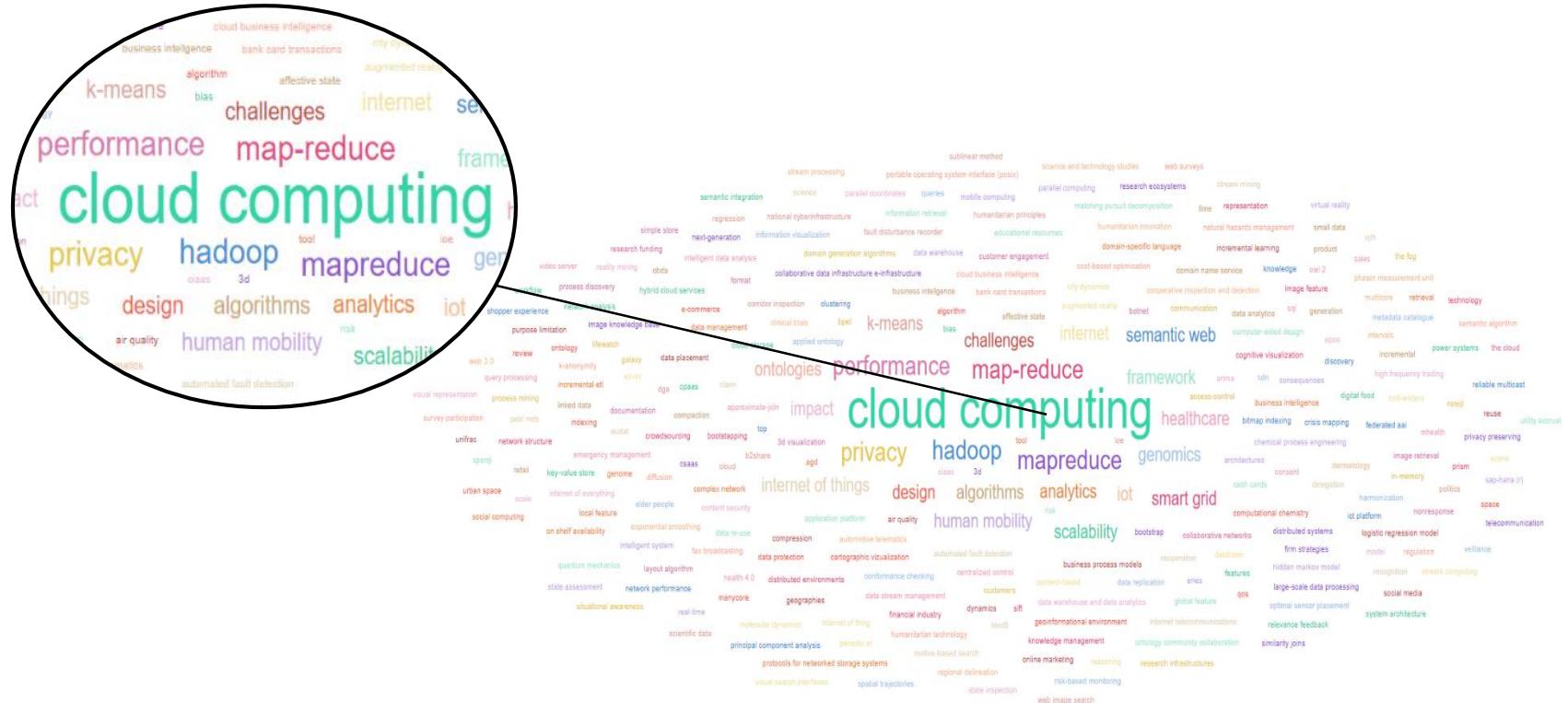


Countries of affiliation

# COUNTRIES' TENDENCIES

# RUSSIA

- 1406 publications
  - Leader among the CIS
  - MapReduce, Cloud Computing, Machine Learning
  - Development of AI

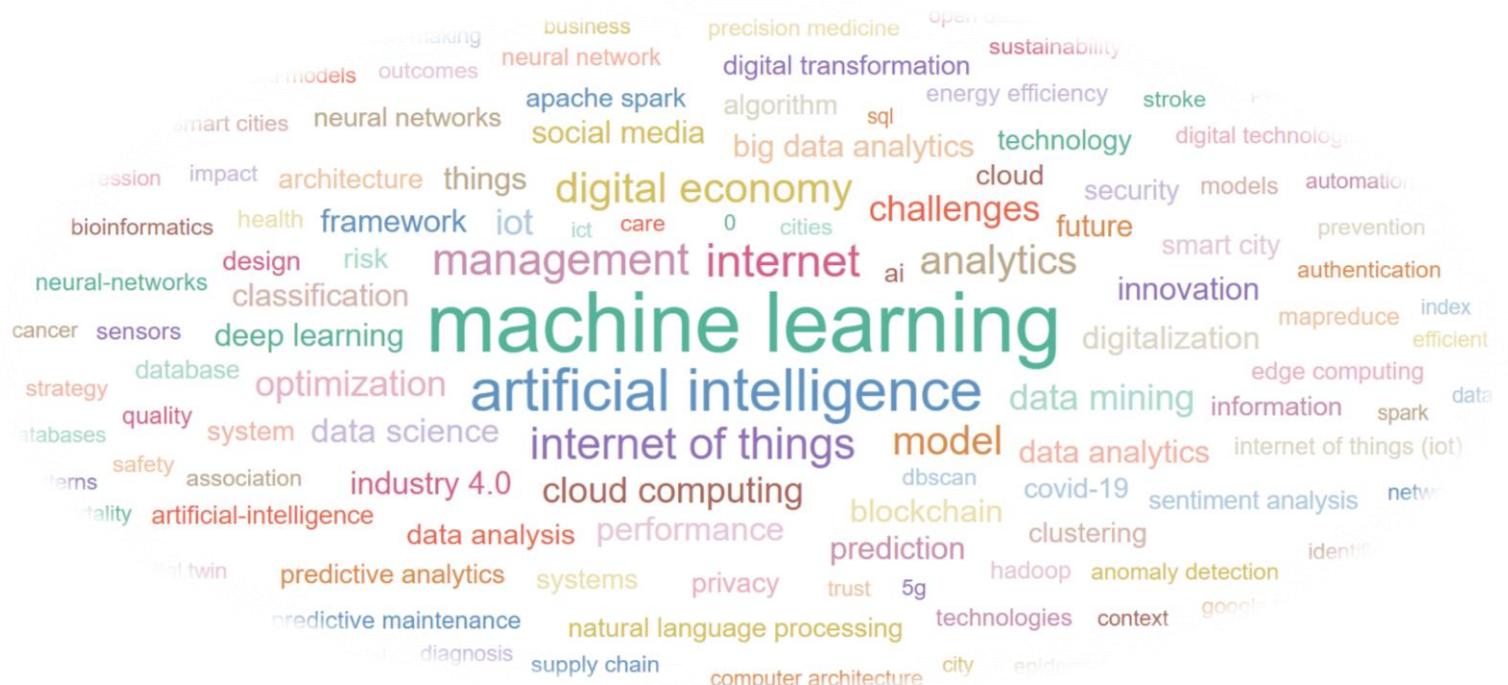


## *Russia keyword cloud 2013-2019*

# COUNTRIES' TENDENCIES

# RUSSIA

- 1406 publications
  - Leader among the CIS
  - MapReduce, Cloud Computing, Machine Learning
  - Development of AI



Russia keyword cloud 2019-2022

# COUNTRIES' TENDENCIES

# AUSTRALIA

- 1395 publications
  - Popularity of Cloud Computing and MapReduce
  - 31% in 2015
  - 42% in 2019



# Australia keyword cloud 2011–2015

# COUNTRIES' TENDENCIES

# AUSTRALIA

- 1395 publications
  - MapReduce
  - Popularity of Cloud Computing
  - 31% in 2015
  - 42% in 2019
  - Privacy
  - Machine learning



# Australia keyword cloud 2019–2022

# COUNTRIES' TENDENCIES

# GERMANY

- 1359 publications
  - Weather, medicine
  - Business, education,  
public sector
  - Machine Learning, AI  
(artificial  
intelligence)

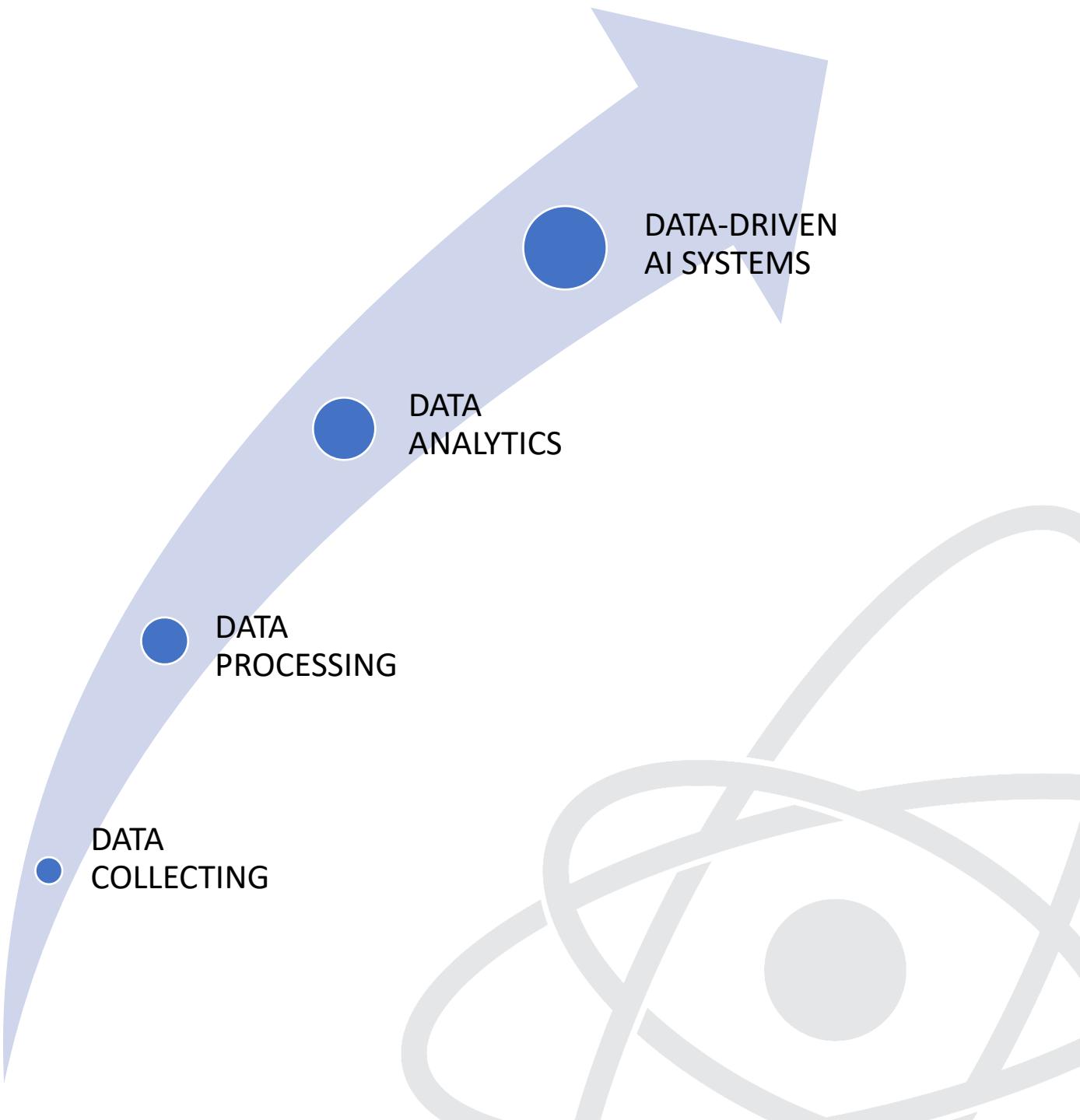


# Germany keyword cloud 2017–2019

# CONCLUSION

## PREDICTION:

Improvement of data  
privacy, ML-models  
privacy



# THANK YOU FOR YOUR ATTENTION

Do you have any questions?

[mrusinova29@mail.ru](mailto:mrusinova29@mail.ru)  
8 (977) 532 37-71

