



Master Big Data – 1° edition 2015
Master in Big Data Analytics & Social Mining
http://www.sobigdata.eu/master/bigdata





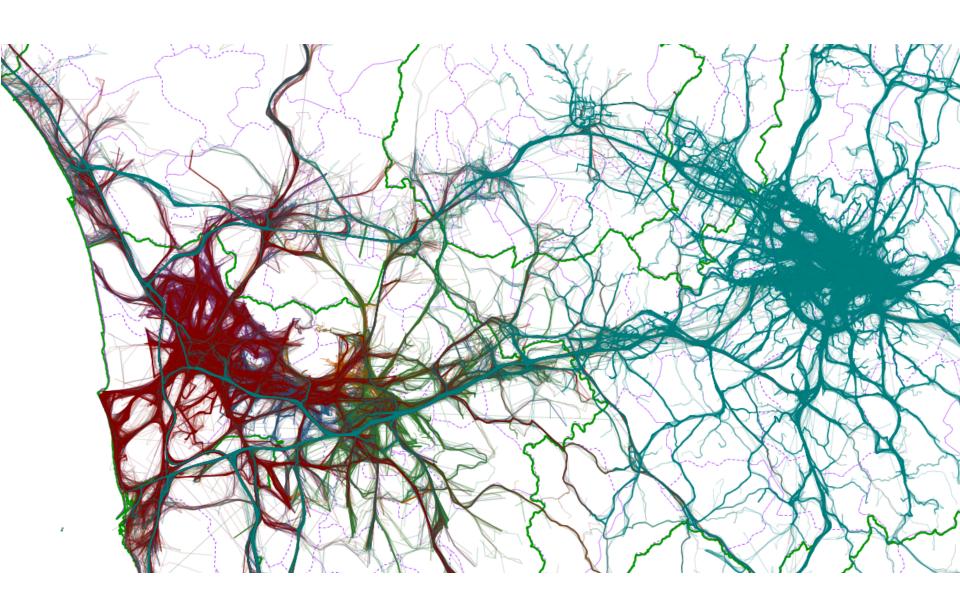


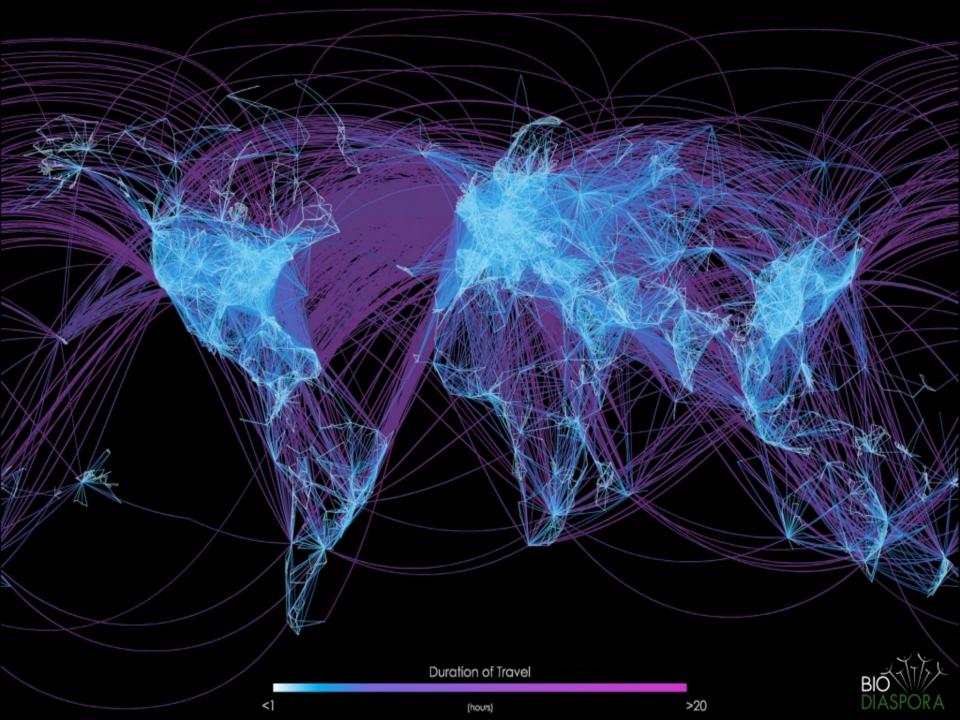




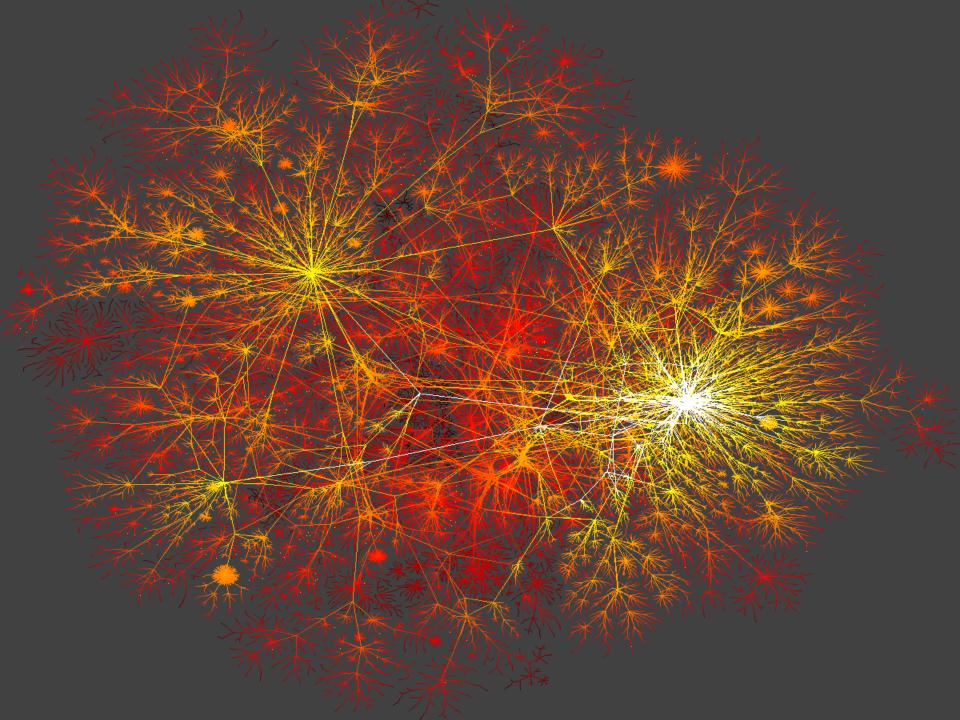


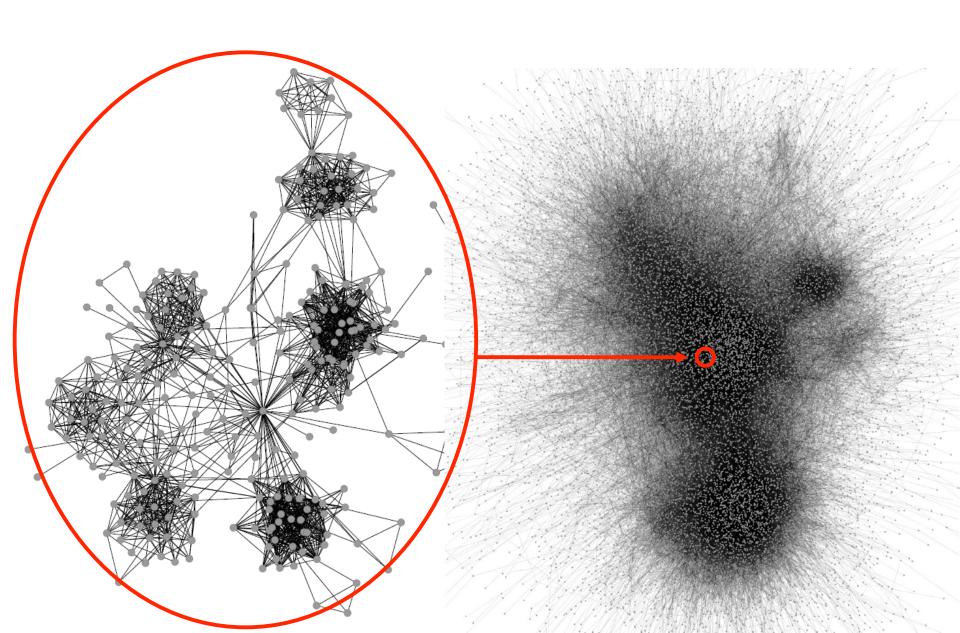














\$300 billion potential annual value to US health care—more than

potential annual value to US health care—more than double the total annual health care spending in Spain

€250 billion

potential annual value to Europe's public sector administration—more than GDP of Greece

\$600 billion

potential annual consumer surplus from using personal location data globally

McKinsey Global Institute









potential increase in retailers' operating margins possible with big data

140,000–190,000 more deep analytical talent positions, and

1.5 million

more data-savvy managers needed to take full advantage of big data in the United States

McKinsey Global Institute











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THE MAGAZINE

October 2012



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Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

Data scientist



... a new kind of professional has emerged, the data scientist, who combines the skills of **software** programmer, statistician and storyteller/artist to extract the nuggets of gold hidden under mountains of data.





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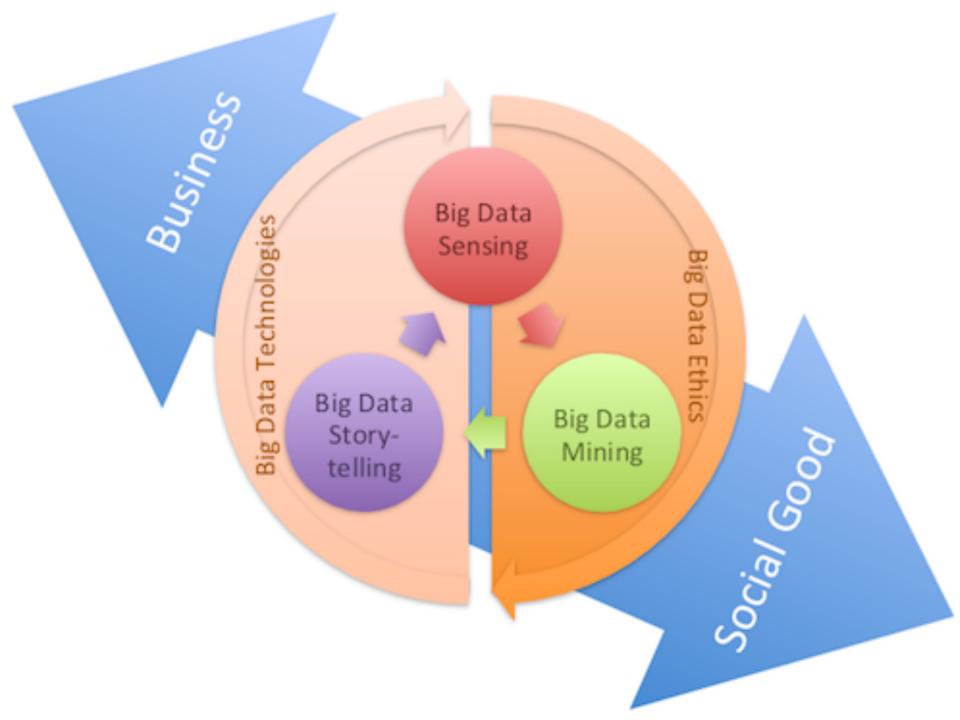




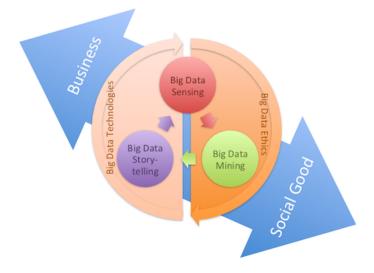






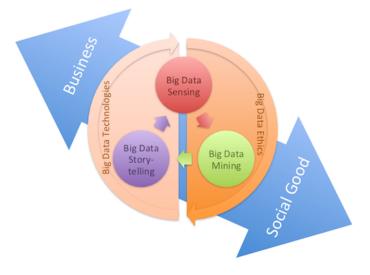


Big Data Sensing & Procurement



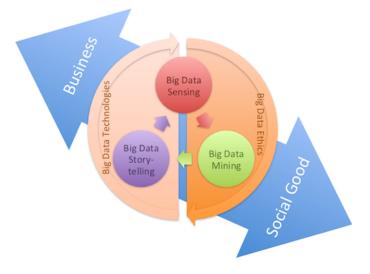
- Big data sources, crowdsourcing, crowdsensing
- Web Search Engines and Information Retrieval
- Analytical Crawling, Text Annotation

Big Data Mining



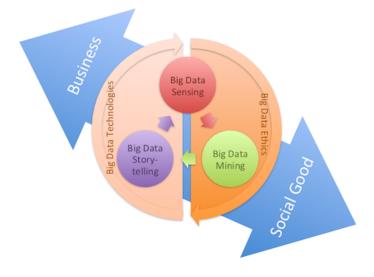
- Data Mining & Machine Learning
- Mobility Data Analysis
- Social Network Analysis
- Web Mining & Nowcasting
- Sentiment Analysis & Opinion Mining

Big Data Story Telling



- Data Visualization & Visual analytics
- Data Journalism & Story Telling

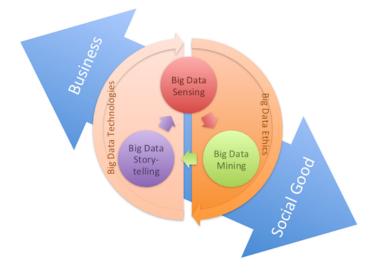
Big Data Technology



Data Management for Business Intelligence

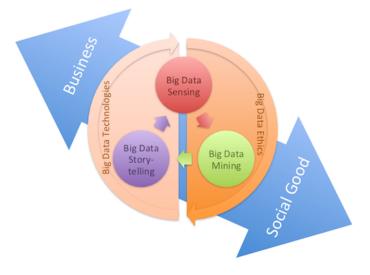
 High Performance & Scalable Analytics, NO-SQL Big Data Platforms

Big Data Ethics



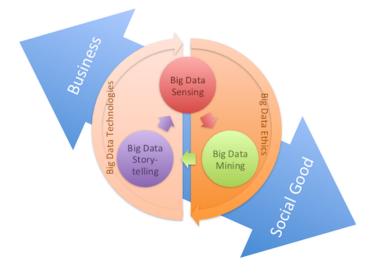
- Privacy-by-Design
- Novel EU Regulations on Personal Data
- Data Scientist's Responsibility

Big Data for Social Good



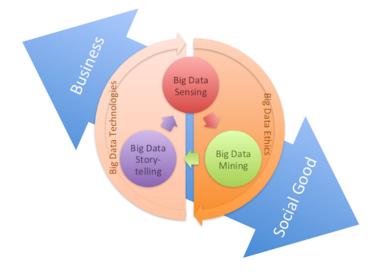
- Big Data analytics for Smart Cities and Smart communities
- Big Data analytics for Official Statistics
- Big Data analytics for Policy Making
- Epidemics & Information Diffusion

Big Data for Business



- Big Data analytics in Finance and Economics
- Recommendation Systems
- Novel CRM applications
- Big Data analytics for Tourism
- •

Alignment



- Data Analysis Statistics Basics
- SQL Database Basics
- Python Programming Basics



www.sobigdata.eu

Big Data Research Infrastructure

- 1 CNR Consiglio Nazionale delle Ricerche Italy
- 2 USFD University of Sheffield UK
- 3 UNIPI Università di Pisa Italy
- 4 FRH Fraunhofer IAIS and IGD Germany
- 5 UT Tartu Ulikool Estonia
- 6 IMT Scuola IMT Lucca Italy
- 7 LUH Leibniz Universitaet Hannover Germany
- 8 KCL King's College London UK
- 9 SNS Scuola Normale Superiore di Pisa Italy
- 10 AALTO Aalto University Finland
- 11 ETHZ ETH Zurich Switzerland
- 12 TUDelft Technische Universiteit Delft Netherlands

Starts: September 2015



Coordinator: Fosca Giannotti, ISTI-CNR, Pisa

Big Data Ecosystem

- Open Data
- Restricted Data
- Virtual Collections

Social Mining

- Text and Social Media Mining
- Social Network Analysis
- Human Mobility Analytics
- Web Analytics
- Visual Analytics
- Social Data

Ethical and Legal Framework

SoBigData

Research Infrastructure



Virtual Access

E-infrastructure



Transnation al Access

Open calls

Exploratory projects



Networking

Training

Dissemination

Innovation Accelerator



SoBigData.eu – a CERN for Big Data Analytics

Empower citizens, communities, business and institutions with a Digital Time Machine to:

- Explore the past and present to gain better understanding and self-knowledge
- Explore plausible futures to reason on the consequences of decision making

Our potential contribution ITN/EJD project

- A summer school on Big Data Analytics & Social Mining which provides a condensated experience of the full Master
- A choice of learning modules and labs together with a final datathon
- Thanks for the attention!
 - Dino Pedreschi and Fosca Giannotti