



BYTE: *Big data roadmap and cross-disciplinary community
for addressing societal Externalities*



European Data Forum, Athens, Greece

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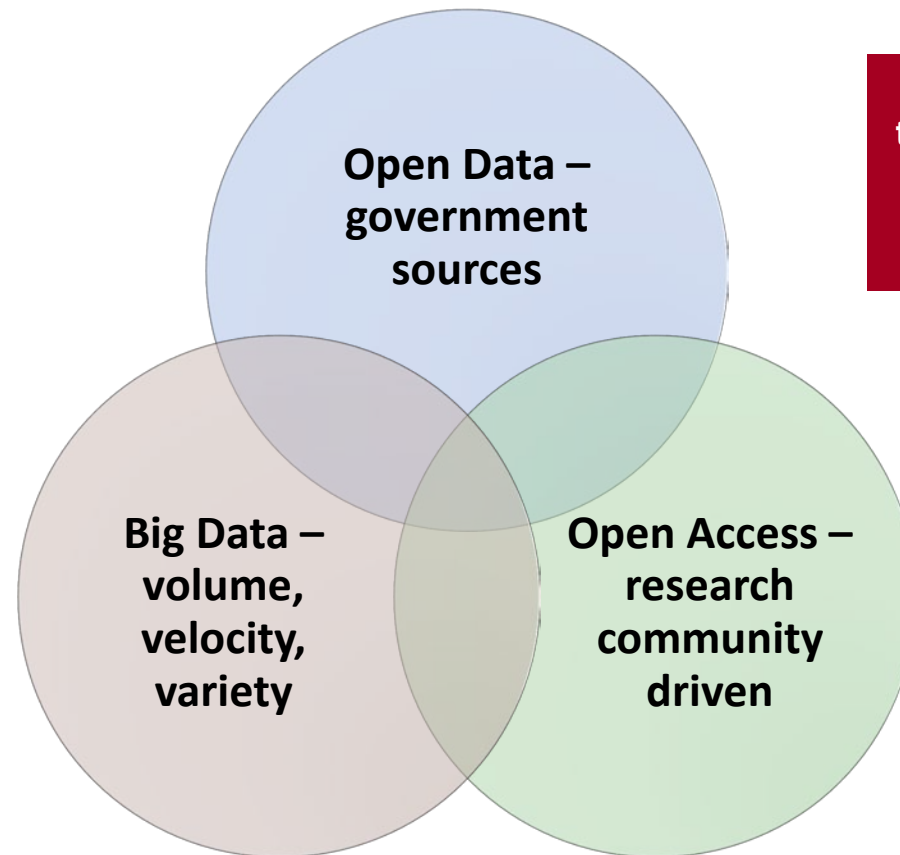
Engage!

“I have noticed even people who claim everything is predestined, and that we can do nothing to change it, look before they cross the road.”

↪ Stephen Hawking



Big Data/Open Data/Open Access: Trifecta of Innovation Opportunity



Open data can help unlock \$3 trillion to \$5 trillion in economic value annually across seven sectors.
McKinsey Global Institute

In the developed economies of Europe, government administrators could save more than €100 billion in operational efficiency by using big data....
McKinsey Global Institute

“Data is the new gold”

Neelie Kroes
VP for Digital Agenda



Project details: BYTE



- Big data roadmap and cross-disciplinary community for addressing societal Externalities (BYTE) project
- March 2014 – Feb 2017; 36 months
- Funded by DG-CNCT: €2.25 million (Grant agreement no: 619551)
- 11 Partners
- 10 Countries



Big data concerns: externalities

- The effects of a decision by stakeholders (e.g., governments, industry, scientists, policy-makers) that have an impact on a third party (especially members of the public).
- May be positive or negative

Economic

- Boost to the economy
- Innovation
- Increase efficiency
- Smaller actors left behind
- Shrink economies

Legal

- Privacy
- Data protection
- Data ownership
- Copyright
- Risks associated with inclusion & exclusion

Social & Ethical

- Transparency
- Discrimination
- Methodological difficulties
- Spurious relationships
- Consumer manipulation

Political

- Reliance on US services
- Services have become utilities
- Legal issues become trade issues



Case studies: a sectoral approach



Environmental data

- European Space Agency
- Global Monitoring for Environment and Security



Commercial data

- Google Street View



Utilities / Smart Cities

- Siemens



Cultural Data

- The European Library



Energy

- Statoil



Health

- GOSgene Initiative, University College London



Transport

- SNCF



Key outcomes

- Define research efforts and policy measures necessary for responsible participation in the big data economy
- Vision for Big Data for Europe for 2020, incorporating externalities
 - Amplify positive externalities
 - Diminish negative ones
- Roadmap
 - Research Roadmap
 - Policy Roadmap
- Formation of a Big Data community
 - Implement the roadmap
 - Sustainability plan



JOIN THE BIG DATA COMMUNITY

Sign up to the BYTE mailing list



- kush.wadhwa@trilateralresearch.com

Check out our website

- <http://www.byte-project.eu/>



First Workshop:

- 11-12 September 2014, Lyon

Follow us on Twitter

- @BYTE_EU 



THANK YOU

Any questions?

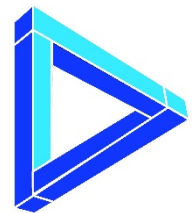
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