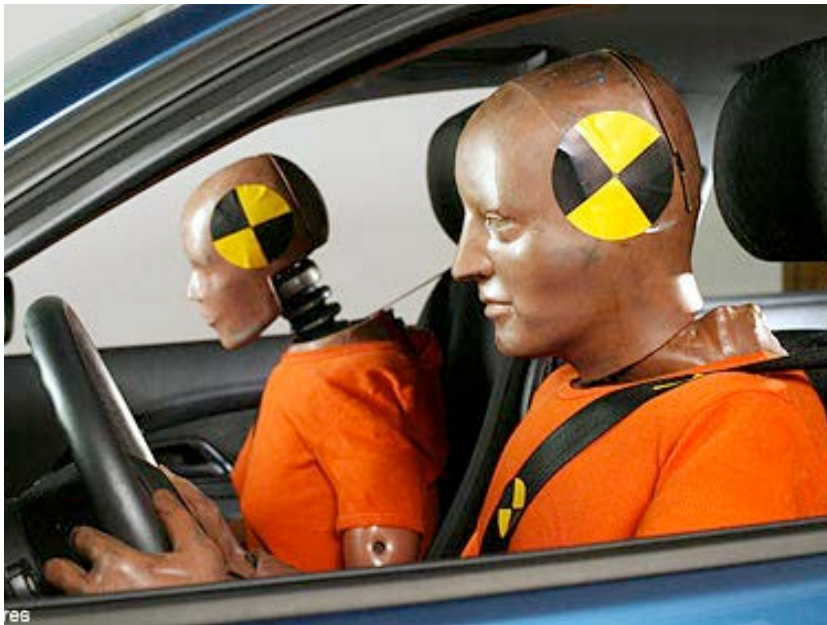


# The Impact of Big Data



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ESFRI Conference STAY TUNED TO THE FUTURE  
Impact of Research Infrastructures  
Bologna, 24-25 January 2018

# Impact of Research Infrastructures for Social Sciences and Humanities

# Big Data

# Big Data

In the social sciences & humanities, infrastructures are data infrastructures: databases, archives, data sets, software packages, computational models - possibly in the cloud (EOSC).

**Big Data are not information**

**Big Data are not information  
data**

**Big Data are not information**

**data**

**metadata**

Big Data are not information

data

metadata

unstructured data



Big Data are processed by  
algorithms  
with machine learning techniques.

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patterns and correlations

# Assessing scientific impact

# Assessing scientific impact rankings and benchmarkings

Assessing scientific impact  
rankings and benchmarkings

Assessing the application of scientific  
research

Assessing scientific impact  
rankings and benchmarkings

Assessing the application of scientific  
research

number of accesses,  
international visibility,  
uniqueness of the service,  
possible multidisciplinary

Criteria and references are different in each of these fields and must remain different.

# Big Data question causality



# Big Data question causality

algorithms work with correlations  
and patterns

Shift the assessment from the past  
to the future

Shift the assessment from the past to the future

The main use of Big Data is prediction rather than data analysis.

The assessment addressing future impact can only be performative.

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The results will be local, situated, and provisional.

We must give up the claim to find  
a common ground.

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a common ground.

Keep difference as a resource.