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## **Classification of Types of Big Data**

Extract from UNECE website



The following is an extract from the UNECE Statistics Wiki, taken on 11 May 2015 from <http://www1.unece.org/stat/platform/display/bigdata/Classification+of+Types+of+Big+Data>

This represents a proposed classification, but no final version has been agreed yet.

It is shown here as background for the Big Data discussion, showing one aspect of classifications applications in this area.

# Classification of Types of Big Data

The following classification was developed by the Task Team on Big Data, in June 2013. Comments and feedback are welcome.

**1. Social Networks (human-sourced information):** this information is the record of human experiences, previously recorded in books and works of art, and later in photographs, audio and video. Human-sourced information is now almost entirely digitized and stored everywhere from personal computers to social networks. Data are loosely structured and often ungoverned.

1100. Social Networks: Facebook, Twitter, Tumblr etc.

1200. Blogs and comments

1300. Personal documents

1400. Pictures: Instagram, Flickr, Picasa etc.

1500. Videos: Youtube etc.

1600. Internet searches

1700. Mobile data content: text messages

1800. User-generated maps

1900. E-Mail

**2. Traditional Business systems (process-mediated data):** these processes record and monitor business events of interest, such as registering a customer, manufacturing a product, taking an order, etc. The process-mediated data thus collected is highly structured and includes transactions, reference tables and relationships, as well as the metadata that sets its context. Traditional business data is the vast majority of what IT managed and processed, in both operational and BI systems. Usually structured and stored in relational database systems. (Some sources belonging to this class may fall into the category of "Administrative data").

21. Data produced by Public Agencies

2110. Medical records

22. Data produced by businesses

2210. Commercial transactions

2220. Banking/stock records

2230. E-commerce

2240. Credit cards

**3. Internet of Things (machine-generated data):** derived from the phenomenal growth in the number of sensors and machines used to measure and record the events and situations in the physical world. The output of these sensors is machine-generated data, and from simple sensor records to complex computer logs, it is well structured. As sensors proliferate and data volumes grow, it is becoming an increasingly important component of the information stored and processed by many businesses. Its well-structured nature is suitable for computer processing, but its size and speed is beyond traditional approaches.

31. Data from sensors

311. Fixed sensors

3111. Home automation

3112. Weather/pollution sensors

3113. Traffic sensors/webcam

3114. Scientific sensors

3115. Security/surveillance videos/images

312. Mobile sensors (tracking)

3121. Mobile phone location

3122. Cars

3123. Satellite images

32. Data from computer systems

3210. Logs

3220. Web logs