INFORMATION

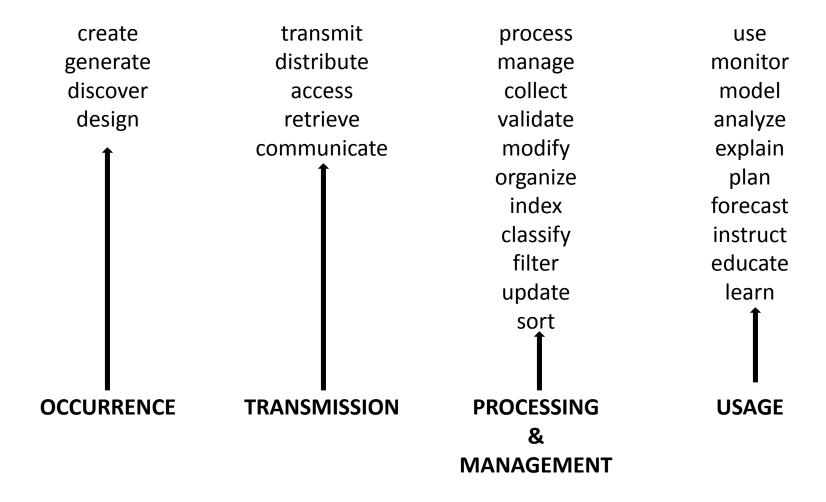
Deepak Kumar
Based (mostly) on Luciano Floridi's
Information: A Very Short Introduction,
Oxford, 2010.

Information

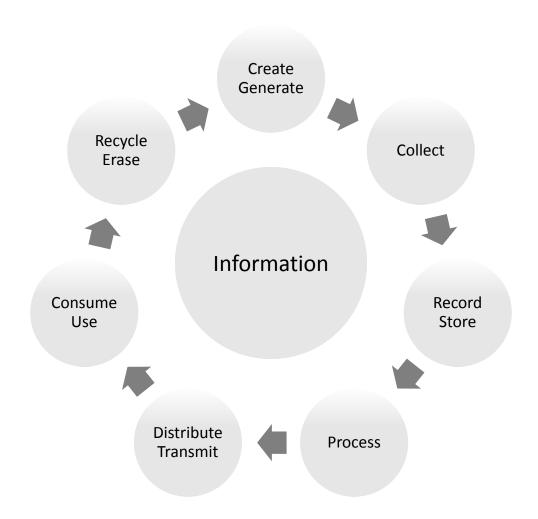
create generate discover design transmit
distribute
access
retrieve
communicate

process manage collect validate modify organize index classify filter update sort use monitor model analyze explain plan forecast instruct educate learn

Information



Information Life Cycle



The Information Societies

- Intangible assets and services: business, property, communications, finance, insurance, entertainment
- Public Sectors:
 education, public administration, health care
- At least 70% of GDP depends on intangible goods.
- Requires data: More than anyone has seen in entire history!

The Zettabyte Era: Data Deluge

- Humanity had accumulated an estimated ~12 exabytes of data prior to computers.
- In 2002 alone, print, film, magnetic, and optical storage media produced >5 exabytes of data (over 92% stored on magnetic disks).
- Between 2006-2010 the global quantity of digital data will have increased more than 6x from 161 exabytes to 988 exabytes [Exaflood].
- Question: What is the planet's digital storage capacity?

Information & Communications Technologies (ICTs)

- Lots of advantages: education (MOOCs anyone?), welfare, prosperity, economic, scientific advances, etc.
- Also: Significant risks, new dilemmas, profound questions, etc.
- What are the conceptual, cultural, and ethical roots of information societies?

Gear up!

 "It is high time we start digging deeper, topdown, in order to expand and reinforce our conceptual understanding of our information age, of its nature, of its less visible implications, and of its impact on human and environmental welfare, and thus give ourselves a chance to anticipate difficulties, identify opportunities, and resolve problems." -: Floridi, p8.

The Fourth Revolution

- Copernicus, 16th century
- Darwin, 19th century
- Freud, 19-20th century
- Turing, 20th century

Luciano Floridi Video: The Fourth Technological Revolution, TEDxMaastricht, April 2011.

The Information Age

Infosphere

Inforgs



Re-ontologizing our world?



From: http://bigbangtheory.wikia.com/wiki/Siri

Re-ontologizing...



The Beatles. Now on iTunes.



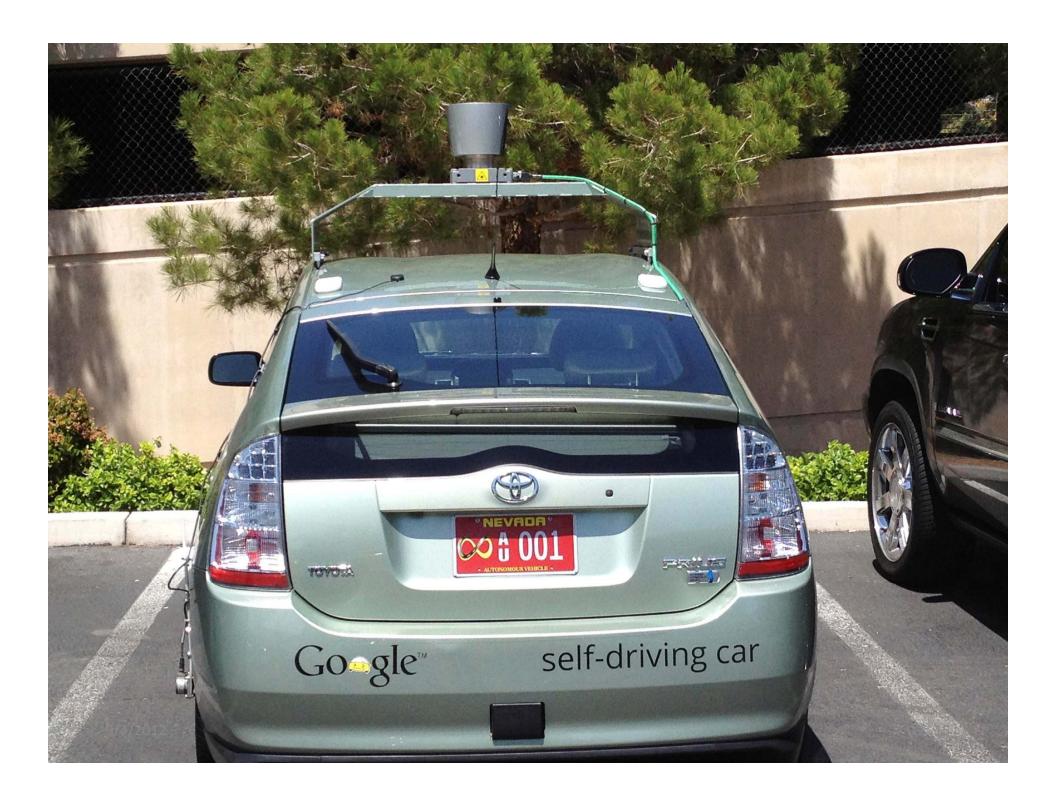
Materialist

Informational

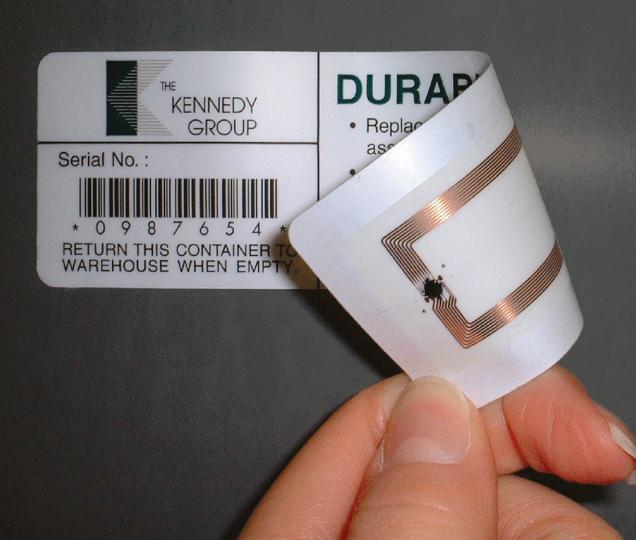








Creating ITentities with RFID tags.



9/4/2012

16

DOCTOR FUN

16 Jan 2006



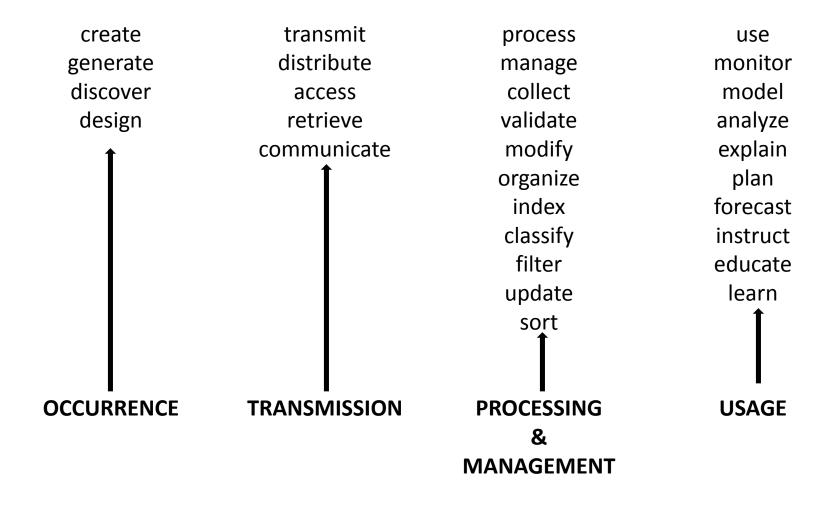
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The (Information) Rich

The Digital Divide

The (Information) Poor

Information: Foundations & Applications



Next,

Defining Information