

# Data Ethics

INFX 551  
Winter 2018

# Course Outline

## Week 9

Data	Data Systems	Policy, Privacy, & Ethics
<u>Types &amp; Roles</u>	Repositories	Policy
<u>Documentation</u>	Preservation	Privacy
<u>Standardization</u>	Cost Models	Ethics

# Data Ethics

...evaluates ***moral problems*** related to **data** (including generation, recording, curation, processing, dissemination, sharing and use)...in order to formulate and support ***morally good solutions*** (e.g. right conducts or right values).

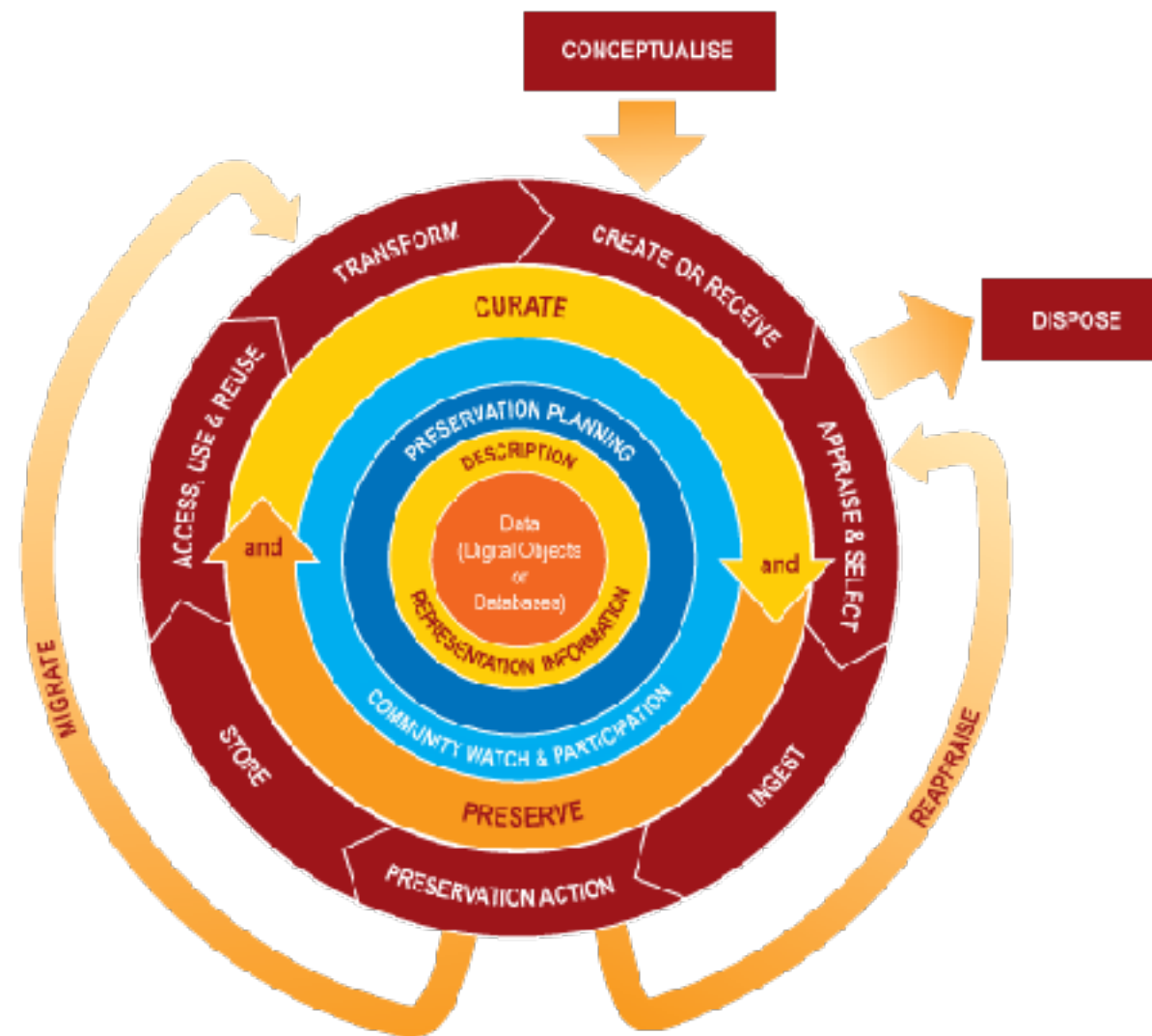
Floridi & Taddeo, 2016

- Strong intersection between privacy, security, governance, and ethics.
  - **Data Ethics** is about what Should be done, in any given scenario where data are being managed
  - **Data Governance** is about HOW those actions should be carried out, and by whom.

## Personal Identifiable Information + Sensitive Data

**First order:** Name; Home address; Email address; National identification number; Passport number; Vehicle registration plate number; Driver's license number; Face, fingerprints, or handwriting; Credit card numbers; Date of birth; Birthplace; Genetic information; Telephone number; Login name, screen name, nickname, or handle

**Second order:** Country, state, postcode or city of residence; Age; Gender or race; Name of the school OR employer; position title; Criminal record; Web cookies / logs



- Curation shapes long-term records, evidence, access, etc.
- In doing so, there is a moral dimension for:
  - Access (Who should get to view, use, etc)
  - Analysis (What ends should data be used for...)
  - Storage (Where can and should data be stored for equitable access and application?)

## OECD's Fair Information Practices

**Collection Limitation**—There should be limits to the collection of personal data and any such data should be obtained by lawful and fair means and, where appropriate, with the knowledge or consent of the data subject. (read: **Informed Consent**)

**Data Quality**—Personal data should be relevant to the purposes for which they are to be used, and, to the extent necessary for those purposes, should be accurate, complete and kept up-to-date.

**Purpose Specification**—The purposes for which personal data are collected should be specified not later than at the time of data collection and the subsequent use limited to the fulfillment of those purposes.

## OECD's Fair Information Practices

**Security Safeguards**—Personal data should be protected by reasonable security safeguards against such risks as loss or unauthorized access, destruction, use, modification or disclosure of data.

**Openness**—There should be a general policy of openness about developments, practices and policies with respect to personal data. Means should be readily available of establishing the existence and nature of personal data, and the main purposes of their use, as well as the identity and usual residence of the data controller.

**Accountability**—A data controller should be accountable for complying with measures which give effect to the principles stated above.



**Individual Participation**—An individual should have the right:

- (a) to obtain from a data controller, or otherwise, confirmation of whether or not the data controller has data relating to her;
- b) to have communicated to her, data relating to her within a reasonable time; at a charge, if any, that is not excessive; in a reasonable manner; and in a form that is readily intelligible to her;
- (c) to be given reasons if A or B is denied, and to be able to challenge such a denial; and
- (d) if the challenge is successful, to have the data erased, rectified, completed, or amended.

## **General Questions to ask when dealing with ethical questions in Data Curation:**

1. What procedures are in place to identify, assess, and protect sensitive / PII data?
2. Which individuals have designated responsibilities within the organization to safeguard data?
3. What could happen if the data are not safeguarded properly? To which people and groups within the organization should questions about data use or the possible misuse of data be reported?