The Fog of Data

Sue Swenson
Inclusion International
USA

Accessibility, Data, and SDG

Friday, February 23, 2018,
14.20h - 15.50h, M3
Accessible data are not accessible to all

• Non-statisticians
• Public policy experts
• Families
• People with intellectual disabilities
• Busy people
• People unfamiliar with a topic
Accessible data are not always useful
Percentage of All Students who Have Received One or More Out of School Suspensions by District (2011-12)

NOTE: For each school district, the percent of students receiving one or more out of school suspensions (OSS) is calculated by dividing the district’s cumulative number of students receiving one or more out-of-school suspensions for the entire 2011-2012 school year by the district’s student enrollment based on a count of students taken on a single day between September 27 and December 31.
Percentage of Students With Disabilities (IDEA) who Have Received One or More Out of School Suspensions by District (2011-12)

NOTE: For each school district, the percent of students receiving one or more out of school suspensions (OSS) is calculated by dividing the district’s cumulative number of students receiving one or more out of school suspensions for the entire 2011-2012 school year, by the district’s student enrollment based on a count of students taken on a single day between September 27 and December 31. Because race/ethnicity details on OSS are not available for students receiving services under IDEA, the OSS percentages reported for students with disabilities are restricted to data for students receiving services under IDEA.

Civil Rights Data Collection 2011-12
Geospatial platforms weak in social data. Disability data generally absent.

- US Federal Geographic Data Committee
  - http://www.fgdc.gov/

- UN Global Geographic Information Management
  - http://sdg.esri.com/dashboard/
Accessibility and ethics for maps

For blind users

• Benetech: Diagramcenter.org
• Esri: Tactile map of Switzerland
• GPII.net

Ethics of sensors, AI, big data, automatic personalization

• APCP project of GPII.net
Barriers Remain

- Lack of Universal Design
- Digital Literacy Skills
- Equal Opportunity
- Knowledge Translation
- Transmission Pathways
- Social Context
- Economic Barriers
Emerging Technologies of Interest to the Cognitive Disability Community

- Promise of 5G smart and connected devices
- Tactile Internet: internet of things
- Machine Learning
  - Text Simplification
- Smart Communities
  - Context aware systems
- Augmented Reality