

# iSHARE2 Core Micro Dataset Quality

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### Outline

- Understanding the concept of Data Quality
- Data Quality Rules for Core Micro Dataset

Session duration: 15 minutes



## **Data Quality**

- Data are of high quality "if they are fit for their intended uses in operations, decision making and planning" (J. M. Juran, evangelist for quality)
- The measurement of quality of data can be expressed by its completeness, validity, consistency, timeliness and accuracy that will make the data appropriate for a specific use
- The processes and technologies involved in ensuring the conformance of data values to a specific requirements and acceptance criteria is quality assurance



#### **Quality Checks done in iSHARE2 ETL Process**

- Ensuring the first event is legal
  - Like the first event must be Enumeration, Birth or Inmigration.
- Ensuring the last event is legal
  - Like the last event must be End of Observation,
    Death or Outmigration.
- Ensuring the event transitions are legal



### **Transition Checks**

After Event (Followed By)									
	ENU	BTH	IMG	EXT	ENT	DTH	OMG	OBE	None
ENU									
BTH									
IMG									
EXT									
ENT									
DTH									
OMG									
OBE									

Legal Transition

**Illigeal Transition** 

Legal in case of multiple movements



### **Quality Metric**

- Quality Metric 1: % of all start events that are illegal
- Quality Metric 2: % of all end events that are illegal
- Quality Metric 3: % of all transitions that are illegal









