THE REPUBLIC OF UGANDA
MINISTRY OF HEALTH

UGANDA Supranational® Reference Laboratory

Timely Accurate Diagonostics for a TB-Free Africa

LABORATORY INFORMATION MANAGEMENT TRAINING

Module 2 - Data Management

Supranational Reference Laboratory ,Uganda

Module Objectives

At the end of this module, participants will be able to:

- Define data and the life cycle of data sets
- Describe laboratory data analysis and use at the different levels of need

What is Data?

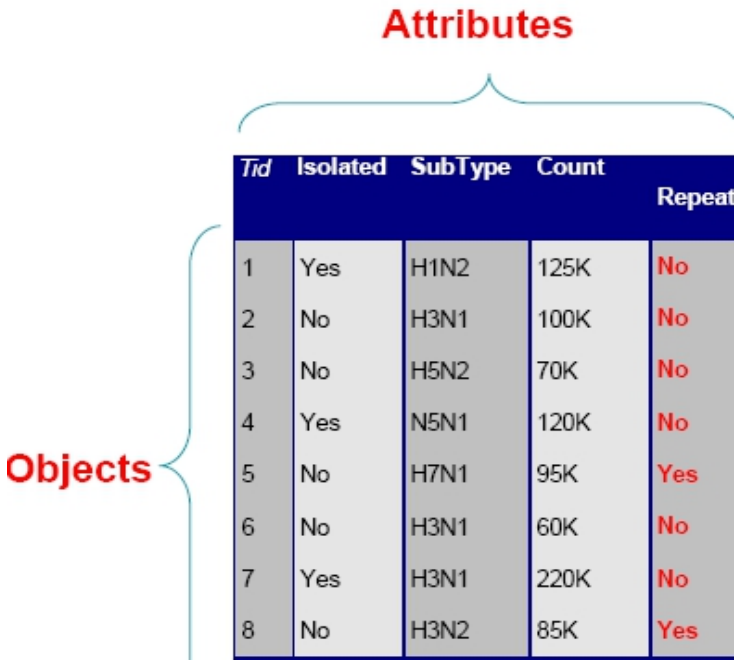
- Data represents unorganized and unprocessed facts.

  Usually data is static in nature.

- Data is a prerequisite to information.

What is Data?

- An attribute is a property or characteristic of an object also known as variable or field.
- A collection of attributes describe an object instance or record



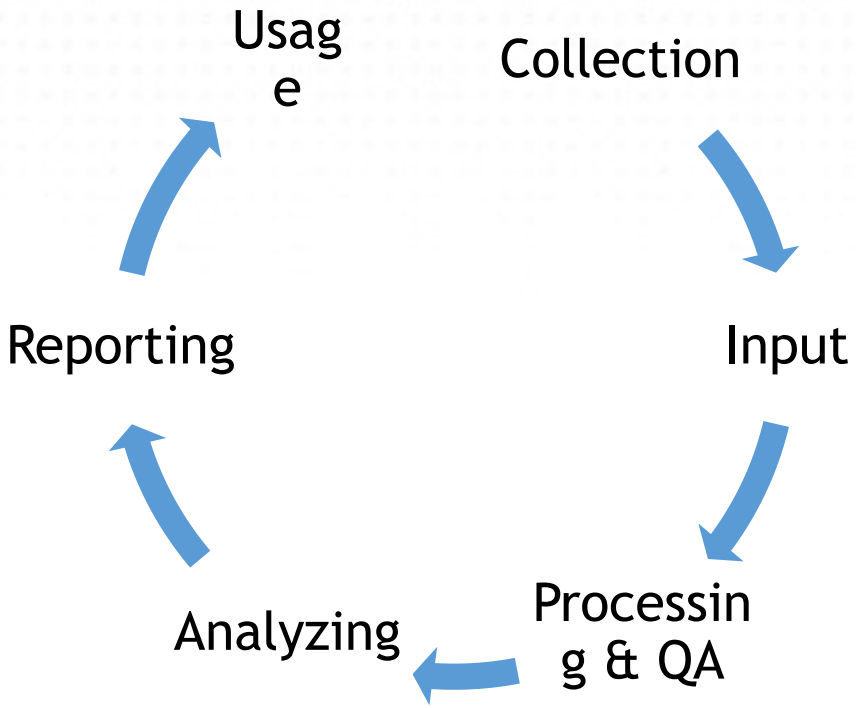
Forms of Data

- **Facts**
  - Just data –raw results and statistics
- **Information**
  - Data that is processed (compiled and analyzed)
  - Monthly/quarterly reports, etc.

Forms of Data..

- **Knowledge**
  - Information that is interpreted/evaluated/formatted
  - Helps explain a problem or situation
  - Used to make decisions
- Accuracy and Consistency are key characteristics of all data

Data Life Cycle



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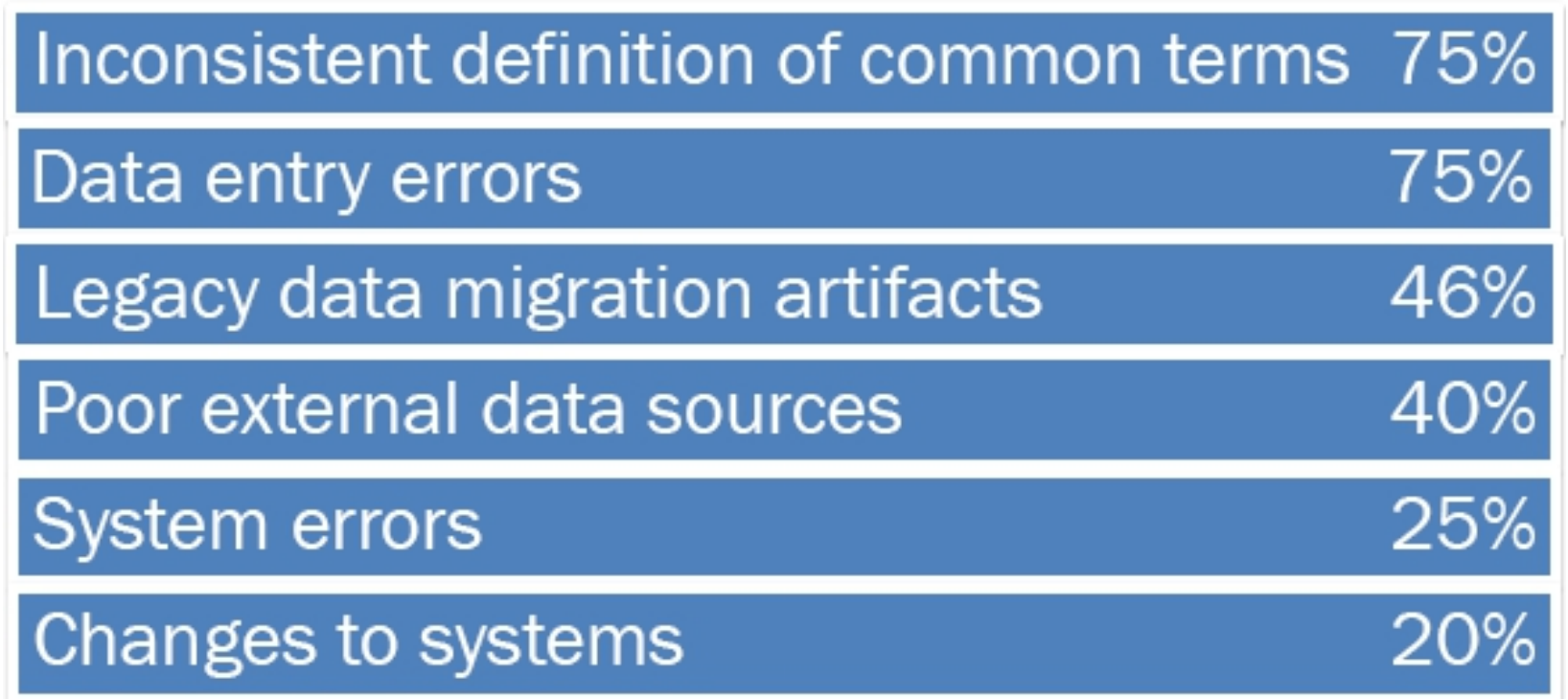
Data Quality

The quality of data greatly affects its ongoing value

Sources of Poor Quality Data

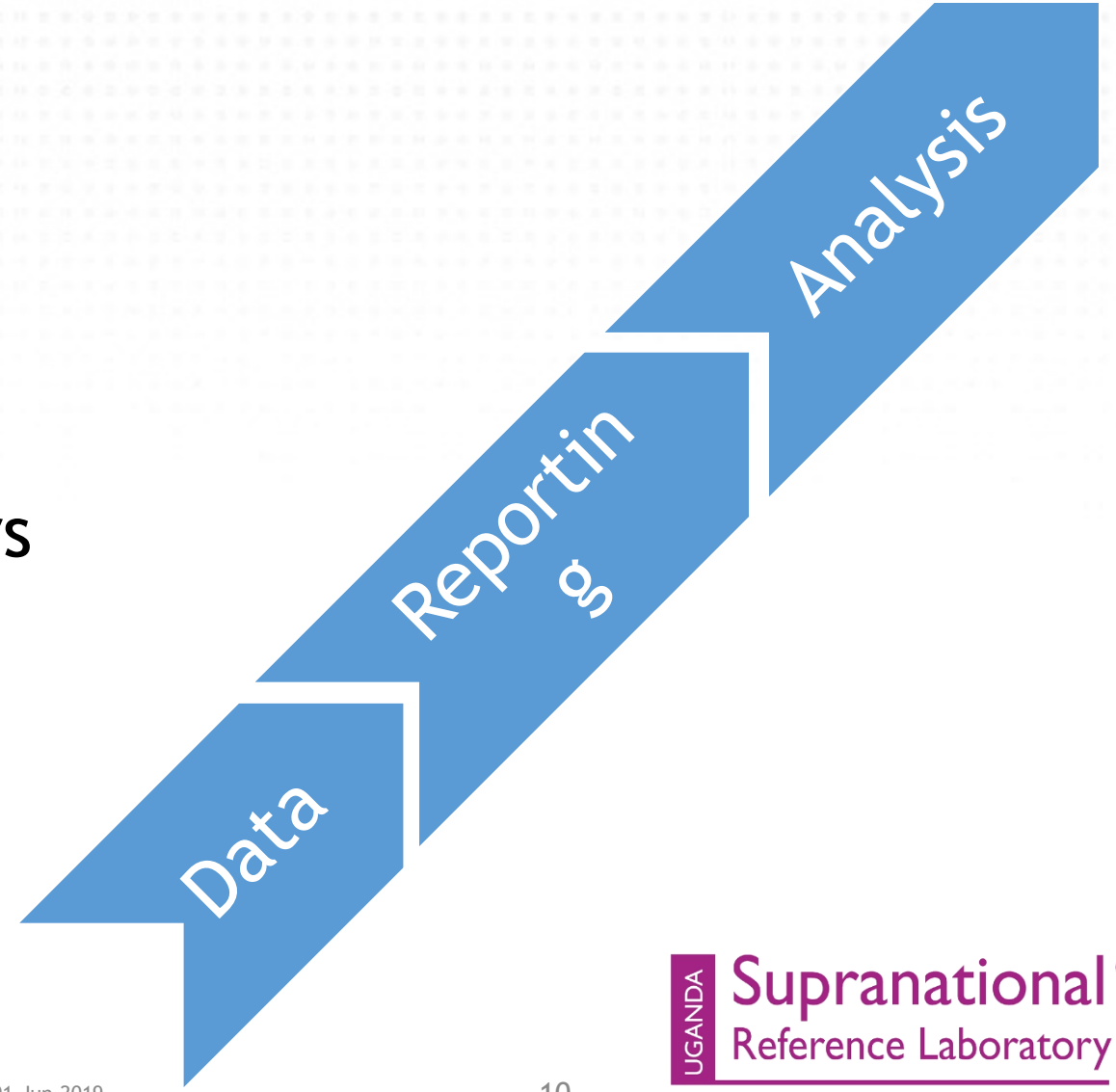
"Which of the following most often contribute to poor data quality in your organization?"



Source: Philip Russom, Liability and Leverage A Case for Data Quality, DM Review Magazine, August 2006

Types of Data Use

- **Reporting**
  - Analytical reports
  - Key Performance Indicators
- **Ad-hoc query**
  - "What happened?"



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Types of Data Use…

- **Real-time**-"What is happening now?"
  - Events/Triggers
- **Data Mining**
  - "What will happen?"
  - "How/why did it happen?"

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Exercise

- What is data?
- What are the types of data use?
- What are forms of data?

Acknowledgments

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