

# Data Collection

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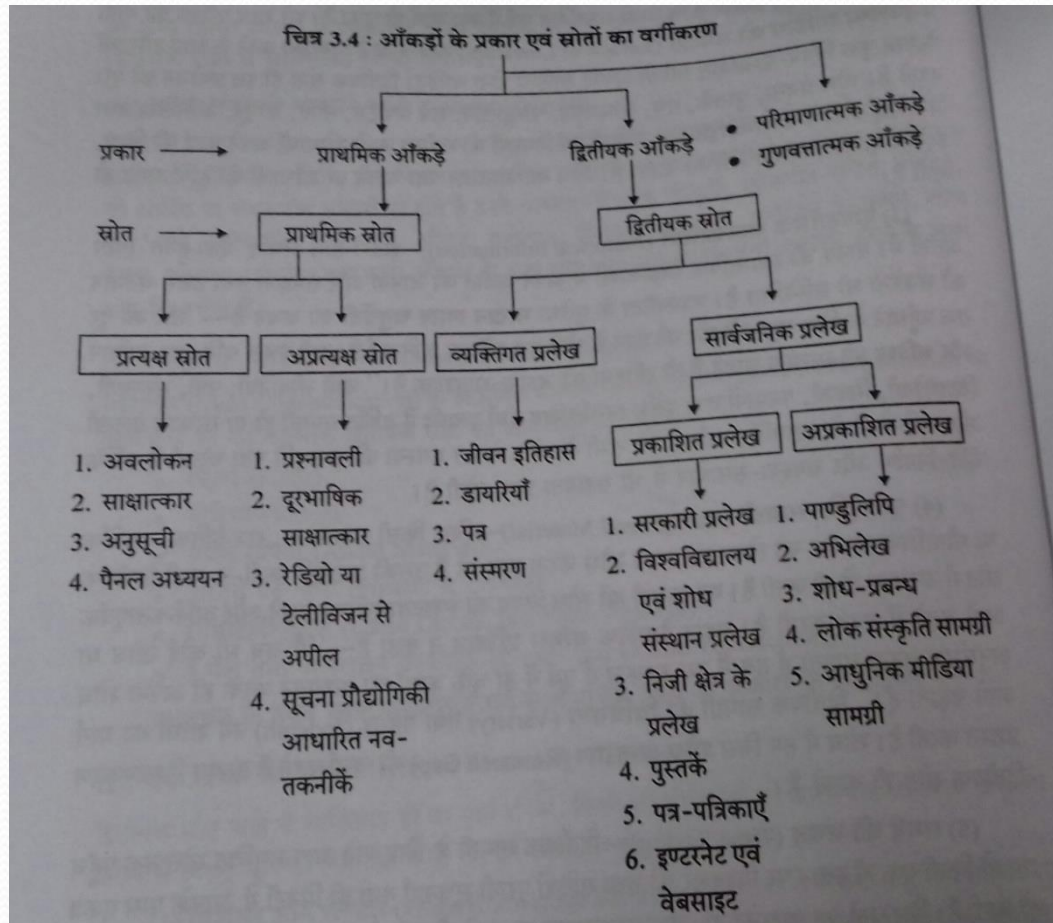
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# Data and fact

- **Information**-captured data and knowledge. ( your photo) may be wrong.
- **Data**- a set of values quantitative or qualitative set of variables. may be collected , stored and analyzed. Always correct.
- **Fact**- Verified data. Proved to be true.
- **Knowledge**- on personal map/ model of the world.
- **Variables**- an element or factor or feature likely to be changed. ( independent or manipulated variable is presumed cause/ stimulus ,while dependent or criterion variable is presumed effect or response.

# Types and Sources of Data



# Research and data

- **आविष्कार (ईजाद )- Invention-** Entirely new thing like- fire, wheel, computer. ( necessity is the mother of invention).
- **खोज ( गवेषणा )- Discovery-** something already existing, but comes in light by efforts.
- **जांच पड़ताल - Enquiry** (inquiry- in American style)- searching the facts and general information gathering.
- **अन्वेषण – Investigation ( anu+eshan )-** Serial wise linked deep enquiry.

# Research

- शोध ( अनुसन्धान )- *Shodhan* or purification.
- अनु + संधान (behind the goal )-reinterpretation of data or seeking new knowledge or explanation of existing knowledge.
- Old French term- re+ cerchier ( to search).
- The term came in existence in 1577.
- The systematic effort for new knowledge is research- creswell.
- Basics- six honest servant of ***Rudyard Kipling***- what, when, where, who, why, how.

# *Types of research*

- Pure and applied.
- Qualitative and quantitative.
- Descriptive and analytical.
- Conceptual and empirical.
- Experimental and diagnostic.
- Comparative and historical.
- Action research.
- KAP study.
- Survey type.----- and many more- Development Res. And Ethnographic etc.

# Problems and Precautions

- Identification of the problem.
- Selection of the tool of data collection.
- Values v/s facts dilemma.
- Authenticity of the information.
- Use of data analysis techniques.
- No control over data source and respondents.
- Quantification of information.
- Paucity of resources and manpower.