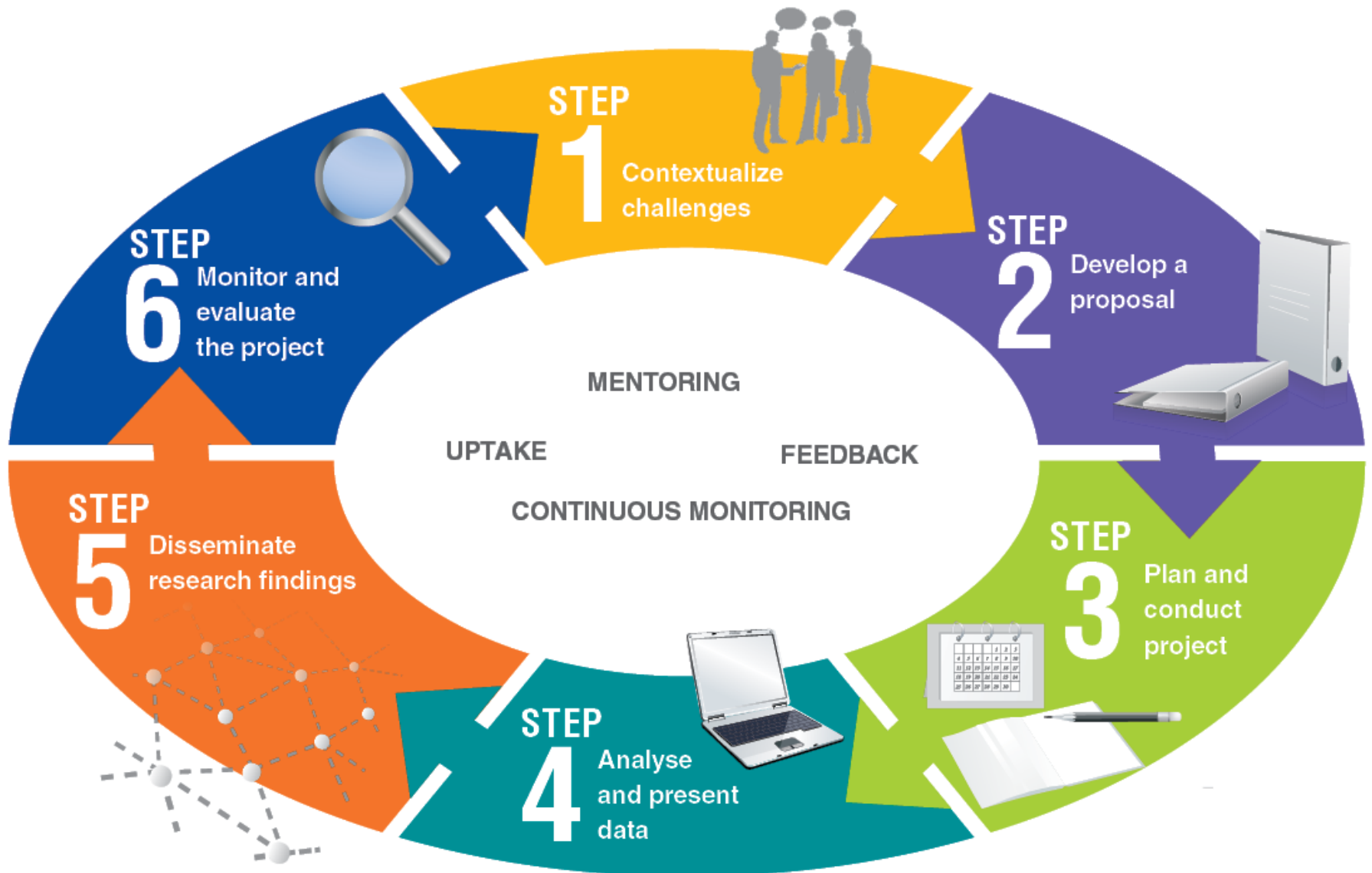


Module 4b: Qualitative data collection, analysis and presentation

Six steps in the IR process



Presentation outline and Key concepts

Expected outcomes

Key concepts

1. Qualitative data collection
2. Analysis of qualitative data
3. Presentation of qualitative data

Application of key concepts

Expected outcomes

Able to describe:

Appropriate sampling strategies, qualitative data collection techniques and tools

Data analysis processes in a qualitative study
Various options for data presentation

Key concept 1: Data collection-*Sampling*

Sampling strategies

Purposive sampling – sample selected intentionally

Convenience sampling

Snowball sampling

Maximum variation

Outliers

Intensity sampling

Homogenous sampling

Key concept 1: Data collection

Method

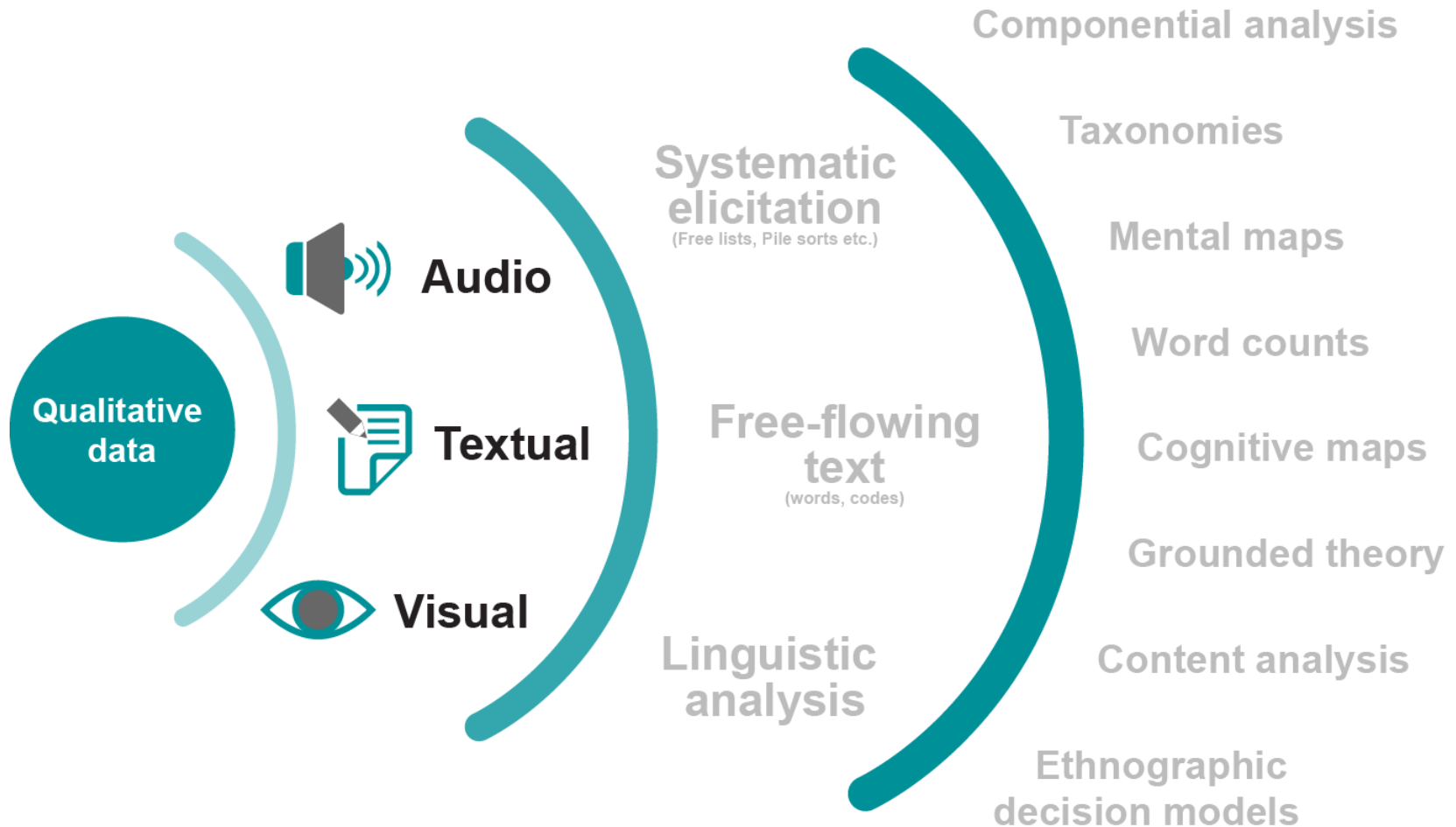
Depends on:

research questions

study objectives

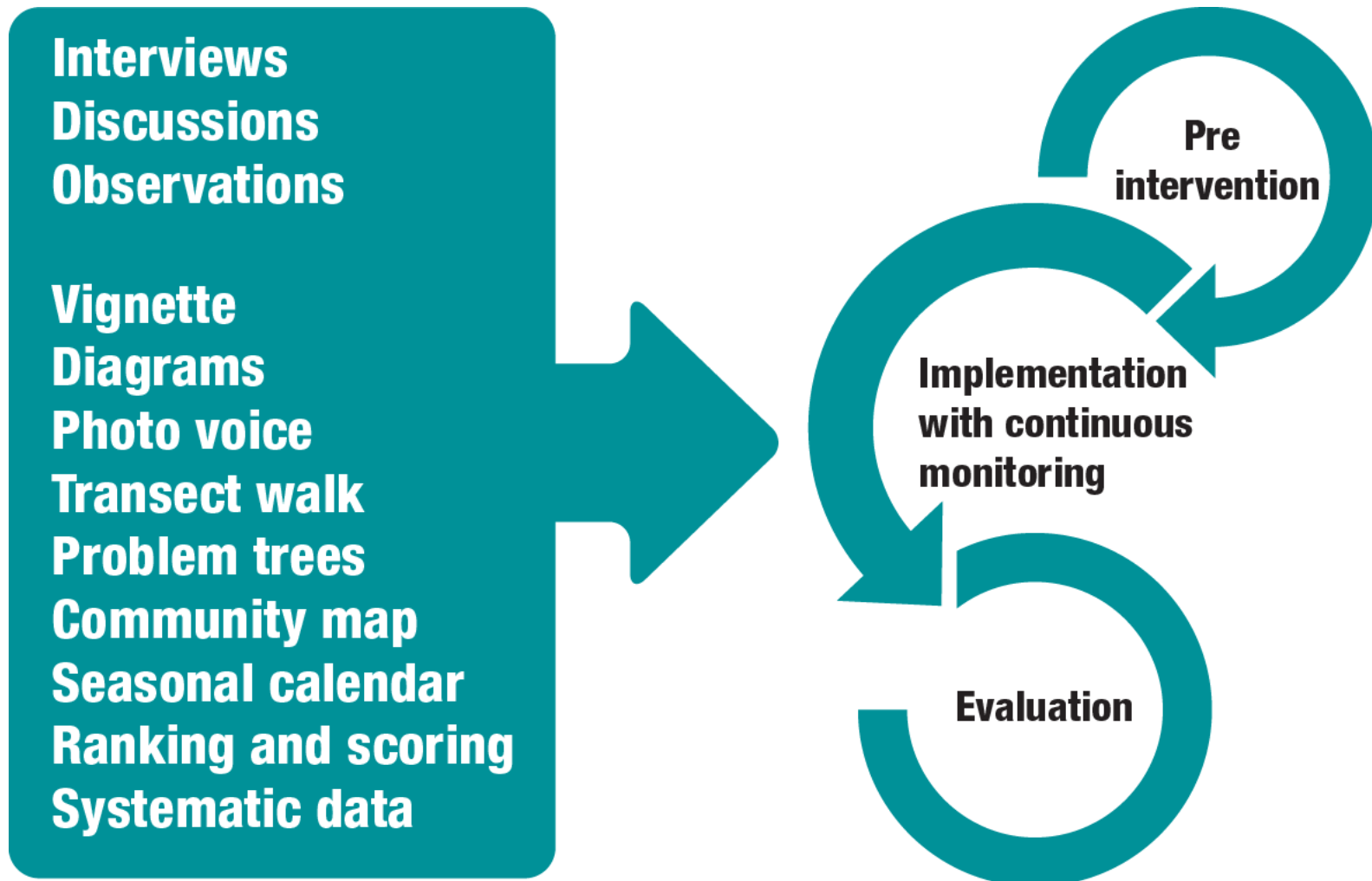
specific information you are interested in

Key concept 1: Data collection



Key concept 1: Data collection

Qualitative techniques in the IR process



Key concept 1: Data collection IN-DEPTH INTERVIEW



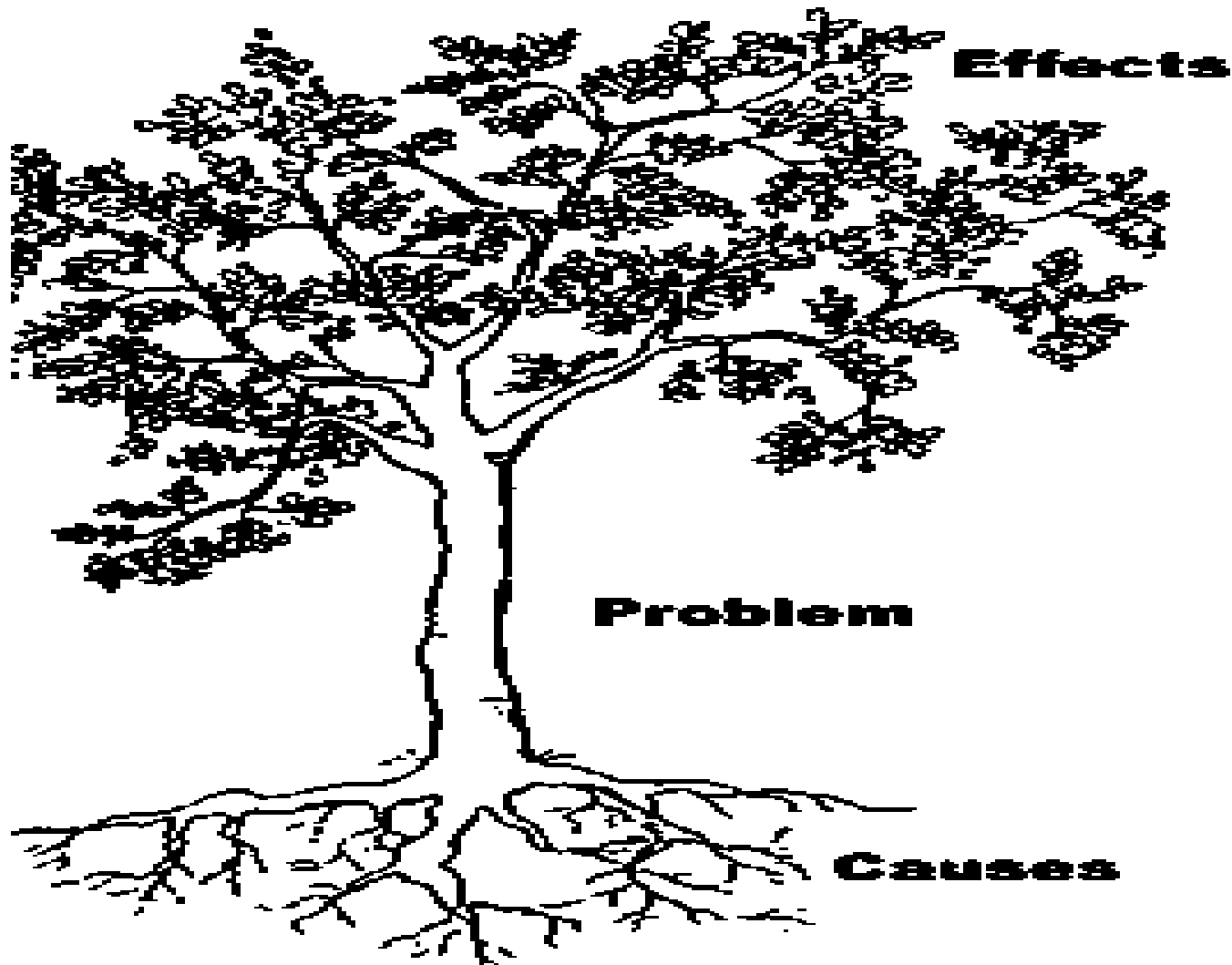
Key concept 1: Data collection

TRANSECT WALK



Key concept 1: Data collection

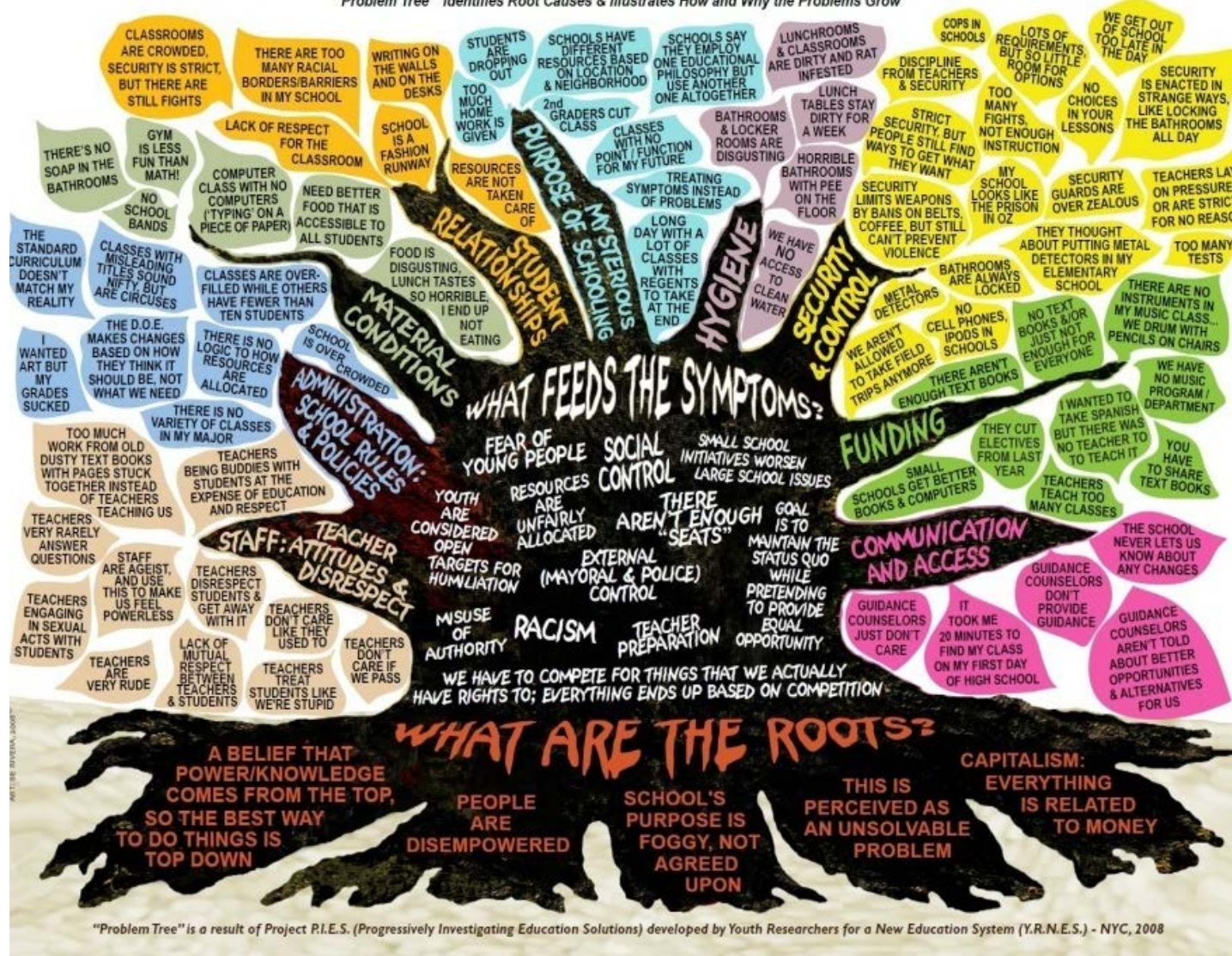
PROBLEM TREE



Key concept 1: Data collection: PROBLEM TREE

THE CURRENT NYC SCHOOL SYSTEM ISN'T WORKING

"Problem Tree" Identifies Root Causes & Illustrates How and Why the Problems Grow



"Problem Tree" is a result of Project P.I.E.S. (Progressively Investigating Education Solutions) developed by Youth Researchers for a New Education System (Y.R.N.E.S.) - NYC, 2008

Key concept 1: Data collection

PROBLEM TREE / GROUP DISCUSSION



Key Concept 1: Data Collection

VIGNETTE

Box 1. An example of a specific health state vignette

"A woman of about your age. Recently she was treated for breast cancer which involved surgery to remove her breast and underarm glands. She takes a daily tablet as continuing treatment. She now finds herself in physical health as good as before with the exception of occasional discomfort around her chest wall and stiffness in her shoulder as a result of the treatment. The nature of the surgery means that she must now take extra care with her appearance, especially with the clothes she can wear. Mentally, her state of health has also returned to its former level. She is not unduly anxious about her diagnosis of cancer."

Example presented by Ritu Sadana at the WHO informal consultation in January 2000 (17).

Key concept 1: data collection (FGD)

Before data collection

- Have your data collection tool ready

- Make appointments early

- Ensure you adhere to selection criteria

- Agree on an appropriate venue

- e.g. easy to access, no distractions, neutral place

Key concept 1: Data collection

FOCUS GROUP DISCUSSION



Key concept 1: Data collection

Discussion guide

Topic guide for FGD with adult men and women about community attitudes and perceptions towards antimalarial combination treatments (ACT)

FGD IDNO:

Audio IDNO: AUD

Date of interview: ___/___/___ (DD/MM/YYYY)

District: _____ Community: _____

Malaria Transmission Season (circle): High / Low

FGD type (circle): Adult men / Adult women and / or pregnant women / Caretakers / Other _____

FGD No (circle): 1 2 3

No of FGD participants:

Moderator: _____ Note-taker: _____

Introduction:

I am _____ from _____ (moderator)

I am _____ from _____ (note-taker)

Introduce group using first name

Demographic details – using first name for discussion

General purpose of the study To understand participants experiences with some health problems in the community and the kinds of health care they use

Key concept 1: Data collection (FDG)

Ground rules

Only one person talks at a time

It is important for us to hear everyone's ideas and opinions

There are no right or wrong answers to questions

It is important for us to hear all sides of an issue – the positive and the negative

Turn cell phones off

Confidentiality is assured

Any questions?

Consent

Key concept 1: Data collection (FGD)

During data collection

Carefully record data, field notes, documents, tape recordings

Write out detailed notes immediately after data collection

Transcribe tapes systematically

Describe and document data collection process as rigorously as possible

Reflection activity



Key concept 2: Data analysis

1. Detailed description of techniques and methods used to select respondents and generate data
2. Carefully specified analysis, with attention to issues of validity and reliability
3. Triangulation

Key Concept 2: Data analysis

Qualitative data analysis steps

Transcribing / Translating verbatim

Coding

Annotating (Comments)

Key concept 2: Data analysis

Analysis of qualitative data

Manual data analysis

Software-assisted data analysis:

Atlas-ti

Nvivo

MaxQDA

Etc.

Key concept 2: Data analysis

Analysis of textual material

The basic process for the analysis of text includes:

Identification of similar phrases, themes and relationships between themes

Identification of similarities and differences between population sub-groups

Initial attempts to generalize

Critical review and revision

Key concept 2: Data analysis

Thematic analysis

There are four stages in theme analysis:

Identify main issues raised by the interviewees – the themes

Group more detailed topics within each of these themes to construct a taxonomy of sub-categories

Specify what was actually said, the components within each sub-category

Exploration of inter-relationships between the various themes

Key concept 2: Data analysis

Thematic analysis

Theme identification

Index texts, identifying topics line-by-line

Collate these topics across all interviews to identify a preliminary list

Some will recur more frequently than others and some of the latter can be classified as sub-topics

Systematically combine related topics to develop a list of just a few fairly broad themes

Key concept 2 : Data analysis

potential themes from a study exploring experiences at antenatal care

Themes

Sub-categories

Motivators

WHY ATTEND ANTENATAL CARE?

Health check [*Fear of risks, positive reassurance*]
Health promotion
Material gain [*food, milk*]
Insurance [*sterilization, good birth*]

Medical process

WHAT HAPPENS AT ANTENATAL CARE?

| | |
|----------------------|----------------|
| Take information | Vaccinate |
| Give information | Refer |
| Physical Examination | Send for tests |
| Sterilization | |

Positive
Negative

[EVALUATIONS]

DIMENSIONS OF USERS EVALUATIONS

Organization
Interpersonal behaviour
Technical practice
Information

Key concept 2: Data analysis

Coding schemes

Following an initial analysis, many analysts apply a systematic coding procedure

Codes are assigned to specific occurrences of words or phrases within a document

Key concept 2: Data analysis

Developing a code book

Codebook Version: 7 December 2010

| Name | Description |
|--|---|
| 01. Illness Narrative Interview (INI) | THIS CODE USED FOR INI ONLY to capture information specific to the most recent malaria or fever. Code information about quality of care, drug supply, etc. into the appropriate tree nodes for Drug shop (DS), Health Facilities (HF), Prayer Groups (PG), Self-Treatment (ST), or Traditional Healers (TH) |
| INI 1st symptom | THIS CODE IS USED FOR INI ONLY to document symptoms of first symptoms of the most recent episode of malaria or fever |
| INI 1st tx source-DS | THIS CODE IS USED FOR INI ONLY to capture the respondent's 1st choice of treatment for their recent fever episode when it was a drug shop like a pharmacy, chemical seller and drug peddlers. |
| INI 1st tx source-HF | THIS CODE IS USED FOR INI ONLY to capture the respondent's 1st choice of treatment for their recent fever episode when the person sought for care at a HF such as a mission, private, public health facilities |

Key concept 2: Summary extract from manual analysis

| | Focus group discussion | | | |
|-----------------|--|--|--|--|
| | Village A Women | Village A men | Village B women | Village B men |
| MALSIGN | <p>Hot body</p> <p>Yellow eyes</p> <p>White lips</p> | <p>Bloody stool</p> <p>Hot body</p> <p>Yellow eyes</p> | <p>Hot body</p> <p>White lips</p> <p>Yellow eyes</p> <p>Bloody stool</p> | <p>Hot body</p> <p>Yellow eyes</p> <p>White lips</p> |
| MALCAUSE | <p>Mosquitoes</p> <p>Fresh mangoes</p> | <p>Mosquitoes</p> <p>Standing in the heat</p> <p>Fresh mangoes</p> | <p>Mosquitoes</p> <p>Standing in the heat</p> | <p>Fresh mangoes</p> <p>Mosquitoes</p> |

Key concept 2: Data analysis

Extract from software (Nvivo)

Affordability

[<Documents\Female FGDs\FGD With Female Group 21>](#) - § 4 references coded [2.72% Coverage]

Reference 1 - 1.20% Coverage

R14-You know, you are usually asked to swallow the two together, so if people are complaining, it is about the two medicines. Some time ago, the artesunate alone was given to people but now they have added amodiaquine to it for people to swallow. So the complain is about the two.

Reference 2 - 0.47% Coverage

M-How much is the medicine?

R14-We have registered with National Health Insurance Scheme so I will not know.

Key concept 2: Data analysis

Summary

Objectives

Transcribe

Use information from all the techniques

Incorporate all notes and observations

Code

Sub-themes

Matrix

Key concept 2: Data analysis

Summary

Triangulation

Various topics/themes based on objectives of study

Add quotes, proverbs, local sayings

Key concept 3 : Presentation of data

Prose/text

Community recognition of drug side-effects

Generally, there was poor recognition of drug side-effects/adverse reactions. They were often associated with:

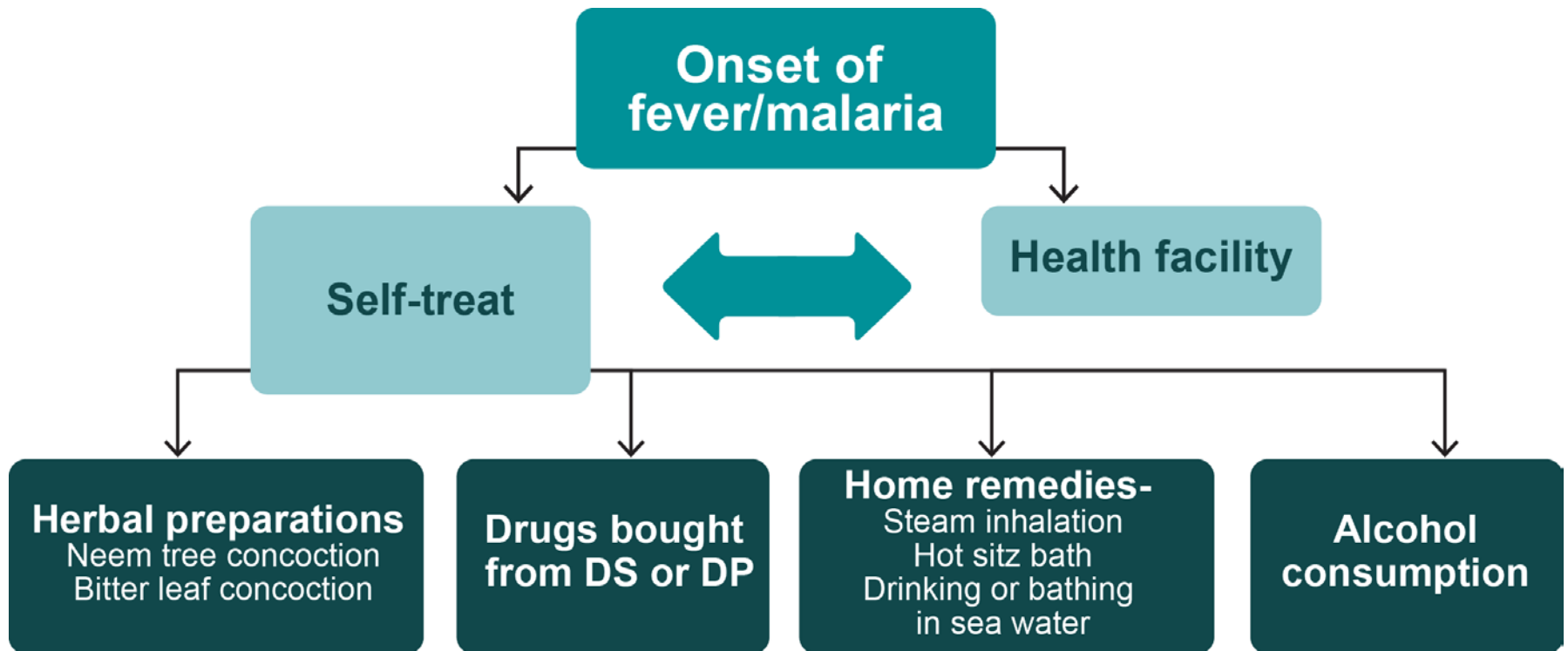
Drug not good person's blood

*“ When you immediately see that, it means that it is just not good for your blood, you must not take that drug anymore, and you must change it.”
(A 25 year old JHS graduate)*

Drug not good for person's biological make up

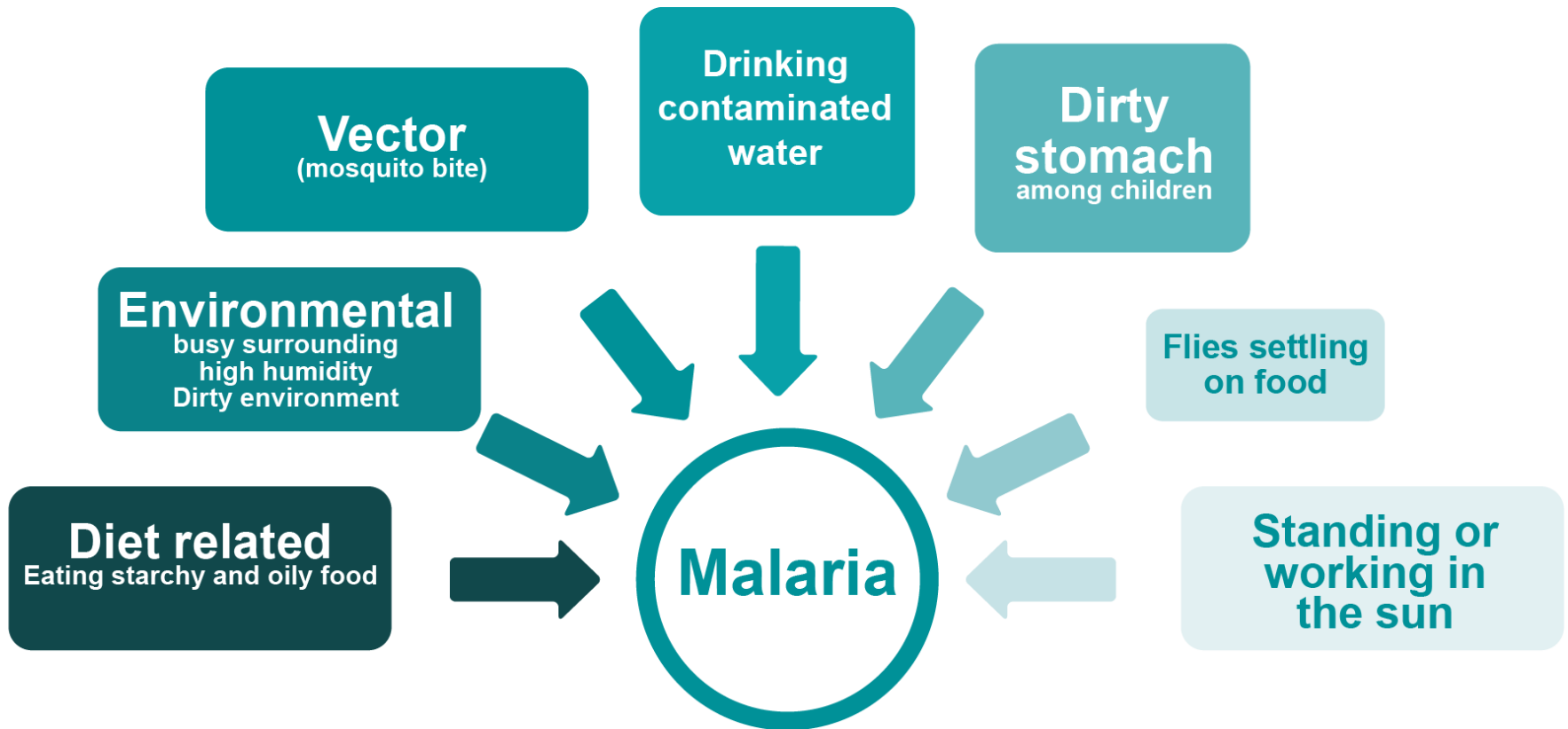
Key concept 3: Presentation of data - graphic presentation

Treatment seeking for simple malaria



Key concept 3: Presentation of data

Community perception- Causes of malaria



Reflection activity

In your research team, discuss:

How you plan to analyse your qualitative data?

How will you ensure validity and reliability of your data?

What kind of analysis will you undertake?

Will you be using any software for your data analysis?

Discuss the reasons for your decision to use (or not use) software for your analysis.

How will you present your data?

Example: Innovative Participatory Health Education [IPHE] in South Sudan

An educational initiative and solution for Improving the life of girls and women worldwide by the reproductive and child health research unit [RCRU]

<http://www.rcru.org/j/index.php/rcruprojects/img-iphe>