Introductory course Concepts and Design MEVIT4800 19 January 2008 Tanja Storsul About the introductory course • http://www.uio.no/studier/emner/hf/imk/ MEVIT4800/v09/ What is scientific method? · "Methods in the social sciences consists of the systematic and planned procedures that are specifically aimed at establishing knowledge and theories ... These methods constitute guidelines for how reliable knowledge and valid theories about society can be developed. In addition, the methods include criteria and procedures for assessing knowledge and theories...'

(Grønmo 2004:28)

Choices in the research process

- Chose and operationalize the research question.
- Chose methods for collecting data.
- Chose material (data) that can enlighten the research question.
- Chose **techniques** for analysing the data.
- · Chose how to present the results.

Østbye et al (2007):19

Example - quantitative study

- Chose and operationalize the research question.
- Does UiO-students trust NRK news more than TV2 news?
 Chose methods for collecting data.
- Chose material (data) that can enlighten the research question.
 800 students randomly selected from the student register
- Chose techniques for analysing the data.
- Chose how to present the results.

Example - qualitative study

- Chose and operationalize the research question.
 What influences UiO-students' trust in NRK and TV2 news?
- Chose methods for collecting data.
- Chose material (data) that can enlighten the research question.
- 15 students from different study programs are selected.
 Chose techniques for analysing the data.
 Hermeneutic analysis of interviews.

- Chose how to present the results.
 Lecture with quotations that illustrate findings.

Choices in the research process

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The reseach question

- · Issue/theme
- Question
- Hypothesis
- The research question expresses "the distance between what we know and what we want to know" (Grønmo 2004:63).

The reseach question

- Issue/theme
 - Digitalization of television and new relations of power.
- Question
 - Who are the important gatekeepers in the digital TV-landscape?
- Hypothesis
 - Established companies lose control in digital tv markets.
- The research question expresses "the distance between what we know and what we want to know" (Grønmo 2004:63).

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The research question

- Descriptive
- Explanatory
- Understanding

The research question

- · Descriptive
 - What characterizes youth's use of social networking sites?
- Explanatory
 - Why to more girls than boys use social networking sites?
- Understanding
 - How can we understand youth's use of social networking sites in relation to other social arenas?

Kinds of sources

- Actors
 - Participant observation
 - Structured observation
- Respondents
 - Semi/unstructured interviews
 - Structured questionnaires
- Texts
 - Qualitative content analysis
 - Quantitative content analysis

Grønmo 2004:125

Basic concepts

- · Units of analysis
 - Objects of investigation (can be persons, actions, meanings).
- Variables
 - · Characteristics of the units.
- · Values (categories)
 - · Variations in the characteristics.

What is what?

"Youth use the Internet for democratic participation to a larger degree than older people."

Operationalisation

- · Theoretical definition

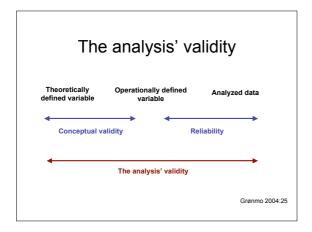
 - States relations to concepts that has more precise meaning.

 Ex: democratic participation are citizens' expressions directly to local of national politicians.
- Operational definiton

 - States which operations must be conducted in order to assess if an empirical phenomenon is covered by the concept.
 Ex:survey asking citizens if they have used the Internet (needs operationalization) to communicate (needs operationalization) to politicians (needs operationalization)
 Questions in the survey needs to be made explicit.
- Operationalization
 - The process from theoretical to operational definition.

The quality of a study

- Reliability
 - Accuracy in the investigation (collection, processing and analysis of data).
- Validity
 - Data's relevans for the research question. Are we investigating what we claim to be investigating?
- Conceptual validity (definisjonsmessig validitet)
 - Compliance between theoretical and operational definition.
 - Is democratic participation operationalized in a sensible way?



Universe and sample

- · Universe (population)
 - All units that the research question concerns.
- Sample (utvalg)
 - The units investigated.
- · Statistical generalization
 - Concluding from sample to universe.

Kinds of samles

- · Population studies
 - All units in universe.
- Pragmatic samples
- Best judgement.Probability samples
 - All units have a known chance larger than zero to be included in the sample.
- · Strategic samples
 - Sampling from theoretical considerations.



Statistical generalization

- Generalization requires probability sampling:
 Simple random sampling (enkelt tilfeldig utvalg)
 - Systematic sampling
 - Stratified sampling
 - Cluster sampling (klyngeutvalg)

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NYHETSBREV KALENDER SHOWROOM	Tror ikke på tv-en
MARKEDSRETT	Hver tredje britiske tv-seer steler ikke på det tv-kanslene forteller dem. Tillitskrisen kommer etter flere avsleringer om tv-juks.

Theoretical generalization



- Strategic sampling

 - Quota samplingConvenience sampling (slump)
 - Self-sampling
 - Snowballing

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