

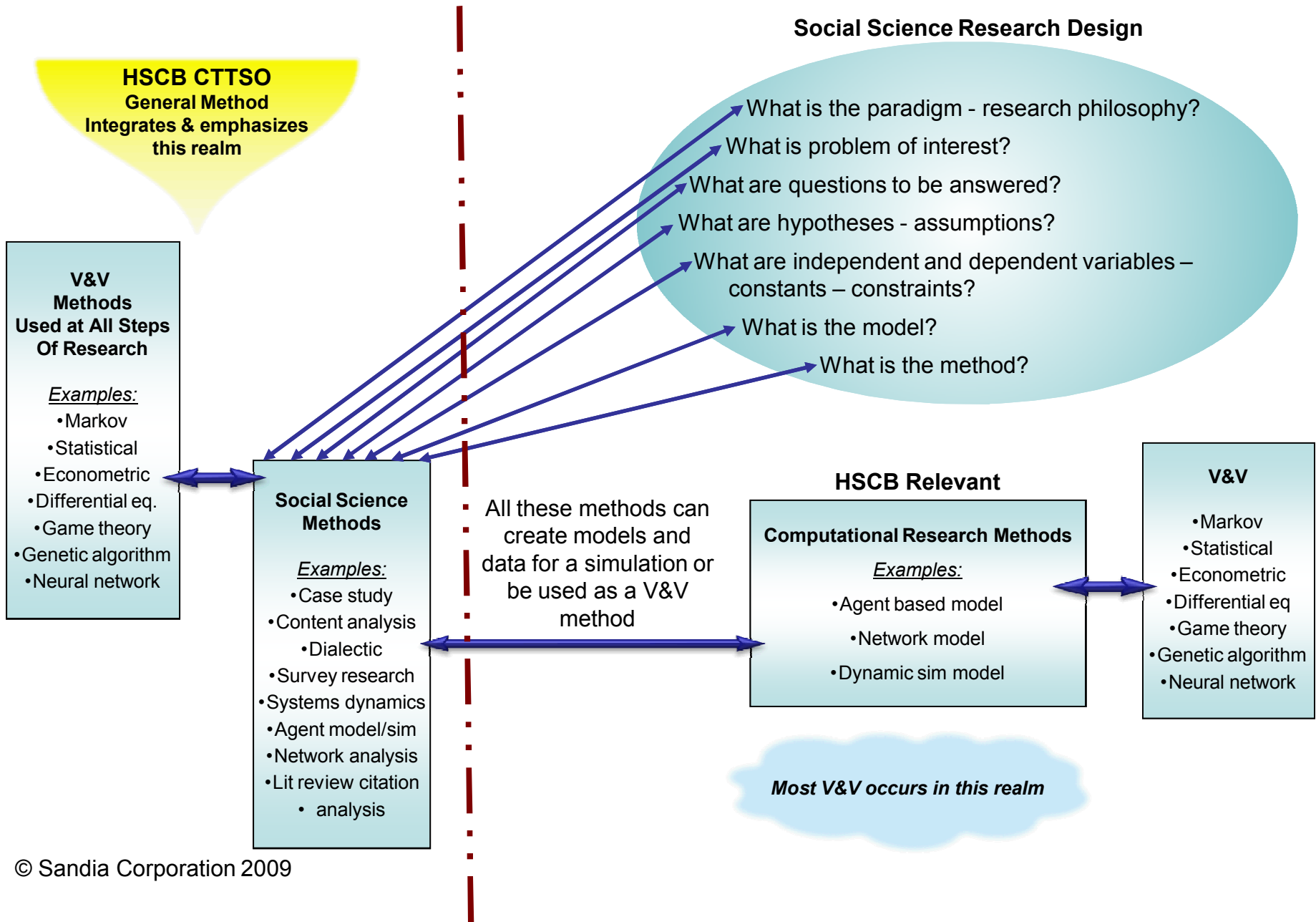
HSCB Methodology Project : Social Science Methods

Sandia National Laboratories
Briefing for Alan Sears, HSCB Program Manager
May 28, 2009
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Social Science Team Problem Definition

- To articulate a general methodology through a set of detailed questions that the HSCB Program can use to judge their level of confidence in HSCB models

HSCB Methodology – First Glimpse



Progress to Date

Social Science Team

- Developed a bibliography of 32 references for social science methods
- Begun the formalization of a general methodology through a set of 93 detailed questions that elicit embedded research design and methods
- Created an outline to guide and to focus the work
- Developed an initial list of social science method

Social Science Team Next Steps: June and July 2009

- Rework and reduce the set of 93 questions
- Formalize and write down the methodology embedded in the HSCB graphic
 - Identify issues
 - Identify misconceptions-multi-method methods
 - Identify varying perspective for the sponsor-three hats

Create a taxonomy of disciplines needs bullet

Social Science Methods: Preliminary List

- Ethnomethodology
- Ethnography
- Case study
- Experiment
- Quasi-experiment
- Demographic analysis
- Quantification of History
- Methods for simulating complexity: multi-agent systems
- Rhetorical analysis
- Content analysis
- Survey
- Q-sort Methodology
- Discourse Analysis
- Feminist methods
- Focus Groups
- Interviews
- Cognitive Task Analysis
- Mixed methods experimentation

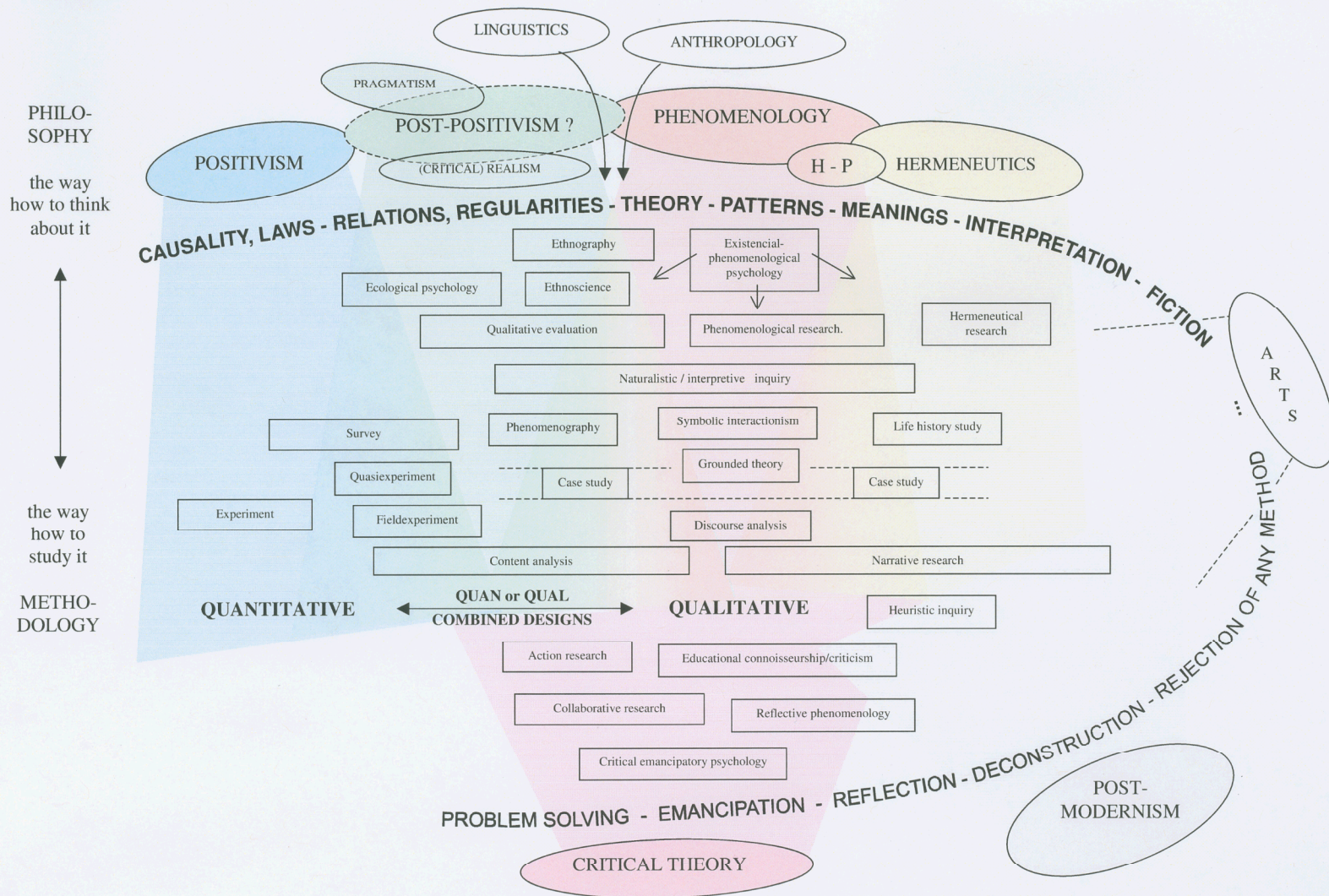


Figure 2. Relationship between philosophy and methodology in social science and educational research (adapted from Niglas 2001a and 2001b)