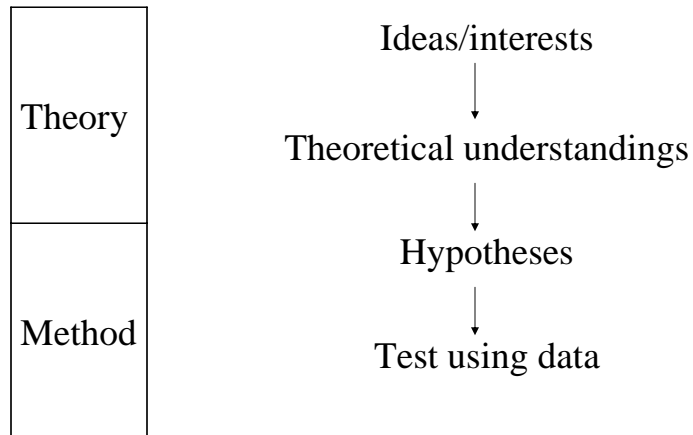


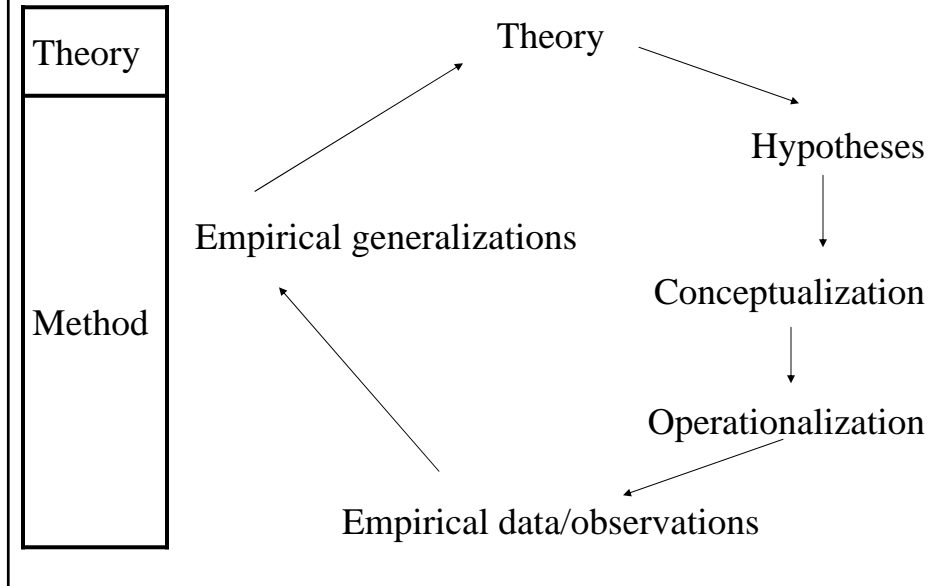
## Traditional Model of Science



## Traditional model of science: Definitions

- **Theory:** proposition to explain social regularity
- **Hypothesis:** expectation derived from theory
- **Method:** translate into testable hypotheses
- **Deduction:** using theory to derive hypotheses
- **Problems?**
- **Induction:** reformulating theory

## How Science Really Works



## How Science Really Works: Definitions

- **Theory:** proposition or set of propositions
- **Hypothesis:** formal statement (express direction)
- **Conceptualization:** how to measure
- **Operationalization:** exact measurement
- **Empirical data collection/Data analysis**
- **Empirical generalization**
- **Reformulating theory:** feedback

## Empirical example

