Shifts in Professors' Pedagogical Knowledge, Attitudes, and Practice During a Cross-national Faculty Development Program

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Outline

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Motivation
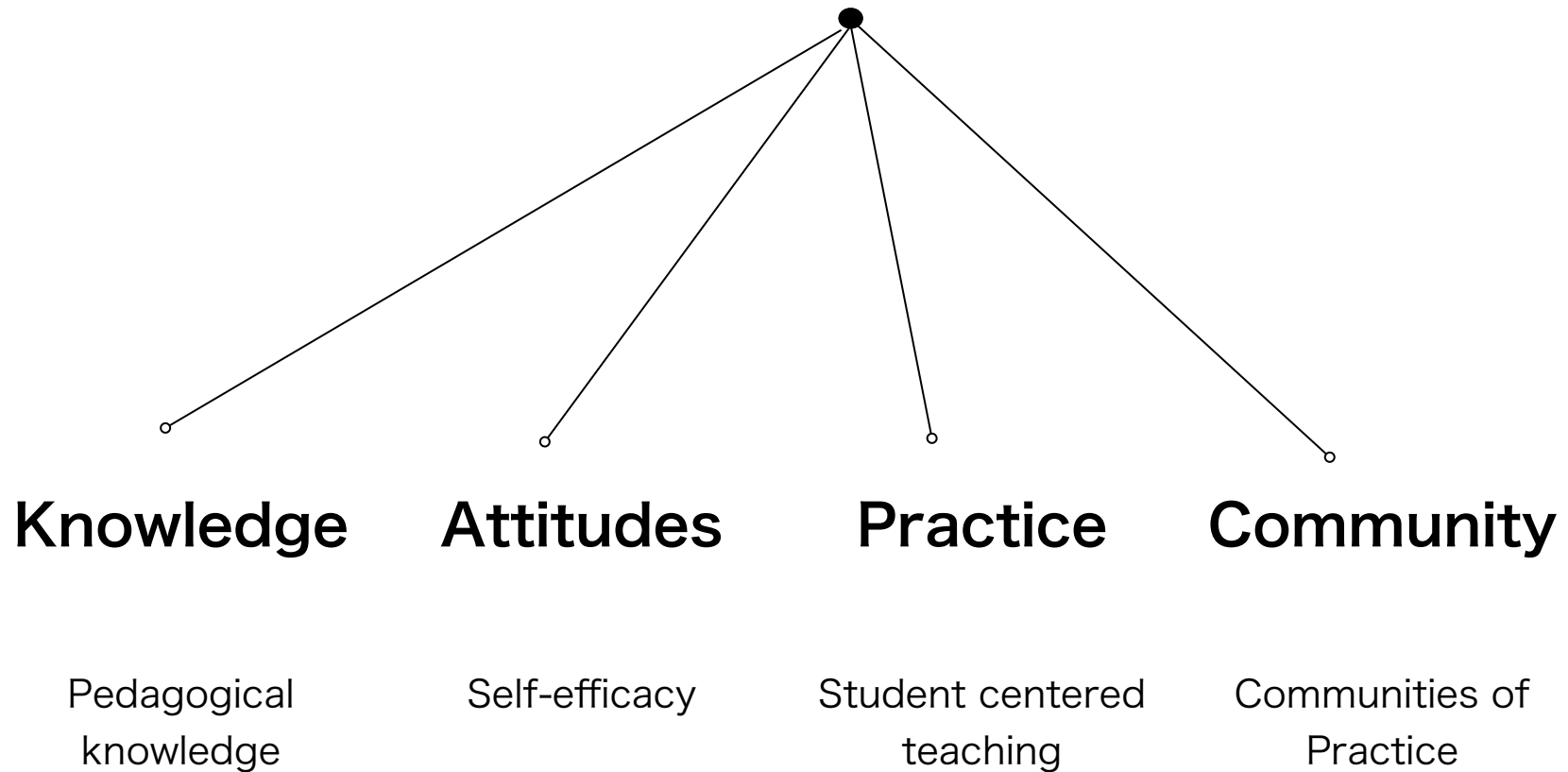
Motivation

Motivation

- What kind of **shifts** in knowledge, attitude, practice, and community engagement were observed among participants in a year long faculty development program?

- How can those shifts be quantified and qualified?

- Which areas resulted in the largest and smallest amount of **shift** among knowledge, attitudinal, practical, or community engagement dimensions?
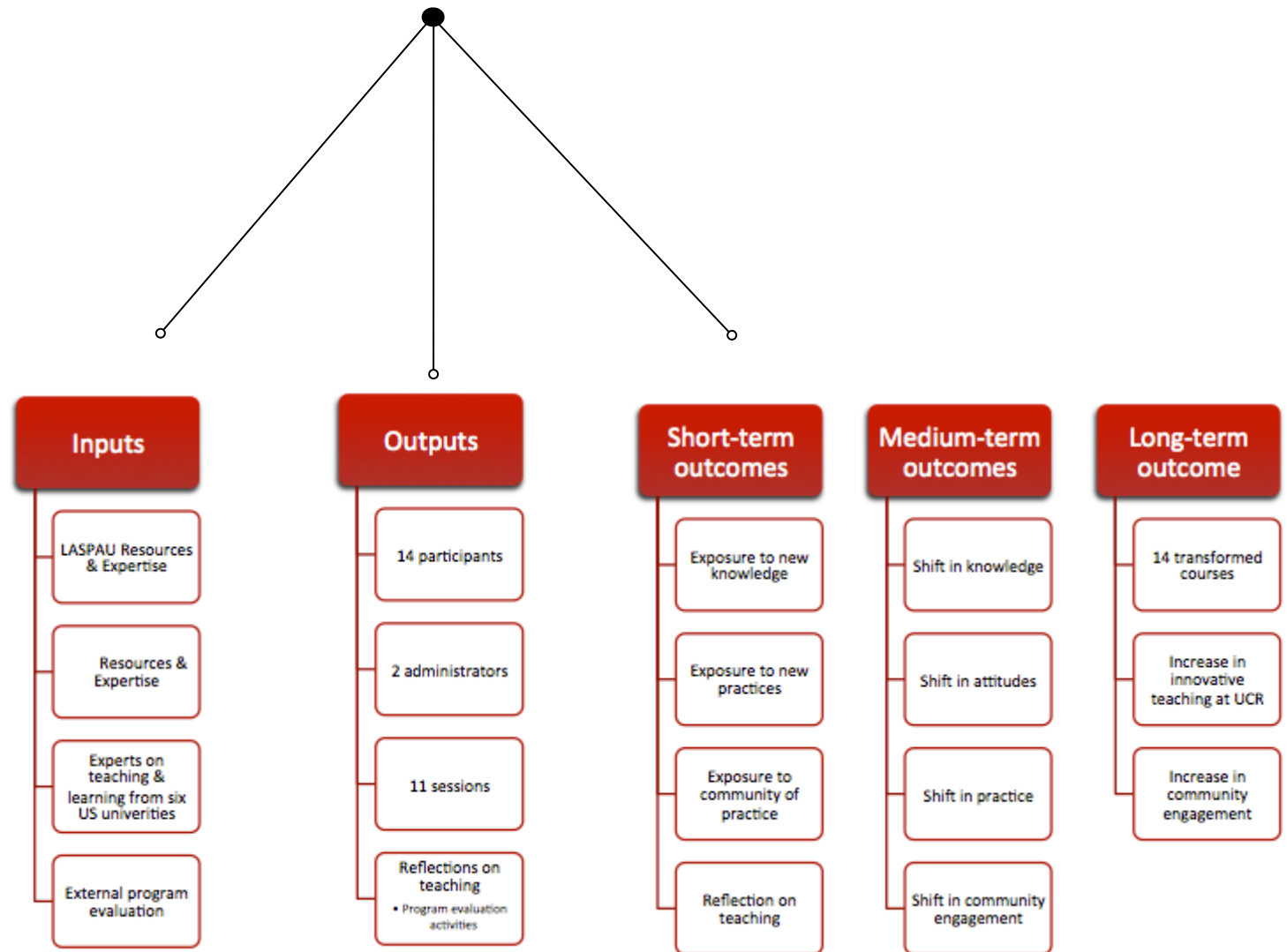
Research Questions

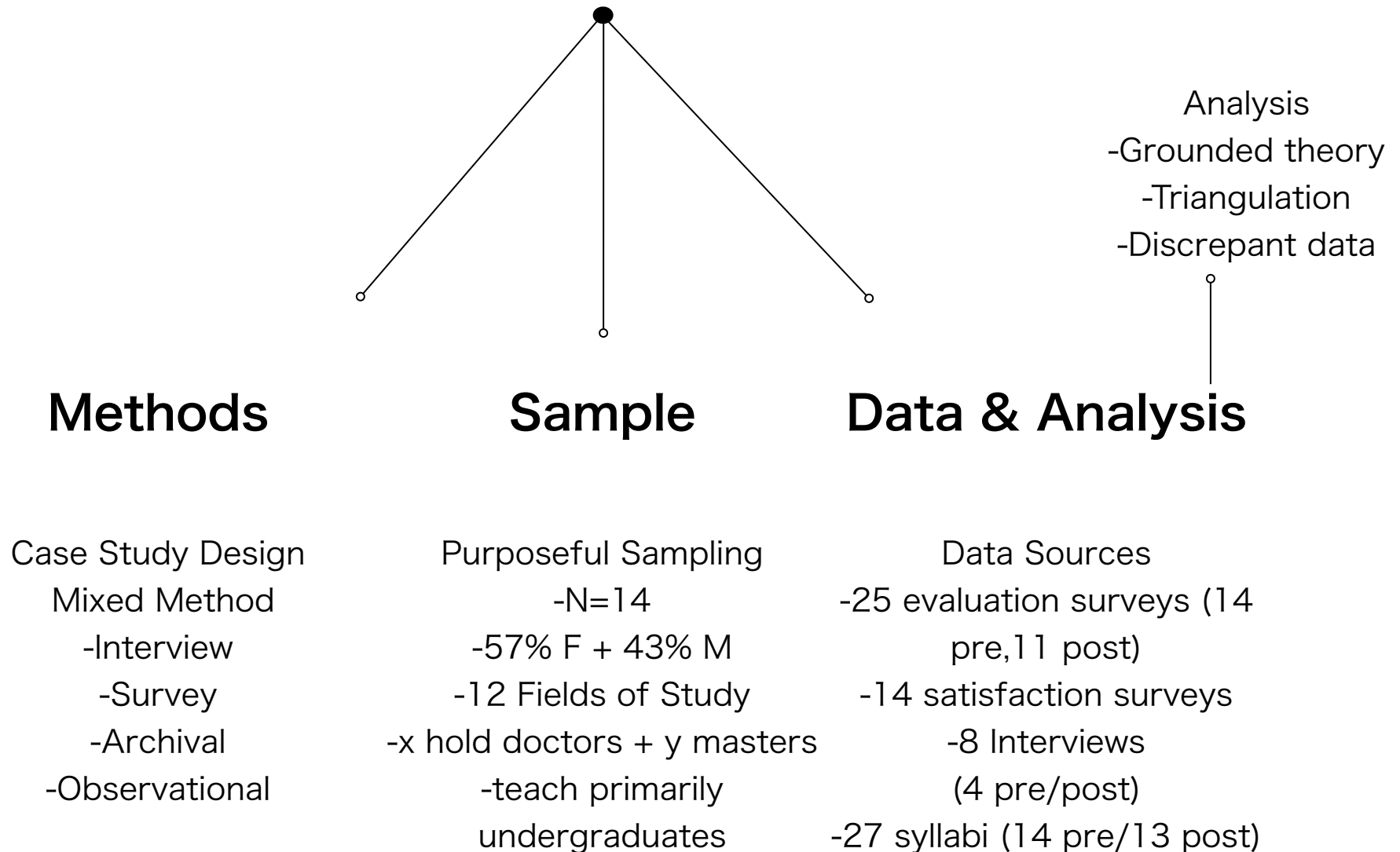**Unit of Analysis=Pedagogical Shift**

Theoretical Framework

Knowledge — Pedagogical knowledge

Attitudes — Self-efficacy

Practice — Student centered teaching

Community — Communities of Practice

Program Design

Research Design

Analysis
-Grounded theory
-Triangulation
-Discrepant data

Methods

Sample

Data & Analysis

Case Study Design
Mixed Method
-Interview
-Survey
-Archival
-Observational

Purposeful Sampling
-N=14
-57% F + 43% M
-12 Fields of Study
-x hold doctors + y masters
-teach primarily
undergraduates

Data Sources
-25 evaluation surveys (14
pre,11 post)
-14 satisfaction surveys
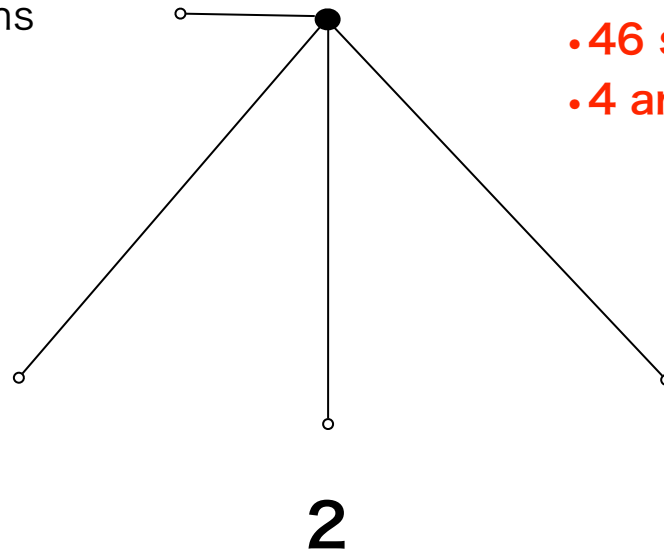-8 Interviews
(4 pre/post)
-27 syllabi (14 pre/13 post)

Results

Research Questions

- 148 data trends
- 46 supported my multiple sources
- 4 areas of data trend discrepancy

1

We observed a positive pedagogical shift in knowledge, attitude, practice, and community engagement

2

We observed quantifiable positive shifts application of knowledge about student centered teaching (SCT); confidence in using SCT; actual use of SCT; and public sharing of SCT resources

3

The strongest trends we observed were in attitudinal and practice shifts.*

*possibly related to instrumentation

Discussion

1) How can we begin to measure student learning outcomes?

2) Given geography, how can we begin to include classroom observational data to strengthen the validity of our results?

3) How can we effectively navigate cultural norms about data collection?

4) Are there additional non-self reported data sources we are missing?

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