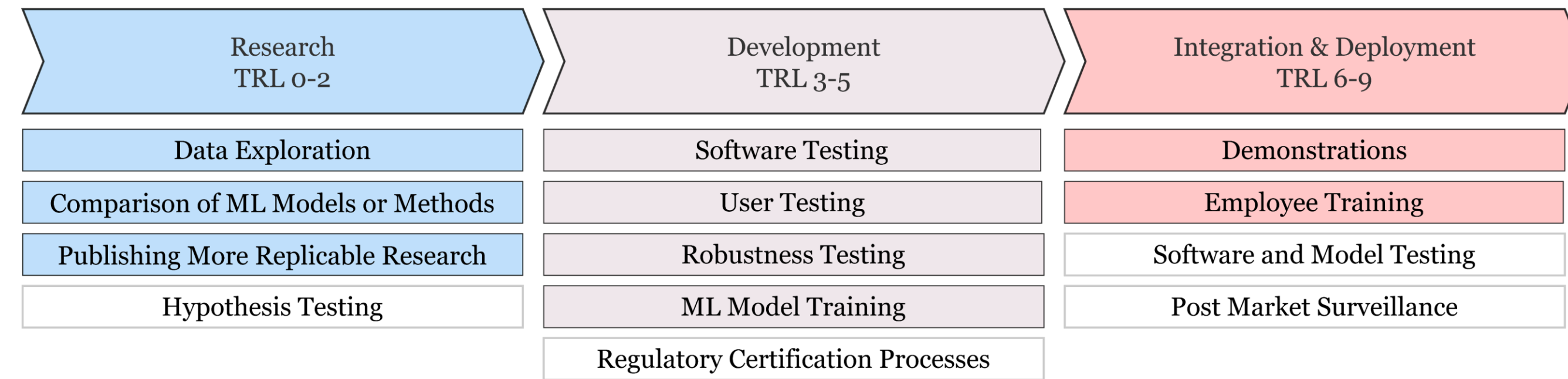


How to benefit from synthetic data (SD) with your healthcare organization in 4 steps:

1. Determine what value you want to extract.
2. Discuss the perceived value with essential stakeholders.
3. Discuss potential barriers, acceptable risks, and specific requirements with essential stakeholders.
4. Check feasibility; if viable, proceed with adoption.

The Utility of SD

RQ: How can SD be utilized throughout different stages of ML-based healthcare innovation?



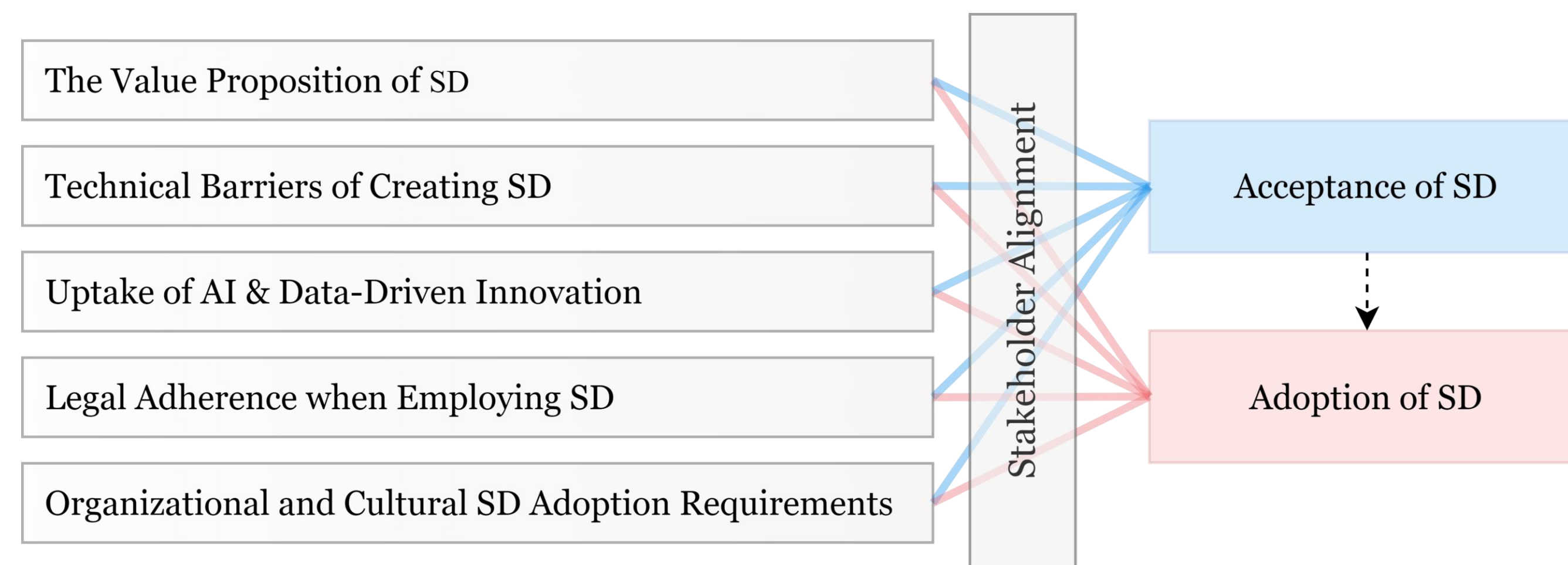
The framework elaborates on when and where SD can benefit ML-based healthcare innovation, showing different uses per stage of healthcare innovation.

Method

- 1 Literature Analysis & Conceptual Framework Development
- 2 24 Semi-Structured Expert Interviews
- 3 Directed Content Analysis & Framework Refinement
- 4 Follow-up survey & Framework Finalization

The Uptake of SD

RQ: How can SD be accepted and adopted into ML-based healthcare innovation in a human-centered way?



The framework presents six factors which influence both the acceptance and adoption of synthetic data (SD).

Method

- 1 24 Semi-Structured Expert Interviews
- 2 Thematic Analysis, constructing 6 themes
- 3 Conceptual Framework Development
- 4 Follow-up survey & Framework Finalization