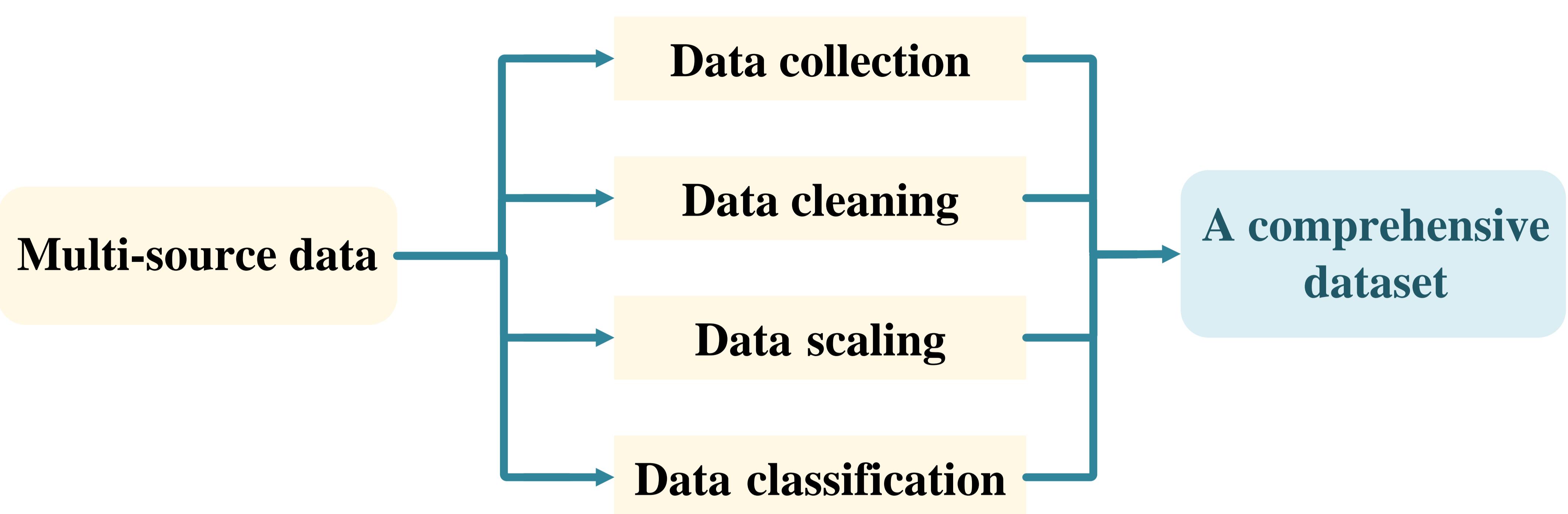


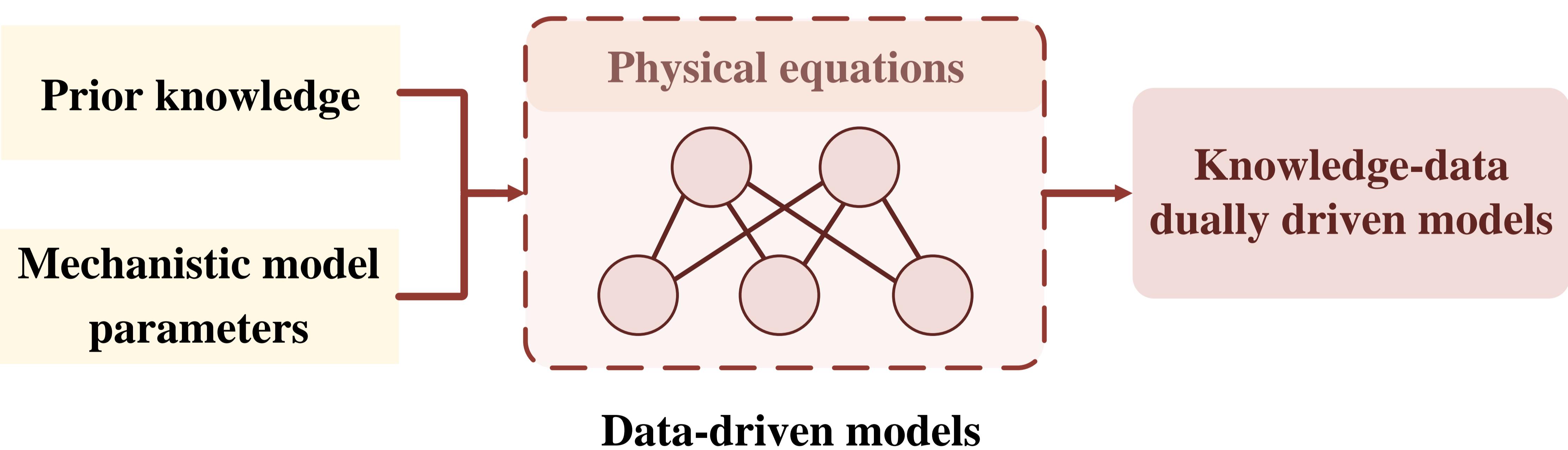
Stage 1

Multi-source data were systematically collected and integrated to establish a comprehensive dataset



Stage 2

Mechanistic constraints were embedded into the data-driven models to achieve knowledge-data dually driven models



Stage 3

A bidirectional mapping framework was developed to dynamically adjust the model fusion weights

Knowledge $\xleftrightarrow{\text{Feedback}}$ Data

A knowledge-data dually driven paradigm for potential landslide identification