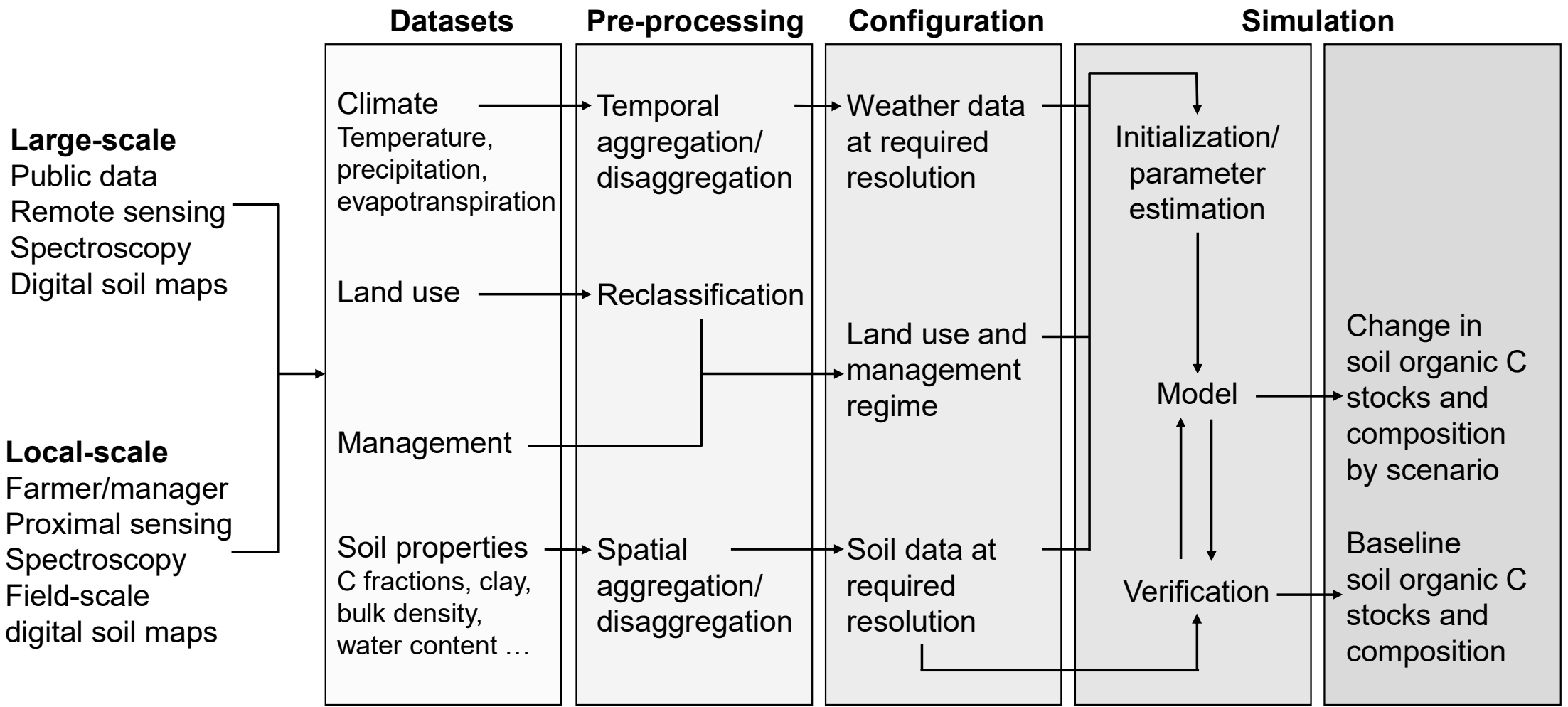
Datasets
Pre-processing
Configuration
Simulation
Large-scale
Public data
Remote sensing
Spectroscopy
Digital soil maps
Local-scale
Farmer/manager
Proximal sensing
Spectroscopy
Field-scale
digital soil maps
Climate
Temperature, precipitation, evapotranspiration
Land use
Management
Soil properties
C fractions, clay, bulk density, water content …
Temporal aggregation/ disaggregation
Reclassification
Spatial aggregation/ disaggregation
Weather data at required resolution
Land use and management regime
Soil data at required resolution
Initialization/ parameter estimation
Model
Verification
Change in soil organic C stocks and composition by scenario
Baseline soil organic C stocks and composition