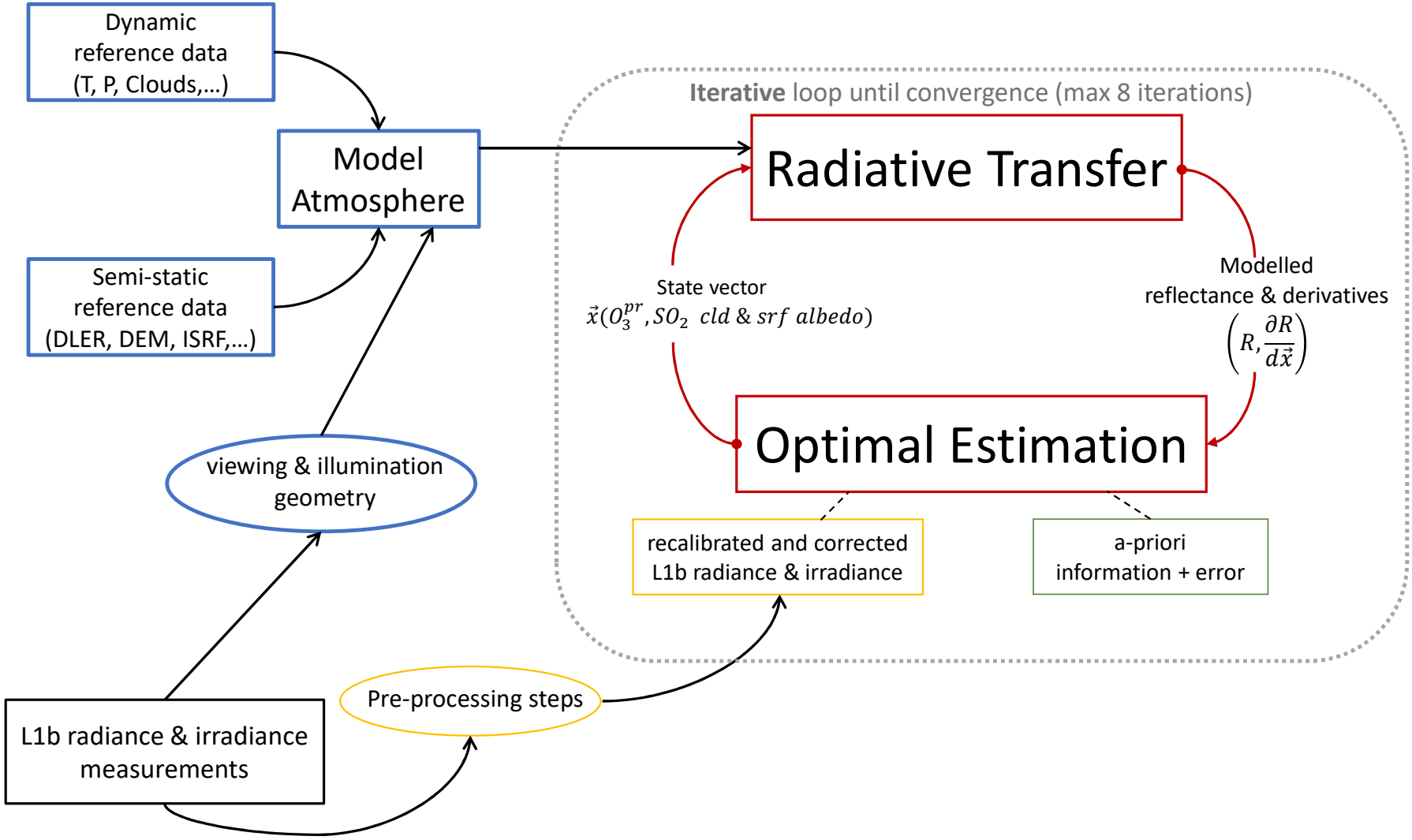
Dynamic reference data (T, P, Clouds,...)
Model Atmosphere
Semi-static reference data (DLER, DEM, ISRF,...)
viewing & illumination geometry
L1b radiance & irradiance measurements
Pre-processing steps
Iterative loop until convergence (max 8 iterations)
Radiative Transfer
State vector
$\vec{x}(O_3^{pr}, SO_2\ \ cld\ \&\ srf\ albedo)$
Modelled reflectance & derivatives
$\left(R, \frac{\partial R}{d\vec{x}}\right)$
Optimal Estimation
recalibrated and corrected L1b radiance & irradiance
a-priori information + error