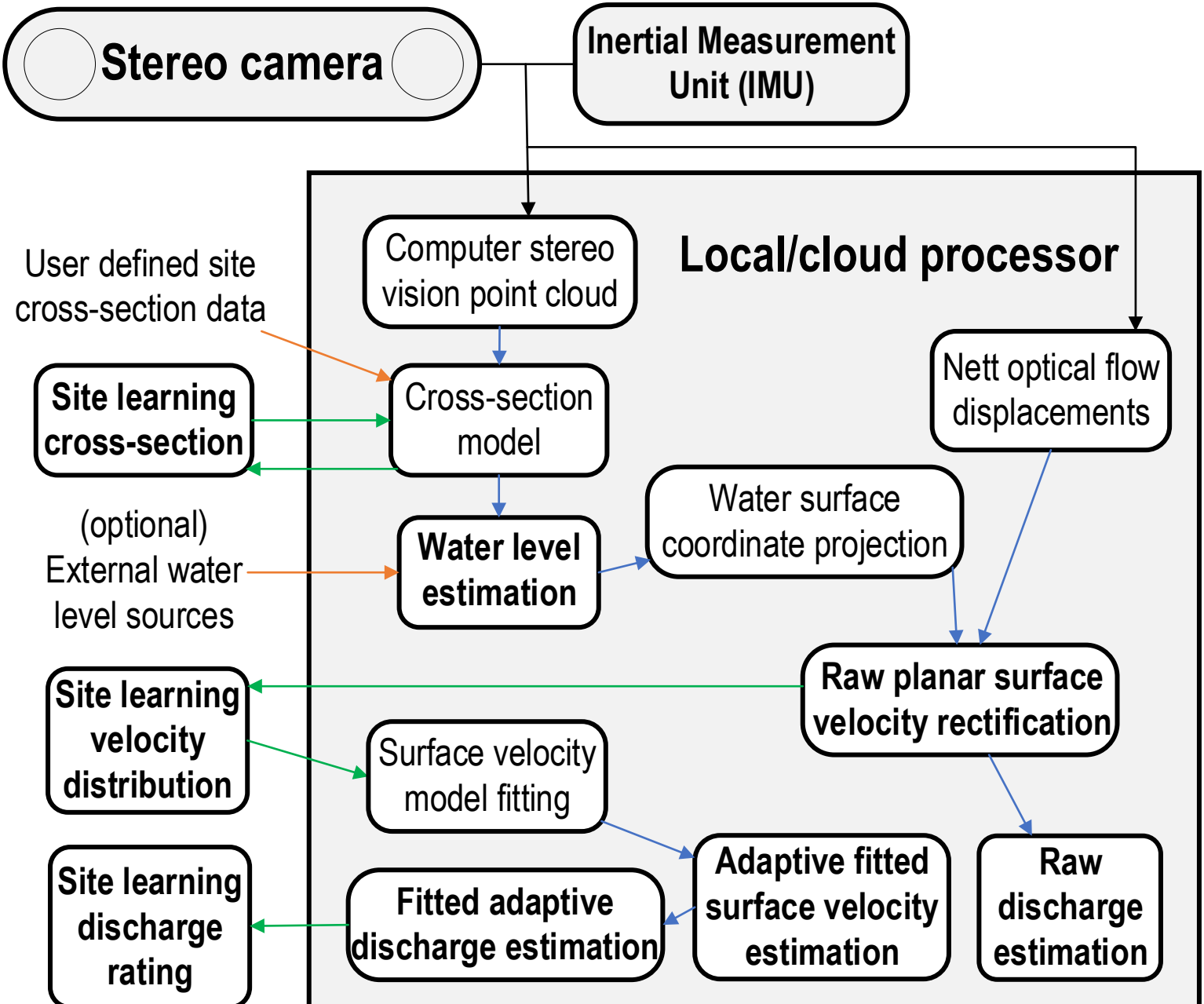
Stereo camera
Inertial Measurement Unit (IMU)
Local/cloud processor
User defined site cross-section data
Computer stereo vision point cloud
Site learning cross-section
Cross-section model
Nett optical flow displacements
(optional) External water level sources
Water level estimation
Water surface coordinate projection
Site learning velocity distribution
Raw planar surface velocity rectification
Surface velocity model fitting
Site learning discharge rating
Fitted adaptive discharge estimation
Adaptive fitted surface velocity estimation
Raw discharge estimation