

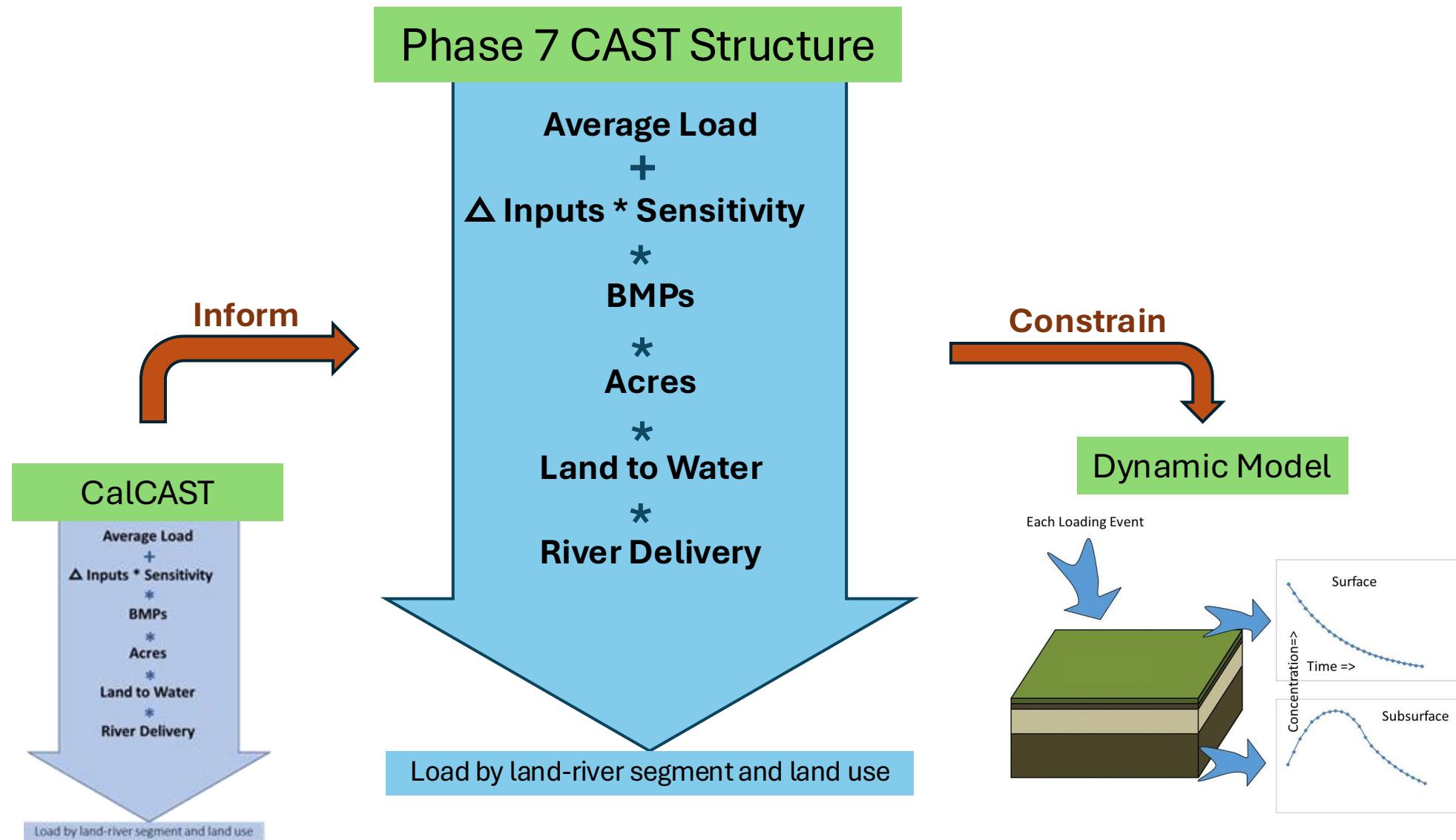
Phase 7 Watershed Model Overview and Progress

Modeling Workgroup Quarterly Meeting – July 2025

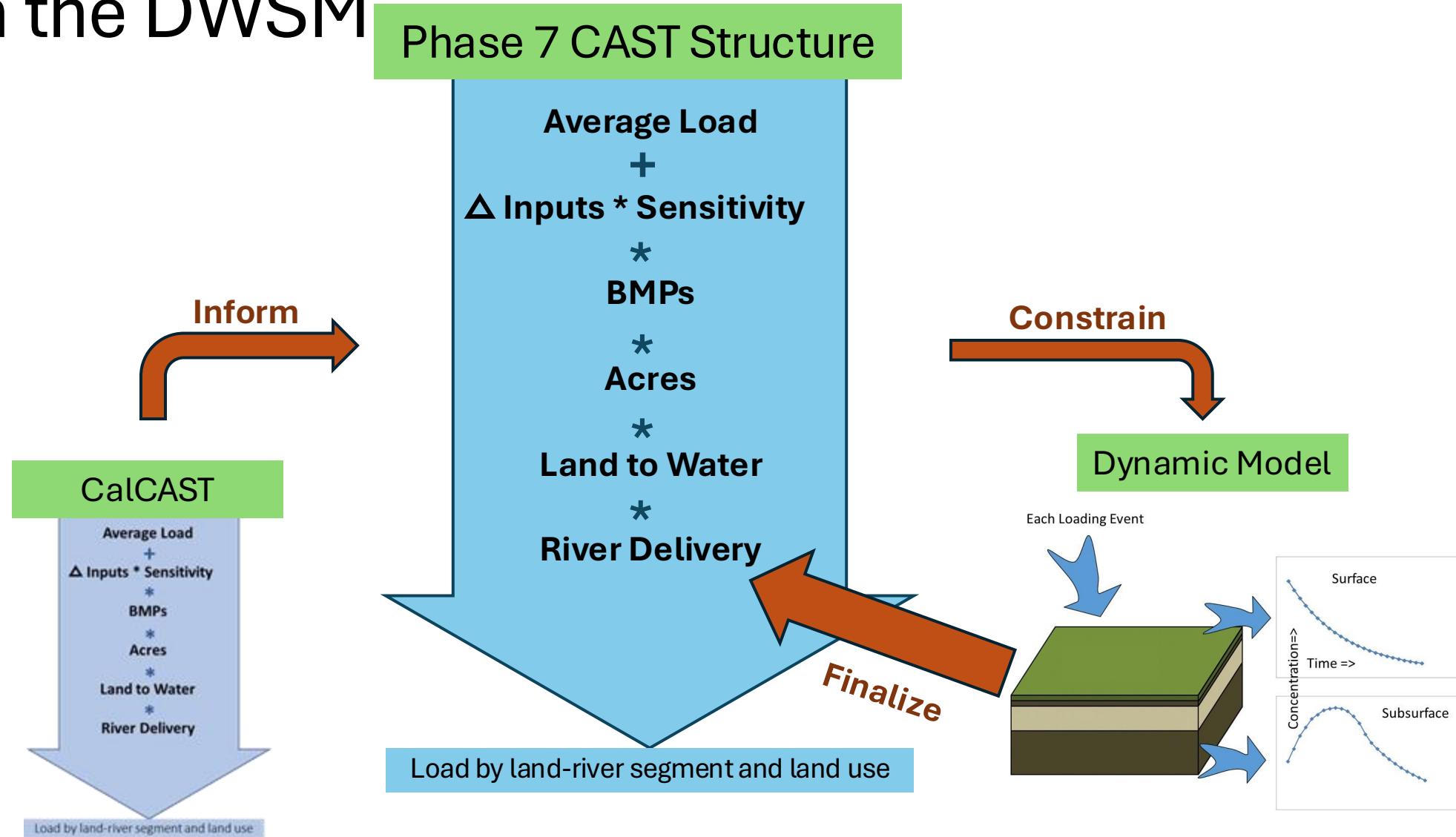
CBPO Modeling Team

1. DWSM refinements
2. DWSM calibration
3. Sensitivities
4. Atmospheric N-Inputs

CalCast informs CAST; CAST constrains the DWSM



As in Phase 6, there will be a final calibration step from the DWSM

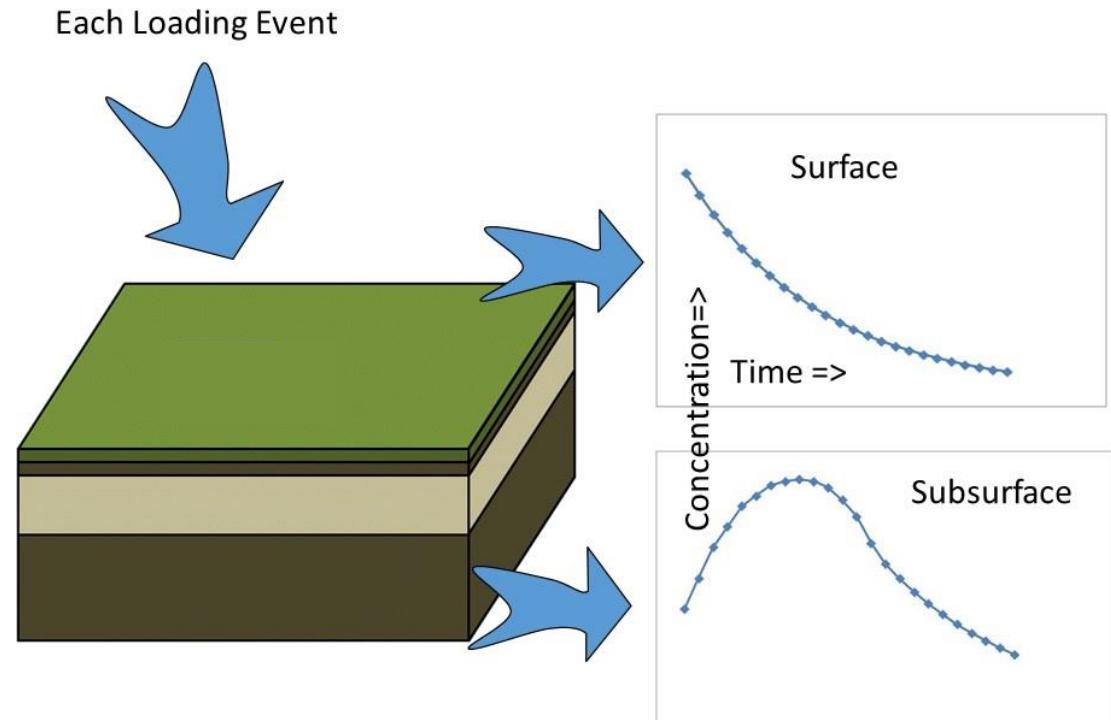


Phase 7

Dynamic Model

Tool for

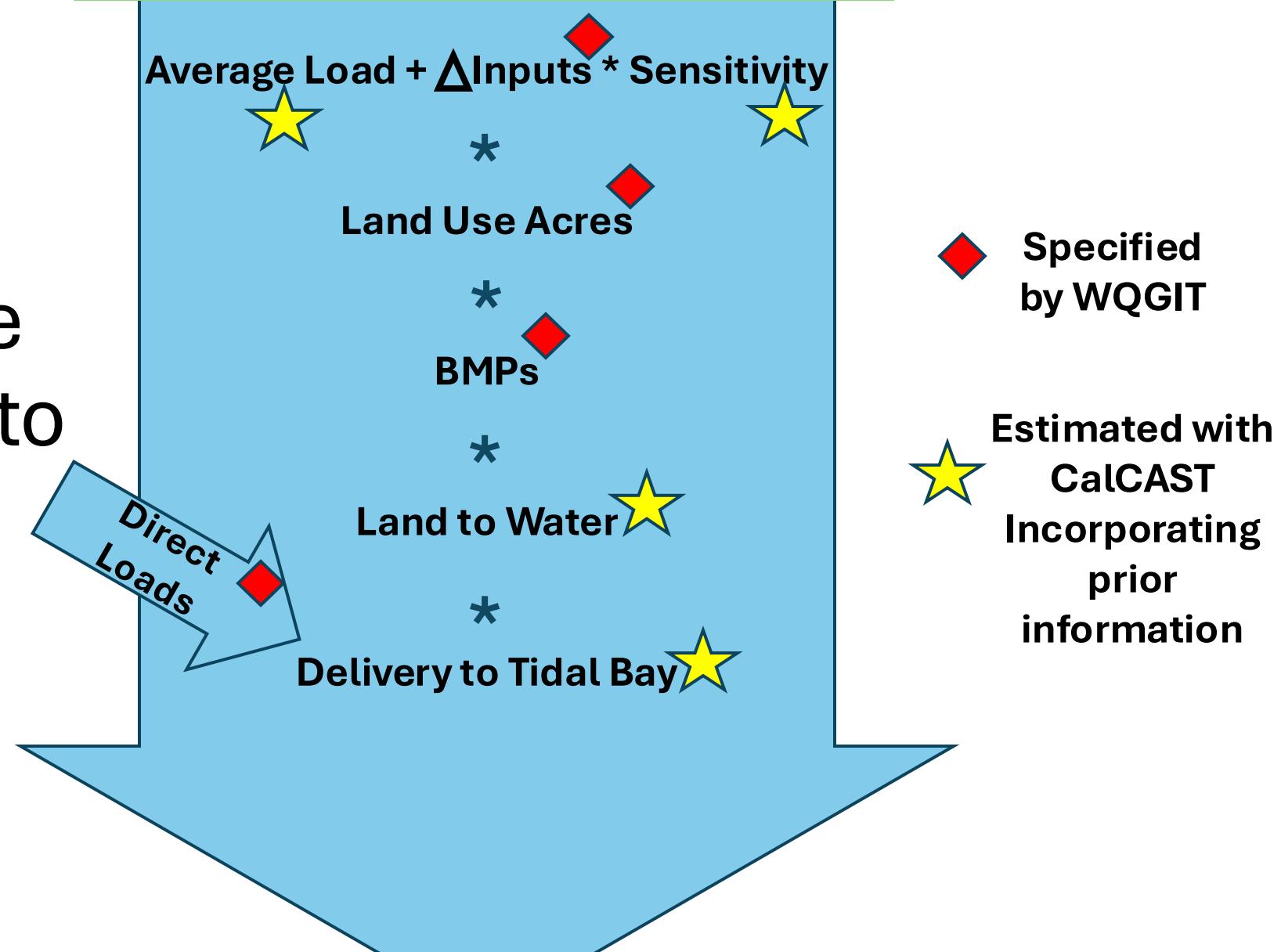
- loading estuarine models
- Comparing against observations
- Other potential collaborative projects



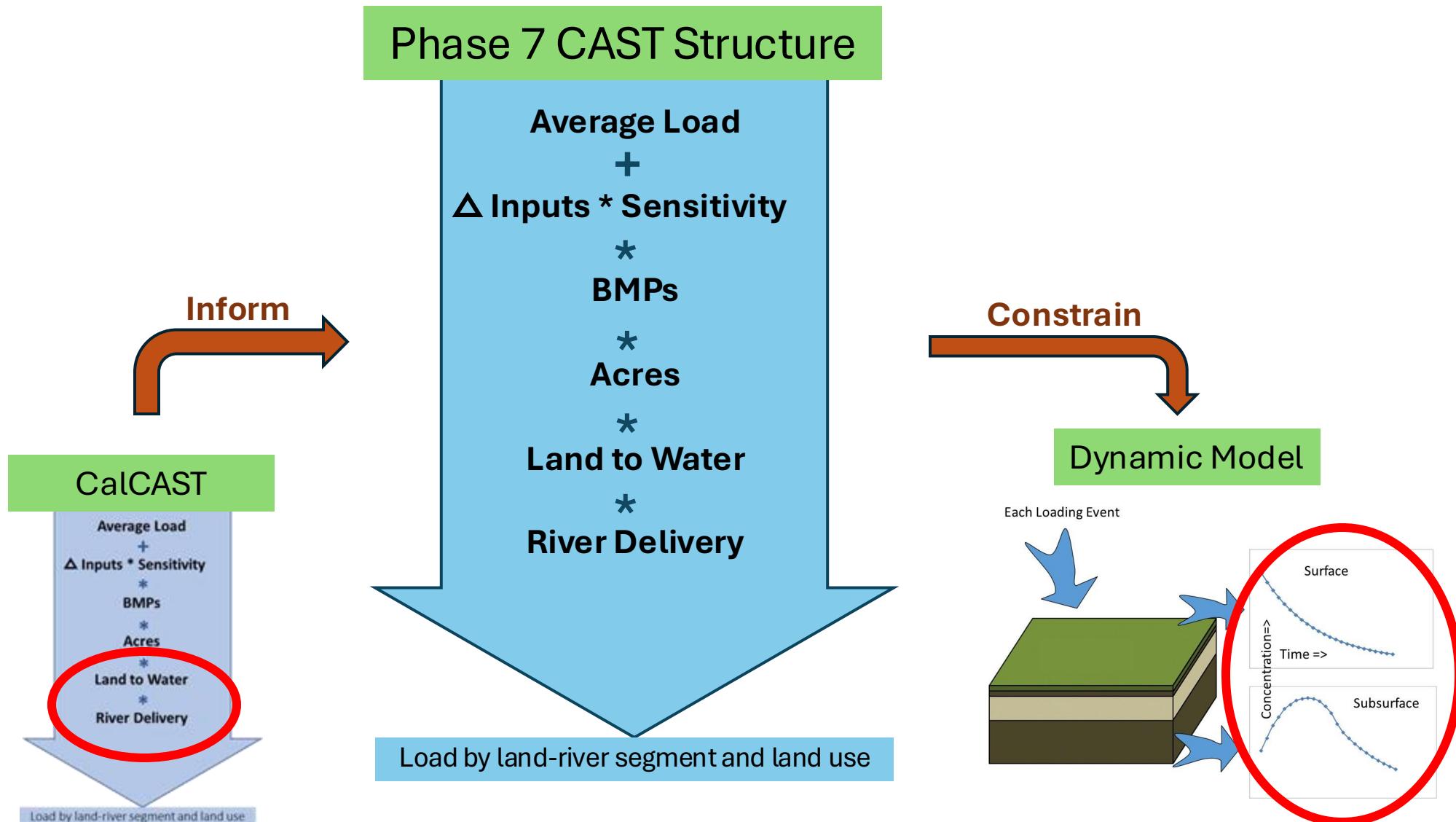
Gopal Bhatt

Phase 7 Sensitivities

A comprehensive literature review to identify best available information



Machine Learning to inform both CalCAST and DWM



Phase 7 Atmospheric N-input

Weigh all available information to develop atmospheric N-input for watershed and the Bay.

Phase 7 CAST Structure

Average Load
+
 Δ Inputs * Sensitivity
*
BMPs
*
Acres
*
Land to Water
*
River Delivery

Load by land-river segment and land use

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