

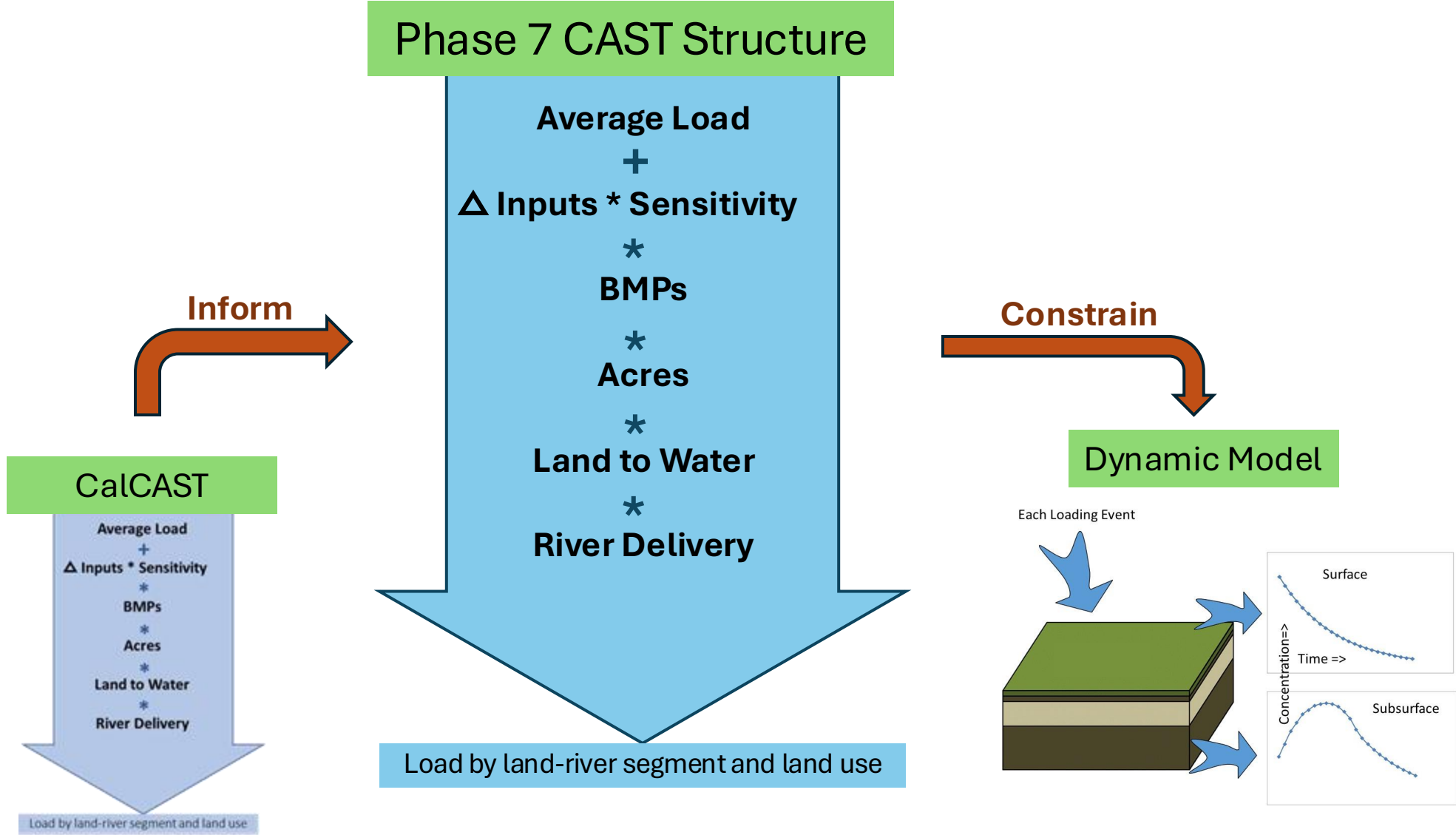
Phase 7 Watershed Model Overview and Progress

Modeling Workgroup Quarterly Meeting – July 2025

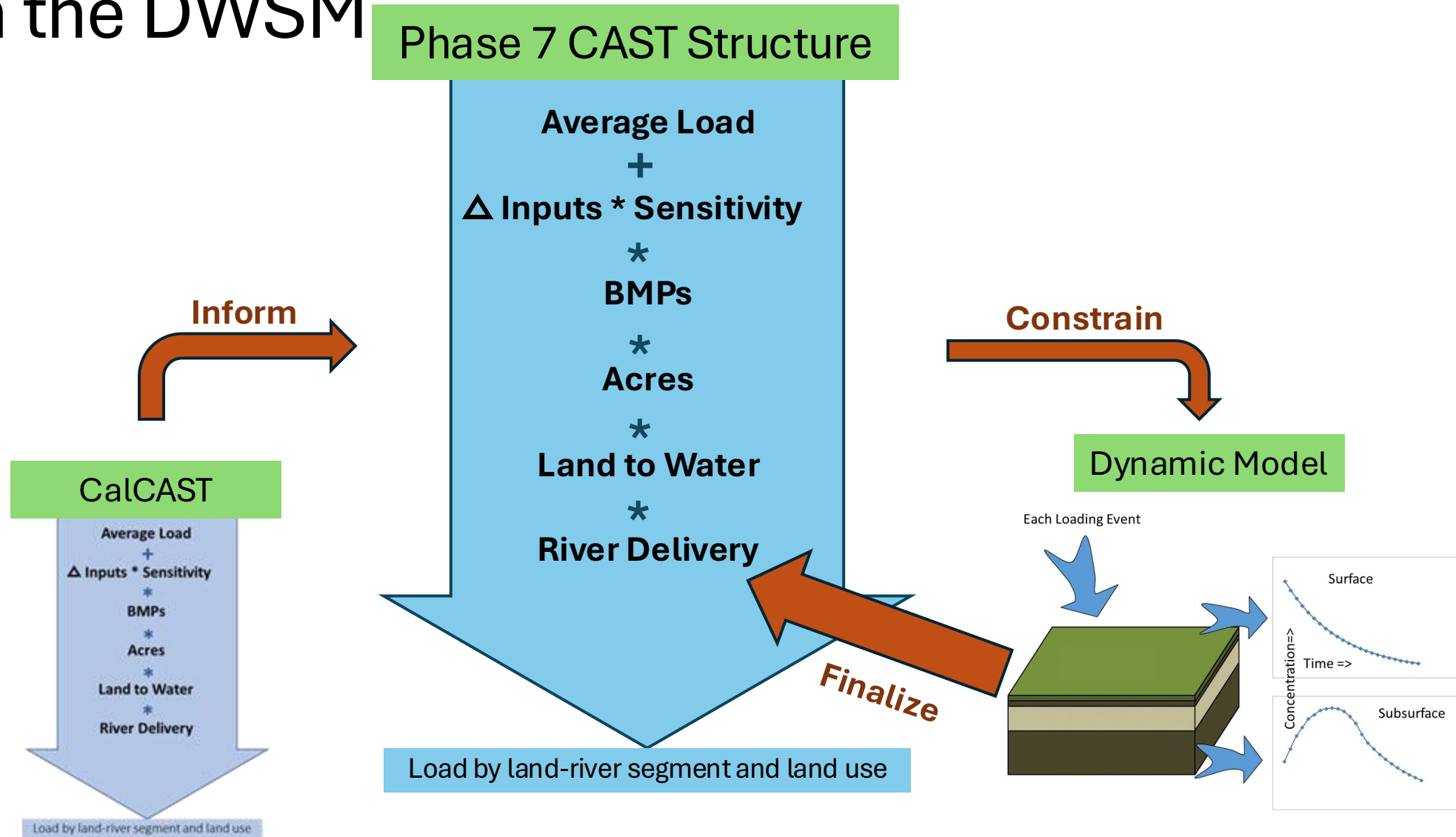
CBPO Modeling Team

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

CalCast informs CAST; CAST constrains the DWWSM



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

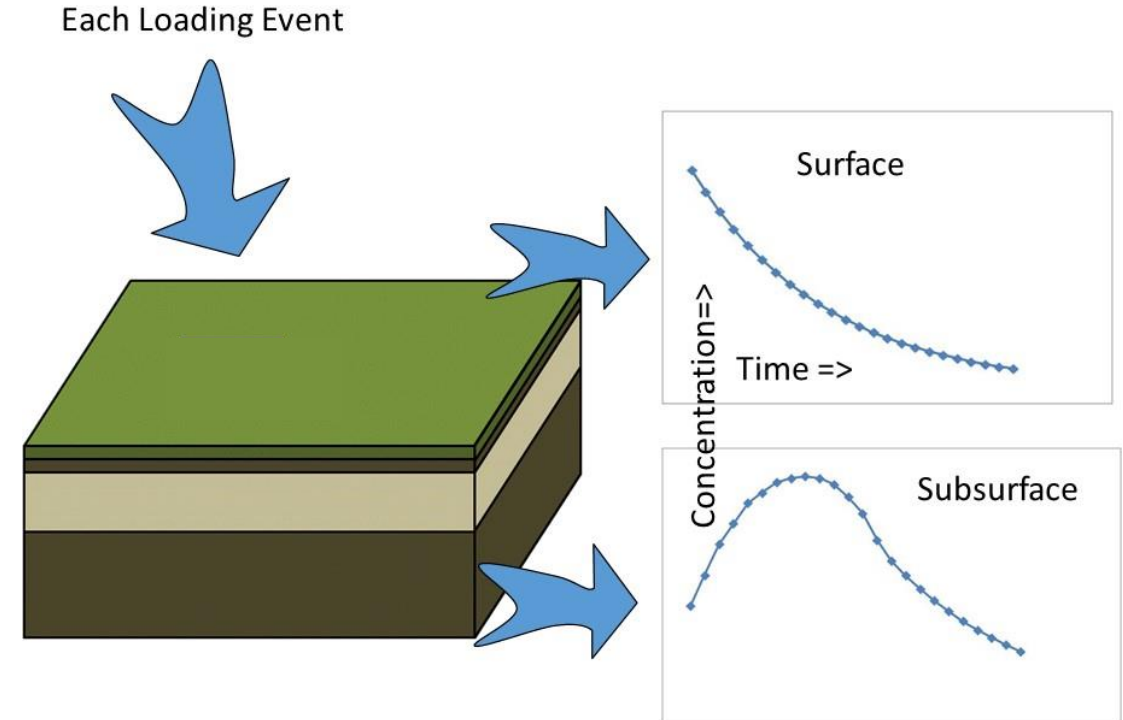


Phase 7

Dynamic Model

Tool for

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



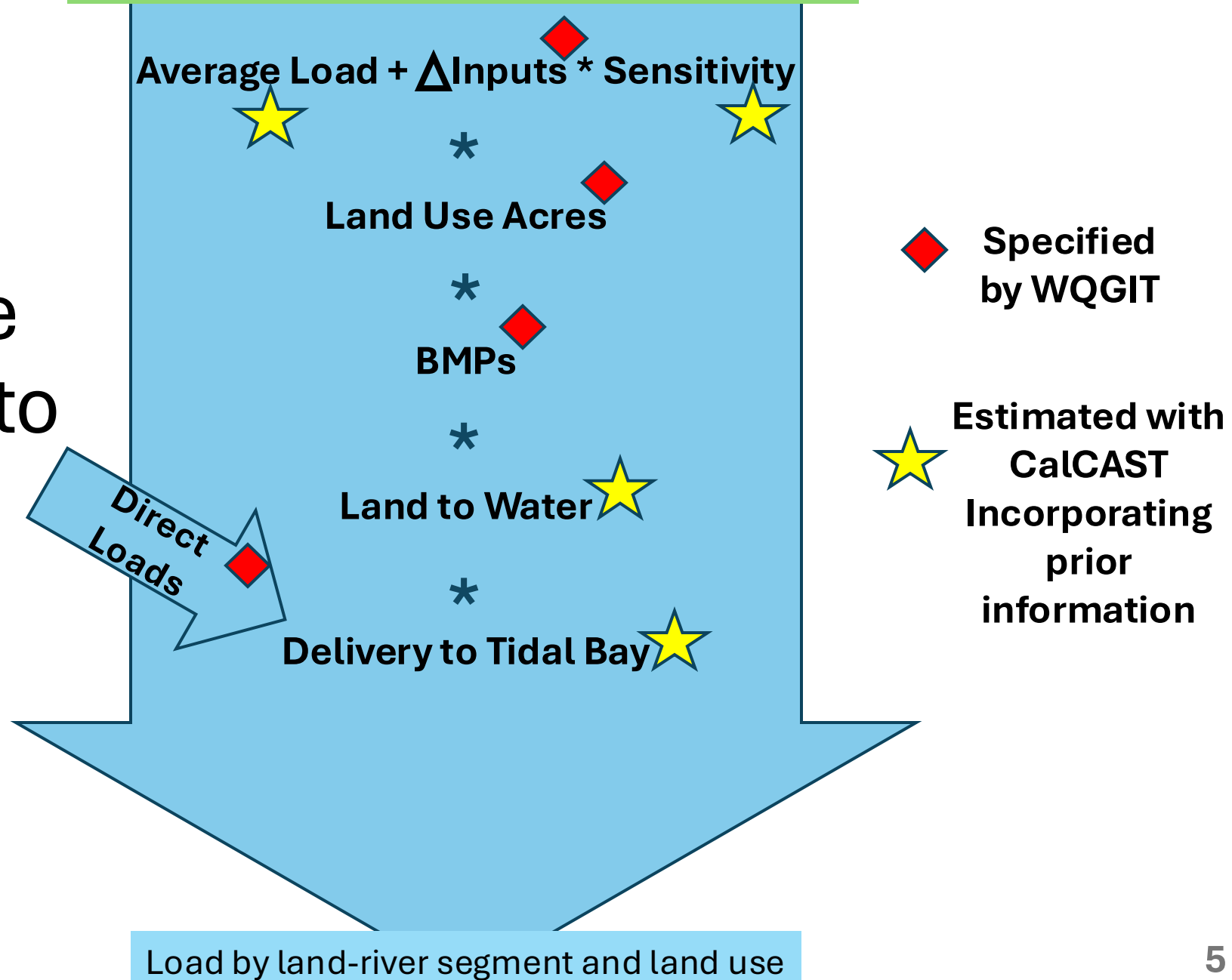
Gopal Bhatt

Phase 7 Model Structure

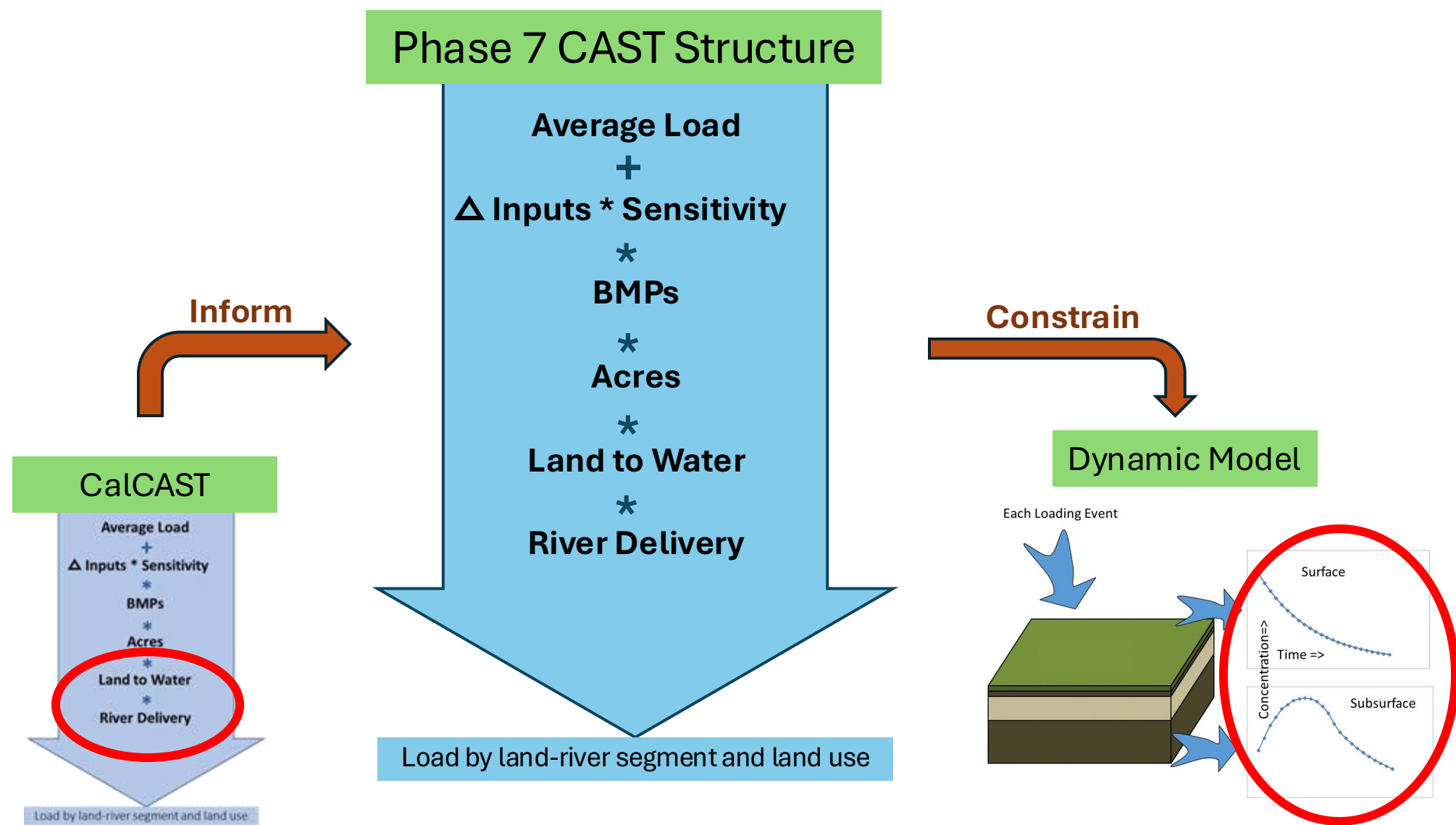
Phase 7 Sensitivities

A comprehensive literature review to identify best available information

Joseph Delesantro



Machine Learning to inform both CalCAST and DWM

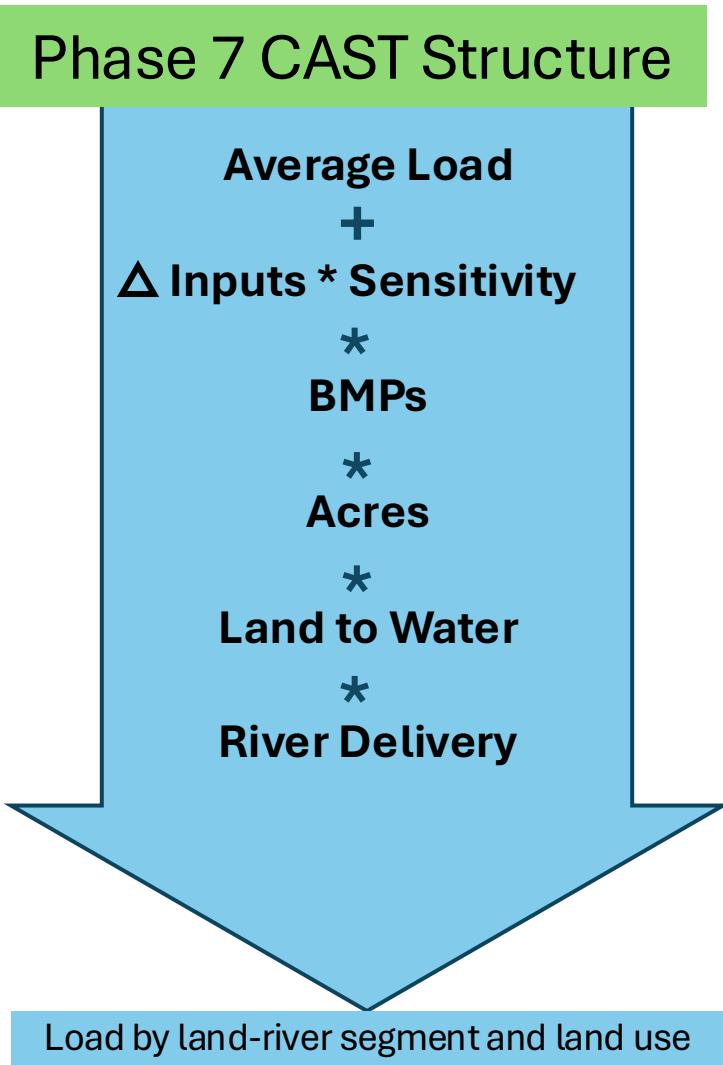
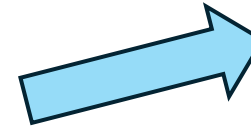


Phase 7

Atmospheric N-input

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

Gopal Bhatt



CAST model documentation; section 1

<https://cast.chesapeakebay.net/Documentation/ModelDocumentation>

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