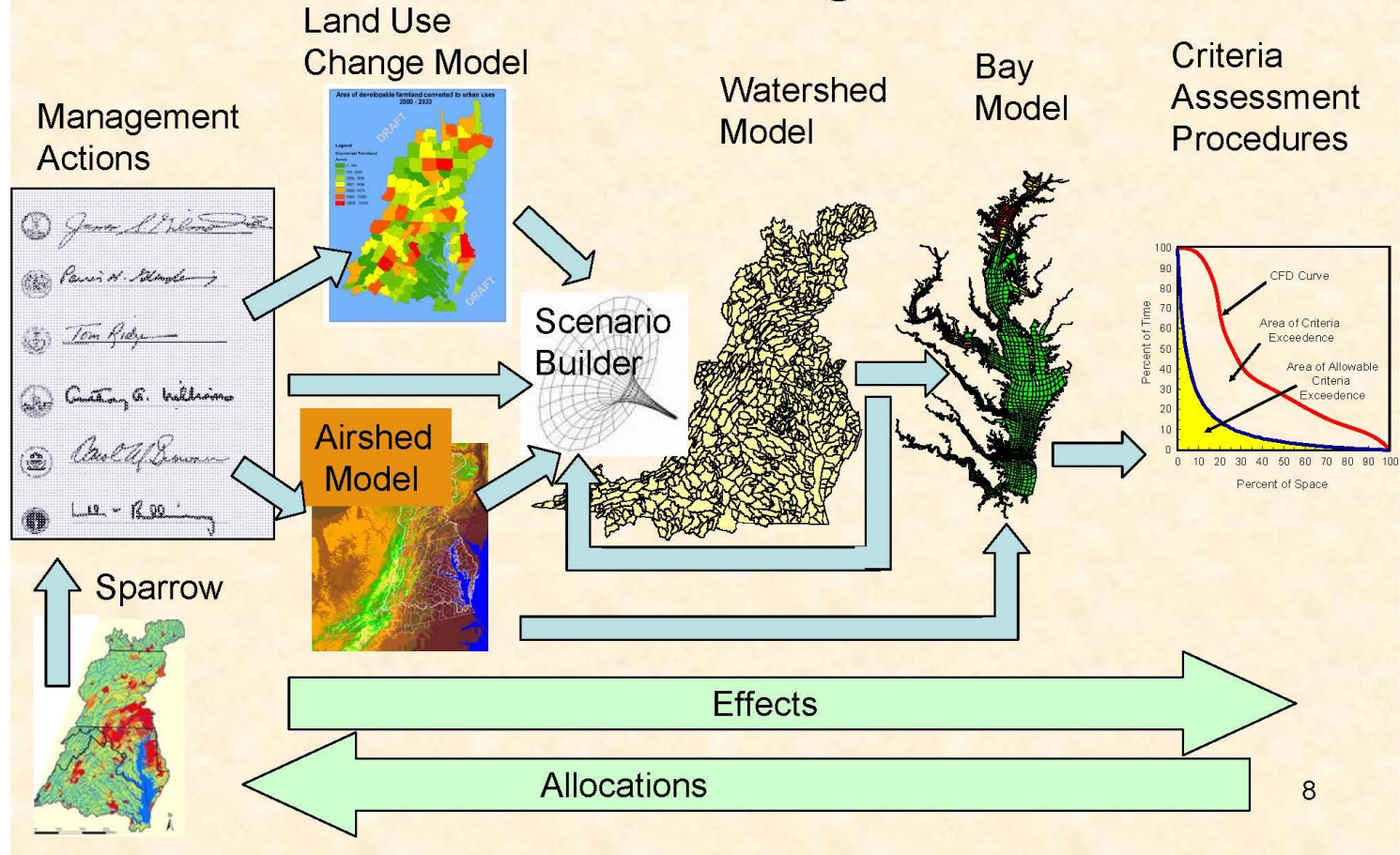


Chesapeake Bay Program Modelling Update

COG staff presentation to
Water Resources Technical Committee
March 12, 2010

Chesapeake Bay Program Modeling



COG staff analysis

- Presentation of Potomac watershed regional results from Phase 5.2 (January WRTC)
 - Added some AFL/BFL data
- Follow-up tasks include:
 - Impact of air deposition on urban stormwater loads – *preliminary estimate available, need Bay Program input*
 - Impact of animal manure on loads from agriculture
 - Individual jurisdiction analysis – *did some Fairfax work*
- Update with 5.3 data – *waiting for Bay Program to provide*

CBP Modeling Schedule

- Phase 5.3 Watershed Model not yet complete
 - Calibration complete, but still working through some issues
- Water Quality Model currently being calibrated to Phase 5.3 input
 - Use of Phase 5.3 data in various management scenarios set to begin mid-March - ?
- Land-river segment loading data to be available on community modeling web site – when ??

CBP Modeling Schedule

- March 15 Water Quality GIT call
 - Scheduled to present 5.3 calibration results and review preliminary 5.3 scenarios
- April 5-6 Water Quality GIT meeting

CBP Proposed Modeling Scenarios

Initial Phase 5.3 Scenarios Underway

- 2010 E3 Scenario (needed for allocation methodology)
- 2010 No Action Scenario (needed for allocation methodology)
- 2007 Scenario (Needed by Scenario Builder to generate other scenarios.)
- 2008 Scenario (recent benchmark for Phase 4.3 and Phase 5.3)



CBP Proposed Modeling Scenarios

Initial Phase 5.3 Scenarios Underway *(continued)*

- Tributary Strategy Scenario
- VA EPIL* (requested by Virginia)
- 1985 Scenario (highest load benchmark for Phase 4.3 and Phase 5.3)
- 2002 Scenario (benchmark for Phase 4.3 and Phase 5.3)
- 1985 E3 Scenario (requested by New York)
- 1985 No Action (requested by New York)
- 2017 VA EPIL (requested by Virginia)
- 2025 VA EPIL (requested by Virginia)

* Enhanced Program Implementation Level

