Midpoint Assessment Timeline

Jurisdiction Implementation of WIPs & Two Year Milestones Evaluation of Programmatic and Load Reduction Commitments Monitoring data assessments/factors affecting trend findings

Agreement on path forward and data inputs

- •2014
- New land use classifications and loading rates approved
- •BMP panel recommendations for Phase 6.0 inclusion
- •Agreement on Midpoint Assessment Schedule

Agreement on framing the priority issues

- •2015
- Early review of decision support tools
- James River chlorophyll assessment criteria completed
- Conowingo Dam study complete
- Review and incorporate decisions of climate change impacts
- BMP panel recommendations for Phase 6.0 inclusion

Approval of decision support tools

- •2016
- Final partnership comments on suite of tools
- Partnership input to any updates to local area target expectations
- Review and incorporate decisions of climate change impacts

Establish Phase III WIP targets

- •2017
- Phase III WIP expectations finalized
- Partnership informs final decisions on reallocation process

Evaluation of 60% by 2017 target using Phase 5.3.2 modeling tools

- •2018
- Comprehensive monitoring and trend findings through 2016

Complete Phase III find

WIPs

•2018

Support for Phase III

WIP development

using Phase 6.0

modeling tools

Draft Modeling Schedule for MPA

Dec 20, 2016 - All models are final. The partnership decision-making process begins to discuss how these new models will be used in the WIP3 process

September 2016 – Final comments on the draft Phase 6 model

Dec 20, 2015 - Phase 6 draft model is complete. Evaluation followed by fine tuning during this year

Oct 20, 2015 – All inputs are final and delivered to the WSM by the scenario builder team for the final calibration run

March 20, 2015 – All major partnership decisions are made on changes to scenario builder processing and data. Scenario builder final modifications begin.

Oct 20, 2014 – Rough Draft of major changes to nutrient processing in Scenario Builder will need to be complete. (Examples: land use types and manure application rules)

Phase 6 model development

Land Use
 LUWG

BMP Panels WQGIT

Nutrient Applications / SB Ag Modeling SC

Calibration Methodology ModWG

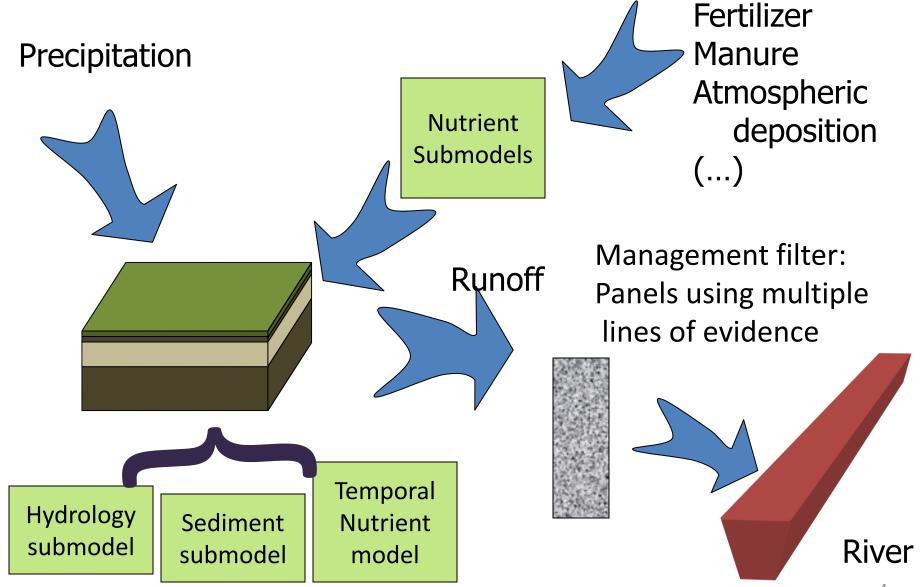
Software Development ModWG

Targets ModWG ++

Sensitivities ModWG

Other Issues ModWG

Phase 6



Precipitation



Scenario Builder Issues

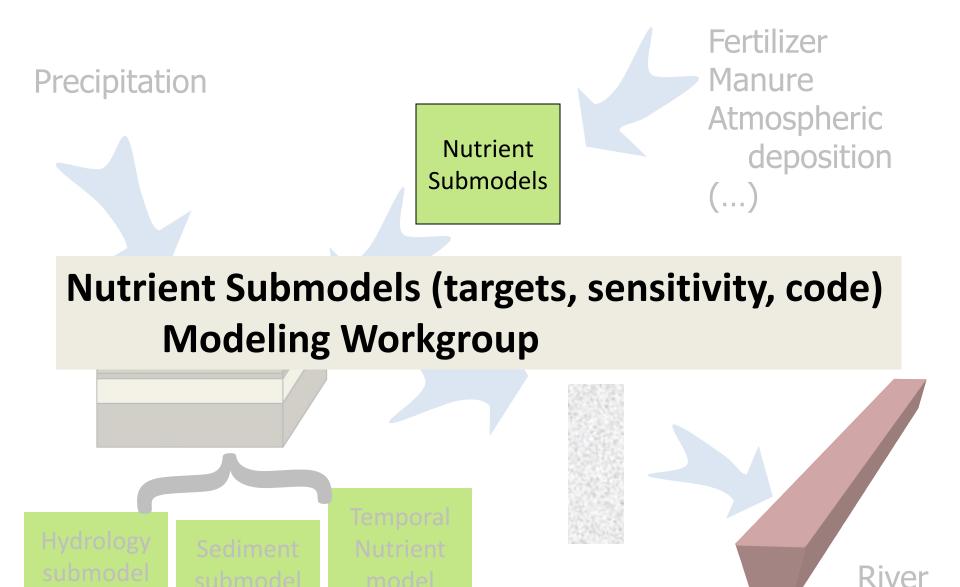
Ag Workgroup Urban Workgroup Forestry Workgroup

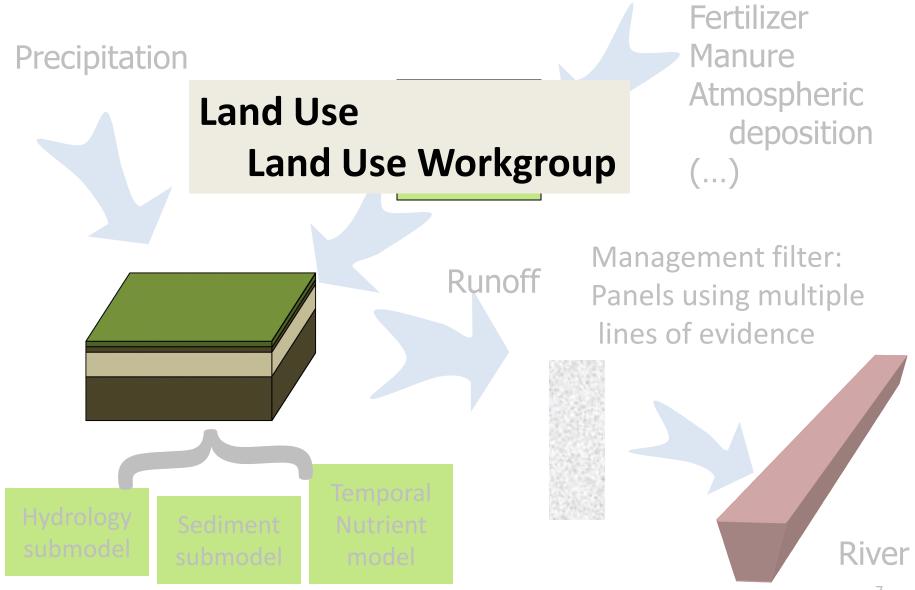
Poultry Litter Subcommittee
Ag Modeling Subcommittee (BBBM)

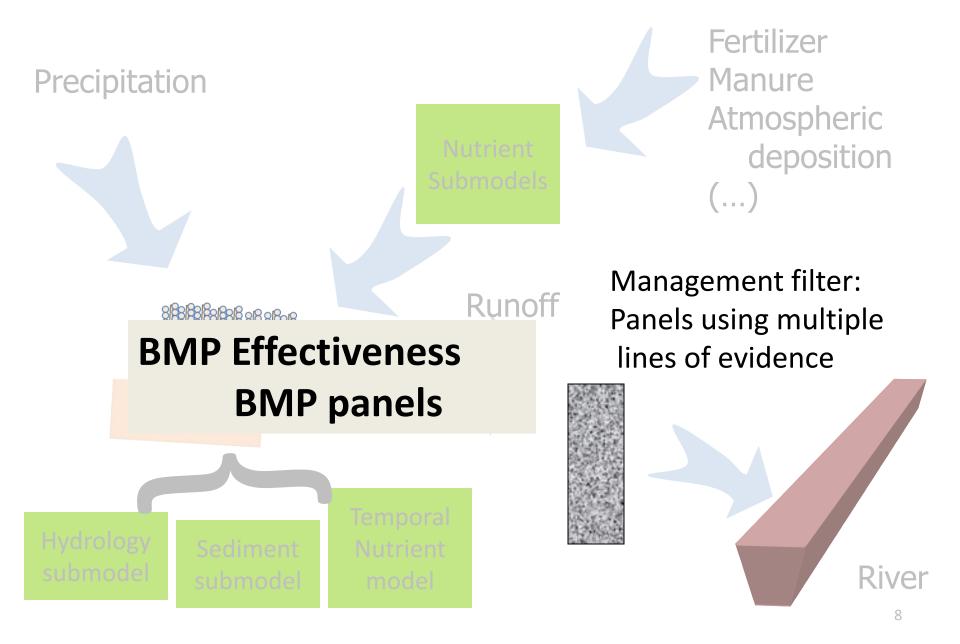
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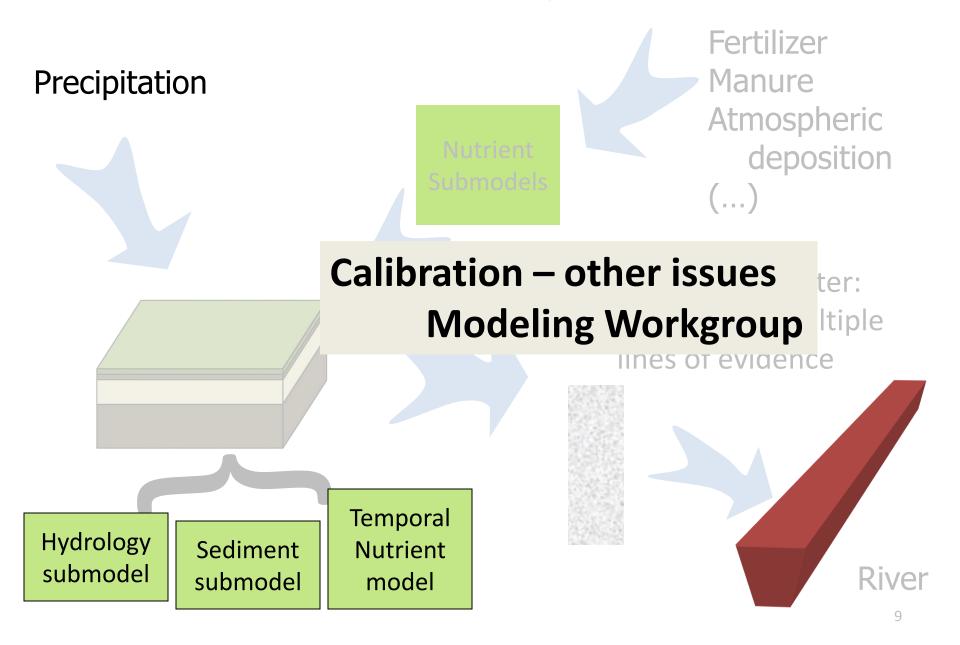
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River









Precipitation



STAC

Peculiarities of Perviousness

Phosphorus Panel

Management Effects on Water Quality Trends

Multiple Models

Healthy Watersheds

Climate Change



Nutrient model





Phase 6 model development

Land Use
 LUWG

BMP Panels WQGIT

Nutrient Applications / SB Ag Modeling SC

Calibration Methodology ModWG

Software Development ModWG

Targets ModWG ++

Sensitivities ModWG

Other Issues ModWG

Phase 6 model development

Land Use

BMP Panels

Nutrient Applications / SB

Calibration Methodology

Software Development

Targets

Sensitivities

Other Issues

LUWG

WQGIT

Ag Modeling SC

Bhatt/Mandel

Bhatt

Yactayo

Yactayo/Kleinman

Fraley-McNeal

Calibration

- Gopal: starting from the beginning
 - P5.3.2 + NLDAS rainfall
 - Worked on hydro calibration methods
 - Sediment improvement
 - Nutrients same as previous PQUAL for now
- Ross: starting from the end
 - Rethinking the river calibration method
 - Developing new methods for regional differences

Phase 6 Sensitivities and Targets

- Gather Information
 - AGCHEM CBPO
 - Sparrow CBPO
 - CEAP CBPO and BARC
 - Forest Disturbance model Gutierrez-Magness, et al
 - APLE Coale and Mulkey
 - Other Coefficient Models TetraTech
 - Literature TetraTech
- Synthesize and Discuss with Workgroup
- Next Step Incorporate Sensitivity into PQUAL

Other Modeling Issues (as time allows)

- Reservoirs
 - Susquehanna
 - Ponds
- Lag Times
- Small Scale Effects Fraley-McNeal
- Uncertainty Analysis
- Code Updates (speed and clarity) Bhatt
- ...