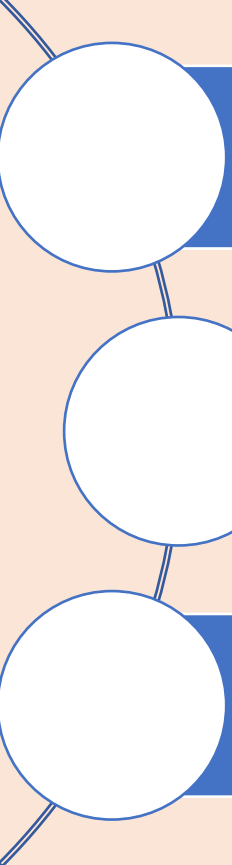


Agricultural Modeling Team (AMT)

Tom Butler, EPA

10/04/2022

Outline

- 
- What is the AMT?
 - What will the AMT do?
 - Modeling WG connection

What is the Agricultural Modeling Team?

Agricultural Modeling Team (AMT)

- **Decision making**
- Technical data inputs
- Through 2026 (Phase 7)
- **It is NOT modifying the model**

Group Hierarchy



- Workgroups and Action Teams**
- Agriculture Workgroup** (highlighted with a blue box)
 - BMP Expert Panels
 - BMP Verification Ad-hoc Action Team
 - Best Management Practices (BMP) Verification Committee
 - Federal Facilities Workgroup
 - Forestry Workgroup
 - Land Use Workgroup
 - Local Planning Goals Task Force
 - Milestones Workgroup
 - Reevaluation Technical Workgroup*
 - Sediment Workgroup*
 - Toxic Contaminants Workgroup
 - Trading and Offsets Workgroup
 - Urban Stormwater Workgroup
 - Wastewater Treatment Workgroup
 - Watershed Technical Workgroup

Agricultural Modeling Team

- Under Agriculture Workgroup
- Science based
- Consensus as defined by the Water Quality GIT

Membership

12 voting
members

- Chair
- Six states
- EPA
- Four at large positions

NOTE

We ENCOURAGE participation from nonvoting members.

What are we doing?

Support the Agriculture Workgroup (AgWG)

- Agricultural input data decisions
- Phase 7 Watershed Model



How are we doing this?

1) Understand and evaluate current assumptions

2) Prioritize changes for the future watershed model

3) Analyze items of interest

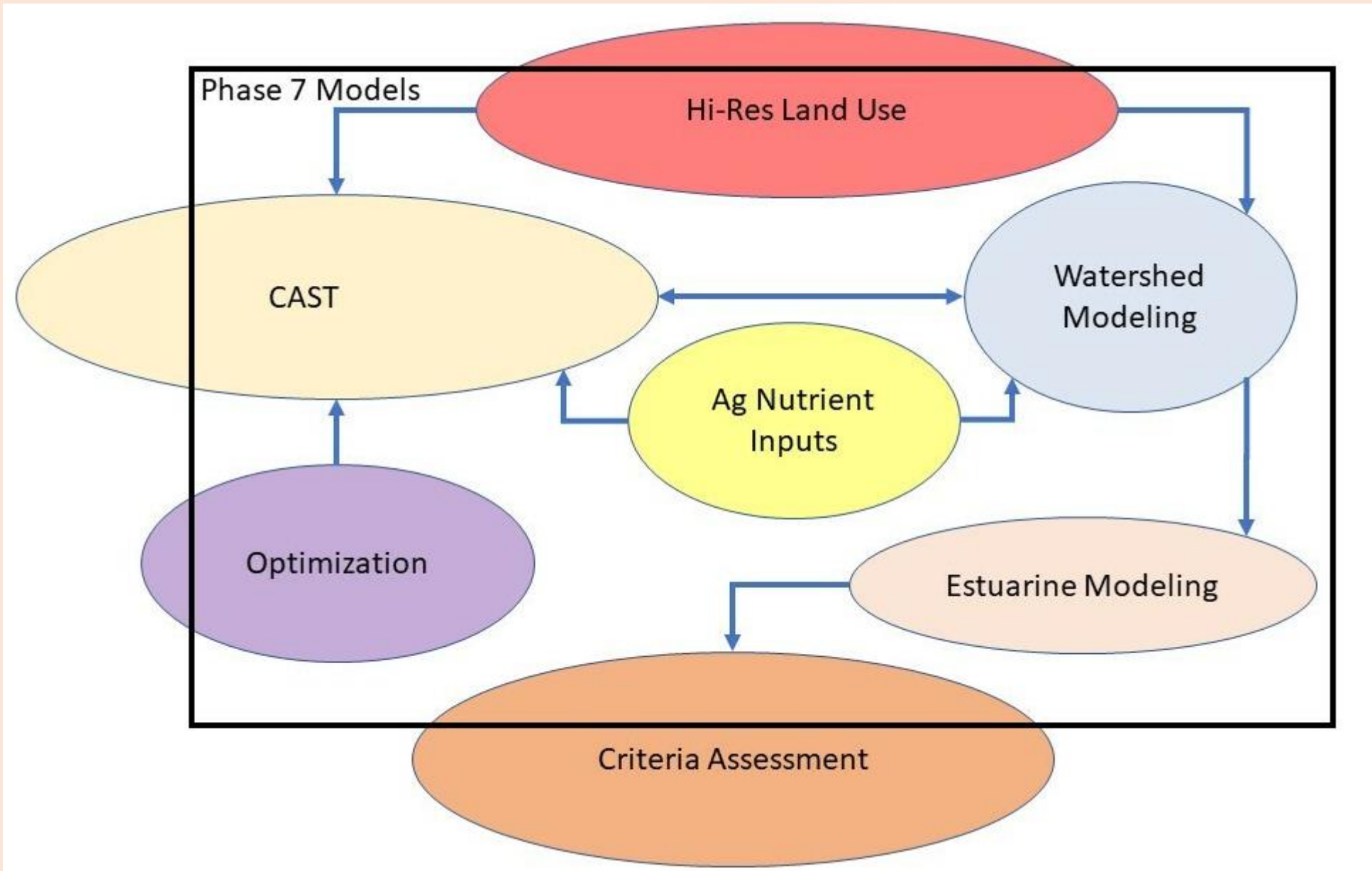
4) Coordinate with agencies for data sources

5) Make technical decisions regarding input data

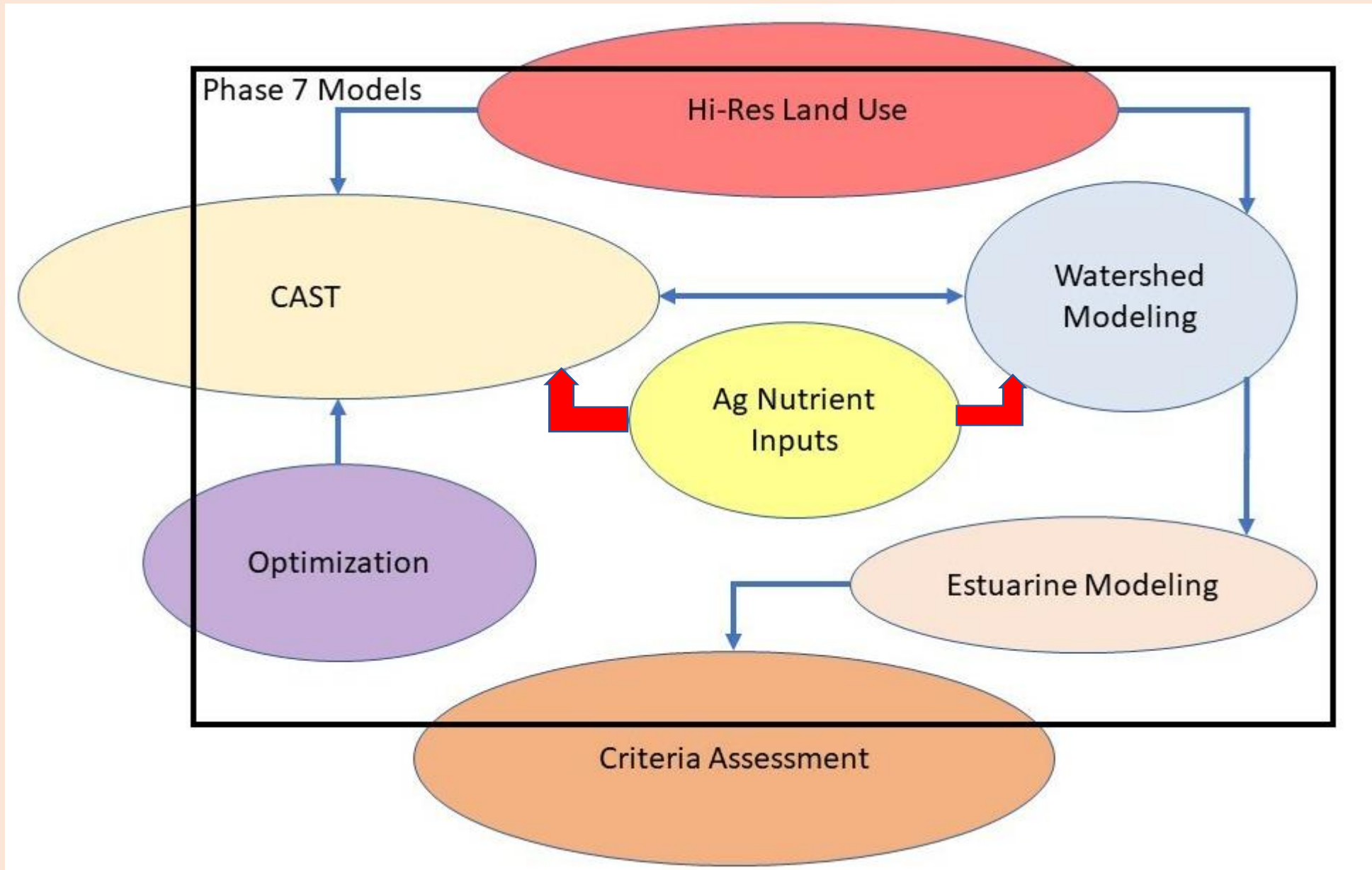
Partnership Requested Topics

CROP	ANIMAL	MANURE	INORGANIC FERTILIZER	MODELING
Crop nutrient application	Reevaluate animal types	Dissolved Air Flocculants (DAF).	Soil and Water Extractable Phosphorus	Nutrient Application
Agricultural plant categories	Feeding operations	Manure Storage	Fertilizer breakdown	Land Use
Legume nitrogen fixation	Animal mortality	Nitrogen mineralization	Revisit AAPFCO NH ₄ to NO ₃	Cover factors
Timing of crop nutrient applications	Size	Transport	Biologicals	Evaluation of alternative agricultural data sources
Nutrient use Efficiency	Feeding additives	Storage and handling losses		Model Structure
Double cropping				
Climate change effects on crop types				
Crop uptake vs removal				

How does this connect to the Modeling WG?



How does this connect to the Modeling WG?



How does this connect to the Modeling WG?

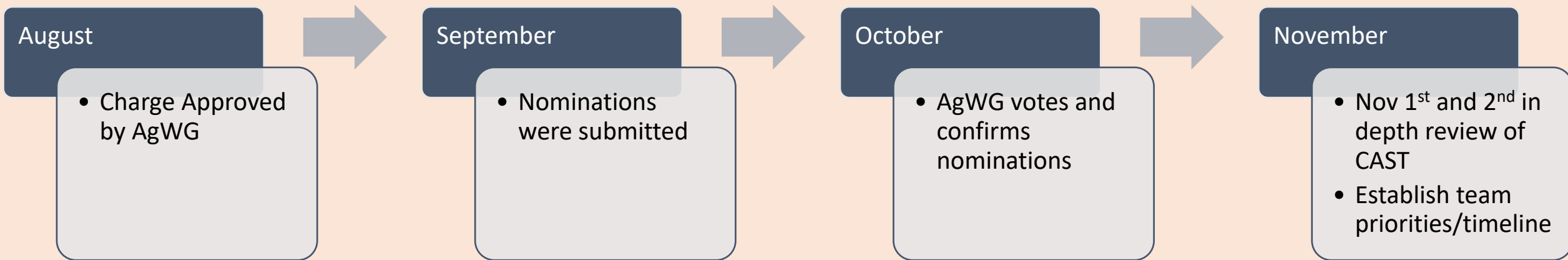
Provide ag input data

Evaluate agricultural assumptions

- Existing
- Potential

Modeling representative is a nonvoting member

Where are we now?



Summary

Technical

Ag data inputs

Make decisions

Currently confirming our membership

Questions?