

Agricultural Modeling Team (AMT)

5/19/2022

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The Agricultural Modeling Team

Charge

Functions

Expertise

Structure

Timeline

Questions to keep in mind

What is
our
charge?

What are
our
functions?

Who are
we looking
for in the
group?

How will
the group
operate?

What are
our major
deadlines?

Charge:

- Support the Agriculture Workgroup (AgWG) through the development of the Phase 7 Watershed Model (WSM) inputs.

Functions (1 of 4):

- Review data preprocessing methods and agricultural inputs to ensure that Phase 7 WSM utilizes the best available information to reflect agricultural conditions in the watershed and how they change through time.

Functions (2 of 4):

- Review current [Phase 6] WSM assumptions related to the applications of nutrients on agricultural lands and determine if changes are appropriate for Phase 7. Several examples of relevant topics include:
 - Manure and Fertilizer Nutrient inputs;
 - Legume Fixation;
 - Crop Application Goals;
 - Cover-factors for RUSLE;
 - Climate change considerations;
 - Soil phosphorus data.

Functions (3 of 4):

- Consider land use/load source category changes.

Functions (4 of 4):

- Coordinate with USDA agencies to identify analysis methods and agricultural databases.

Expertise

Agricultural systems

- Bovine
- Equine
- Hogs
- Poultry
- Livestock Feed
- Row Crops
- Hay and Ag Open Space
- Specialty Crops
- Pasture and Riparian Pasture

Application/storage of both manure and fertilizer

- Storage and handling
- Transport
- Nutrient Management
- Soil Phosphorus
- Nutrient Volatilization

Agricultural nutrient modeling data within the Chesapeake Bay watershed

- CAST
- SPARROW
- USDA
- Land Use

Structure



Structure (Consensus)

1) Discuss item



2) Form Proposal



3) Call for consensus

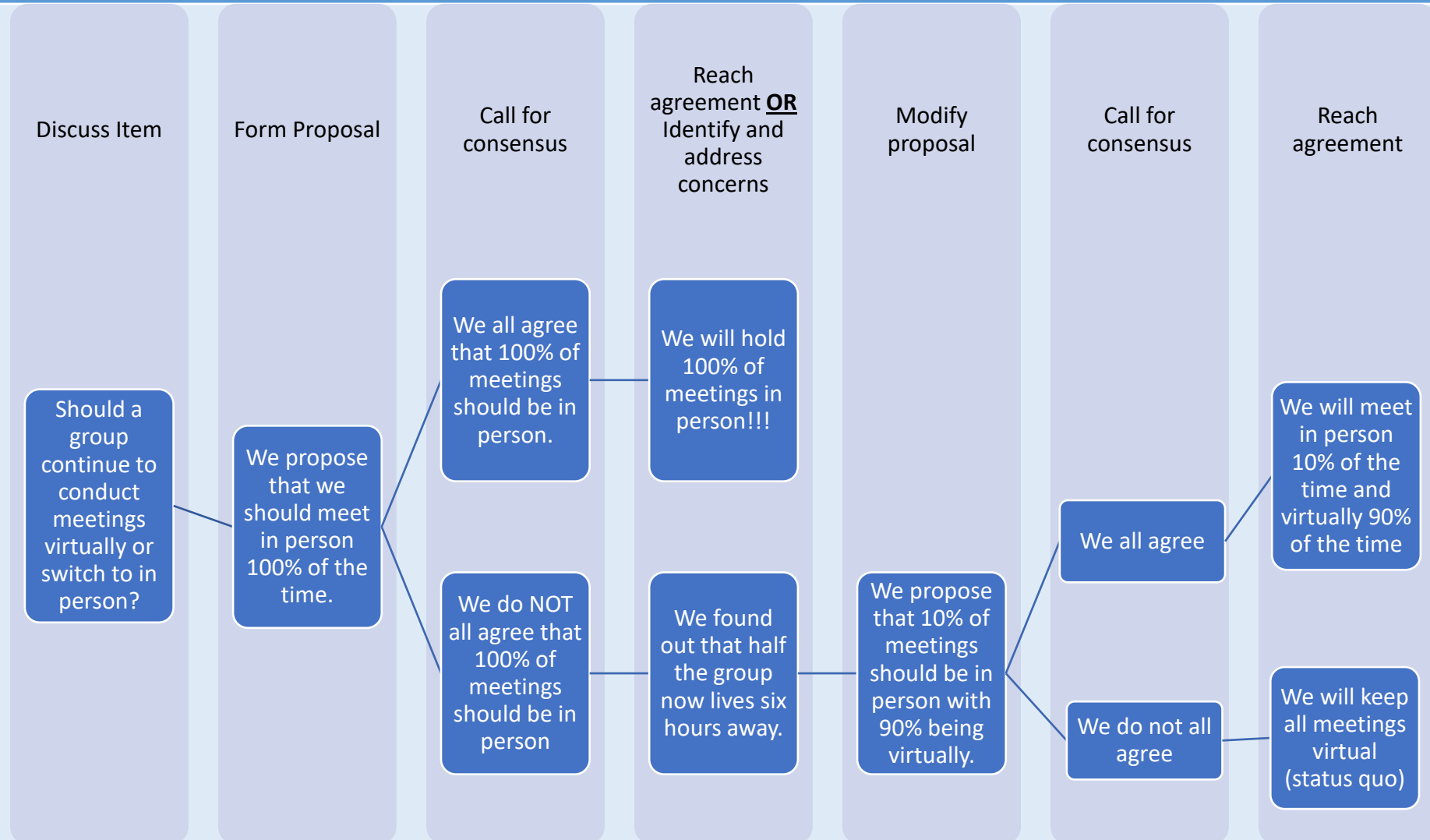


4) Identify and address concerns



5) Modify proposal

Structure (Consensus EXAMPLE)



Timeline

May 19th

- Discuss draft charge and call for nominations

June 16th

- Finalize charge then begin nominations

July 21st

- Deadline to submit AMT nominations

August 18th

- Seek Ag WG approval of proposed membership

September
22-23rd

- 2-day immersive AMT meeting

October
2022- 2026

- Monthly meetings and updates to Ag WG

* We will need to structure meetings to boost attendance on relevant topics, Crops then Animals, alternate, etc. *

Next Steps

Finalize charge → June 16th



Call for nominations → June 16th – July 21st



Confirm group nominations → July 21st to August 18th



Establish workgroup priorities/timeline →
September 22-23rd

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