Beyond 2025 - Connections

ft. ChatGPT

Methods:

- 1. Define Network Elements:
 - 1. Nodes: Represent outcomes
 - 2. Edges (connections): represent relationships between groups based on shared metrics.
- 2. Establish Connection Criteria (edges): each edge in the network is formed based on the strength of shared characteristics. You can assign weights to edges based on degree of similarity.
- 3. Create a dataset where each row represents a relationship between two groups and the metrics that define their connection.

Methods cont'd...

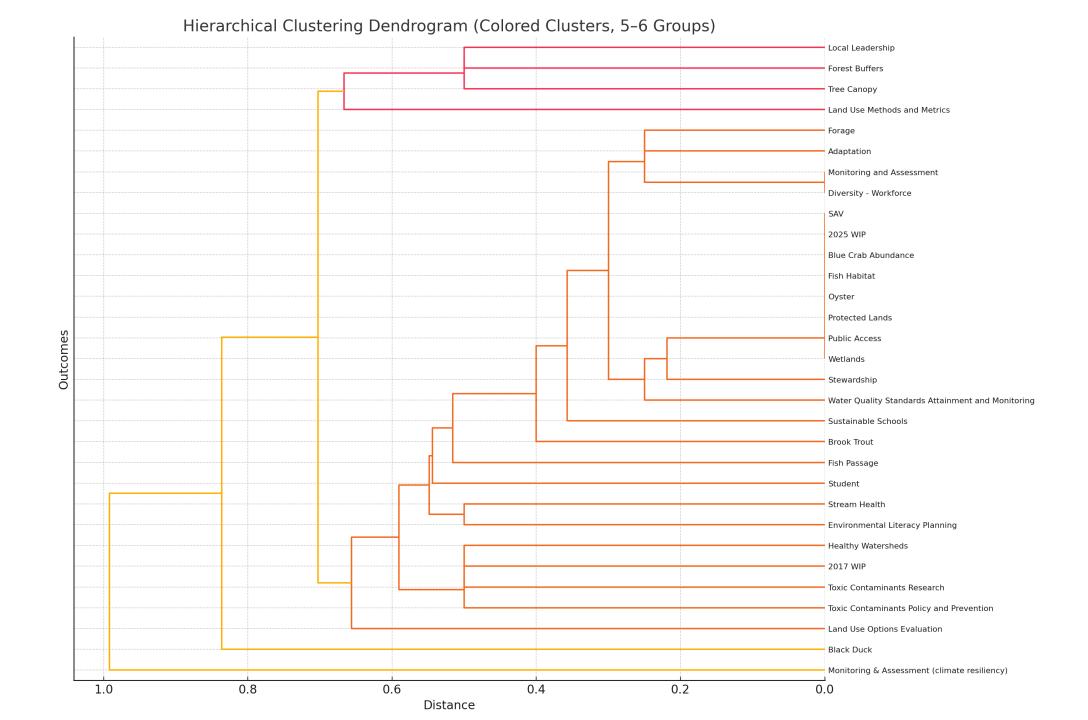
- Scoring system:
 - Assign a score for each connection (e.g., sum of shared metrics).
 - A higher score indicates a stronger relationship.
- Network Visualization:
 - Nodes: size nodes based on the number of strong connections.
 - Edges: thicker edges indicate stronger relationships.
 - Clustering: identify clusters of groups with shared interests.

Criteria:

| Edges (connections): | Description: |
|---------------------------------------|---|
| Shared Outcome Recommendations | If two groups recommend consolidating, restructuring, or |
| (disposition) | updating the same outcomes. |
| Shared Challenges & Opportunities | If two groups identify the same challenges or opportunities. |
| Alignment with Chesapeake Bay | If groups align with the same mission, vision, or pillars. |
| Agreement | |
| Value Added by Chesapeake Bay | If groups emphasize reliance on Chesapeake Bay Program |
| Program | resources |
| SMART Criteria Similarity | If groups assess outcomes similarly using SMART criteria. |
| Similar Timescales for Outcomes | If groups plan for the same timeframe (5, 10, 15 years). |
| Resource Needs & Availability | If groups report the same level of resource needs. |
| Shared Risk & Consequences | If groups identify similar risks of removing an outcome. |
| Concerns | |
| Public Engagement & Benefit | If groups emphasize public input and outreach. |
| Alignment | |
| Restoration Emphasis | If groups focus on conservation, restoration, habitat protection, |
| | or ecological rehabilitation. |

Recommendations from the GIT Chairs Meeting:

- Apply a threshold to what we deem as a connection "True Connections".
- Applying a size component to the nodes to identify outcomes that are of particular importance in the structure of the program.
- Moving beyond the two-pagers and including the management strategies.
- Identify clusters across the outcomes for possible shared Goals.



Hierarchical Clustering Dendrogram (Colored Clusters, 5-6 Groups) Local Leadership Forest Buffers Tree Canopy Land Use Methods and Metrics Forage Adaptation Monitoring and Assessment Diversity - Workforce 2025 WIP Blue Crab Abundance Fish Habitat Oyster Protected Lands Outcomes Public Access Wetlands Stewardship Water Quality Standards Attainment and Monitoring Sustainable Schools Brook Trout Fish Passage Student Stream Health Environmental Literacy Planning Healthy Watersheds 2017 WIP Toxic Contaminants Research Toxic Contaminants Policy and Prevention Land Use Options Evaluation Black Duck Monitoring & Assessment (climate resiliency) 1.0 0.8 0.6 0.4 0.2 0.0 Distance