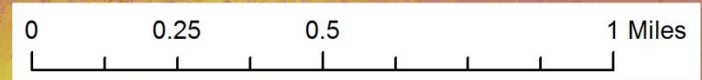
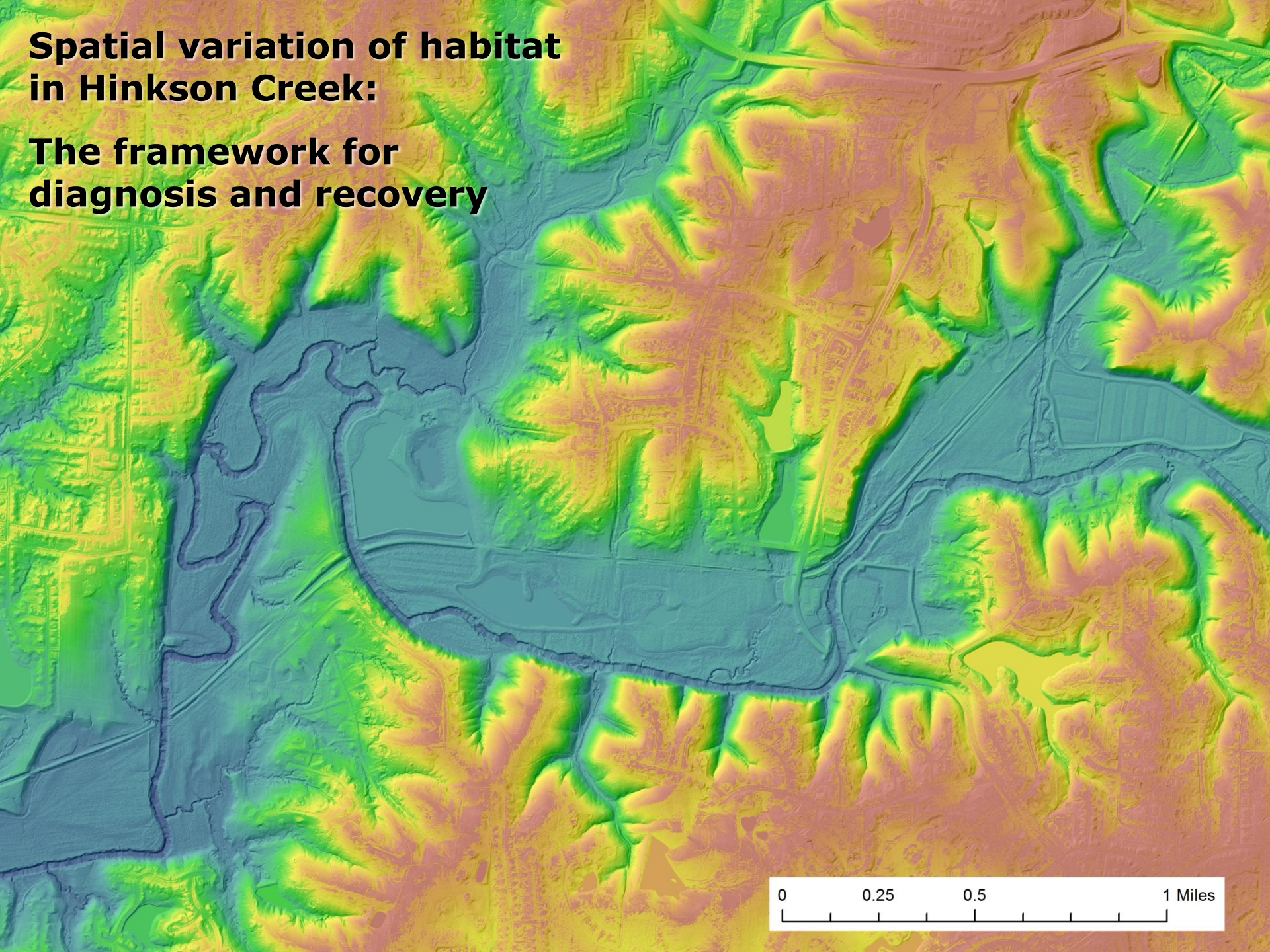


Spatial variation of habitat in Hinkson Creek:

**The framework for
diagnosis and recovery**



Habitat Assessments, Hinkson Creek

- **Nested scales:**
 - **GIS/remote sensing scale (MoRAP, MU)**
 - **Spatial variation in system potential**
 - **Spatial variation in possible stressors**
 - **Spatial variation in evidence of impairment**
 - **Infer dominant source(s)**
 - **Field scale (MU)**
 - **Spatial variation and indicators of impairment**
 - **Add detail, validate GIS/RS scale**
 - **Additional insights into cause/effect of impairment – especially role of physical habitat**

Habitat Assessments, Hinkson Creek

- **Questions addressed:**
 - **What are fundamental controls on Hinkson Creek habitat, biophysical capacity?**
 - **Network structure – where, what types of tributaries affect flow, water quality?**
 - **Hard constraints – where is the channel constrained by (practically) unalterable factors like bedrock, infrastructure?**
 - **What are the potential sources of stress on Hinkson Creek?**
 - **Where do land uses in tributary watersheds, point sources, infrastructure affect the creek? What is their relative magnitude?**

Habitat Assessments, Hinkson Creek

- **Questions addressed:**
 - **What alterations in aquatic habitat can be identified, at what level of severity, and can their locations be used to infer cause of the impairment?**
 - **Channel dimensions, sedimentation, canopy closure...**
 - **Where along the stream corridor are there opportunities for mitigation/mediation of stressors?**
 - **Geomorphic settings that can be used for restoration activities similar to the level spreader at Forum.**