



## SCENARIO: MANAGING FOR HEALTHY FISHERIES (PART 2 – ADAPTATION)

### Setting the scene

The lake has undergone a transformation. How do you adapt to the new normal?

As a group, read the scenario below, then **discuss**:

**5 minutes:** Climate change is shifting the dominant fish species in the lake. How would the lake ecosystem change as a result?

**5 minutes:** How could your organization adapt its management actions to support the system post-transformation?

**Record** your thoughts to share with the group.

### Scenario

Maintaining a healthy fishery includes ensuring that the fishery remains sustainable into the future. Climate change is making the lake warmer, which is bad news for the lake's main game fish, the walleye, which needs cooler temperatures to survive. As the lake warms, it is becoming more hospitable to species that can tolerate warmer temperatures, such as largemouth bass, which are not favored by anglers in the lake.

### Consider

- How could the lake system change as the dominant species shifts from walleye to largemouth bass? Consider several possible outcomes.
- What actions could your organization take to support the lake and fishery health in the face of this transformation?

Remember to think about how impacts from other lakes, lake organizations, and management groups (*cross-scale linkages*) could shape changes in the lake.