



Science Expansion

CONSERVATION LANDS NETWORK 2.0

Habitat Connectivity



Connected habitats are resilient habitats

Ensuring species have clear pathways to access habitat is a key strategy to conserve biodiversity, maintain healthy ecosystems, and facilitate adaptation of wildlife populations to rapid changes. The Bay Area now has two key (and complementary) mapping resources with which to investigate habitat connectivity.

- Omniscape (Regional Connectivity in the legend) is a continuous surface that represents permeability. It uses an electrical flow-type algorithm to find multiple flow paths of least resistance across the landscape. It classifies the landscape onto two axes — permeability and channelization. The benefit of Omniscape is that, for the first time in the Bay Area, the whole landscape contains relative values for connectivity to complement the discrete habitat linkages produced for the Bay Area Critical Linkages project.
- Bay Area Critical Linkages is a network of habitat linkages designed for a number of focal species. These linkages, together with the large landscape blocks they connect, represent broad regions of connectivity important to facilitate the movement of multiple species and maintain ecological processes.

Regional Connectivity

- Broad, Intact Connectivity
- Few Natural Linkages Present
- Last Remaining Linkages Present

Linkages and Core Areas

- Large Landscape Block
- Multi-species Linkage Design

Other features

- CLN 2.0 Study Area
- CLN 2.0 Landscape Units
- Urban
- Water Bodies
- County
- Highway

