Table 1

We determined three types of multilayer networks most relevant to spatial variables. Multilayer networks with layers defined by spatially explicit locations, interspecific interactions, and community or subpopulation structure. Other types of networks, such as intercontexual networks or temporal networks, are likely only to incorporate spatial variables in a hybrid multilayer network and considerations for including those variables will be explored here

In table 1, we define three types of multilayer networks that *can* incorporate spatial variables.

Multilayer networks are composed of layers, nodes, interlayer edges and intralayer edges. Layers are

How are layers defined, nodes defined, inter layer edges

We list variables affected by spatial and social scale

We use a definition of spatial scale from LE,

social scale is

TODO: find pictures of ML nets to include

	Spatial network	Network of networks	Interspecific network
Layer	Spatially explicit patches, areas, landcovers	Subpopulations, fuzzy patches	Different species
Entities	Individuals	Individuals	Individuals
Nodes	Individual	Individuals and sub-networks	Individuals and species-specific networks
Interlayer edges	Connect individuals to themselves	Connect networks to networks	Connect species to species
Intralayer edges	Association to other individuals within network	Association to other individuals within network	Association to other individuals within network
Social grain	types of interaction, chain rule, spatsoc threshold, hyena sessions	For intra: see left. For inter: similarity, vulnerability	
Spatial grain	resolution		connectivity, clusters
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