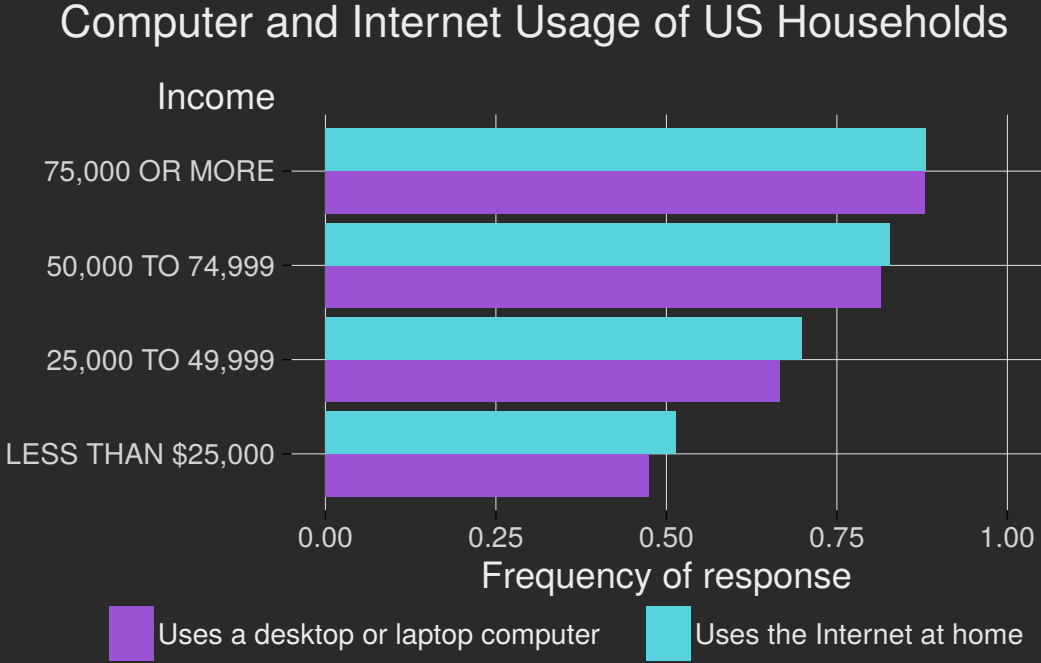
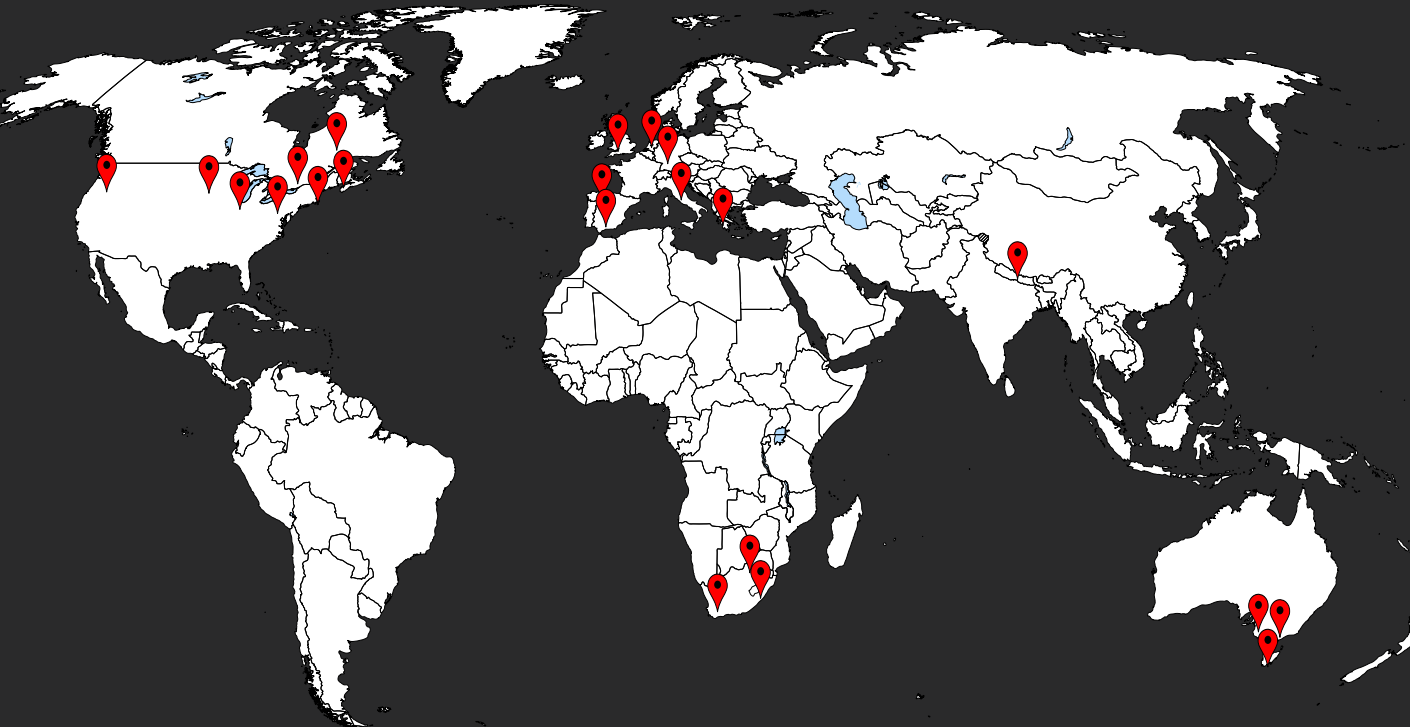


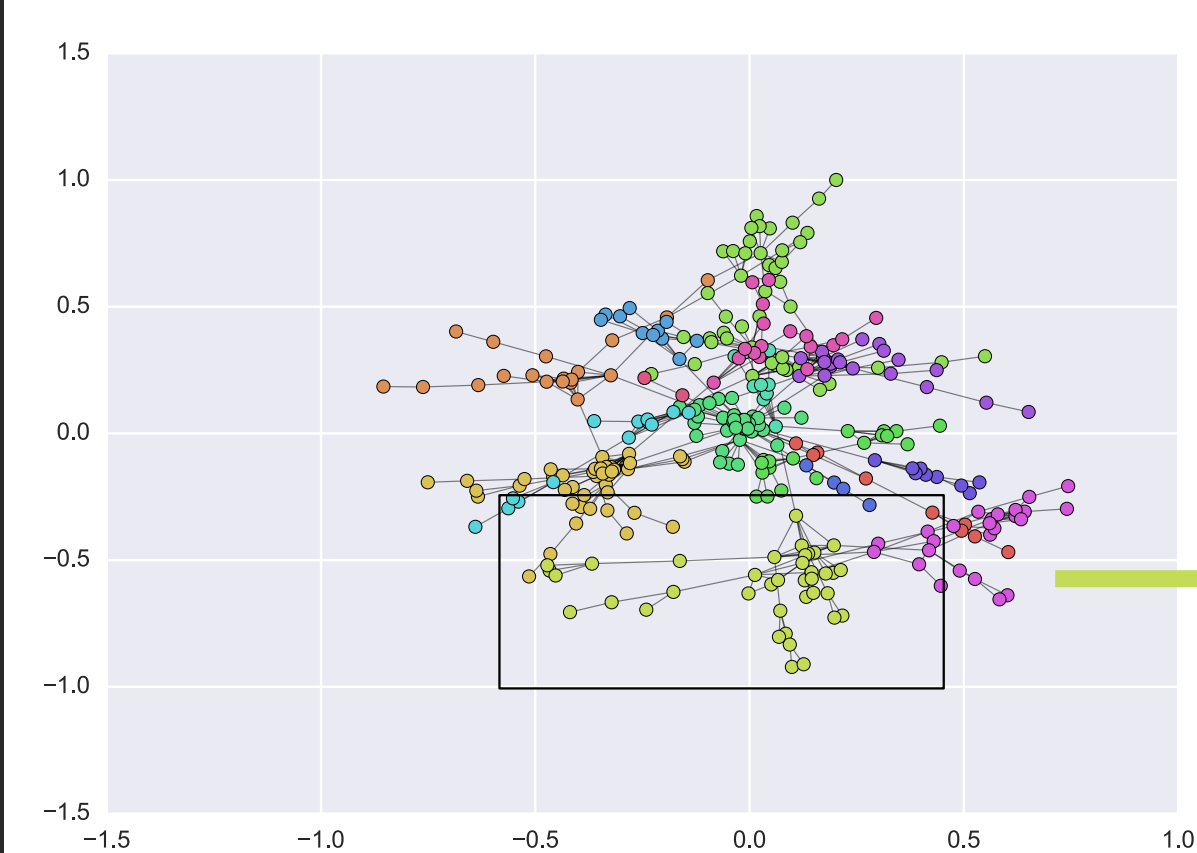
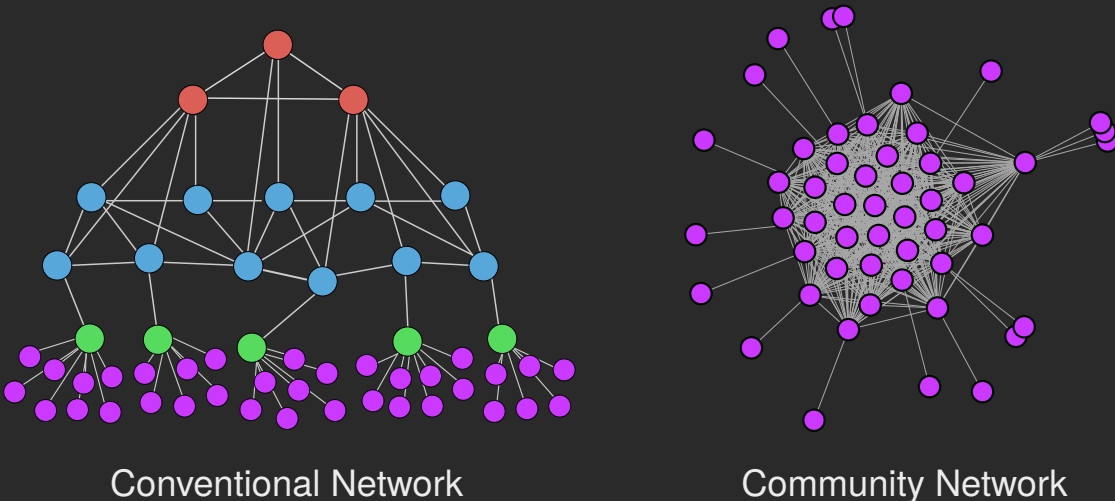
Internet is inaccessible in some communities



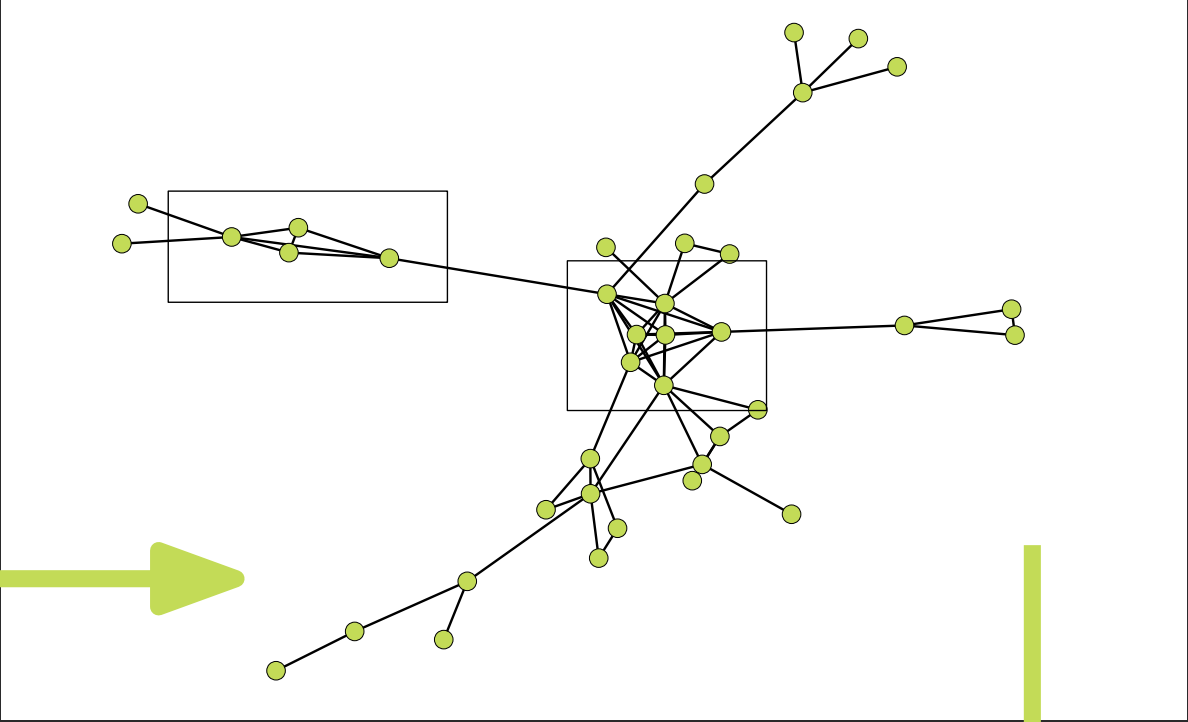
Community networks are a growing solution



Community networks have different characteristics from conventional networks



1. Download topology and partition into communities, with different colors for each community
2. Choose any subgraph from the topology and isolate it. Find **cliques** within the subgraph
3. Generate nodes and links for GENI based on the subgraph
4. Emulate network properties that active community networks have using netem commands



GENI Portal

Drag to Add

VM

Xen VM

EG VM

Raw PC IG

Raw PC EG

OF OVS

New Site

A Community Network in the Cloud

Student: Amaya Muñoz
Mentor: Fraida Fund, Faculty Advisor: Professor Shivendra Panwar

Supported by: