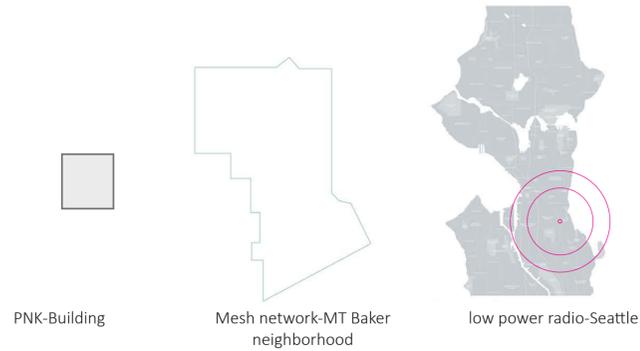


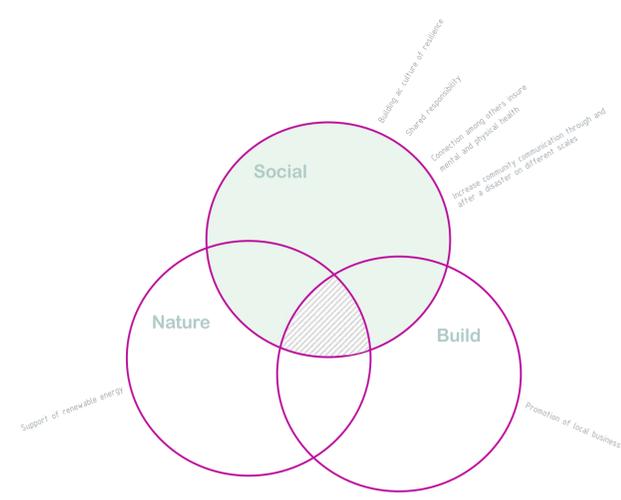
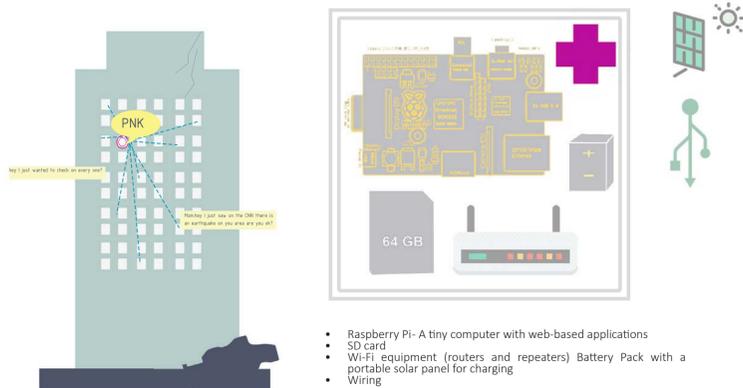
Have you ever wondered how would you feel if phone services shut down for a day, a week or a month?

We highly depend on our devices- iPhone, iPad, and laptops- in our day- to- day tasks. We are at a pint where some of us no longer wear a watch, they check their phones to know the time. Beside all the services that are of one's leisure, those devices are our main way of communication. If we have an emergency the first thing we would do is to pick up our phones to call for help. But what happens during or after a disaster is that most services, specially internet services are shut down. Therefore, the community need to be aware on how to create their own mesh network. The energy/ communication network consists of three main telecommunications networks that allow communication on three different scales (a building, MT Baker neighborhood, and Seattle). The three parts are the portable network kit, the mesh network, and the low power radio. The more those three collaborate the stronger the communication and more resilient the neighborhood.



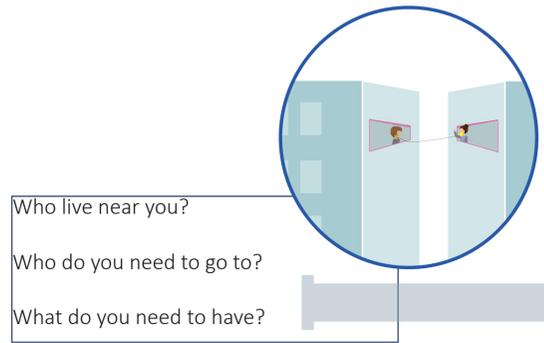
The Portable Network Kit (PNK)

The portable network kit is an easily put together WIFI device, that is solar powered. The PNK works on two modes offline and online. When it is on an offline mode the kit provides a wifi network that connects only to those who are near it could cover up to a small building, it does not allow any global connection. Information live on the local (PI), which allow people who are connected to receive and send data to others connected to the same (PI). The amount of solar needed to charge the device depends on the type of solar panel(EX, Goal Zero Venture 30 Solar Recharging Kit, with a 8-16 hours of sun provide a 7800 milliampere-hour), those kit also contain a battery backup incase of any climatic situation that prevent from charging the solar panel.



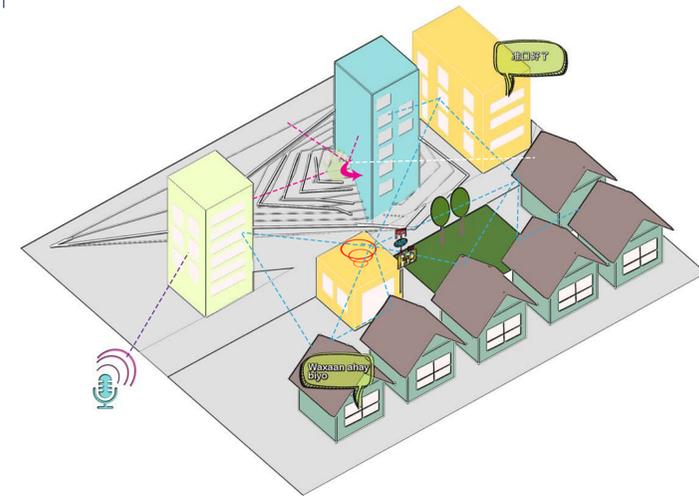
Goals

- Create a culture of resilience
- Enhance communication during an emergency when communication become a critical thing
- Enhance the safety of Mt.baker
- Increase Social interaction
- Way of finding resources and help
- Highlighting the ethnic diversity of Mt.baker (different languages)
- The use of renewable energy (solar energy)



Community within a Community

Gathering to produce a Mesh network (Tenna Mesh)
 Mesh network is a communication network where information moves from one node to the other, without the need for internet service. This mesh depends on multi tenna either attached to the device or on a separate one, to send and receive information between the nodes. For the community to be more comfortable in creating their own mesh this project propose regular gathering from small communities with in Mt.Baker, where they connect this network and use it. those gathering could address different ages of the community, it could be tailed for teens who are interested in gaming network.



- Gathering to produce a Mesh network
- Every device (node) operate as a hotspot
- Information is moved through the node
- Auto discovering
- Self-healing (more resilient)
- Socially Interactive – gamer gathering
- Low energy – not expensive

Xo laptop

Device used in the rural area where there is no service tower

