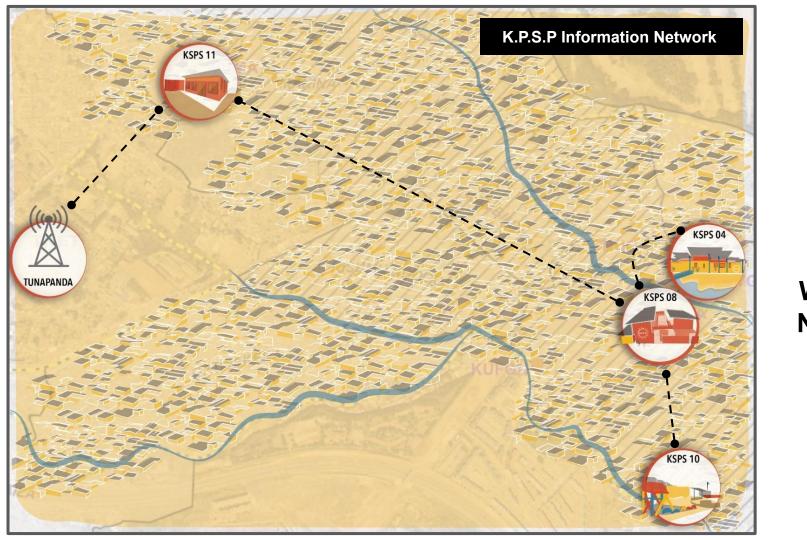


CBO Networks Tell A Story

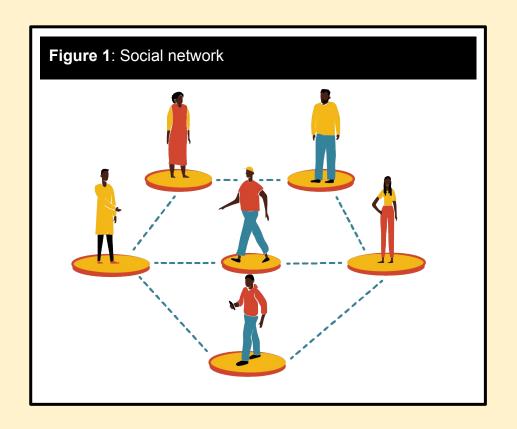
Training

DAY 1

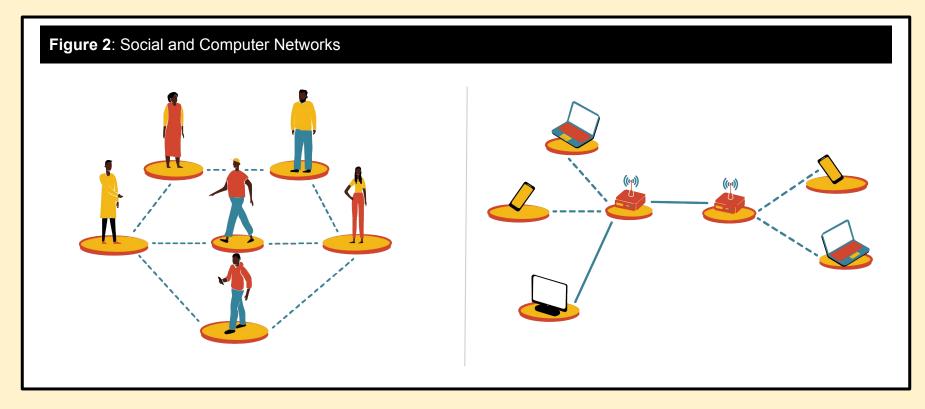


What is a Network?

I. What is a Network?

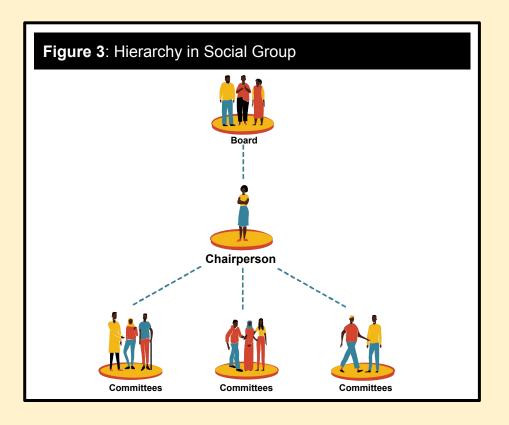


- Role and responsibilities
- Language they speak
- Trust and relationships
- Modes & rules for communications
- Barriers to communication



Social networks connect **people**Computer networks connect **devices**

I. What is a Network | Roles and Responsibilities



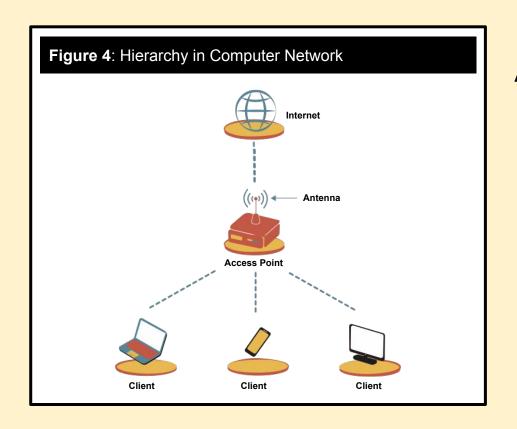
Chairperson:

- Manages the day to day.
- Accepts new members into the network.
- Keeps everyone safe and healthy

Committee Member

participates in activities

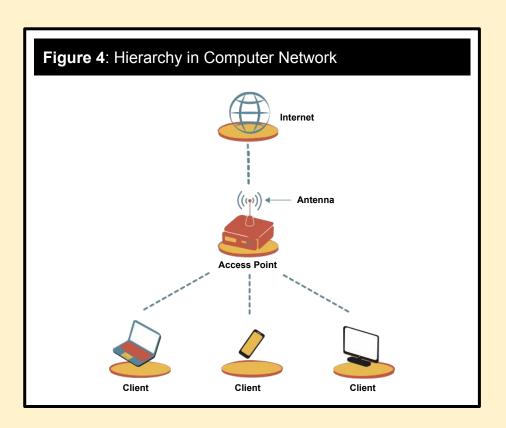
I. What is a Network | Roles and Responsibilities



Access Point:

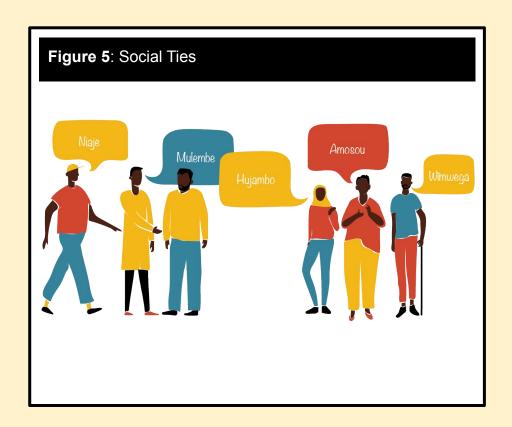
- provides access to client.
- Ensures that only those that have access can join / use the network.
- Keeps clients safe and healthy

I. What is a Network | Roles and Responsibilities

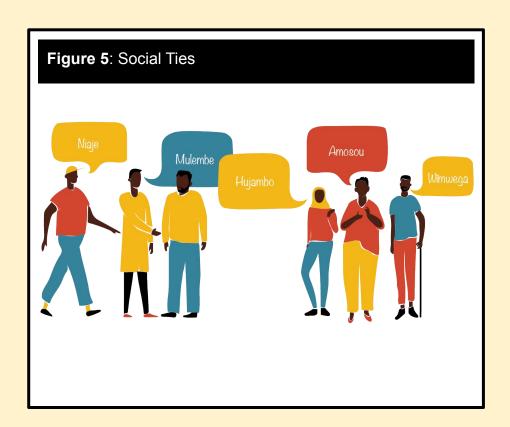


Client: connects to an Access
Point to gain access to the
network

Antenna: allows devices to speak to each other over different distances.

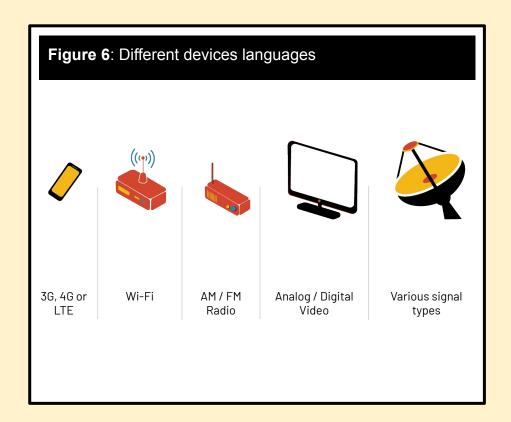


It is difficult to build strong social ties when there are differences in language



Many of our close friends speak the **same language** as us.

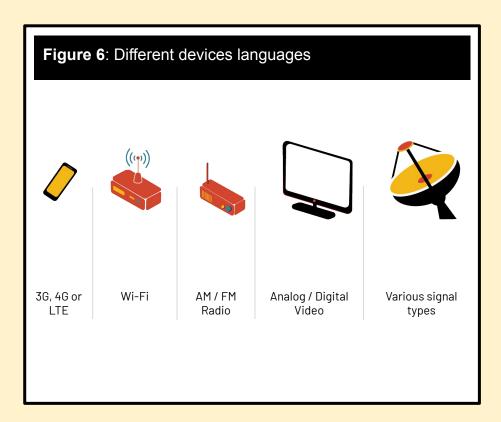
So we can understand them!



In Wifi networks, only devices that can speak and understand wifi are able to participate.

Your phone can speak wifi!

Some 'smart tvs' can speak wifi.



In the KPSPIN, <u>all the</u>
equipment that we are setting
up speak wifi.

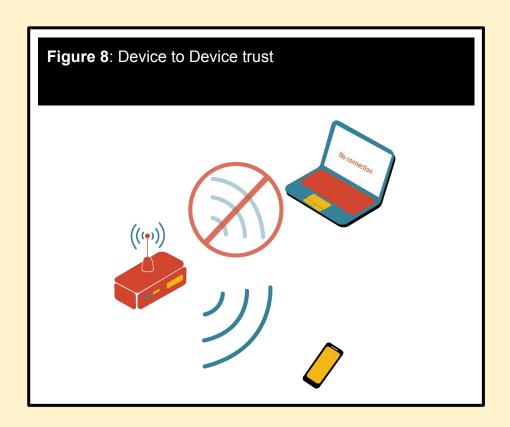


Trust is very important for social ties.

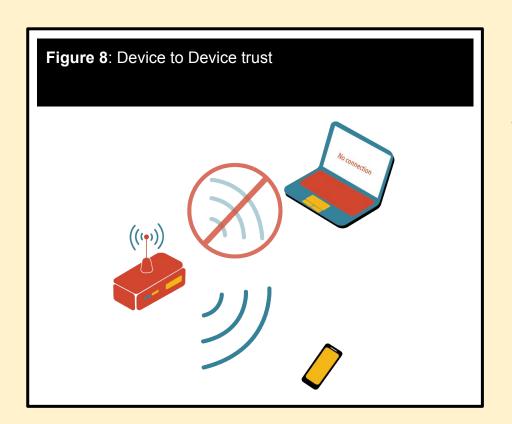
If we can't trust each other is it very difficult to build strong social networks.



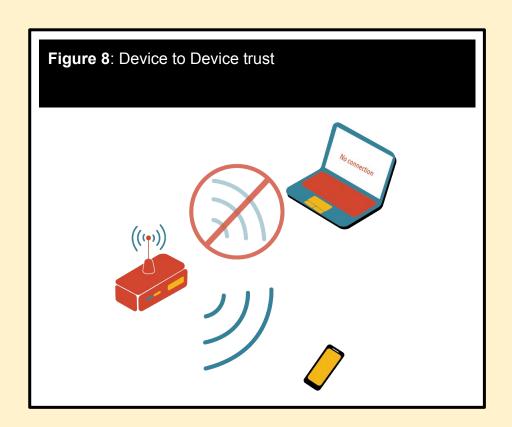
Our existing relationships help us **build new friendships** with strangers and expand our network.



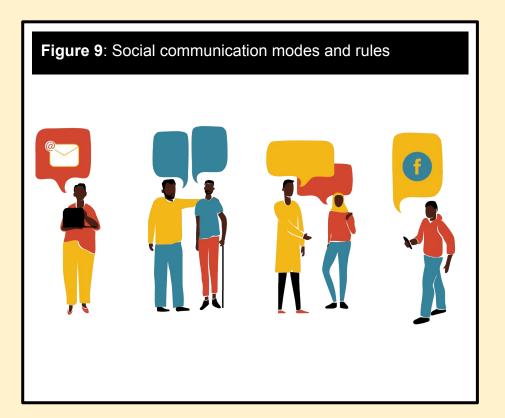
If devices on a computer network cannot trust each other, then no communication will be able to happen.



We use **passwords** as a way of allowing devices that we don't know to use and access our network.



when we give a password to someone to access the internet, we are saying "we trust you to do good things on the network".

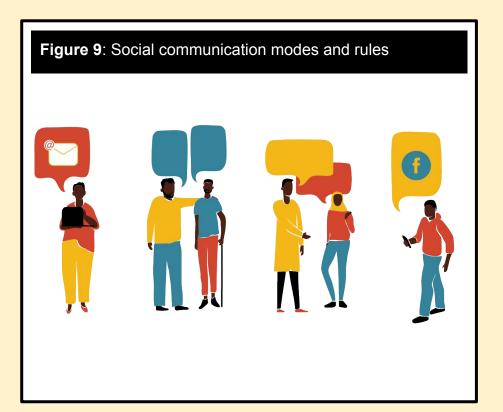


All groups have many ways they communicate:

- Email
- Face-to-face
- letters.

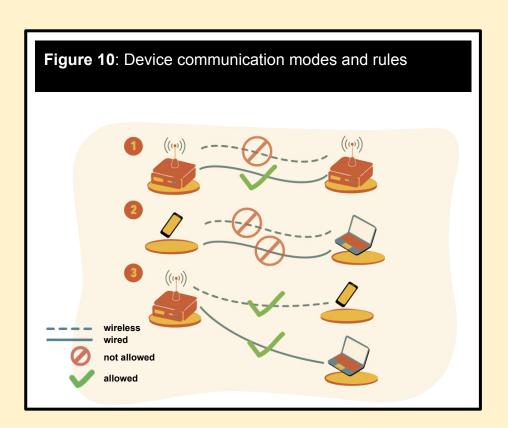
They also have rules they define who can and should speak to who.

I. What is a Network | Modes and rules for communication



For example, in big companies only the CEO or other executives can speak to the board.

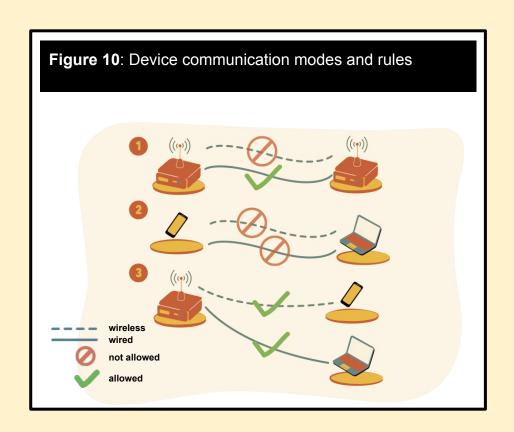
At the home, children must always speak to elders with respect.



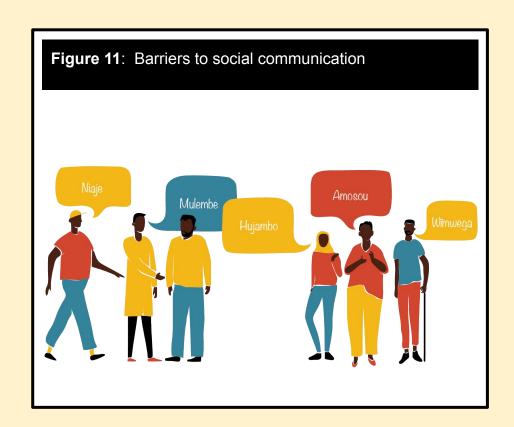
Devices in a computer network can communicate in two ways:

wired or wireless connection

Also depending on the role, only certain connections are possible. Here are three rules:

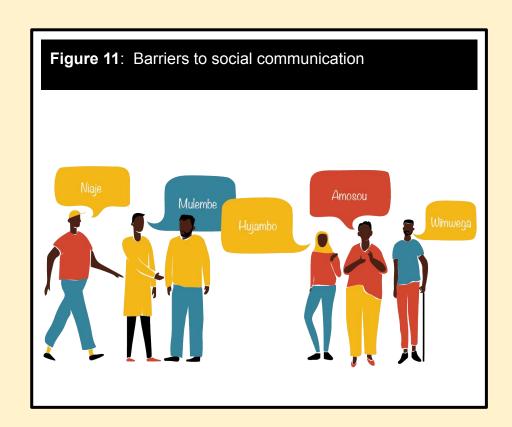


- Access Points can only connect over a wired connection
- 2. Clients don't speak to each other directly (they use Access Points to communicate)
- 3. Access Points and Clients can connect over a wireless or wired connection

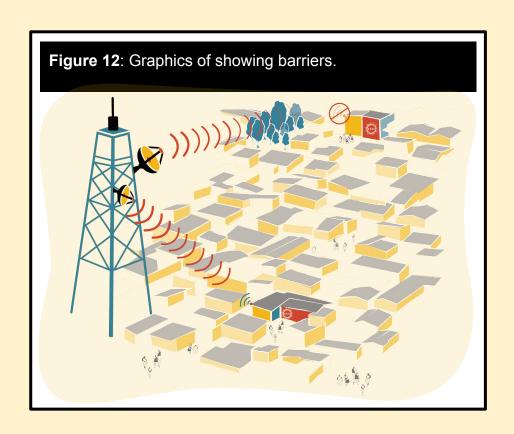


In social groups, big and small there are many factors that make communication difficult.

- governance issue
- age difference
- different languages
- distance



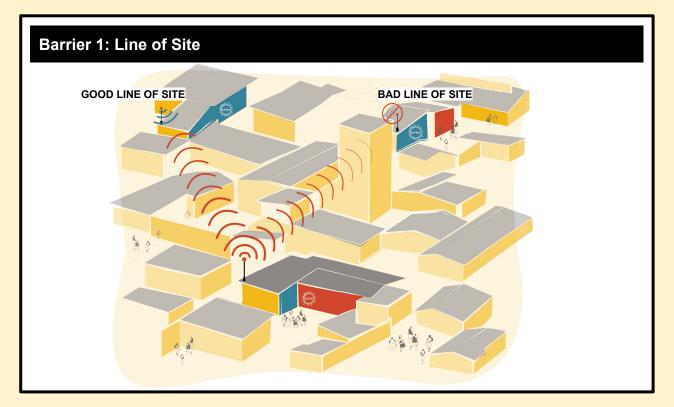
It is important to identify these factors and manage them to make sure the social network is strong



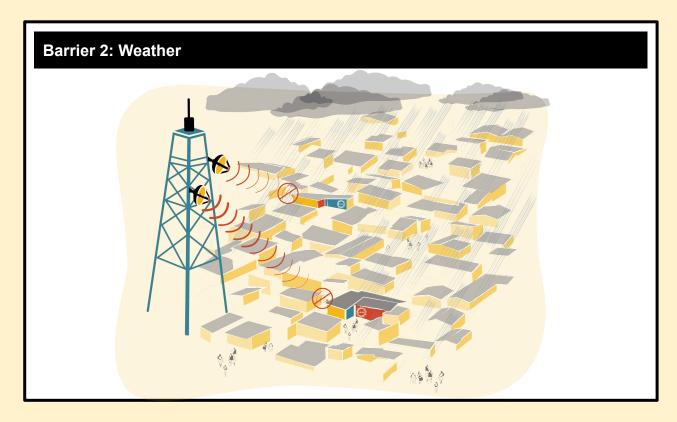
The same is true of computer network. Here are some barriers:

- 1. Line of sight
- 2. Weather
- 3. Power
- 4. Interference
- 5. Distance

I. What is a Network | Barriers to communication

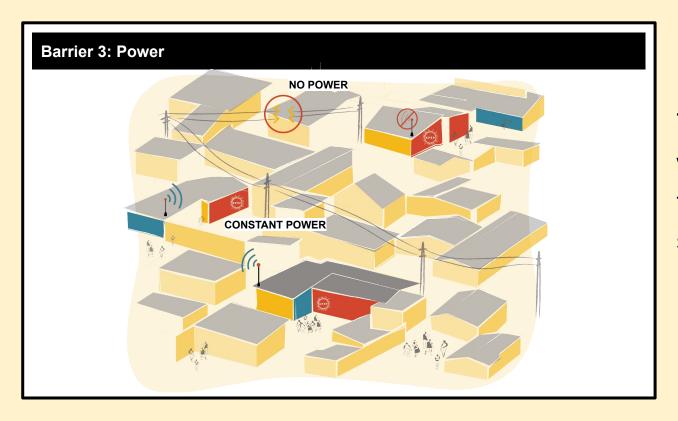


Devices must be able to have an unobstructed view from one to the other

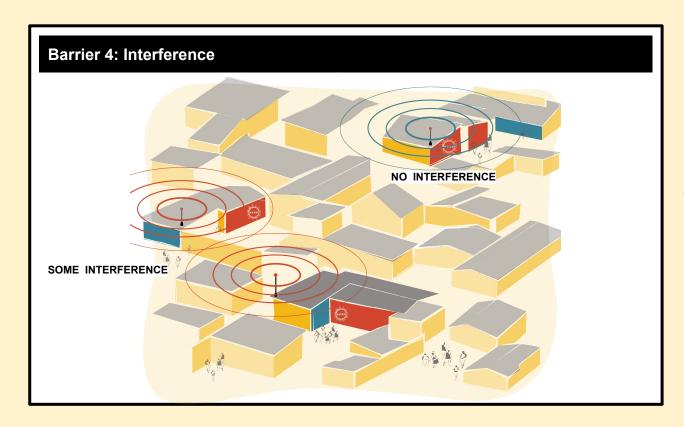


Rain can interfere with communication between devices, especially when the network is badly designed

I. What is a Network | Barriers to communication

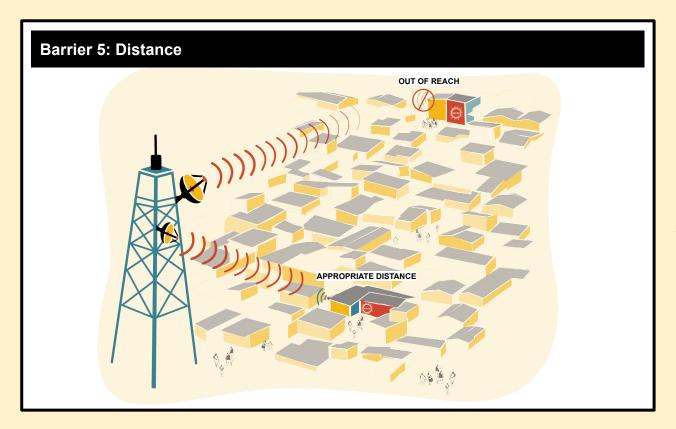


The equipment will not work if there is no power supplied.

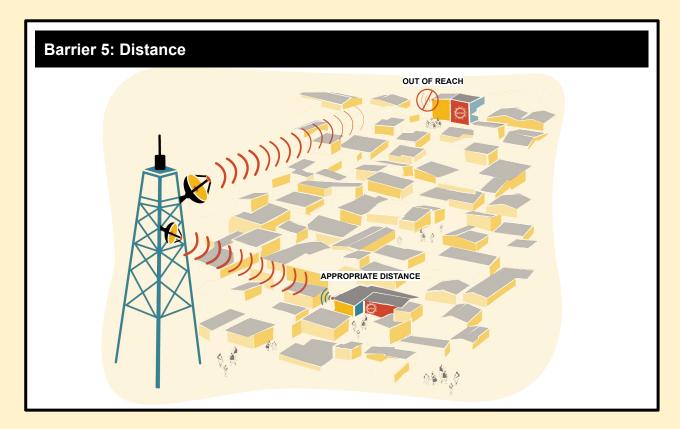


Devices can still communicate with little interference.

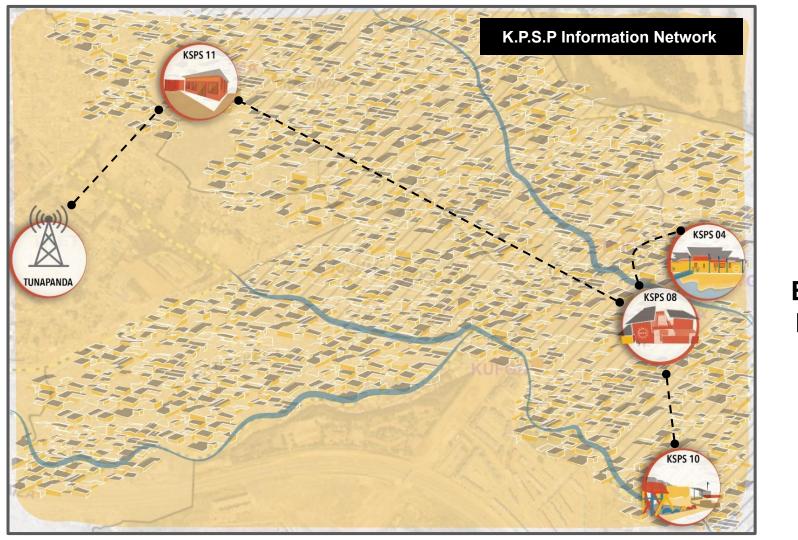
With a lot of interference, the devices get really confused!



Devices usually can't communicate over very long distances.

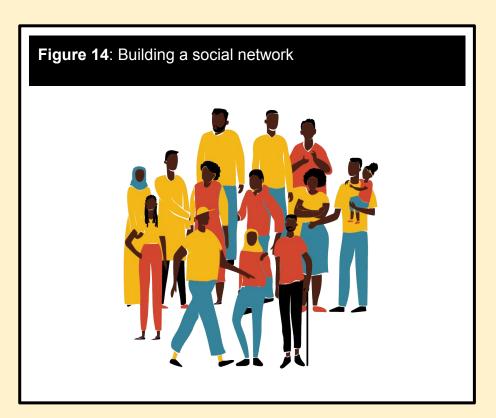


In order to allow devices to communicate over long distance, we need to give them better antennas!



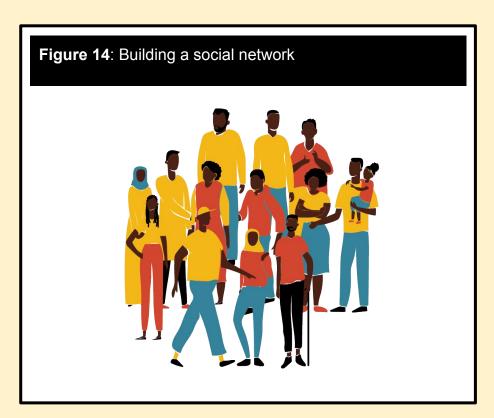
II

Building & Managing

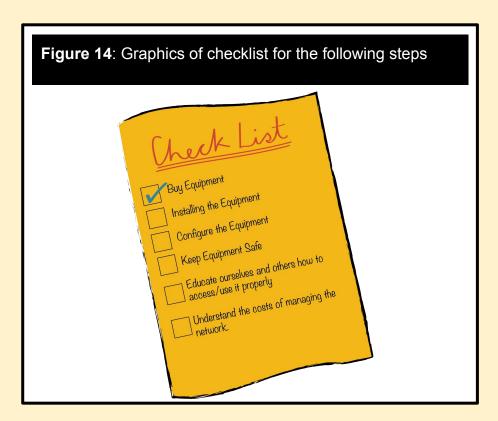


Social networks start when people of shared interest come together for a common purpose.

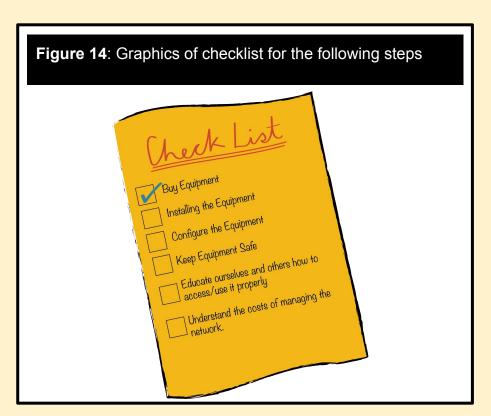
Communication, trust and clear roles and responsibilities allow them to grow.



To maintain relationships, we check in with our friends often: "hi, how are you?" or we attend events with the group.



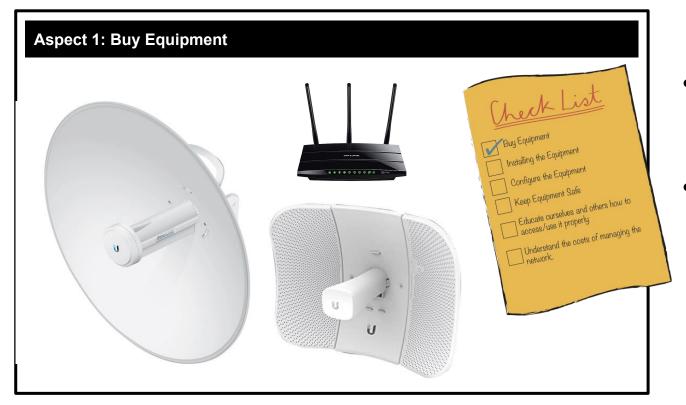
Computer networks also require a lot of **care** and **maintenance**. To build a computer network here is some of what we need to do:



- 1. Buy Equipment
- 2. Installing the Equipment
- 3. Configure the Equipment
- 4. Keep Equipment Safe
- Educate ourselves and others how to access/use it properly
- 6. Understand the costs of managing the network.

II. Building & Managing | Aspects of managing networks

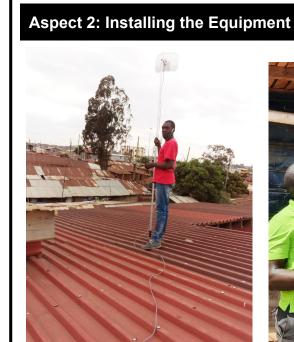
COMPUTER



- You don't have to worry about this as TN has done this for you.
- If you were doing this yourself, it is important that you get the right equipment for your space.

II. Building & Managing | Aspects of managing networks

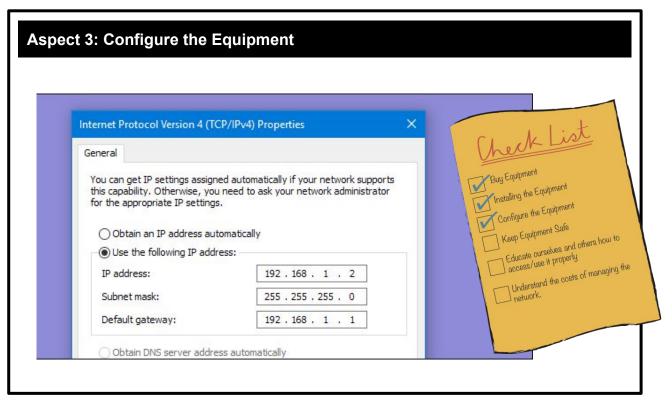
COMPUTER





- First the masts need to go up
- Antenna is attached to mast
- Ethernet cord from antenna to router
- Ethernet connection to power source

COMPUTER



- Power on the router
- Set the correct information
- Set the network name. For example, 'ANWA.KPSPIN'
- Set the password
- Open the network to the public!

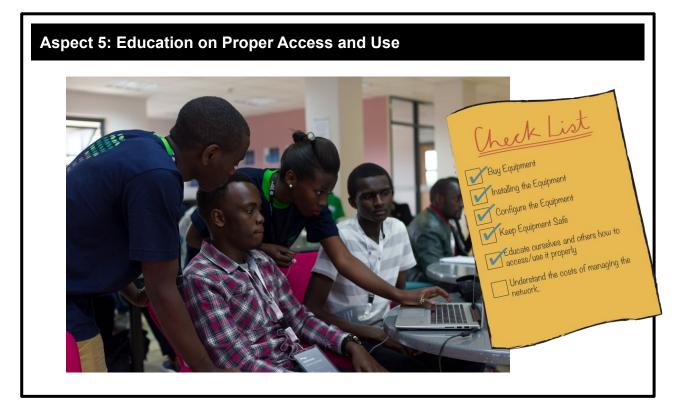


Make sure the equipment is only access by those with the responsibility of managing it.



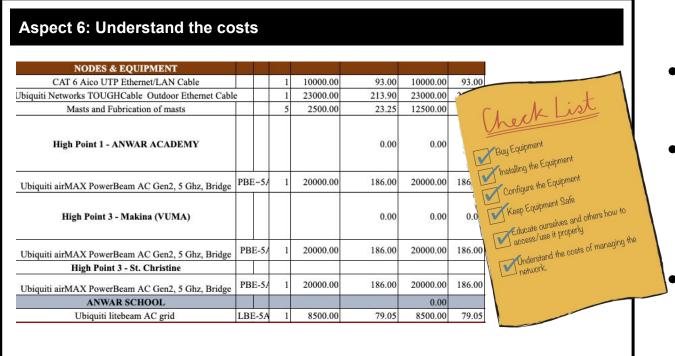
Always keep the equipment in the condition + position it was placed during installing.

COMPUTER

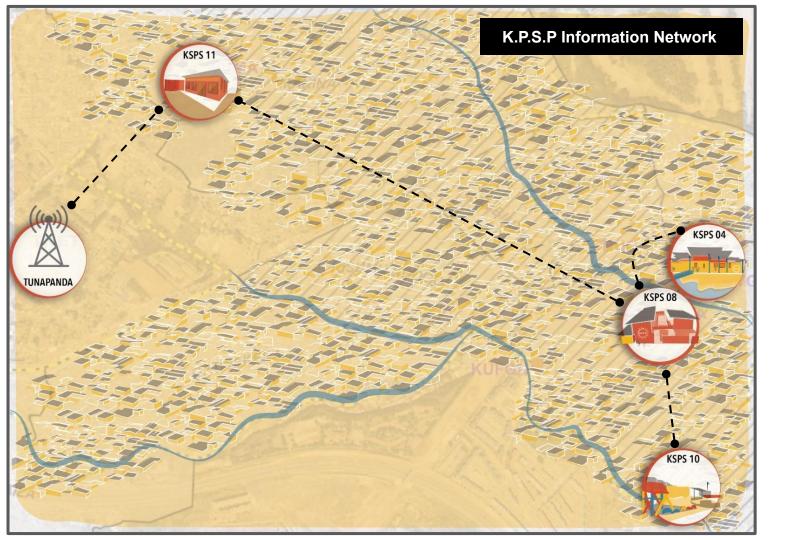


- Make sure passwords are given out in an appropriate manner
- Ensure that the internet is use for non-malicious purposes
- Provide instruction to members and users on how to watch out for scams online.

COMPUTER



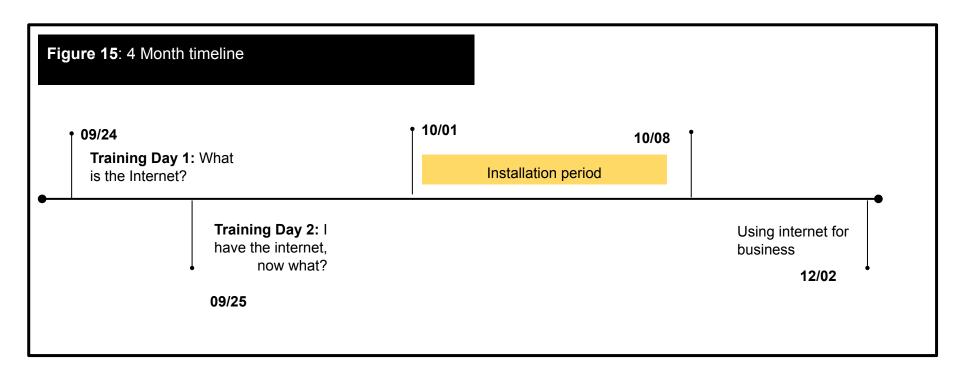
- The access you are receiving will not always be free.
- Make sure your members understand the costs of operating and managing the KPSPIN
 - Include this in your ideas for business models.



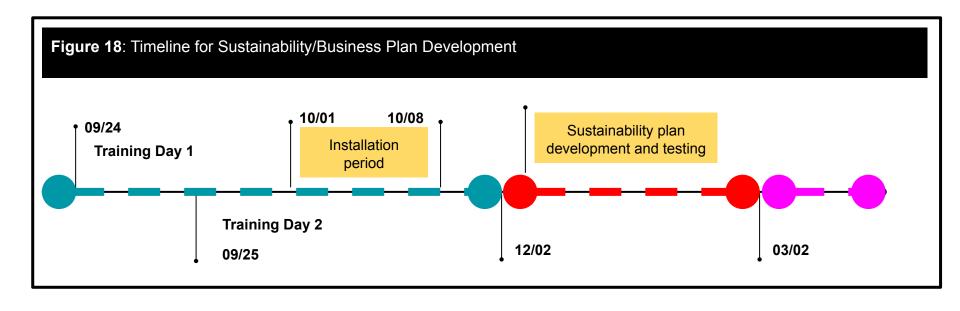
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Next Steps

III. Next Steps



III. Next Steps | Scope for Internet Provisioning



Network general use and testing. No profit generating models implemented

Experimentation with different models. Learn of different mechanisms to generate revenue. Exploring cybercafe

End of pilot phase. CBO can continue with KENET/TN or explore other method profit generations.

III. Next Steps | You have internet access now what?

Figure 16: Day 2 Agenda

- A. Day 1 Review & Questions
- B. Understanding and Assigning the KPSPIN Roles (Techie, Handyperson, Organizer)
- Issues you will need to decide on together about use.
- D. Sustaining the KPSPIN
- E. Sign-up for Installation Date

 We will be discussing topics related to the governance and maintenance of the KPSPIN in your site

Questions for KDI and TNET

KDI and TUNAPANDA

- i. Tunapanda Whether Ndovu and Usalama groups be using the same access point? How do they make sure they are independent control?
- ii. How is the governance going to work for the shared site Ndovu and Usalama? Do we plan for independent control? Which would mean an additional access point.
- iii. How can we help them get as Ndovu techie support KDI do you provide? If the women need a techie how to we make sure they get that.

Issues about techie

* do you want training

If yes..KDI

(provide a training - with assistance from tunapanda)

If no..

do you want training
 If ves., KDI

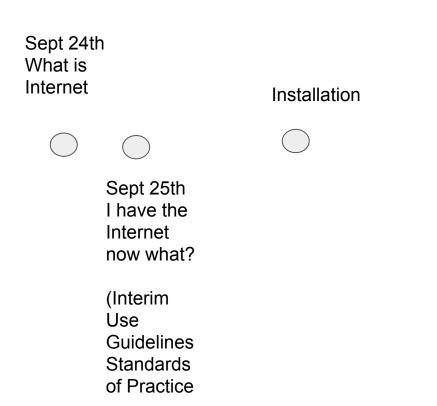
III. Next Steps | Preparing for Day 2

Figure 17: CBO Checklist

- Who is the Hardware + Techie?
- 2. Who is the main lead in your CBO for the network?
- 3. Who makes sure the equipment is turned on?
- 4. Who manages access to the internet in your site?
- 5. Who can have access? What they can have access to?
- 6. What type of uses do you want to allow?
- 7. Do you have access to a legal power source?
- 8. Who is in charge of the safety of the equipment?

- Mock demo on training september 17th 1.
- Agree on training date of september 24th +25th Overview decide on
- 3. Site Configuration Training - mock done Sept 21st.
- What we want to do about ABC
- Location for housing the equipment.
- Installation first two weeks of october 5. Sept 29th (site 1)

 - October 1 (site 2)
 - October 6th (site 3)
 - October 8th (site 4)
- 6. October 15 - Planning your business.



Using the Internet for our Business

I have the Internet now what? (training day 2)

Create rules of use.

Who to people get on.

Do you limit the amount users can access..

NEXT Installation

- For the installation you need to know (paper handout)
 - a. Who Hardware + Techie (do we need to provide)
 - Who is the main lead in your CBO for the network? Contacting other CBOs and Tunpanda about problems.
 - c. Who make sure the equipment is turned on?
 - d. Who manages access to the internet in your site? Who can have access? What they can have access to? What they can use it for. Passwords etc
 - e. Verify legal access to electricity.
 - f. Who ensures the safety?
 - i. physical

I have the internet now what?

Rules for use until business is created...

Do I tell people in my community about it?

Promote its use...

Can people use it for video?

Sustaining the Project

Sustaining

- i.
- i. What can you use the internet for now.
- iii. What can you ise the internet for in the future.
- iv. How to decide the type of internet use you want.
- v. Can data sustain the internet services.
- * Timeline representing the process around non-profit/for-profit
 - Internet is for not-for profit

Month 0