

### 6. INTERNET OF THINGS (IOT)



30 mins



#### OUTCOME:

Learn what the internet of things is and how it affects our lives.



#### MATERIALS:

Paper and pencils



#### BE PREPARED:

You might need to provide some examples for each topic to participants.  
See Tool below.

### WHAT HAPPENS:

The Internet of Things (IoT) refers to electronic devices that are able to connect to the internet and share data with other internet enabled devices without human intervention.

Connected devices include laptops, smartphones, and computers, but it could be anything from a person's blood pressure monitor, a Bluetooth connected door lock, to a garage door opener that has an IP address and can communicate over a network.

Try this to recreate how IoT works:

1. Split into groups of around five.
2. Each person in the group names a smart device that can collect/share data in the home environment (thus creating a connectivity web of IoT at home). For example: smartphone, smart fridge, smart locks etc.
3. Each group thinks how their devices connect and tries to recreate their connectivity web for the rest of the group without using words. For example, one member may be acting as the mobile user, another might respond as the fridge and another can make a locking sound.
4. The other groups try to understand what the objects represented are.

Can you think of any other areas where the IoT can be used? Some examples include: transportation, cities, environment, agriculture, fashion, healthcare, retail, everyday gadgets.



#### FINALLY DISCUSS:

- How can IoT improve our everyday lives? What are some things that are simplified?
- Are there any security or privacy concerns with IoT? What might be done with data that is collected and/or shared through these connected devices?
- How can IoT contribute to or take away from people's safety, including gender-based violence, domestic violence, or abuse against vulnerable people.

### 6. INTERNET OF THINGS (IOT) (CONTINUED)



#### SEARCH RESULTS

Here are a few points to facilitate discussion during this activity:

POTENTIAL ADVANTAGES OF IOT:	POTENTIAL DISADVANTAGES OF IOT:
<ul style="list-style-type: none"><li>● <b>Access to information:</b> You can easily access data and information from far away, in real time. This happens because of the network of devices. Information about science, biodiversity, animals, the environment etc, can be used to bring positive change for society and our planet.</li><li>● <b>Better communication:</b> over a network of interconnected devices communication becomes more efficient. In cases where machines have to communicate with each other, the results are faster and better.</li><li>● <b>Cost-effective:</b> Better and easier communication between devices helps people in daily tasks and can save time and money.</li><li>● <b>Automation:</b> managing everyday tasks without human intervention helps businesses enhance the quality of services and reduce the level of human intervention.</li></ul>	<ul style="list-style-type: none"><li>● <b>Privacy &amp; security:</b> Each and every device that we use are connected via the internet. The risk of sharing data we might not want to becomes higher. Sharing confidential information could be hacked by third parties easily.</li><li>● <b>Fewer jobs:</b> Automation reduces the need for human labour.</li><li>● <b>Dependability:</b> Technology is dominating our lifestyle, and making us more dependable to it. If the system collapses, there are high risks involved. Trying to disconnect from the IoT in the future will be increasingly difficult for those who will want to.</li><li>● <b>Digital divides:</b> The gap between those who have access to the technology and those who do not will deepen</li></ul>

IoT can have an impact on gender-based domestic violence and abuse: 'smart' meters, locks, and cameras could foster domestic violence and increase victims' risk further. It is important for IoT developers to consider the potential misuse of their services and devices, while guidance and help for victims from shelters or police should be made available.



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