

# **Week 2 activities: Projects around the world and use of technology to solve a community problem**

**Group 3**  
**COS100025.1**

We've identified 10 inspiring projects tackling local challenges and creating positive change not only for the indigenous but also to raise the awareness for the global people.

## **1. Internet Saathi(India)**

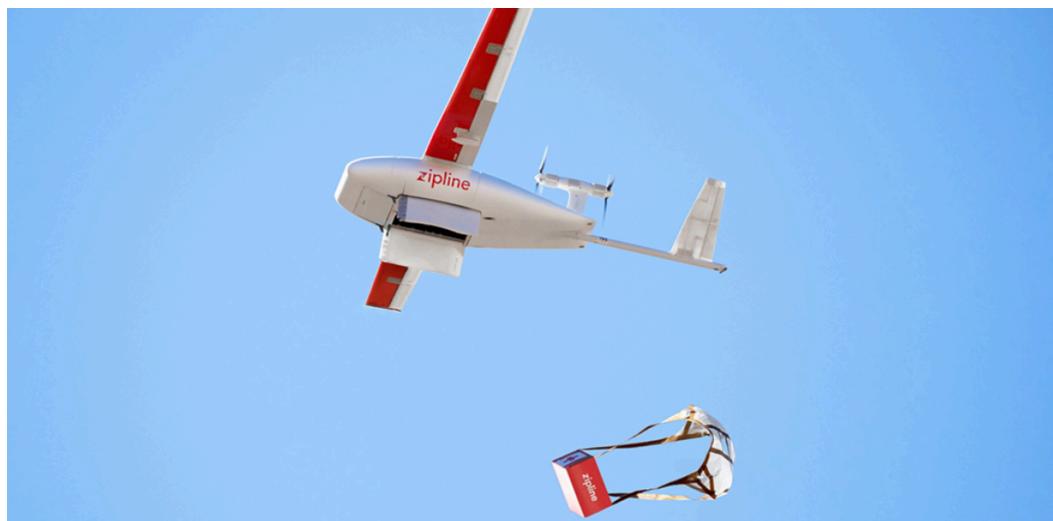
Indian women especially who live in rural areas lack knowledge about using the internet. This leads to a digital literacy gap in rural areas which makes it hard to approach useful information like politics news or the increase in goods price. Hence all of this information is useful and this is their right to know all of it so a group of rural women form a community network called Tata Trusts. This community partnership with google to train rural women on how to use the internet, which they then teach to their communities, fostering digital inclusion. From original community website,

they said that twenty millions women have imparted digital literacy.



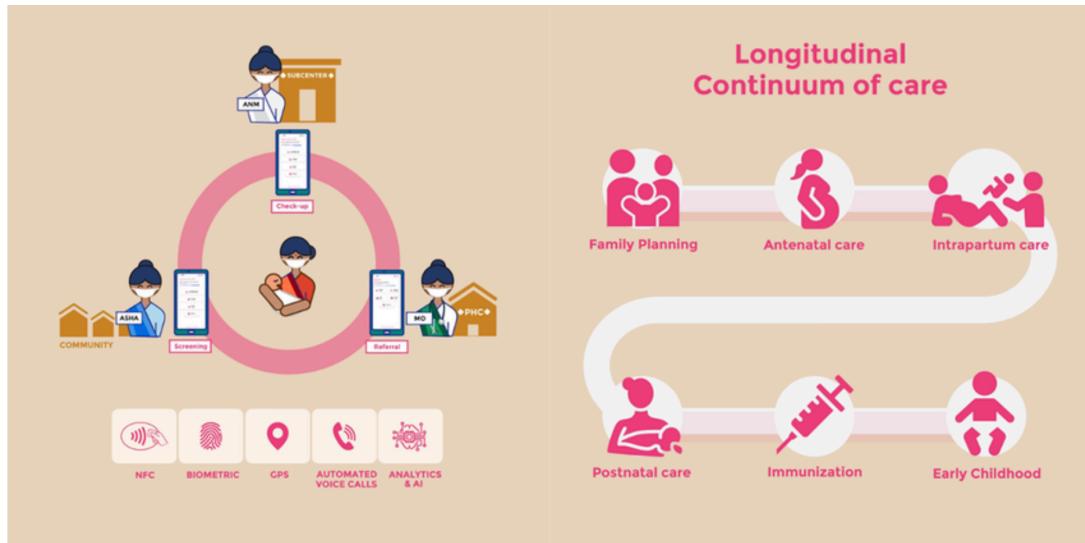
## 2. Zipline (Rwanda)

Rwanda is a pristine country located in the Great Rift Valley of Central Africa, where the African Great Lakes region and Southeast Africa converge. This country is a tourist attraction with its forests and majestic mountains. However this geographical feature hampers the access for medical and food supplies in remote areas. A company called Zipline has developed a drone delivery service that transports blood and medical supplies to remote clinics, reducing delivery times from hours to minutes. They claimed that as of September 2021, more than 75 percent of blood deliveries in Rwanda outside of Kigali use Zipline drones.



## 3. Khushi Baby (India)

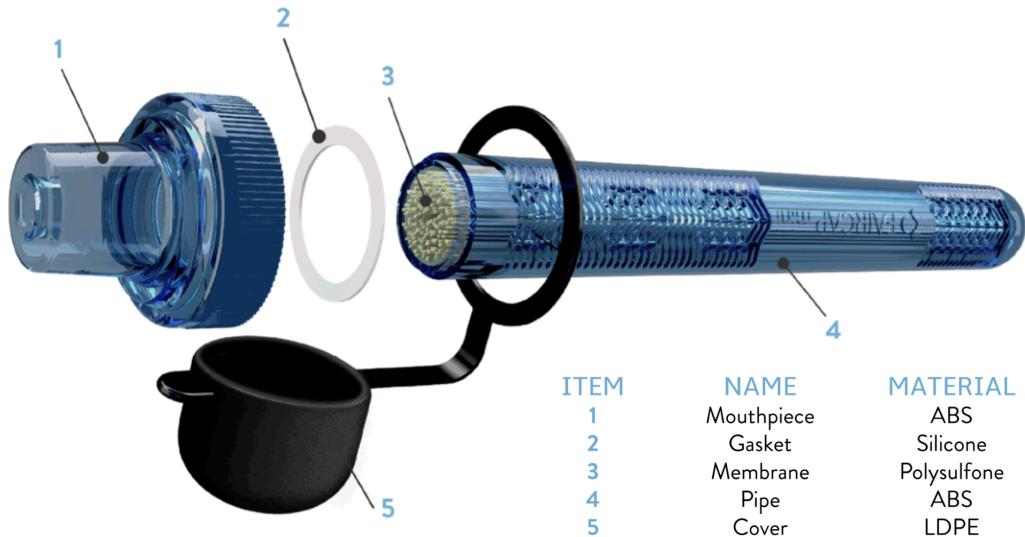
With a population boom in India which led to an ineffective newborn/child health record in the old health care system. Khushi Baby provided a wearable necklace with an NFC chip that stores medical information, allowing health workers to quickly access patient records using a mobile app.



#### 4. FairCap (Peru)

Many communities in Peru, particularly in rural and remote areas, face significant challenges in accessing safe drinking water. Contaminated water sources can lead to severe health issues, including waterborne diseases. FairCap developed a low-cost, portable water filter designed to purify contaminated water, making it safe to drink. This solution is particularly beneficial for communities with limited access to advanced water treatment

facilities.



## 5. Solar Sister (Sub-Saharan Africa)

Solar Sister is an innovative social enterprise that helps women in Sub-Saharan Africa by giving them an opportunity to become entrepreneurs who sell solar-powered products. This solution solves the dual challenges of energy poverty and gender inequality, particularly in remote and rural areas of Africa.



## 6. Smart Bicycles (Netherlands)

In Amsterdam, the problem of urban traffic congestion and pollution prompted the development of a smart bicycle system. This project involves integrating bicycles with a mobile app, allowing residents to easily locate and use bikes. The technology encourages more people to opt for cycling instead of driving, thereby reducing traffic congestion and lowering pollution levels. The initiative is highly suitable for Amsterdam, a city known for its biking culture, providing a sustainable and efficient transportation solution that aligns with the community's existing habits and infrastructure.



## 7. Autonomous Electric Buses (USA)

Several cities in the USA are addressing inefficient public transportation and pollution through the pilot deployment of autonomous electric buses. These buses utilize advanced sensors and navigation systems to operate without drivers, offering a cleaner and more efficient public transport option. The technology significantly reduces emissions compared to traditional diesel

buses and enhances service reliability. This project is suitable for urban communities seeking to modernize their public transport systems and reduce their environmental impact, providing a scalable solution for widespread adoption.



## 8. Computadores para Educar (Colombia)

The Computadores para Educar program in Colombia tackles the lack of educational devices and technology in underprivileged areas. By providing computers and training teachers in technology use, the project aims to enhance education quality. This initiative helps bridge the digital divide, enabling students to access modern educational tools and resources. The technology is highly suitable for the targeted communities, offering sustainable improvements in educational outcomes and preparing students for a more technologically driven world.



## 9. Pepper (Japan)

The need for senior care is rising in Japan due to the country's aging population. "Pepper" is the name of the communication assistance robot that Softbank Robotics created. Pepper is a robot that can communicate with people using gestures, voice, and facial recognition. Pepper is employed as a comforting companion to help the elderly feel less alone and happier. In order to keep your health, pepper can also remind you to take your medication, drink water, and engage in mild exercise. To keep track of senior citizens' health information, Pepper can also establish connections with other mobile apps and health monitoring gadgets. In addition to being a helpful tool for assisting the elderly with their everyday duties, Pepper is also a delightful companion for communication and entertainment, improving their quality of life and fostering a positive environment.



#### 10. InaTEWS (Indonesia)

In response to the risk of tsunamis, Indonesia has implemented a Indonesia Tsunami Early Warning System (InaTEWS) using underwater sensors and buoys. This system detects tsunami activity and sends early warnings to coastal communities, enabling timely evacuations. The technology helps mitigate the devastating impact of tsunamis by providing crucial lead time for residents to move to safer areas. Given Indonesia's vulnerability to tsunamis due to its geographic location, this warning system is an essential and suitable solution for protecting its coastal populations.

