What is RxBox?

RxBox is a multi-component program (biomedical device, electronic medical record system and telemedicine training) designed to provide better access to life-saving health care services in isolated and disadvantaged communities nationwide. It is one among the Department of Science and Technology's efforts for a **"Smarter Philippines"**. It is also an ICT (Information and Communications Technology) innovation designed to support the Department of Health's call for *KalusugangPangakalahatan* or Universal Health Care.

What can RxBox do?

- Captures medical signals through built-in medical sensors, stores data in an electronic medical record system (**Community Health Information Tracking System –CHITS**), and transmits health information via internet to a clinical specialist in the Philippine General Hospital.
- Catalyzes improvement in the local referral system by facilitating teleconsultations (audio-video conferences) within the **National Telehealth Service Program.**
- Reduces the overall cost of healthcare by enabling health workers to diagnose, monitor and treat patients within the rural health facility, thanks to medical sensors inside the box!

1. **Blood pressure monitor** – measures the patient's blood pressure to detect cardiovascular (heart and blood vessels) problems especially hypertension, a disease which can also worsen other chronic lifestyle disease conditions.

2. **Pulse oximeter** –measures the level of oxygen in the patient's blood and can help detect lung and cardiovascular problems – leading causes of death among Filipinos.

3. **Electrocardiogram (ECG)** – monitors the heart's movement to pump blood throughout the body, helpful for those with acute and chronic heart problems, including pregnant mothers with cardiovascular problems.

4. **Fetal heart monitor** – measures the baby's heart rate while in the womb, helping detect fetal distress at critical times of the pregnancy and delivery.

5. **Maternal tocometer** –measures the strength of a mother's uterine contractions during labor and delivery, enabling early detection of distress to the mother and/or the baby.

6. **Temperature sensor** – measures a patient's body temperature. It can help detect fever, a common medical sign of infection and other disease conditions.