High-Impact Technology and Engineering

High-tech engineering was once accessible only to developed countries. Now advances like wireless phones and improved sanitation have transformed life in developing countries, too. Whether looking to improve cutting-edge science, boost rural communication, or almost anything else, **the high-impact potential of engineering and technology offers promise for communities of all types**.

Photo Credit: Cybertracker

Global Information Network

There are nearly 5 billion unique cellular phone subscriptions worldwide, and more mobile connections than there are people on the planet. Some users have more than one cellular phone subscription, bringing the total number of subscriptions to more than 7 billion. **To the developing world, this is a life-changing transformation.** Communities now have access to information like never before. For example, rural herders like these now use satellite phones with GPS to keep track of their livestock.

Globally, an increasing number of households – nearly half – now have Internet access at home (compared to just 18 percent in 2005). That still leaves four billion people in the developing world offline.

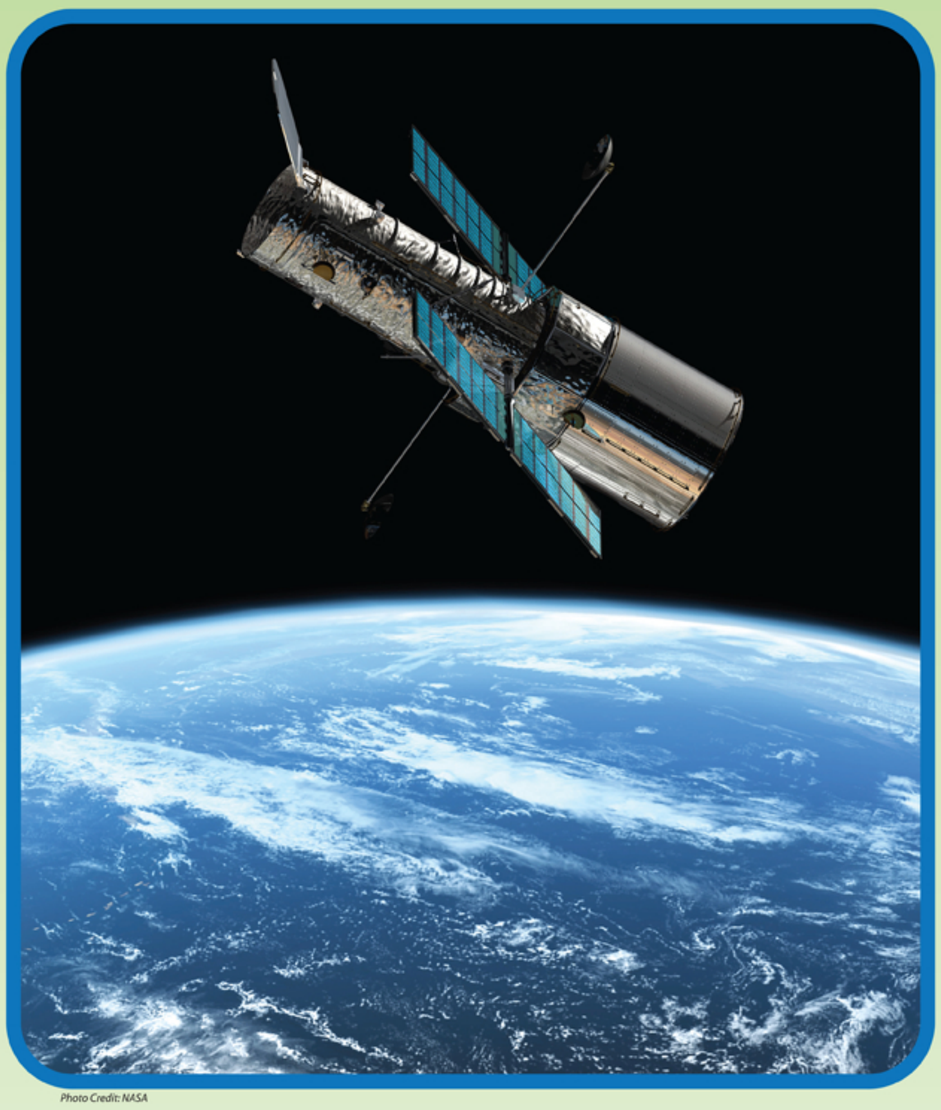

Photo Credit: NASA

High-Tech Hubble

One of the best-known pieces of high-tech engineering orbits 380 miles above Earth: The Hubble Space Telescope. Hubble sends back stunning pictures of space, and has allowed scientists to study things they could never see from Earth. With Hubble, scientists watched the birth of a star, and have confirmed the existence of black holes.

Photo Credit: NASA/ESA

Photo Credit: NASA

Say Cheese! Hubble star mapping technology is tracking endangered animals, aiding in the protection of our home planet.