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A Hands-on Experience with Wireless Sensor Networks

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It is a commonplace that the Internet is changing our lives. It is changing the way we learn and also the way we contribute to our communities and organize ourselves. In this course we will explore the bottom-up creation of a Wireless Sensor Network (WSN) that can be used to gather and share data. This gathering and sharing of data empowers the citizenship to monitor and interact with the environment.

We are interested in bottom-up models. We use the terms peer-to-peer, do-it-ourselves and bottom-up interchangeably. The idea that we want to transmit with bottom-up is that the participant takes an active role and contributes to the community rather than being a mere consumer. For this reason, we teach the first simple steps to build, configure and program a sensor that uploads the gathered data to the Internet to make it publicly available to those that are interested in it.