It is the systematic sampling of air, water, soil, and biota in order to observe and study the environment, as well as to derive knowledge from this process. It is critical to know whether the quality of our environment is getting better or worse, to many decision makers, many government agencies like public health dept, municipal planners, emergency disaster management cell, wind power generating industries etc.

Various quality monitoring systems are:

- Air Quality Monitoring
- Soil Monitoring
- Water Quality Monitoring

With the use of IoT gateway in remote surveillance, many data feeds can come into a single base station for storing and analysis. It also enable trigger levels or alert levels to be set for individual monitoring sites and/or parameters so that immediate action can be initiated if a trigger level is exceeded. The use of remote surveillance also allows for the installation of very discrete monitoring equipment which can often be buried, camouflaged or tethered at depth in a lake or river with only a short whip aerial protruding. Use of such equipment tends to reduce vandalismand theft when monitoring in locations easily accessible by the public.
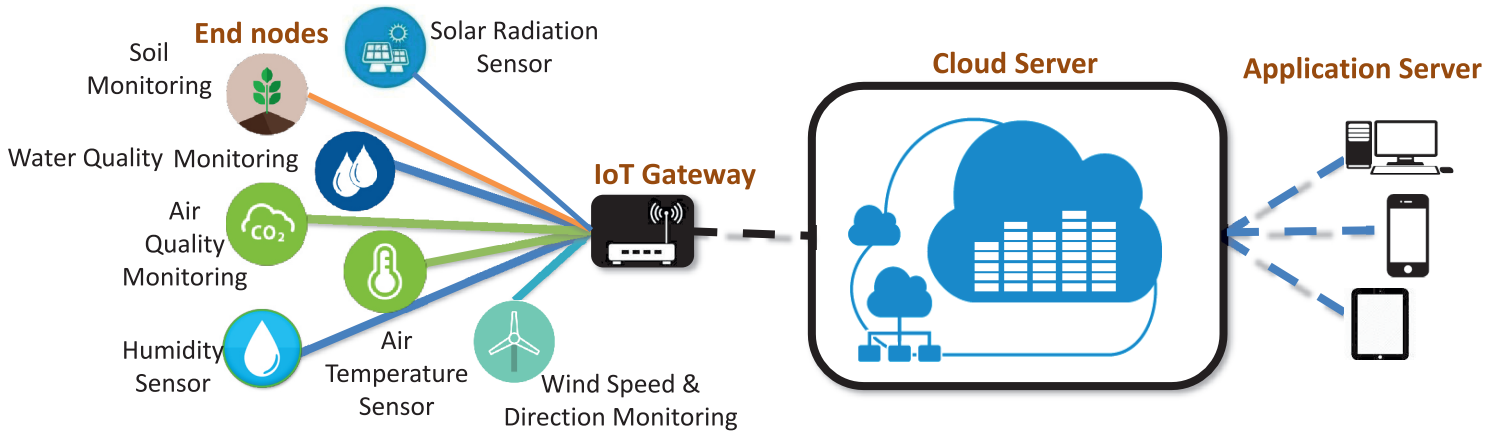
OUR OFFERING

Digital Reach provides complete IoT gateway / controllers from data acquisition, transmission (3G/LTE/Wi-Fi) and computing in order to help our customers use intelligent systems using our extensive resources. Customers can focus on their smart applications with minimal system integration effort. Our solution offerings & services are fully compatible with most of the applications and provide all the components customers need for building an intelligent system.

FEATURES

- Air Pollution Monitoring
- Upper Air Network: Provides a profile of the upper atmosphere, including temperature, humidity, pressure, and winds. Contributes to weather forecasts.
- Fresh Water Quality Monitoring: Monitors the status of water quality in rivers / lakes / water reservoirs
- Drinking Water Monitoring System: Measures the presence and levels of a variety of contaminants in raw and treated drinking water at treatment plants.
- Urban air quality
- Protection of public water supplies
- Weather forecasting
- Hazardous, non-hazardous and radioactive waste management
- Natural resources protection and management
- Global climate change Urban air quality

Environmental Monitoring

End nodes

Soil Monitoring

Solar Radiation Sensor

Water Quality Monitoring

Air Quality Monitoring

Humidity Sensor

Air Temperature Sensor

Wind Speed & Direction Monitoring

IoT Gateway

Cloud Server

Application Server

BENEFITS

➲ This type of predictive tools help to:

- Allocating resources efficiently.
- Assessing the environmental effects of past and present projects
- Evaluating compliance with environmental regulations
- Promptly identifying problems
- Complementing scientific research

ABOUT US

Digital Reach is an IoT based solution company. We are experts in combining technical knowledge and insights from our extensive experience in the field to create Internet of Things (IoT) solutions, with our strong focus on innovation and integration with customer domain expertise. We create monitoring and control products and solutions that improve processes and services for our customers.

With our expertise is in embedded hardware development, embedded software development, system integration and project execution, in everything we do, we apply our values of respect and honesty through a commitment to teamwork and a high degree of responsibility to our customers, not only to satisfy but also to exceed our customer's expectations.

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