MONITOR EUROPE'S ENVIRONMENT

→ What was once very complicated and inaccessible is now made available for people to understand and provide feedback through their phones and mobile devices.

SOCIAL

EOE lets individuals track water and air quality before deciding, for instance, which beach to visit or city to move to.

ENVIRONMENTAL

Information precedes action. EOE helps build a solid base for individual as well as collective environmental action.

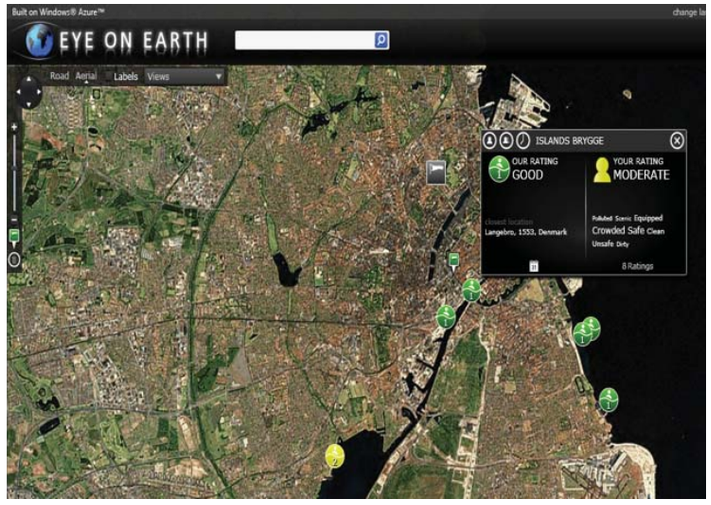
THE SOLUTION

! Recent technology innovations have accelerated the democratization of the Earth's data for citizens in Europe and around the world. The Eye On Earth (EOE) platform was created by the European Environment Agency, Esri, and Microsoft. This innovative, easy-to-use, and open Web tool allows users to compare, share, and rate air and water quality across Europe.

EOE retrieves data from over 20,000 monitoring points across Europe, presenting quality ratings across 32 countries in 24 languages. It uses a 'traffic light'-style evaluation of air and water quality based on traditional monitoring methods: this is supported by ratings reflecting the experiences of local people in the area. It provides accurate and up-to-date information on environmental and cleanliness indicators across Europe, and makes it available to anyone who has Internet access.

WHY A SUSTAINIA100 SOLUTION?

? Pollution released into the atmosphere and bathing water cleanliness can be significant public health issues. EOE is open to any person to build similar sites for free, using different comparative data sets. Combining environmental data and mapping technology enables people to see where changes are happening, and take appropriate actions to help ensure a more sustainable future.



www.network.eyeonearth.org

STUDENT-DRIVEN TECHNOLOGY TRANSFER

→ Engineering students build wind turbines in small communities in Nicaragua. Not only that, they also teach science and technology, and inspire students to develop renewable technologies.

SOCIAL

An integral part of the project is educational outreach in science, technology, engineering, and mathematics.

ENVIRONMENTAL

Providing renewable energy to rural areas in developing countries.

THE SOLUTION

! After realizing the potential of renewable energy, and the fact that one-quarter of the Earth's population live without electricity, a group of young engineering students at the University of Minnesota decided to find new solutions. In 2009, they started in their professor's basement. Soon, the group of "Innovative Engineers" expanded. By 2012, it has 150 members working passionately in the developing world to develop imaginative and creative ways to design and implement renewable energy technologies.

Their newest project, 5-5-1, consists of designing and developing five wind turbines in five nearby villages to create one renewable energy community. All aspects of 5-5-1 are shaped around one central idea: to understand how the knowledge behind a simple low-cost wind turbine design can be successfully transferred across cultural, economic, and language boundaries.

WHY A SUSTAINIA100 SOLUTION?

? For many citizens in developing countries, electric power is not an option. This project not only solves a problem, it also educates people to make use of renewable energy, and to find new ways to utilize simple technology. It is the group's philosophy to make a positive impact through education and outreach.

www.cse.umn.edu