

# Netherlands

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## **Organization and Number of Staff:**

GLOBE Nederland, 4

## **Funding by:**

Grants, school membership, government programs

## **Cooperating Organizations/Individuals:**

RIVM, Wageningen University & Research, KNMI, Utrecht University, province of Utrecht, province of Noord-Holland

## **GLOBE Schools (what types, how many):**

Secondary schools, ±90

## **GLOBE Areas you and schools focus on:**

Air quality, (biological) water quality, GrowApp, research skills

## **Number of Schools Reporting Data over Past Year:**

11 on GLOBE.gov, but we work mainly with our own system for: air quality, water invertebrates and GrowApp

## **Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):**

### **1. Education**

We developed learning materials for our **new project “Sniffer Bike”** where students measure air quality with a sensor on their bike. In the province of Utrecht we finished one pilot with 4 schools, and have expanded the pilot to 12 schools in the school year 2022-2023. In the province of Noord-Holland we started a pilot with 6 schools and in the municipality of Rijswijk with 2 schools.

Organization of a **national Science Fair** for students at the Wageningen University. Seven teams of upper forms students presented their GLOBE research for a jury of scientists. The winning team won a trip to Czech Republic for the GLOBE games.

We are working on **education materials for the following new projects:**

- microplastics project in the Netherlands, together with Hellen Parkhurst secondary school and the Plastic Soup Foundation. We received funding from the U.S. Embassy to develop lesson materials for the microplastics protocol developed by GLOBE Italy.
- NO<sub>2</sub> measuring with Palmes tubes

### **2. Science**

We work together with scientists for the following projects:

- GrowApp: Arnold van Vliet, Wageningen University
- NO<sub>2</sub>: National Meteorological Institute (KNMI)
- Particulate Matter: National Institute for Public Health and the Environment (RIVM)
- Plastic Soup: University of Amsterdam
- Water invertebrates: Wageningen University, who published a scientific article

### **3. Community**

Organisation of a **national Science Symposium for students at the Wageningen University**.

Participation in the Regional Meeting in Croatia.

Several online meetings with GLOBE school coordinators to help implement GLOBE at schools.

### **4. Technology**

Implementation of a **new platform [www.knowyourair.net](http://www.knowyourair.net) for the Snifferbike**, a mobile PM sensor.

### **5. Communications**

Launch of the **new website [www.GLOBENederland.nl](http://www.GLOBENederland.nl)**

Participation in multiple teacher conferences, specifically for Chemistry, Biology and Geography teachers.

## **Plans and Ideas for Next Year:**

Roll-out of the microplastics project in spring 2023

Roll-out of a NO<sub>x</sub> project using Palmes diffusion tubes together with the RIVM and KNMI

Roll out the Sniffer Bike to schools across the country