



NUTPRINT

Nutrient footprint to European coastal waters

What are the challenges

NUTPRINT is one of the applications produced within the EU financed project SWITCH-ON - Sharing Water-related Information to Tackle Changes in the Hydrosphere – for Operational Needs. Within the project, water-related open data are used and repurposed to address actual water concerns within EUROPE.

NUTPRINT aims to visualize the nutrient footprint on European coastal waters from anywhere within the European continent. The results from the product are a result from the European open-source hydrological model E-HYPE (<http://e-hypeweb.smhi.se/>)

What does NUTPRINT do?

Nutrient loads and retention through the hydrological network are calculated using E-HYPE. Other open data used are population density (GWPv3), and North Sea model output (Deltares). The application calculates and visualizes for any area (subbasin, 37 000 in Europe)

- The route of water from the area to sea
- The total load of nutrients from the area in kg/y and in kg/person/y
- The retention of nutrients on its way to the coast
- Sources of nutrients in the area
- Statistics of area
- Status of recipient coastal water

Furthermore, NUTPRINT provides links to background information and general European legislation coupled to Eutrophication and water management.

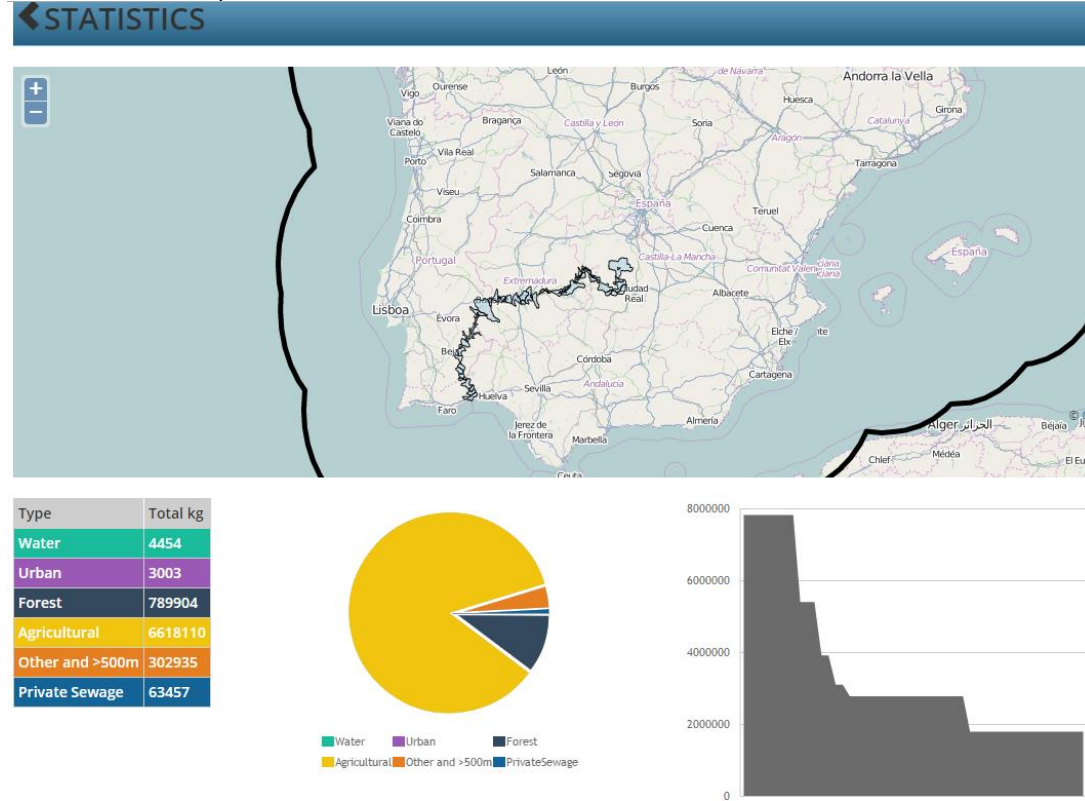
Who could use NUTPRINT?

NUTPRINT is a tool that could be used in education, public consultation and to raise awareness for eutrophication problems in coastal waters. It can be used by schools/universities, environmental and management organisations as a tool to support understanding of the challenges of eutrophication-related issues.

NUTPRINT

a test version will come available during 2015

Screenshots development version:



More information can be found here:

on the project

<http://www.water-switch-on.eu/>

on the application

<https://www.youtube.com/v/1-5C6z88erE&vq=1080&autoplay=1>

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Deltares is an independent institute for applied research in the field of water, subsurface and infrastructure. Throughout the world, we work on smart solutions, innovations and applications for people, environment and society. Deltares is based in Delft and Utrecht.