Wireless network for monitoring surface waters
and alarming due to chemical water pollution

POLAND

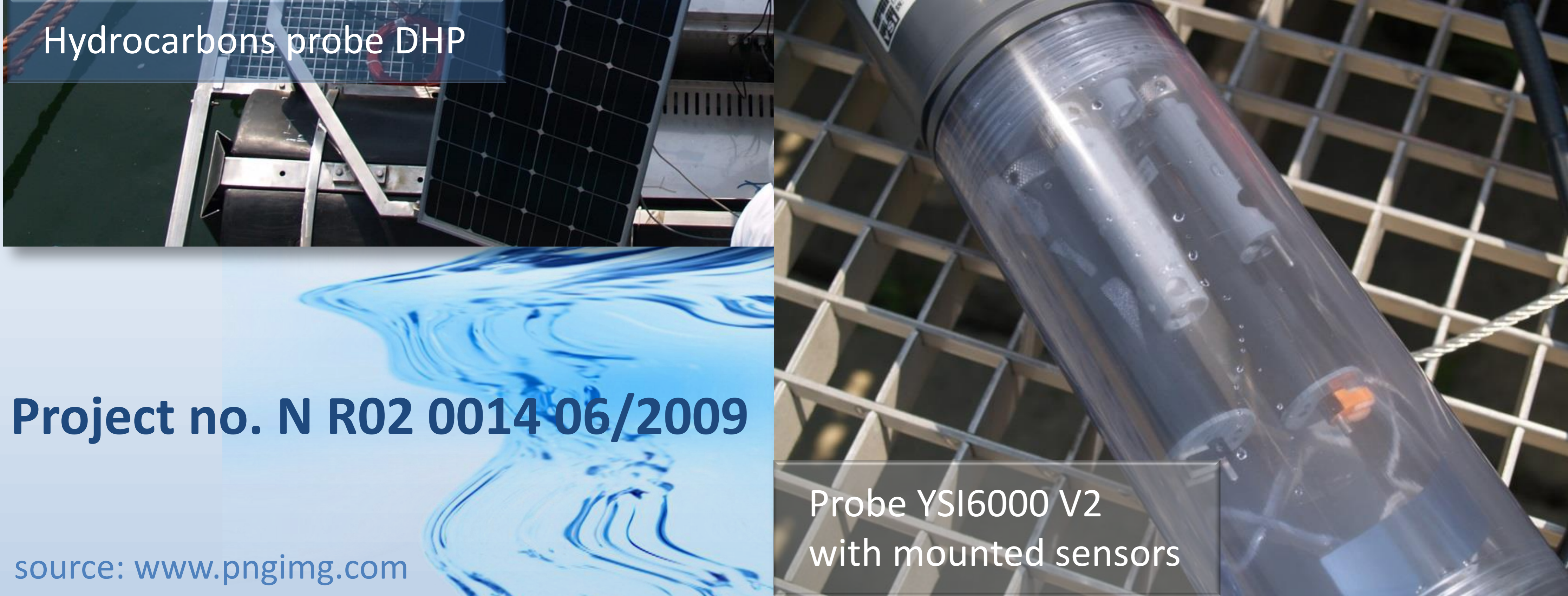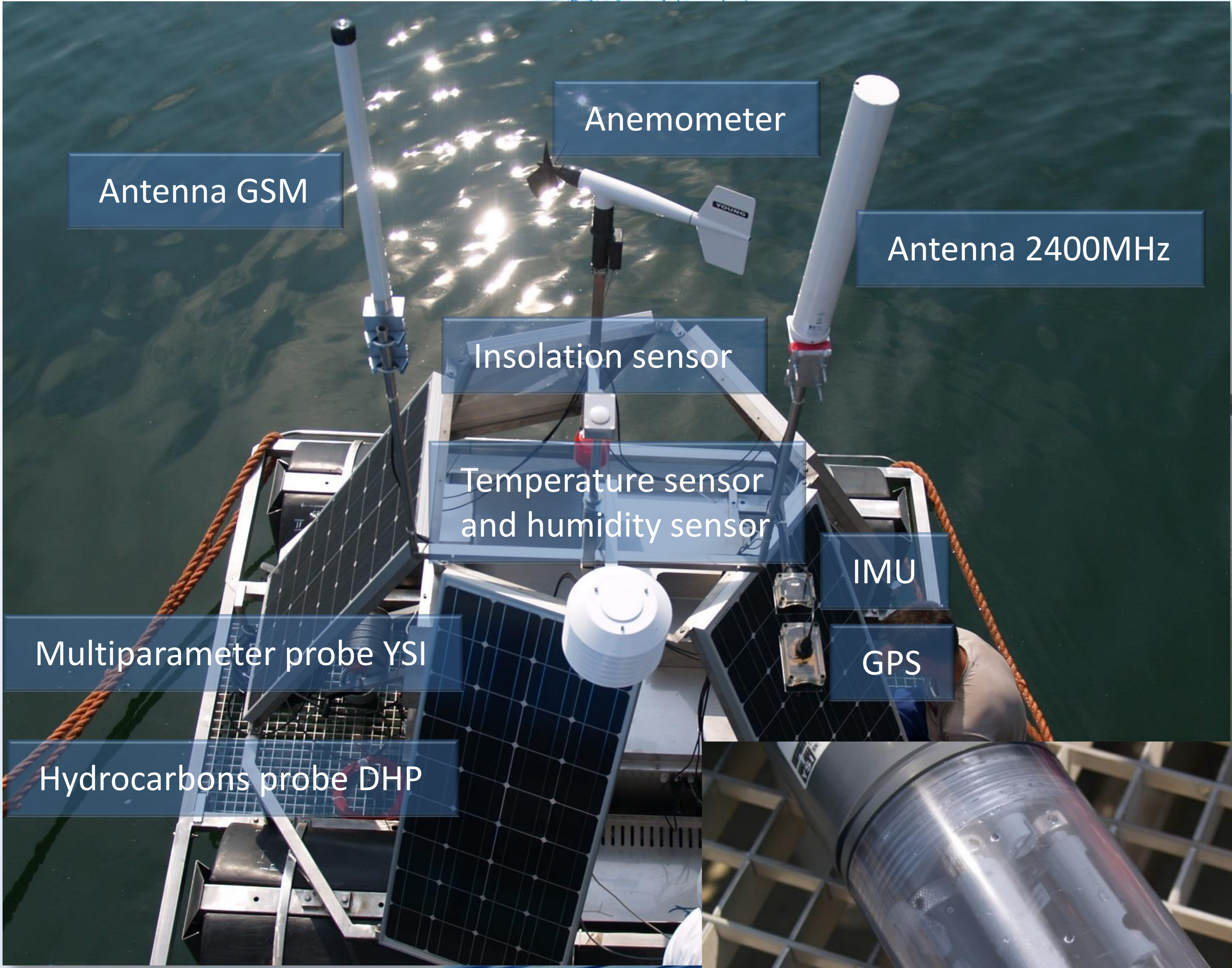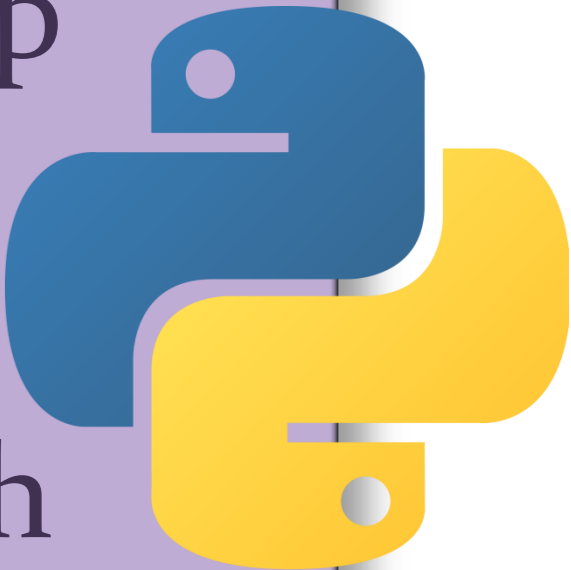artificial reservoir in Dobczyce, Poland,
source: wrotamałopolski.pl

Monitoring:
- ✓ Opacity
- ✓ Temperature
- ✓ Ammonia
- ✓ pH
- ✓ Conductivity
- ✓ UV absorbtion
- ✓ Flow speed at the surface and at the fixed depths
- ✓ Wind (direction and speed)
- ✓ Hydrocarbons

Web access to data

Stacja | Parametr | Od | Do | Pobierz
Stacja mobilna | pH | 2012-09-25 02:57 | 2012-09-26 02:57 | Excel / Linux

Dedicated server:
- ❖ Shares data through http
- ❖ Gathers and stores data sent by MOXA
- ❖ Application created with Python

Industrial computer MOXA W345
- ❖ System: Linux
- ❖ Communicates with measurement devices using 4 serial ports
- ❖ Periodicaly reads the measurements of all connected devices and makes them available for client application using XML-RPC protocol

ThinkCore W345
MOXA

Anemometer

Antenna GSM

Antenna 2400MHz

Insolation sensor

Temperature sensor and humidity sensor

IMU

GPS

Multiparameter probe YSI

Hydrocarbons probe DHP

Mobile Automated Analytical Station

Probe YSI6000 V2 with mounted sensors

Project no. N R02 0014 06/2009

source: www.pngimg.com

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