2013 Esri Europe, Middle East and Africa User Conference

October 23-25, 2013 | Munich, Germany

GIS for management of pesticides monitoring

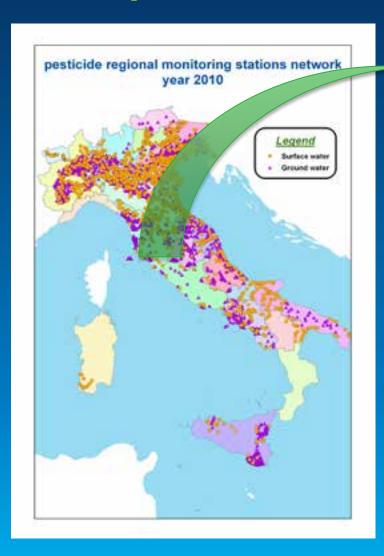
Stefano Ursino

Institute for Environmental Protection and Research of Italy (ISPRA)

pesticides are being monitored in inland water



pesticides monitoring network



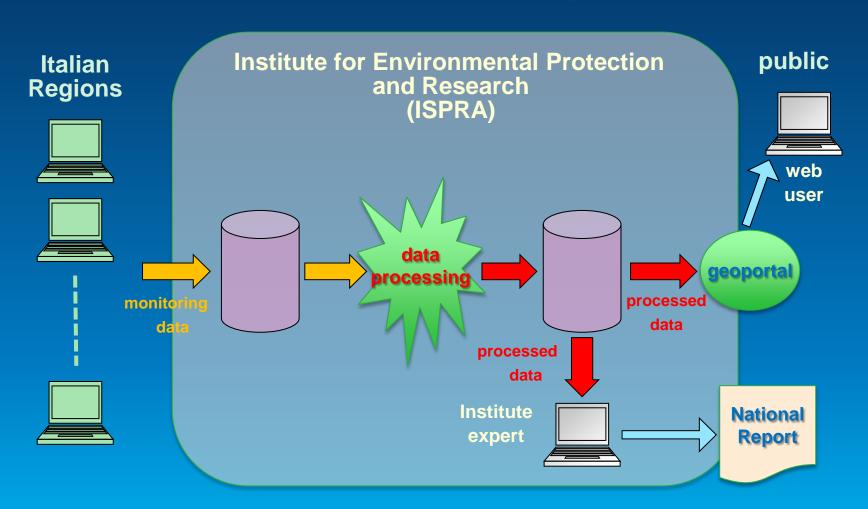
monitoring data sent every year pesticides measures of monthly samples



Agency

pesticides monitoring information system

data flow and processing



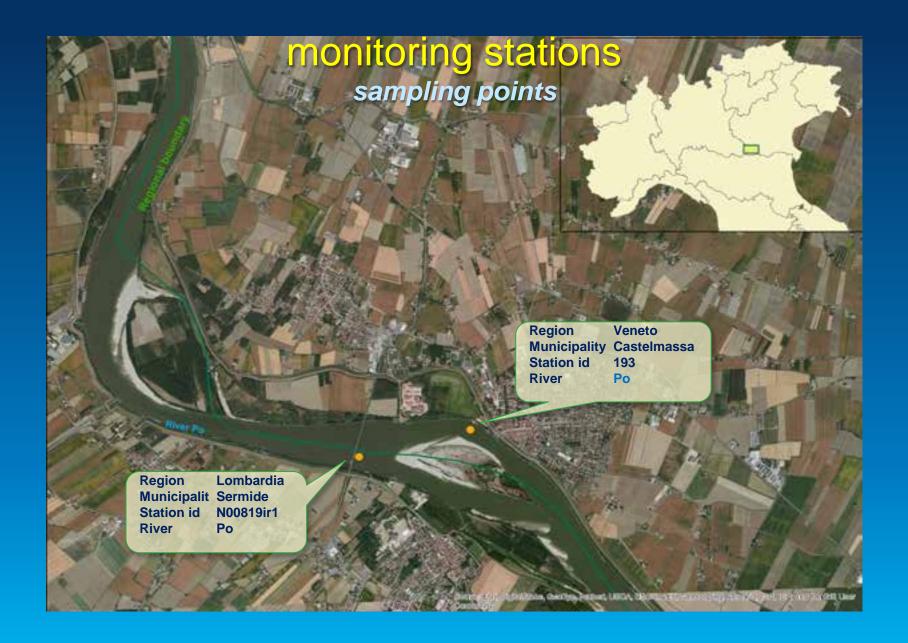
monitoring network



1237 surface water stations



2314 ground water stations



2010 monitoring results

statistical results

surface water

sampling points

total 1.295

with substances found 714 (55%)

substances

searched 289

found 129 (45%) measures 357.405

ground water

sampling points

total 2.324

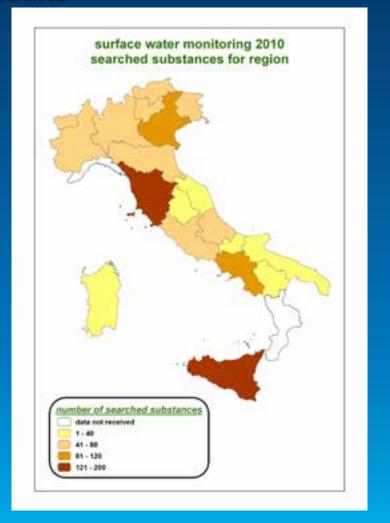
with substances found 656 (28%)

substances

searched 338

found 128 (38%)

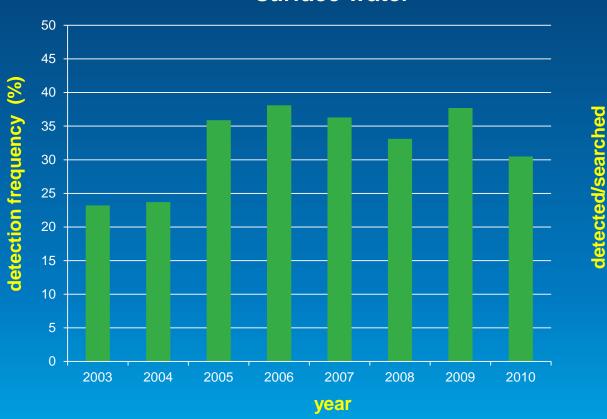
measures 255.539



2010 monitoring results

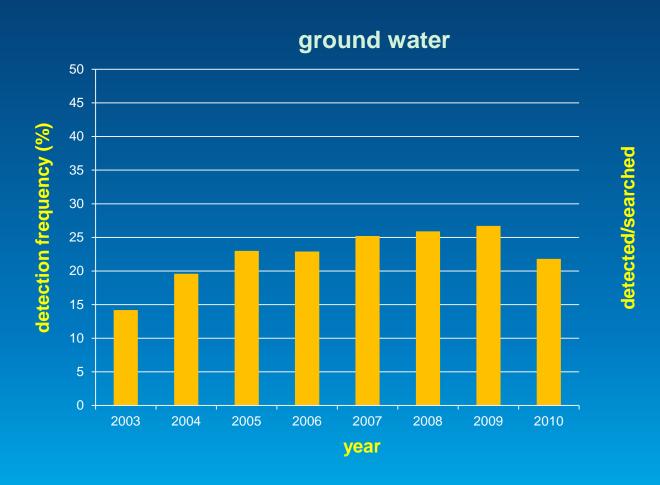
founding substance trend

surface water



2010 monitoring results

founding substance trend



pesticides environmental pollution



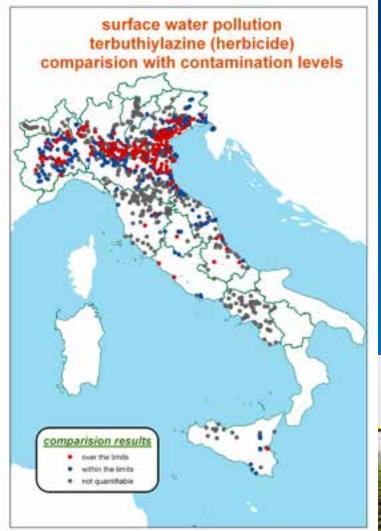
contamination levels

single measure ≤ 0,1 µg/l

total pesticides ≤ 0,5 μg/l



pesticides environmental pollution



contamination levels
single measure ≤ 0,1 µg/l



Now we are going to....

§collecting and elaborating monitoring data 2011 and 2012 (already sent us by many regions) and produce the National Report, the firsth month of 2014

§finishing to develope the Pesticide Monitoring Information System expecially the geoportal since the end of 2013



emanuela.pace@isprambiente.it