



# European regulatory network on pesticide groundwater monitoring

*Presentation prepared for the*  
**21<sup>st</sup> International Fresenius AGRO Conference**  
**Behaviour of Pesticides in Air, Soil and Water**



# Authors:

Anne Louise Gimsing, Danish EPA, DK



Arnaud Boivin, ANSES, FR



Wolfram Koenig, UBA, DE



Anton Poot, Ctgb, NL



Andreas Schwen, AGES, AT



Igor Kondzielski – IOŚ-PIB, Warsaw, PL  
(*speaker*)



# PLAN OF THE PRESENTATION:

**PAST:** Why the workgroup was created (aims and rationale);

**PRESENT:** current activities (1<sup>st</sup> meeting, interim period, 2<sup>nd</sup> meeting);

**FUTURE:** activities after the 2<sup>nd</sup> meeting (towards the 3<sup>rd</sup> meeting and next);

**AND BEYOND:** the final document (guidelines), information-exchange platform, further activities after closing the Workgroup;



## **AIM:**

**„to exchange pesticide groundwater monitoring data and frequent updates about the focus of national monitoring, and to assist each other in the interpretation of the data.”**

## **RATIONALE:**

**1) Groundwater monitoring data should be included in the assessment of leaching risk of pesticides and their metabolites.**





**IOŚ-PIB**  
INSTYTUT OCHRONY ŚRODOWISKA  
PAŃSTWOWY INSTYTUT BADAWCZY

## **RATIONALE:**

**2) Monitoring data is generated in most European countries, but their use for leaching risk assessment during pesticide authorization is sometimes difficult due to the following reasons:**

- i. the data is not often publically available or available in an aggregated form in a report;**
- ii. most often it is available in the national language of the origin country only, which makes it hard for other countries to use it;**
- iii. the interpretation of groundwater monitoring data requires detailed knowledge of the local, geological, hydrological and climatic conditions, and also knowledge about the crops and the use practice for pesticides;**



## **AUDIENCE:**

**AT PRESENT:** regulators representing authorities evaluating PPP (MS, EFSA, COM);

**NEXT STAGE:** risk managers and people from governmental institutions involved in monitoring activities (time of the action still under consideration);

**Involvement of the Industry/Notifiers not foreseen at present.**



# FIRST ACTIONS:

- 1) Initiation of the Workgroup, analysis of the problem, identifications of the goals;**
- 2) First presentation – poster at SETAC Europe 28<sup>th</sup> Annual Meeting, Rome 2018;**
- 3) Organisation of the 1<sup>st</sup> meeting of the Workgroup;**





# First meeting – Copenhagen

## 08 – 09 October 2018

## **DISCUSSED SUBJECTS:**

- 1) Presentation of the Workgroup, its aims and expectations**
- 2) Determination of the present state of art.**
- 3) Identification of the problems**
- 4) Discussion of the possible solutions and ways to achieve them**
- 5) Technicalities**



# PARTICIPANTS

In person (1 representative per country):

Austria, Czech Republic, Denmark, Estonia, France, Germany, Lithuania, The Netherlands, Norway, Poland, Slovenia, Switzerland, United Kingdom

Expressed interest (but no physical participation):

Belgium, Croatia, Finland, Ireland, Italy, Greece (possibly)

No response and contact sought:

Bulgaria, Hungary, Latvia, Malta, Portugal, Romania, Slovakia  
(Cyprus?)



# **SOME RESOLUTIONS:**

- Demark to chair the Workgroup,
- At present Workgroup is open for persticide risk assessors (option for later period – to invite representatives from agencies performing monitoring, and possibly risk managers),
- No limitations regarding the number of would-be participants from each MS, but one contact person – contact point per country (preferably attendant of the meeting),
- New meeting – autumn 2019, agenda to be prepared by volunteers in the interim period;
- Questionnaire to get more information about the GW monitoring programmes in each MS – to be distributed, collected and processed in the interim period;
- Presentations from the meeting to be made available later;

# INTERIM PERIOD – actions:

## Questionnaire:

### National groundwater monitoring programme

Member state: \_\_\_\_\_

#### General information

Name of authority responsible for monitoring programme: \_\_\_\_\_

Address: \_\_\_\_\_

General URL: \_\_\_\_\_

Contact person (if known and different from monitoring network contact): \_\_\_\_\_

Name of monitoring programme/database: \_\_\_\_\_

URL for monitoring database (if existing): \_\_\_\_\_

Accessible by public (yes/no/limitations (e.g., due to data protection)): \_\_\_\_\_

Language of monitoring database: \_\_\_\_\_

Additional monitoring reports on a regularly basis (if existing): \_\_\_\_\_

#### Monitoring programme

Number of monitoring wells in current programme: \_\_\_\_\_

Sampling frequency for all wells: \_\_\_\_\_

Sampling frequency for selected wells (if different): \_\_\_\_\_

Number of tested pesticides and metabolites in current programme: \_\_\_\_\_

#### Active substances

| Substance name | authorised<br>(by 2016) (y/n) | no. of<br>samples | findings above LOD |   | findings > 0.1 µg/l |   | comment |
|----------------|-------------------------------|-------------------|--------------------|---|---------------------|---|---------|
|                |                               |                   | absolute           | % | absolute            | % |         |
|                |                               |                   |                    |   |                     |   |         |
|                |                               |                   |                    |   |                     |   |         |
|                |                               |                   |                    |   |                     |   |         |
|                |                               |                   |                    |   |                     |   |         |
|                |                               |                   |                    |   |                     |   |         |
|                |                               |                   |                    |   |                     |   |         |
|                |                               |                   |                    |   |                     |   |         |

#### Metabolites

| Substance name | parent authorised<br>(by year) (y/n) | no. of<br>samples | findings above LOD |   | findings > 0.1 µg/l |   | comment |
|----------------|--------------------------------------|-------------------|--------------------|---|---------------------|---|---------|
|                |                                      |                   | absolute           | % | absolute            | % |         |
|                |                                      |                   |                    |   |                     |   |         |
|                |                                      |                   |                    |   |                     |   |         |
|                |                                      |                   |                    |   |                     |   |         |
|                |                                      |                   |                    |   |                     |   |         |
|                |                                      |                   |                    |   |                     |   |         |
|                |                                      |                   |                    |   |                     |   |         |



# **INTERIM PERIOD – actions:**

## **Preparation of the 2<sup>nd</sup> meeting:**

**Place: Vienna, Austria (hosted by AGES),**

**Period: Late September,**

**„Steering group”: DK, AT, DE, NL, PL, with help of FR**

**Programme: prepared and distributed, together with  
invitations, at the end of March,**

**Deadline for registration: 17 May 2019**





**Second meeting – Vienna  
23 – 25 September 2019**

## SOME TOPICS:

- **SETAC-EMAG PEST publication on GW monitoring:**
  - **GW protection goals**
  - **Vulnerability models**
  - **Target monitoring v/s public monitoring**
- **Literature data including/and those outside Europe and how to use them**
- **Analysis of the working examples (1 active substance, 1 metabolite)**
- **Data base and how to use it**
- **Glossary and virtual library**
- **Data quality**
- **Next meeting**





**Third meeting ?**  
**Place -?**  
**Dates - ?**

## **FUTURE:**

**To create an effective platform helping the experts solving their problems related to GW monitoring of pesticides**

**To prepare the documents/guidelines helping in the assessment of the GW monitoring studies/reports for pesticides in regulatory context.**





**QUESTIONS ?**



*Thank you for your attention.*



***Dr Igor Kondzielski***

***Department of Environmental Chemistry and Risk Assessment  
Institute of Environmental Protection – National Research  
Institute***

***Krucza 5/11D str.***

***00-548 Warsaw, POLAND***

***e-mail: [igor.kondzielski@ios.edu.pl](mailto:igor.kondzielski@ios.edu.pl)***