

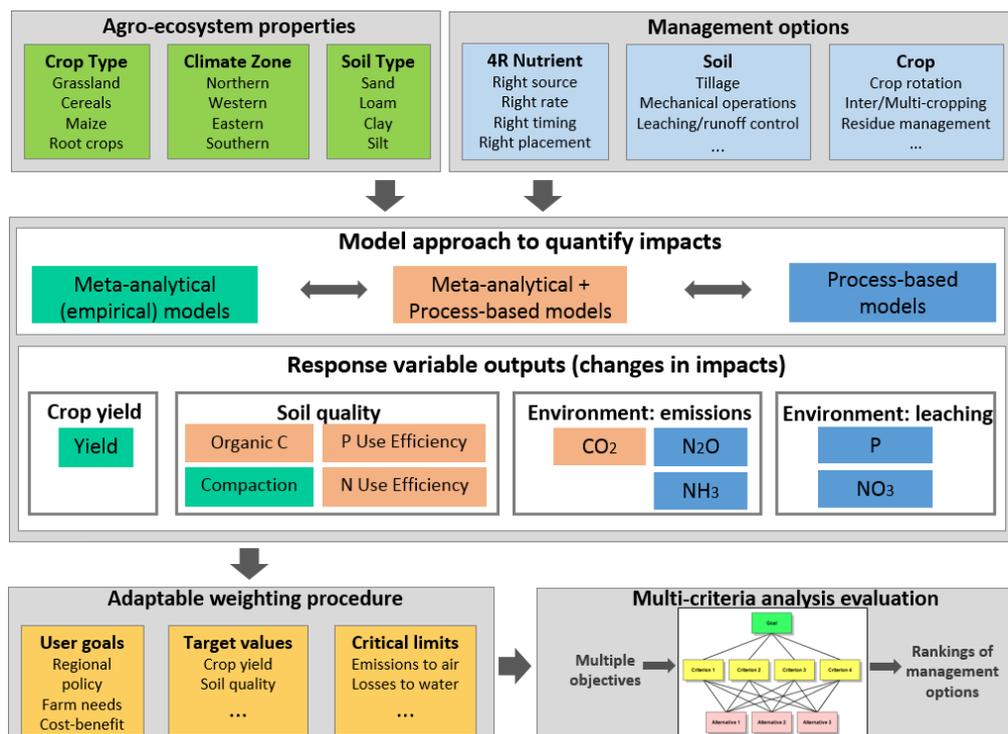
# Conference Report from WP5

## 20th Nitrogen Workshop

ESR 14 Madaline Young - Wageningen University (Netherlands)

The 20<sup>th</sup> Nitrogen Workshop (<https://workshop.inra.fr/nitrogenworkshop2018>) will take place in Rennes, France from June 25<sup>th</sup>-27<sup>th</sup> 2018. This is a biennial event focusing on nitrogen cycling. This event aims to assess N processes not only within cropping systems, but also to focus on the link towards greater environmental issues and a wider range of scales. The 20<sup>th</sup> edition encourages contributions that consider interactions between the N cycle and C, P and S cycles, bringing together challenging scientific issues. In addition, the Fertilisation & Environment joint technological network RMT F&E will co-organise a **side event** to share knowledge on nutrient management tools used worldwide.

This presented a perfect opportunity for ESR14, Madaline Young, to be selected for an oral presentation at the side event to present her research, developing a European decision support tool (DST) framework to evaluate the overall benefits and trade-offs that management has on crop yield, soil quality and environment. The focus is on indicators for soil organic carbon (SOC), phosphorus and nitrogen cycles, and the DST integrates a range of soil, crop, and nutrient management practices along with an assessment of the influence of local agro-ecosystem properties (AEPs). Madaline will present her first prototype of the DST, focusing on results of (1) meta-analytical techniques for modelling SOC, crop yields, and nutrient uptake changes and (2) modelling N losses based on changes in nutrient uptake.





## EGU General Assembly 2018

### ESR 15 Gisela Quaglia – VITO (Belgium)

Five ESRs (Early career researcher) from INSPIRATION attended EGU (European Geosciences Union) General Assembly 2018 which took place last April (8<sup>th</sup>-13<sup>th</sup>) in Vienna, Austria. The conference received more than 15000 researchers from 106 countries and offered a vast variety of sessions, workshops and activities to get to know the last advances in sciences. It was also a great opportunity for networking and getting to know the referents in our field.

22 divisions organised more than 600 sessions during the five days of conferences, so the first big challenge is to prioritise the agenda. A earlier selection of sessions, workshops and other activities is needed to get the most from the time spending in EGU. Some of us started with a very first session for first-time attendees: *How to navigate the EGU: tips and tricks*.

EGU General Assembly has activities for everyone: inspired moments like the Arne Richter Award for Outstanding ECS Lecture by Yoshihide Wada and the Henry Darcy Medal Lecture by Alberto Montanari. Both lectures provided some global insights on the future of hydrology research and an overview of water global challenges; discussion on the future of peer-review publication for hydrology, and some very interesting workshops on academic writing and the use of open source tools.

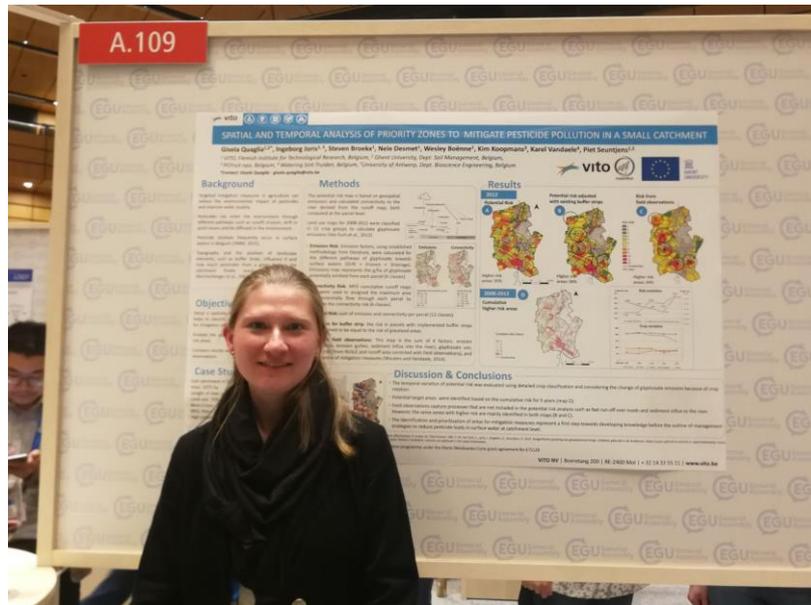
INSPIRATION ITN was represented with four posters and one platform presentation. The poster sessions were active with good discussions and great number of audience. Each ESR has the moment to explain results and to get constructive feedback from the participants.



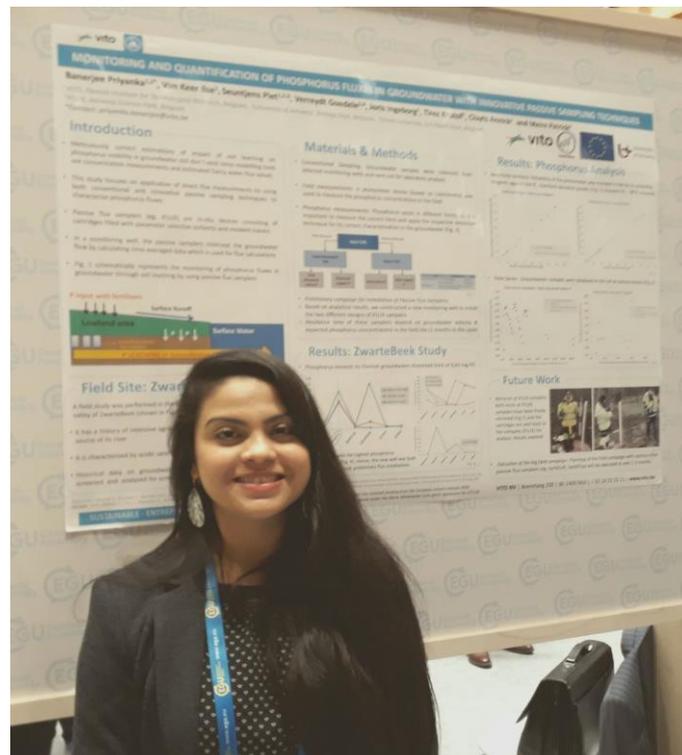
INSPIRATION ESRs at EGU 2018: Max Ramgraber, Banerjee Priyanka, Robin Weatherl, Olha Nikolenko and Gisela Quaglia (left to right)



Gisela Quaglia (ESR 15) from VITO presented a poster on Spatial and temporal analysis of priority zones to mitigate pesticide pollution in a small catchment.

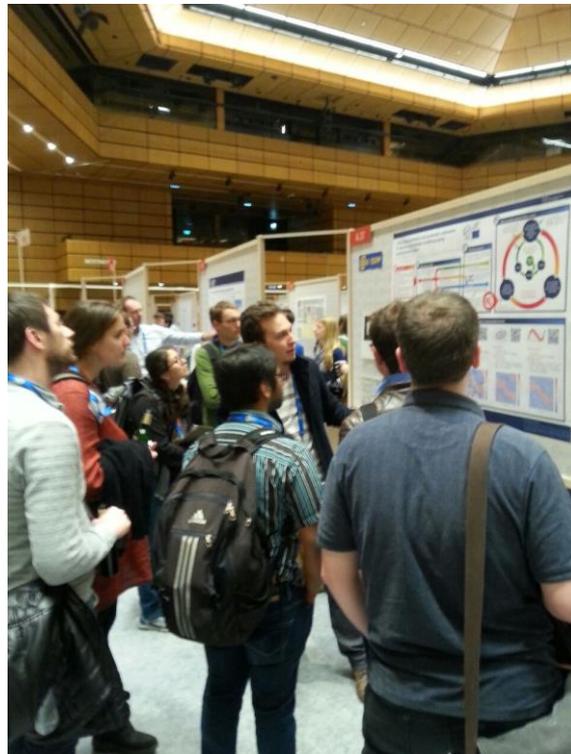


Priyanka Banerjee (ESR 1) from VITO showed her poster on Monitoring and quantification of phosphorus fluxes in groundwater with innovative passive sampling techniques.

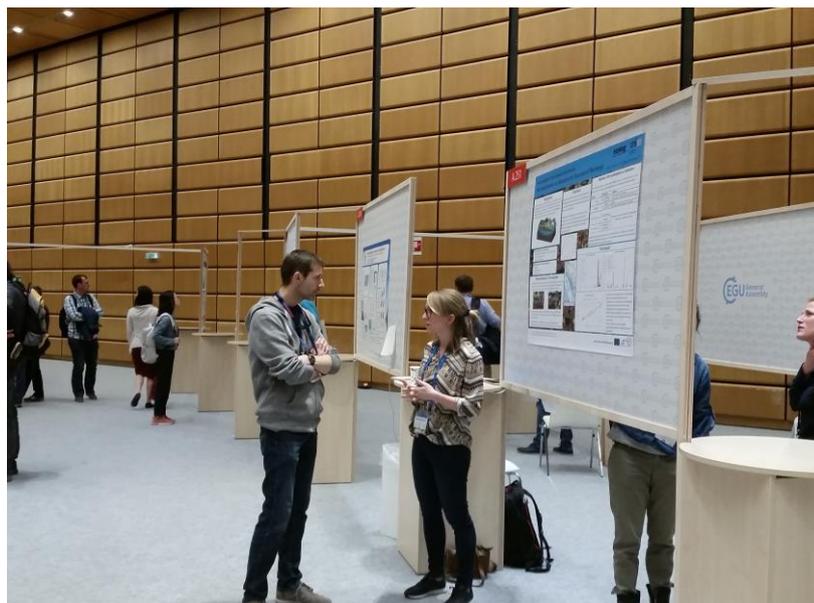




Max Ramgraber (ESR 5) from EAWAG introduced his poster on Joint data assimilation and parameter calibration in real-time groundwater modelling using nested particle filters



Robin Weatherl (ESR 4) from EAWAG showed her poster on Micropollutants as indicators for groundwater recharge sources in the human environment -





Olha Nikolenko (ESR 6) from University of Liege delivered an oral platform on Biogeochemistry of greenhouse gases in groundwater under agricultural area (the Geer catchment, Belgium)

