

## Soilpanik

### **Pertinence des mini-capteurs imprimés connectés PANIK (pH, Ammonium, Nitrate, K=Potassium) pour le suivi continu in-situ de la qualité chimique des eaux du sol dans les agroécosystèmes**

#### **ABSTRACT**

The SOIL PANIK project has the dual objective of :

- to confirm the functionality of a new generation of web-connected biogeochemical mini-sensors (PANIK) for continuous in-situ monitoring of the quality of soil solutions;
- to federate a scientific user community within the Labex Agro by using the opportunity of experimental fields belonging to the UMRs that make up the Agropolis Foundation.

The first expected results include

(1) In-situ validation of the measurement capacities of the PANIK mini-sensor: the one-off SOIL PANIK support will make it possible to meet this prerequisite, prior to any commitment to this technology in future research projects.

(2) Validation of the interest of the PANIK mini-sensor for questions concerning both nutrient management and scientific knowledge of nitrogen distribution in the soil column and in the landscape

Deliverables :

- Intermediate progress report on the conditions of use and characteristics of the measure
- Final report on the operational modalities and interests of the PANIK technology
- The list of units that actually participated in Activity 2 (units responding to the call and those that were selected)
- The "proceedings" of the final seminar (programme, list of participants)

**Year :** 2017

**Project number :** 1700-018

**Type of funding :** PC

**Project type :** SP

**Research units in the network :** DIADE G-EAU LISAH SYSTEM

**Start date :** 2018-01-10

**End date :** 2019-06-01

**Flagship project :** no

**Project leader :** Didier Orange

**Project leader's institution :** IRD

**Project leader's RU :** ECO&SOLS

**Budget allocated :** 8000 €

**Total budget allocated ( including co-financing ) :** 8000 €

**Funding :** Labex