



Supported by:



Start: 01/01/2017  
End: 31/12/2019

Budget: 292.022 €

## Operational Group:

**VIGISPORES: development of a decision support system for the management of three fungal diseases on shallot**

*VIGISPORES: développement d'un outil d'aide à la décision (OAD) pour la gestion de trois maladies fongiques de l'échalote*

## Practical problem

Shallot production in Brittany represents 78% of the national production. Three major airborne fungal diseases pose significant issues for crop management: mildew and two *Botrytis*. Currently, plant protection strategies are not adapted to the real spore airborne concentration on the field.

## Partners

Type:	Name:
Farmers organisations	CERAFEL; Chambre d'Agriculture de Bretagne
Research institute	Vegenov
Research and advisory organisations	CATE; Terre d'Essais

## Project

**Objectives:** The objective of VIGISPORES project is to develop a decision support system enabling farmers to protect shallot crops against these three diseases in a more efficient way, by linking spore trapping network to a DNA-based detection and quantification.

**Expected results:** Measurement of spore trapping heterogeneity factors at field scale.  
Definition and validation of the damage thresholds for mildew and *Botrytis* on shallot.  
Development of references to manage plant protection strategies on shallot crop.

**Results so far/first lessons:** In 2017, we already developed and validated tools for DNA-based detection and quantification of the fungi spores in laboratory.

**Who will benefit:** VIGISPORES project will directly benefit growers of shallot and onion.

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