NEP – high Nitrogen Efficient crop Production for better water management

NEP – Produção de culturas em elevada Eficiência de Azoto para uma melhor gestão da água

PORTUGAL

Starting date - expected end date | **02.11.2017 - 31.12.2020**

Operational Group

Nitrogen (N) is a crucial element to life and a limiting factor for agricultural production when it does not exist in sufficient amounts. However, the excess of this nutrient in the environment can also be a serious and harmful problem for all the different environmental compartments: when N inputs exceed the crop needs there is a real potential for water pollution with nitrate (NO_3^-).
The objective of this project is the development of two new agricultural products with low N footprint which do not currently exist in the national and international markets: processing tomato and wine.

For this purpose, new production processes will be developed to change agricultural practices of the producers. We plan to obtain distinct commodities produced with defined and marked concerns to mitigate N emissions during their production process: changes in the primary production of fresh grapes and processing tomato (e.g. fertilization and irrigation), will be conducted in order to obtain low N-footprint production. The reduction of N losses will be monitored by the N Footprint calculation tool built in this project.

Lead partner: Instituto Superior de Agronomia (University)

Other partners

SME

- Fundação Eugénio de Almeida (FEA) (farmer)
- Lusovini Distribuição, S.A. (farmer)
- Sociedade Agro-Pecuária do Vale da Adega, S.A. (farmer)
- Reguenguinho – Sociedade Agrícola, Lda (farmer)

NGOs

- Centro de Competências para o Tomate Indústria (CCTI) - Associação para a Investigação, Desenvolvimento e Inovação no Sector (non-profit private association)
- Benagro – Cooperativa Agrícola de Benavente, C.R.L. (non-profit private association) (farmer)

Project contact: **Cláudia Cordovil** | Tapada da Ajuda, 1349-017 Lisboa
T: +351 213653424 | cms@isa.ulisboa.pt

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