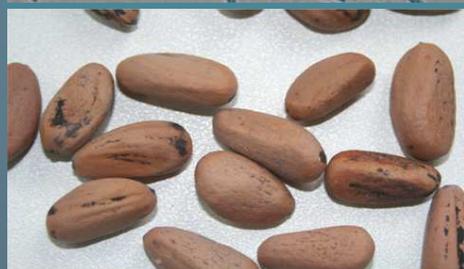




Supported by:



Start: April/2017
End: March/2021

Budget: 472.990 €

Operational Group:

+PrevCRP - Development of integrated strategies for the prevention of pine pitch canker.

+PrevCRP - Desenvolvimento de estratégias integradas para prevenção do Cancro-resinoso-do-pinheiro.

Practical problem

Fusarium circinatum infects several pine species at different stages of maturity, leading to: resinous cankers on woody structures; flowers and cones mortality; seedlings mortality. Its prevention is mandatory to avoid the spreading of infected seeds and seedlings through their movement

Partners

Type:

Research /Teaching

Agri Association

Agri enterprise

Name:

Instituto da Conservação da Natureza e das Florestas IP; Direção-Geral de Alimentação e Veterinária; Instituto Nacional de Investigação Agrária e Veterinária IP.; Instituto Superior de Agronomia; Instituto Pedro Nunes; Universidade de Trás-os-Montes e Alto Douro.

Centro PINUS; Associação de Produtores Florestais do Vale do Sado; Associação de Produtores Florestais do Concelho de Coruche e Limitófes.

Viveiros do Furadouro Unipessoal Lda; Pombalverde - Produção e Comercialização de Plantas, Lda; Germiplanta- Viveiros de Plantas, Lda.; Florgénese - Produtos e Serviços para a Agricultura e Floresta, Lda; Biochem Iberica – Químicos agrícolas e industriais, Lda.

Project

Objectives:

Assess the disinfection methods' efficacy at eliminating the fungus from seeds, substrates, containers and irrigation water, as well as their impact on seeds germination and seedlings quality, to apply the best treatments at nurseries; monitor seedlings in the field during plantation's first year.

Expected results:

To establish new preventive measures, based on the disinfection methods applied at the forest plant production level, ensuring the good quality and health status of seedlings, avoiding the negative effects of *F. circinatum* presence in host species and the negative economic impact that may result. Implementation of the recommended methods in a real context integrated in the "technical itinerary".

Results so far/first lessons:

Selection of disinfectants with potential use on the production factors (seeds, substrates, containers and irrigation water) was carried out, as well as of several potential materials in order to substitute the pine bark as substrate. There aren't specific products on the market to control *F. circinatum*, being important to focus on the prevention and adoption of innovative processes.

Who will benefit:

Forest nurseries, technicians, forest owners, Forest Producers Organizations, pine industry and government institutions.

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