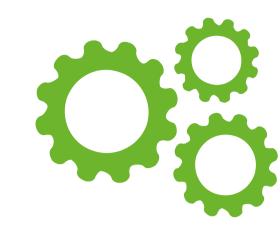




Operational Group

Development of guayule experimental plot in Languedoc-Roussillon Occitanie (France)

Implantation de parcelles de démonstration de culture de guayule en région Languedoc-Roussillon Occitanie



Practical problem

in a context of abandoned wine land and limited water resources prove that guayule can be grown in the south of France, transfer of technology to farmers.



Partners

Cirad, SCEA JP Duez, Bio-ORB-PPAM, GAEC Hautes Coumes, Mairie de Claira, CA 66 PO.







€236,510

Objectives of the project

• Initiate new alternative crop for the production of natural rubber in Europe •Setting of 5 experimental sites with different soils and climates • Study the impact of cultural practices (with or without irrigation), planting season, types of guayule varieties on the plant growth, rubber/resins content measurement (solvent extraction/ASE, near infrared spectroscopy/NIRS), field mortality with wintering • Adaptation to the climate of various lines of guayule • Improve and monitor the steps of guayule cultivation from nursery to field for the production of biomass • Transfer the knowledge of a research organization to farmers and cooperatives • Production of biomass to supply an extraction pilot plant.

Main activities

- Planting (season, nursery plant, direct seeding)
- Monitoring mortality, growth, bio-product content
- Support to experimental plots of farmers
- Production of biomass
- Training of farmers and students
- Local seminar, public communication.

Expected results

- Guayule field demonstration.
- Improve agricultural practice
- Innovative commodities for EU
- Increase demand from farmers
- New extensions in other regions
 Link with the lavender production
- International conference in Montpellier in Nov 2019.

Results so far/first lessons

- Eight experimental plots with an average of 1500 plants per site
- The nursery company (Nimaplants), has learnt how to grow guayule plants (up to 40.000)
- Best season of planting is in May
- Drop of plant mortality after the first year
- Slow growth depending on soil characteristics
 Wood control is a problem, mainly machanical
- Weed control is a problem, mainly mechanical
- Training of students of agricultural colleges (IUT Perpignan, Montpellier SupAgro)
 Production of biomass for the extractor available
- Production of biomass for the extractor available
- Public communication (seminar, video, newspaper).

Who will benefit

- Region Occitanie, implantation of a new crop
- Europe, as natural rubber is a critical material
- Farmers for the diversification of their farm
- Public with communication
- Local industry with production of latex
- Creation of jobs
- Start of a new company GUATECS

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