

REINFFORCE ARBORETA NETWORK: A TRANSNATIONAL TOOL OF ATLANTIC FOREST ADAPTATION TO CLIMATE CHANGE

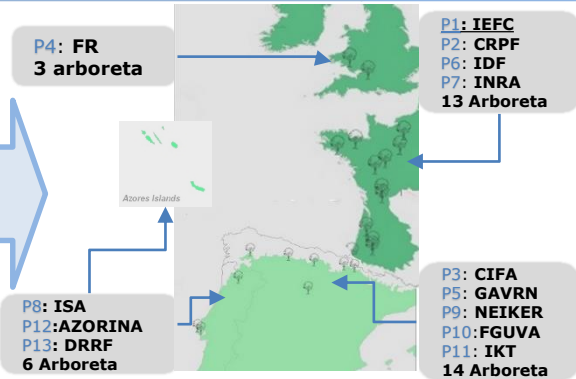
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Nowadays GLOBAL WARMING is accepted, with optimistic scenarios predicting an increase of 4°C in the next 50 years, but the regional consequences of this change are unknown, particularly in the oceanic area. There are many uncertainties climatically (evolution of regional rainfall, evolution of Gulf Stream), economically (evolution of the energy cost, of renewable energy solutions, evolution of world trade) and environmentally (evolution of pests and diseases, sea level).



REINFFORCE project set up an infrastructure unique in the world from latitude 37° to 58°, to monitor these changes and test the efficiency of adaptation measures. These 38 Arboreta, with the same experimental design (35 species represented each by 3 provenances), will play a crucial role in helping to maintain the sustainability of Atlantic forest resources, as the trees that are being planted now will be harvested in fifty years time and will need to be able to withstand the new climatic conditions.



Monitoring: survival, phenology, growth and pest damage, using harmonized data collection process and shared online databases