



## MODADAPT

### What models to provide guidance for the adaptation of forests to climate change?

*Project leader: Myriam LEGAY, AgroParisTech*

*LabEx partners: INRAE, CNPF, ONF*

*Collaborations : GIP ECOFOR, Université forestière de Pékin*

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*Context* — Expected impacts of climate change on the forest are a great concern for forest management. The forest and wood sector is presently disturbed by crisis following extreme climate events that are expected to intensify in the near future. Forests adaptation became a major issue, taken into account in public policies (eg Road map for adapting the forests to climate change, Recovery plan...). In that context of transition and uncertainties, forest managers are expressing their need for decision support tools for helping forest decisions, and especially species choice.

*Objectives* — MODADAPT envisions the models of climate change impacts on forest covers that were developed for French forests (mainland part), in order to analyse their relevance for supporting silvicultural decisions: which response of forest cover do they simulate, and with which limits? How to assess the consistency between their projections? What types of silvicultural choices could benefit from a model based decision support?

*Approaches* — We intend to (i) design a generic method for describing models, enlightening their respective strengths and limits, and apply it to the characterisation of about 50 models, (ii) propose a methodology for benchmarking projections, and (iii) collect a sensible set of study cases, covering the range of possible questions, for a first benchmarking study on a short list of models.

*Expected results and impacts* — MODADAPT will deliver a position paper, showing an overview of models relevant for providing support to silvicultural decisions in French (mainland) forest, and proposing priorities for the development of decision support tools. Our project will also provide the basis and the content for a conference targeting forest developers, advisers and managers, to be organised under the umbrella of AFORCE network (<https://www.reseau-aforce.fr/>).