

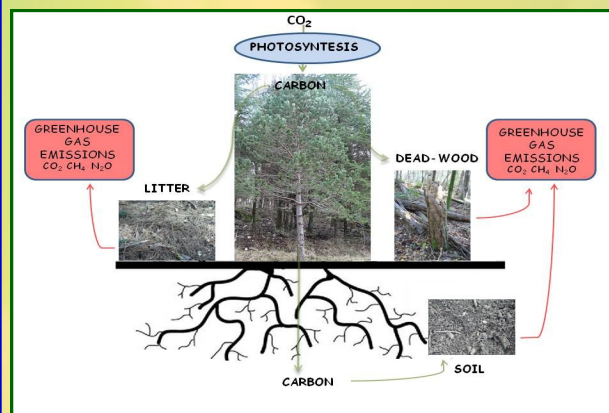
## THE PROJECT

The general objective of the project is to define the guidelines of good silvicultural practices for the restoration of peri-urban degraded coniferous forests in Italy and Greece with native broadleaved species, improving the ecological stability and climate change mitigation potential of these ecosystems. The project aims at testing and verifying in the field the effectiveness of management options for the conversion of degraded coniferous forests in meeting climate change mitigation objectives. The project will provide data on vegetation structure, biomass increment, C accumulation in all relevant pools of vegetation and soil, and CO<sub>2</sub> and other greenhouse gas emissions, thus giving a complete picture of mitigation potential of management practices.

## THE OBJECTIVES

- *To enhance the net primary production of the site, thus increasing the sequestration capacity of C into above and belowground living biomass;*

- *to increase C accumulation in soil, thus increasing sequestration capacity in the long term, enlarging the pool of stable soil organic matter and its chemical-physical stability;*
- *to avoid C losses from dead-wood degradation and to contain the global warming potential of greenhouse emissions derived from organic material decomposition;*
- *to use the resulted biomass from conversion in co-generators, reducing electricity production from fossil fuels;*



- *provide a list of "good practices" on forest management options for the conversion of degraded coniferous forests;*
- *to restore the ecological stability and enhance resistance and resilience of the target ecosystems;*

- *to identify a strategy for conflict resolution among environmental, conservative and silvicultural point of views in peri-urban forests;*
- *to reduce fire risk, through deadwood removal;*
- *to promote recreational and touristic activities;*
- *to enter the C credit market and to use the sold and received credits to produce benefits at local.*

## ACTIONS & MEANS INVOLVED

To fulfill its objectives, the project will be arranged into the following actions:

- **ACTIONS RELATED TO THE PREPARATION OF THE PROJECT, SITE CLASSIFICATION AND CHARACTERIZATION;**
- **IMPLEMENTATION ACTIONS;**
- **ACTIONS DEALING WITH THE MONITORING OF THE IMPACT OF THE CONCRETE ACTIONS;**
- **COMMUNICATION AND DISSEMINATION ACTIONS;**
- **PROJECT MANAGEMENT AND MONITORING OF PROJECT PROGRESS ACTIONS.**

## EXPECTED RESULTS

### 1. DEMONSTRATION OF THE THREE MITIGATION OPTIONS OF:

I) REDUCTION/PREVENTION OF EMISSIONS

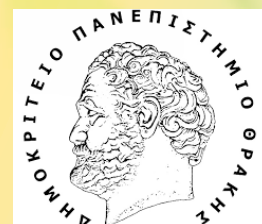
II) SEQUESTRATION - ENHANCING UPTAKE OF C

III) SUBSTITUTION OF FOSSIL FUELS FOR ENERGY PRODUCTION WITH BIOLOGICAL PRODUCTS. SPECIFIC PERFORMANCE INDICATORS WILL BE QUANTIFIED AND REPORTED.

2. PROVIDE "GUIDELINES OF GOOD AND SUSTAINABLE SILVICULTURAL PRACTICES" FOR DEGRADED CONIFEROUS FOREST RESTORATION INTEGRATING GREENHOUSE GASES REDUCTION OBJECTIVE IN THE FRAMEWORK OF EUROPEAN MITIGATION TARGETS.



## PARTNERS



LIFE14 CCM/IT/000905

1/09/2015-31/08/2019



*"Recovery of degraded coniferous Forest for enviromental sustainability  
Restoration and climate change mitigation"*

[www.lifeforesmit.com](http://www.lifeforesmit.com)

Project coordinator  
Dott.ssa *Alessandra Lagomarsino*  
[alessandra.lagomarsino@crea.gov.it](mailto:alessandra.lagomarsino@crea.gov.it)

