



LIFE PROJECT – FoResMit LIFE14 CCM/IT/000905

DELIVERABLE ACTION F.2 MONITORING REPORT AT 36 MONTHS



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1. INTRODUCTION

The aim of this “Monitoring report at 36 month” related to Action F.2 is to provide a periodic check on specific monitoring indicators of project activities and define the specific procedures followed during the project in carrying on the project technical activities.

In the first part a table with a final overview Action by Action of the real progress activities implemented and results achieved during the project compared to the activities and the results foreseen in the proposal are defined.

In the second part the project specific indicators table filled in is reported.

2. RESULTS: Project Progress Indicators

In order to carry out an effective monitoring of all the activities inside each project action and to guarantee the reaching of the project objectives and the respect of the project timing, CREA, as Coordinating beneficiary, during the project life received at the end of each project month a summary of the activities carried out by each beneficiary. CREA at the end of each month, on the basis of the information collected by each beneficiary, was able to compare the real progress of the project activities compared to the activities foreseen in the project. At each project progress meeting CREA shows the table with the progress update to all the beneficiary in order to discuss about the real progress of the project.

The following table compares the project activities implemented at mid-term period of the project 30/09/2018 compared to the activities foreseen in the project.

Action number name and timing	Results foreseen in the revised proposal	Results achieved at project 36 month	Action monitoring
A.1. Climatic characterization and vegetation survey	1. Climatic trends and frequencies analysis of the main climatic variables 2. Complete quantification of the vegetation initial consistence	1. Mean temperature and total precipitation in the period 1901–2009. Palmer drought severity index (PDSI) in the period 1901–2002. Standardized Precipitation Evapotranspiration Index (SPEI) at 1-month time-scale in the period 1901– 2009. 2. Parameters measured: species, DBH, total height, crown depth, crown projections, number of living whorls, crown vigour	In line
A.2. Pedological survey	Geological classification Soil type classification Pool of organic C actually stored in the soil.	– geological and pedological classification of the areas from existing thematic maps; – soil and humus profiles description; – soil physico-chemical characterization and analyses	More than expected

		of soil organic C and N pools at 0-10 and 10-30 cm	
C.1. Realization of thinning intervention in Italy	Thinning implementation in monte Morello forest	traditional thinning carried out on 5.35 ha selective thinning carried out on 4.73 ha	In line
C.2. Realization of thinning intervention in Greece	Thinning implementation in Xanthi forest	traditional thinning carried out on 3.2 ha selective thinning carried out on 3.2 ha	In line
D.1. Monitoring and quantification of C pools in vegetation and soil	<ul style="list-style-type: none"> - C stock for above- and below-ground biomass. - Amount of litter and forest floor - Carbon stock in deadwood; - Soil organic C content - Harvested biomass. 	<ul style="list-style-type: none"> - Reduction of C stock in biomass, stronger with selective thinning - litter input and forest floor increased with thinning - soil organic carbon increased - deadwood was reduced with selective thinning - harvested biomass chipped and transformed in energy 	In line
D.2. Monitoring and quantification of GHG emissions and Global Warming Potential	<ul style="list-style-type: none"> -Daily, seasonal and annual rates of CO₂, N₂O and CH₄ fluxes - Global warming potential 	<ul style="list-style-type: none"> - daily and cumulative fluxes have been calculated during thinning and 1 year after thinning - global warming potential have been calculated and N₂O and CH₄ fluxes expressed as CO₂ equivalents. 	In line
D.3. Governance of the project results in the carbon voluntary market	<ul style="list-style-type: none"> - Processes of awareness and training of the stakeholders involved in the project; - Quantification and governance of the carbon credit number in the voluntary market. 	<ul style="list-style-type: none"> - The forest management practices contribution to provisioning (timber and bioenergy production), cultural (recreational benefits) and regulating (climate change mitigation) ecosystem services were investigated. - 34 stakeholders have been identified and shared in five groups of interest (public administrations, environmental Non-Governmental Organizations-NGOs, forest-wood chain 	More than expected

		actors, actors of tourism sector, Universities and research institutes)	
D.4. Monitoring of technical-socio-economic assessment of the LIFE FoResMit project	- Proof of technical-social and economic viability of FORESMIT treatment. - Elaboration and analysis of data in terms of socio-economic impact on the local economy and population	Not yet started	-
E.1. Project website	Project web site and Facebook page	Project web site (505,408 visits) and Facebook page (222 friends) continuously updating	In line
E.2. LIFE+ information boards	18 FoResMit notice boards	8 notice boards displayed in beneficiary public places and 10 in demonstration sites	In line
E.3. Layman's report	FoResMit Layman's report	Not yet started	-
E.4 Diffusion material preparation	<ul style="list-style-type: none"> ➤ Logo definition ➤ 24 posters ➤ 12,000 brochures/leaflets ➤ 2,400 various items ➤ 6 roll-up 	<ul style="list-style-type: none"> ➤ Logo defined ➤ 9,000 leaflets/brochures/factsheets ➤ 50 posters ➤ 3 rolls-up ➤ 600 usb flashes, 200 keyrings, 200 block-notes, 600 pens, 600 pencils, 20 t-shirts and 20 huts as FoResMit gadget 	In line
E.5. Press and media releases	30 publications on different media	23 articles	In line
E.6. Networking	Clusters with 7 projects	Clusters with 9 projects	More than expected
E.7. LIFE FoResMit manual	FoResMit manual	Not yet started	-
E.8. Demostartion workshops, seminars, conferences and other events	4 FoResMit workshops	<ul style="list-style-type: none"> ➤ DAMT and DUTH organized 1 Greek workshop on 6th of April 2016 ➤ DUTH organized a day conference on 11th of April 2017 ➤ DAMT organized a day 	In line

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		<p>conference with schools on 11th of April 2017</p> <ul style="list-style-type: none"> ➤ DAMT during the annual International Day of Forests organized a one day event on 21st of March 2016 and two days event on 21st-22nd of March 2017 ➤ PROVIFI and CREA organized 1 Italian workshop on 15th of May 2017 ➤ CREA organized two public events on 22th of June 2016 and on 20th of January 2017 	
E.9. Dissemination to Institutions and policy makers	Successful communications to EU and national Institutions and policy makes	Preliminary contacts with 12 policy makes	In line
E.10. International fairs and other events	participation at minimum 6 events between international conferences and fairs	Participation at 23 events and fairs	More than expected
E.11. Digital supports for international diffusion	1 Project video	Production of preliminary video	In line
E.12. After-LIFE Communication Plan	FoResMit After-LIFE Communication Plan	Not yet started	-
F.1. Project management	Management of project activities	Continuous contact between all project partners and project meetings	Great beneficiaries' collaboration
F.2 Project monitoring	Monitoring of project activities	monthly indication of operative activities and monthly summary of the project activities	Great help from monitoring team
F.3 Audit	Audit Report	Not yet started	-

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In the following table we report the project specific indicators table filled in updated at 36 months project period. The expected impact at the end of the project period and 3 years after the project end is confirmed. For details see MTR.

Numbers	Key indicators and parameters	Descriptors	Impact units	State-of-play at the beginning of the project period at project level	EXPECTED State-of-play at the end of the project period at project level	State-of-play at September 2018 at project level
3.2	Implementation of the European Forest strategy					
3.2.1	Reforested area/area newly under sustainable forest management	Forest newly under sustainable forest management	ha	0.00	12.00	16.68
3.2.2	Provision of forest data sets		No. of data sets provided	0.00	4.00	4.00
8	Mitigation					
8.1	GHG emissions					
8.1.1	CO ₂ (mandatory for CCM projects)	CO ₂ emissions from soil	metric tons/ha/year	20 ± 5	16.7 ± 4	Difference from the Control 1 year after thinning: Traditional: -0.26 Selective: -1.03
8.1.2	Other greenhouse gases	N ₂ O emissions	metric tons/ha/year	0.0014 ± 0.0012	0.0014 ± 0.0012	No significant differences from the Control 1 year after thinning
		CH ₄ emissions	metric kg/ha/year	-0.04 ± 0.1	-0.07 ± 0.1	Difference from the Control 1 year after thinning: Traditional: - 0.12 Selective: - 0.57
8.2	Carbon sequestration					
		C accumulation in biomass (NPP)	tons C/ha/year	0.90	1.40	to be assessed at the end of the project

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		C accumulation in soil	Mg C/ha/year	0.1 ± 0.1	0.5 ± 0.1	Difference from the Control 1 year after thinning: Traditional: +0.04 Selective: +1.4
8.3	Renewable energy					
8.3.1	Production	wood biomass	m3/ha	0.00	115.00	Traditional: 144 Selective: 220
		potential energy	kWh/m3	0.00	2,400.00	3,300.00 (overall)
10.	Coverage / Range of the climate change impact					
10.1	Total human population to be affected by the project		No. of individuals to be affected by the project	0.00	128,000.00	confirmed
10.2	Total area to be affected by the project		km ²	0.00	279.00	confirmed
11.2	Implication of NGO ... EU policies ... other stakeholders	environmental associations, forest associations, local authorities, regional authorities.	No.	0.00	10.00	confirmed
12	Information and awareness					
12.1	General public reached and/ or made aware					
12.1.1	Website (mandatory)	general public	No. Individuals	0.00	9,600.00	confirmed
12.1.2	Other tools for reaching/raising awareness of the general public	Dissemination materials; publications; workshops; participation in international fairs; project video	No. Individuals	0.00	50,000.00	confirmed
13	Capacity building					
13.1	Networking	networking with at least 7 projects or initiatives potentially connected with FORESMIT project	70 of individuals of other projects contacted	0.00	70.00	confirmed

3. CONCLUSIONS

It is evident from the above tables that the work carried out during the 36 month project period of the FoResMit project is in line with what was expected in the FoResMit proposal.