Close-to-NAture forest sustainable management practices under climate changes (LIFE SySTEMiC)

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GoProFor
LIFE17 GIE/IT/000561
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Parallel session 2:
Forests and climate change

Aims:

To **develop a tool to be used for Sustainable Forest Management (SFM)** facilitating the choice of the best silviculture practice to preserve forest resilience in relation to climate change.

Key actions:

Development of GenBioSilvi model - combining landscape genetics and forest data for evaluation of forest biodiversity and its functionality that support and drive the SFM

Application of GenBioSilvi model for SFM in relation to climate change by stakeholders, including forestry, game management and conservation authorities

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PROJECT COUNTRIES: Italy, Croatia, Slovenia

BUDGET INFO:

Total amount: 2,976,245 €

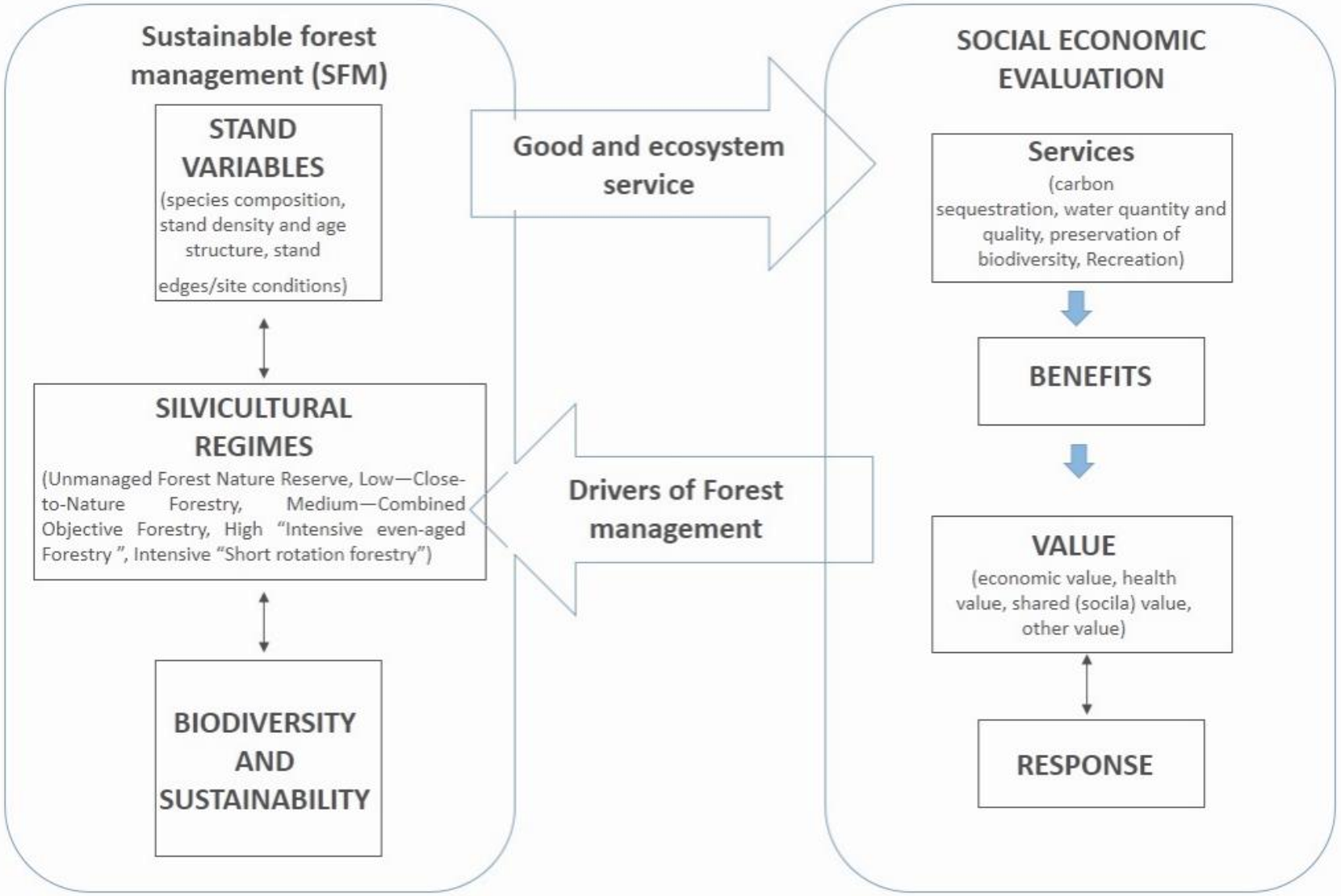
% EC Co-funding: 54.96%

DURATION: Start 01/09/19 - End 30/08/24

PROJECT PARTNERS:

<u>Coordinating Beneficiary</u>: DAGRI-UNIFI (IT)

<u>Associated Beneficiaries</u>: Croatian Forest Research Institute; D.R.E.AM. Italia sco. coop. agricolo forestale; Ente Parco Regionale Migliarino, San Rossore, Massaciuccoli; Slovenian Forestry Institute; Slovenia Forest Service; Unione dei Comuni Montani del Casentino


Sustainable forest management (SFM)
STAND VARIABLES
(species composition, stand density and age structure, stand edges/site conditions)
SILVICULTURAL REGIMES
(Unmanaged Forest Nature Reserve, Low—Close-to-Nature Forestry, Medium—Combined Objective Forestry, High "Intensive even-aged Forestry ", Intensive "Short rotation forestry")
BIODIVERSITY AND SUSTAINABILITY
Good and ecosystem service
Drivers of Forest management
SOCIAL ECONOMIC EVALUATION
Services
(carbon sequestration, water quantity and quality, preservation of biodiversity, Recreation)
BENEFITS
VALUE
(economic value, health value, shared (socila) value, other value)
RESPONSE

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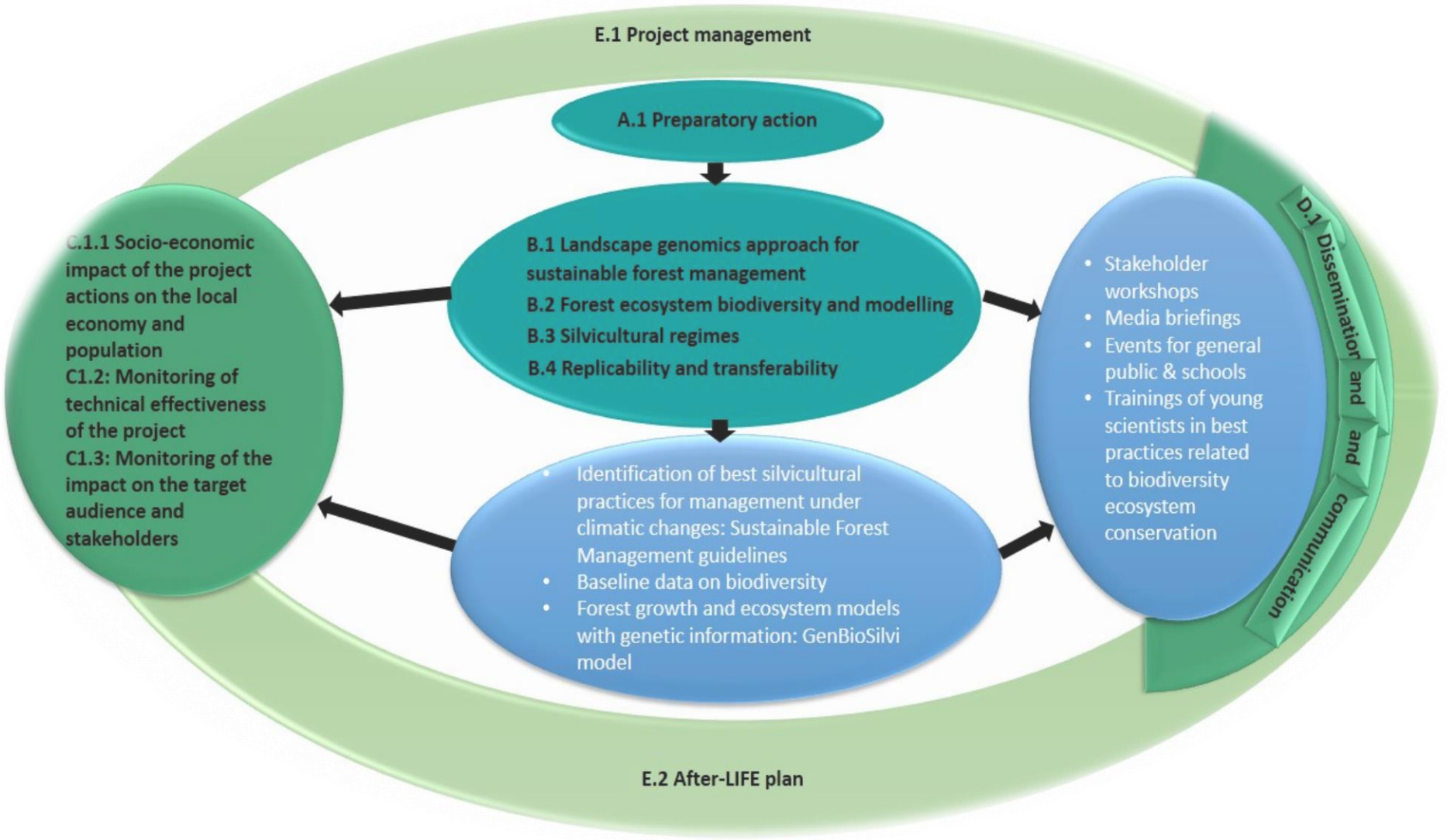
CLOSE-TO-NATURE FOREST SUSTAINABLE MANAGEMENT PRACTICES UNDER CLIMATE CHANGES



A:

- A1.1 Technicalities in management & monitoring
- A1.2 Preparation of implementation actions (spp & sites)
- A1.3 Establishment of communication activities

B1:

- Forest plot analyses
- Genetic analyses
- Landscape genomics

B2:

- Biodiversity at gene, species, ecosystem level
- Modelling & NFI

B3:

- Past influence of silvicultureal practices
- Current silvicultural practices (per sp)
- Ongoing regeneration processes

B4:

- Demonstration activities
- Transfer of results & networking
- Exploitation plan
- Identification of replication and transfer sites
- Technical manuals (1 per sp) presentation & demonstration
- EU level workshops
- Workshops for transfer of results to other EU countries
- Ownership & transfer of key tools after the project ends

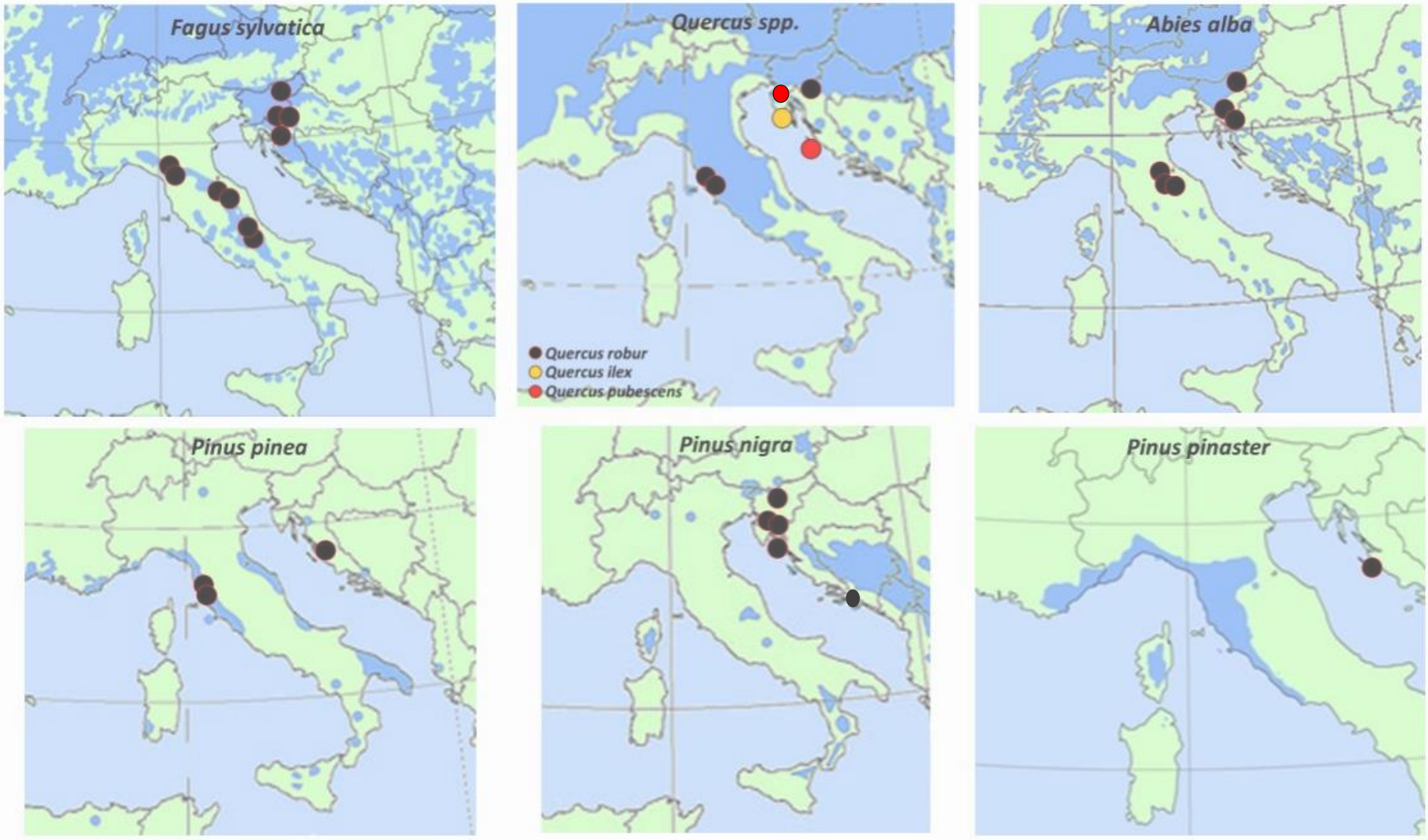
C: Monitoring of impacts

D: Public awareness and dissemination of results

- Dissemination pack
- Dissemination of project results
- Networking activities

E: Management & After LIFE Plan

LIFE SySTEMIC populations envisaged for data collection, demonstration and modelling (Actions B1, B2 and B3)



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Fagus sylvatica
Rajhenav Forest Reserve, SI


Quercus robur
Stara, CRO


Abies alba
Udnik, SI


Fagus sylvatica
Pri studencu, SI


Abies alba
Alpe Catenaia, IT


Fagus sylvatica
Gran Sasso Bosco , IT


Pinus nigra
Klana, HR


Pinus pinaster
After forest fire
Peljesac, CRO