



2015-2017



INtegrated research on FOrest Resilience and Management in the mEDiterranean



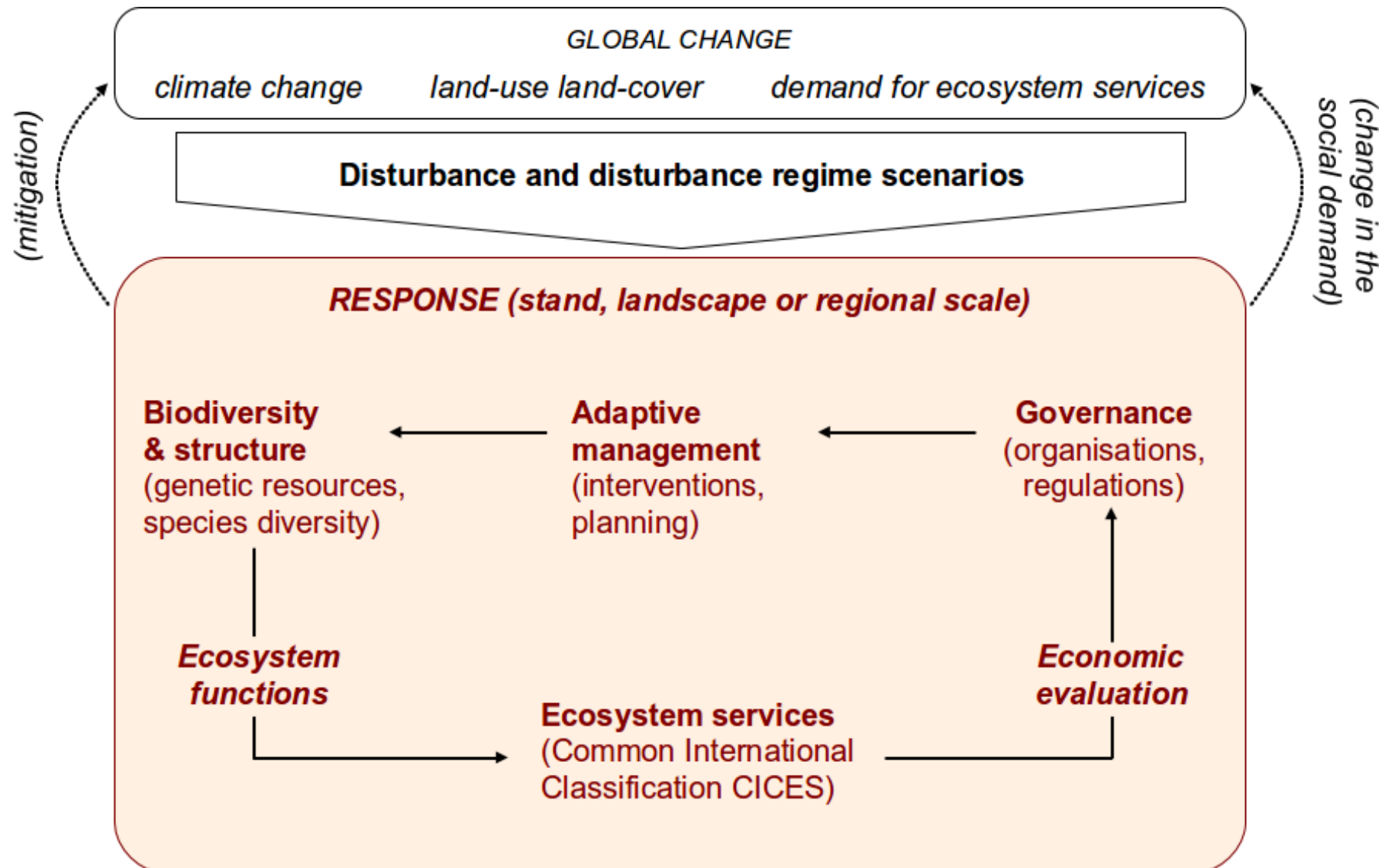
Multiple goods & services



**Management => biodiversity
=> functions**



Mediterranean forests = social-ecological systems facing global change



Integration of knowledge using (i) a broad range of case studies representative of different forest types, management systems and global change scenarios, and (ii) complementary models, aiming to :

- 1) produce global change scenarios specifically dedicated to the Mediterranean forests ;
- 2) develop process-based approach of biodiversity and functional response of Mediterranean forests to disturbance ;
- 3) develop integrated assessment of ecosystem services and their dynamics based on ecosystem functions and their economic evaluation;
- 4) assess adaptive forest management strategies, policy and governance options for their expected impact on resilience.

Biology Management Economy

P1	INRA	France	X	X	
P1sc	ISA	Portugal		X	X
P2	INRF+Univ. Tizi-Ouzou	Algeria	X	X	
P3	Univ. Sofia	Bulgaria	X		X
P4	IAC	Croatia	X	X	
P5	CFRI+Univ. Zagreb	Croatia	X	X	X
P6	AgroParisTech	France			X
P7	AUTH	Greece	X	X	
P8	IBBR+Univ. Padova	Italy	X		X
P9	SFI	Slovenia	X	X	X
P10	Univ. Ljubljana	Slovenia			X
P11	CREAF	Spain		X	
P12	CTFC	Spain	X	X	X
P13	INIA+Valladolid+Cetemas	Spain	X	X	X
P14	INRAT	Tunisia			X
P15	INRGREF	Tunisia	X	X	

- 4 integrated case studies to integrate knowledge from all disciplines, in various forest types and socio-economic contexts
- 21 focused case studies with existing data and/or models to (i) address specific knowledge gaps and (ii) extend the scope of the research conducted in the integrated case studies

Related by forest types, scales, data types, model types...



WP1: Project management and dissemination

Participants: **P1** (project coord, France), P8, P12, P13, P14 (WP leaders)

To coordinate and follow-up of the work plan, reporting to FORESTERRA; to develop trans-disciplinary culture in forestry research within the consortium, with the help of the Scientific Advisory Group; to define and implement the dissemination plan, with the help of the Stakeholder Panel.

Tasks:

- T1.1. Project coordination and reporting to FORESTERRA Governing board
- T1.2. Capacity building and development of a common interdisciplinary culture.
- T1.3. Definition and realization of a dissemination plan

WP 2: Forest and biodiversity management

Participants: **P12** (WP leader, Spain), P1, P1sc, P7, P9, P11, P13, P15

To define innovative and science-based forest management and planning recommendations at different operational scales and for different Mediterranean forest types, oriented to the provision of ecosystem services and the enhancement of the resilience and adaptive capacity of the system in the face of global change.

Tasks:

T2.1. Elaboration of global change scenarios for the Mediterranean region.

T2.2. Definition of adaptive management strategies for the Mediterranean region.

WP 3: Functional and Evolutionary Response

Participants: **P13** (WP leader, Spain), P1, P2, P3, P4, P5, P7, P8, P9, P11, P12, P15

To assess the biological flexibility (potential and time scale of the response to disturbance) of forest species or ecosystems under different management scenarios through a simulation approach.

Tasks:

T3.1. Assessment of biodiversity and functional flexibility.

T3.2. Model coupling in ecology.

WP 4: Economic evaluation and governance

Participants: **P8** (WP leader, Italy), P5, P6, P9, P10, P13, P14

To provide information on the best practices to increase the resilience of Mediterranean forests: management actions, products and services provided under different governance scenarios or options.

Tasks:

- T4.1. Support in data collection and analysis in the landscape case studies.
- T4.2. "Costs of inaction" evaluation.
- T4.3. Governance tools to increase forest resilience.

WP 5: Case studies integration

Participants: **P14** (WP leader, Tunisia) + local correspondent for each case study.

To create links among partners' data, models and results from all focused and integrated case studies based on their relations in terms of forest types, spatial scales, global change scenarios, management systems and geographic areas. To integrate multidisciplinary knowledge (data, models) in the integrated case studies.

Tasks:

T5.1. Data standardisation and sharing.

T5.2. Coordination of integrated case studies and interdisciplinary integration.

Deliverables

Dissemination tools for various target audience (web, news)

Training for students and professionals

- Methods and tools for an integrated approach of resilience in MF
- Summer school on functional and evolutionary response to management under CC

Reports

- Methodology for elaboration of global change scenarios in MF
- Projections of case studies under various scenarios
- Adaptive and multiscale management recommendations in case studies
- Results of the economic evaluation in the integrated case studies (TEEB report)
- Policy and governance guidelines in the MF

Publications...

Final conference

Scientific Advisory Group (SAG) :

J. Vanclay (South Cross Univ., Australia)

R. Ipinza (INFOR, Chile)

M. Moritz (Berkley Univ., California)

C. Messier (CEF, Quebec)

B. Muys (Leuven Univ., Belgium)

M. Palahi (EFI, International)

Stakeholder Panel (SP) :

N. Fragkiskakis (DAMT Region, Greece)

T. Baiges Zapater (ARCMED & CPF Catalonia, Spain)

P. Dreyfus (ONF, France)

P. Mori (Compagnia delle Foreste, Italy)

F. Maamouri (WWF, Tunisia)

V. Garavaglia (FAO, Silva Mediterranea)

I. Martinez de Arano (EFIMED)

+ link with MedWildFireLab