





Συμβουλές για επιτυχημένες προτάσεις στον Ορίζοντα 2020

Αριστεία στην Επιστήμη: FET & MCSA

Αθήνα, 15 Μαρτίου 2016

Εθνικό Ίδρυμα Ερευνών

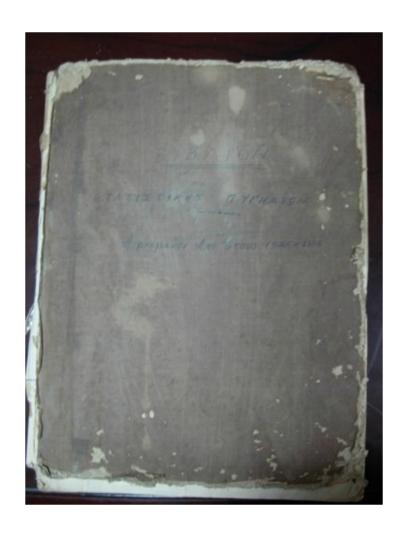
Δρ. Νίκος Κούτσιας Επίκουρος Καθηγητής, Υπότροφος IF-2015

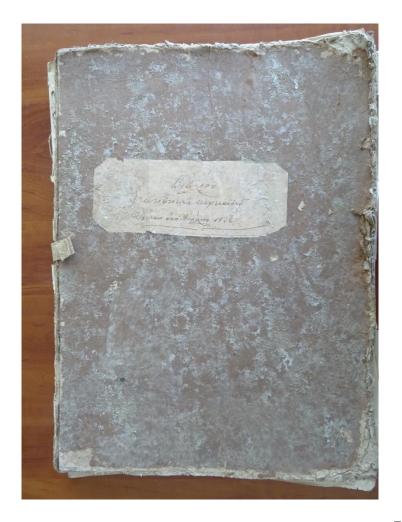
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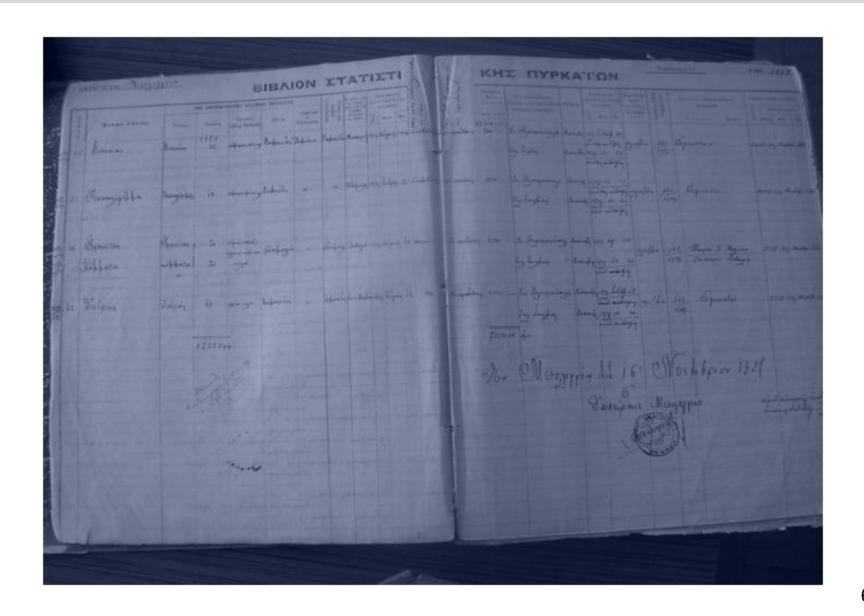
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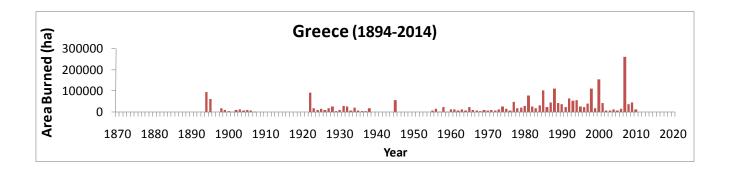




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^{*)} Κατὰ τὸ ἔτος 1928 συνέβησαν αὶ έξῆς πυρχαϊαί: Δημοσίων δασῶν 410, καεῖσα ἔκτασις 138.076 στρέμ., προξενηθεῖσα ζημία 23 περίπου έκατομ. δραχμῶν. Λο πῶν δασῶν 146, καεῖσα ἔκτασις 35.238 στρέμ., ζημία 7,5 έκατομ. δραχμῶν. - Les incendies suivantes ont eu lieu en 1928: 419 de forêts de 1'Htat, superficie incendiée 138.076 strem., dégâts causés 23 millions drachmes environ; d'autres forêts 146, superficie incendiée 35.238 strem., dégâts 7,5 millions drachmes.

Ανοιχτά δεδομένα



Συμβουλές για επιτυχημένες προτάσεις στον Ορίζοντα 2020. Αριστεία στην Επιστήμη: FET & MCSA Αθήνα, 15 Μαρτίου 2016, Εθνικό Ίδρυμα Ερευνών

CSIRO PUBLISHING

International Journal of Wildland Fire 2013, 22, 493–507 http://dx.doi.org/10.1071/WF12003

On the relationships between forest fires and weather conditions in Greece from long-term national observations (1894–2010)

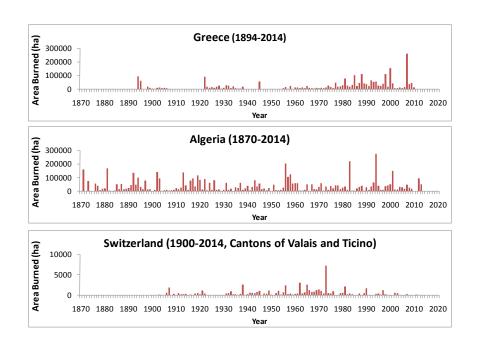
Nikos Koutsias^{A,F}, Gavriil Xanthopoulos^B, Dimitra Founda^C, Fotios Xystrakis^A, Foula Nioti^A, Magdalini Pleniou^A, Giorgos Mallinis^D and Margarita Arianoutsou^E

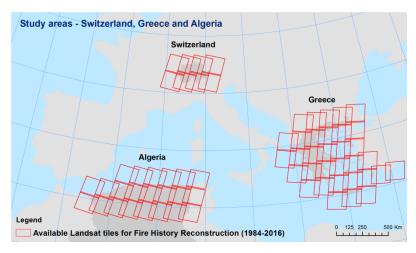
International Journal of Wildland Fire Annual Report 2014

CSIRO Publishing

Top 10 most highly cited papers in 2013–2014

			Table 16
Authors	Title	Vol.	No.
		(issue)	cites
N Koutsias, G Xanthopoulos, D Founda et	On the relationships between forest fires and weather conditions in Greece from long-term national observations (1894–2010)	22(4)	14
al.			
JT Abatzoglou, CA Kolden	Relationships between climate and macroscale area burned in the western United States	22(7)	12
S McCaffrey, E Toman, M Stidham, et al.	Social science research related to wildfire management: an overview of recent findings and future research needs	22(1)	12
RE Keane	Describing wildland surface fuel loading for fire management: a review of approaches, methods and systems	22(1)	10
C Miller, AA Ager	A review of recent advances in risk analysis for wildfire	22(1)	8





GRADIENT

Understanding fire, weather and land cover interactions from long-term terrestrial observations and satellite data in a north to south transect in Europe and North Africa

Ιδιαιτερότητα

Καινοτομία

Πρωτοτυπία



GRADIENT

Understanding fire, weather and land cover interactions from long-term terrestrial observations and satellite data in a north to south transect in Europe and North Africa

TABLE OF CONTENTS

In drafting PART B of the proposal, applicants <u>must follow</u> the structure outlined below.

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- 3. IMPLEMENTATION

STOP PAGE COUNT

- 4. CV OF THE EXPERIENCED RESEARCHER
- 5. CAPACITIES OF THE PARTICIPATING ORGANISATIONS
- 6. ETHICAL ASPECTS

Συμβουλές για επιτυχημένες προτάσεις στον Ορίζοντα 2020. Αριστεία στην Επιστήμη: FET & MCSA Αθήνα, 15 Μαρτίου 2016, Εθνικό Ίδρυμα Ερευνών

	σελ.
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1. Excellence (5 σελ)

1.1 Quality, innovative aspects and credibility of the research

Introduction, state-of-the-art, objectives and overview of the action

Research methodology and approach

Originality and innovative aspects of the research programme

1.2 Clarity and quality of transfer of knowledge/training for the development of the researcher in light of the research objectives

Explain how the *Experienced Researcher* will gain new knowledge during the fellowship at the hosting organisation(s)

Outline the previously acquired knowledge and skills that the researcher will transfer to the host organisation.

1.3 Quality of the supervision and the hosting arrangements

- 1.3.1 Qualifications and experience of the supervisor(s)
- 1.3.2 Hosting arrangements

1.4 Capacity of the researcher to reach and re-enforce a position of professional maturity in research

Excellence (5 σελ)

1.1 Quality, innovative aspects and credibility of the research (3.5 σελ)

Introduction, state-of-the-art, objectives and overview of the action

Research methodology and approach

START PAGE COUNT

1.1 Quality, innovative aspects and credibility of the research

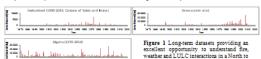
Introduction, state-of-the-art, objectives and overview of the action

Wildland fire is considered an integral part of many terrestrial biomes and also a major disturbance factor. During the last decades fire regimes have been modified following an increase of wildfires (Moreno et al. 1998)¹, also in areas historically less prone to fires (Valese et al. 2014)2 Major driving mechanisms beyond this, especially in Alpine and southern Europe, are land abandomment, and thus increased fuel load through colonization of forest to former agricultural land (Moreira et al. 2009)*, though climatic factors cannot be ignored (Pausas et al. 2008)*.

Extreme events observed recently raise the question originally framed by Agee (1997)², about the relative importance of the controlling factors in fire occurrence, i.e. weather and fuel. The weather hypothesis proposes that weather is the driver of large, severe fires while the fuel hypothesis proposes that fuel load and characteristics are the major drivers (Cumming 2001). Meyn et al. (2007) argued that it is the type of ecosystem that controls the relative importance of the two mechanisms; in biomass-rich, rarely-dry ecosystems large, infrequent fires are limited by climate, while in biomass-poor, at least seasonally dry ecosystems large fires are limited by fuels. Finally, Koutsias et al. (2012)⁸ provided evidence for the synergy of fuel and weather to explain catastrophic fires.

Long-term historical fire records extending back to the late 1800s are very rare worldwide. Three such long-term historical fire data (Figure 1) have been found for this research proposal: (i) Switzerland, central Europe (1900-2014)9 provided by the Host Institute, (ii) Greece, south Europe (1897-2014)10 provided by the Researcher, and (iii) Algeria, north Africa (1870-2014)¹¹ provided by the Partner Organization, giving a unique and excellent opportunity to understand fire, weather and land useland cover (LULC) interactions in a North to South transect

Fire history reconstruction can vary from a few decades, where spatially explicit information may be acquired from remote sensing, to centuries or millennia where other fire proxies (e.g., tree rings, charcoal analysis) are used (Conedera et al. 2009)¹². While being limited in the temporal extent, satellite data (e.g. Landsat) provide mediumhigh spatial resolution (30 m) that allows the detailed description of burned areas. To this direction, recent fire history will be fully reconstructed from time series satellite images of the freely available USGS and ESA archives.



Moreno, J. M., A. Vangurg, and R. Volce. 1998. Recent history of forces fires in Spain. Pages 159-185 in J. M. Moreno, editor. Large Forces Fires. Spainings. Publishers, Loiden, The Netherlands.

Ngligge, E., M. Caredon, A. C. Hild, and D. Ascell. 2014. Fire, humans and landerage in the European Alpherezian during the Helicence. Anthropocons. 64:5-4.

**Ngogin, F. P. Nga, F. Cappa, and S. Shra. 2008. Regional-variation in violation susceptibility of land-dever types in Persugal Implications for land-scape means commission for hazard. Assemblicated Journal of Wildland Time 18:18:66:57-4. Payses, J. C., I User, A. Rodrigo, and R. Valligo. 2008. Are wildfirms a dissater in the Meditor. Fire 17:713-729.

Ages, J. K. 1997. The severe weather wildfire - Too hot to handle? Northwest Science 71:153-156.

Cumming, S. G. 2001. Forest type and wildfar in the Alberta boreal mixed wood. What do fare bum? Ecological Applications 11.97-110.

Mong, A. P. S. White, C. Bulk, and A. Loppet, 2007. Environmental drivers of large, infrequent wildfares. The emerging conceptual model. Progress in

Physical Congraphy 3 1 287 241.

Physical Congraphy 2 247 247.

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Physical Congr

Numerous studies have demonstrated that wildfires do not burn the landscape randoml positive selection for certain LULC classes (Pezzatti et al. 2009¹³, Bajocco et al. 20 relationship between fuel and fire can be improved from the analysis of fire selectivity since specific LULC types are tightly related to vegetation structure and load

USGS and ESA archived Landsat images that basically cover the period from 198 processed to Standard Terrain Correction (Level 1T) where possible, are available (Figure 2). Additionally, Landsat MSS images will be processed and become available the ESA so that, depending on their quality, the researcher will be able to reconstruct r

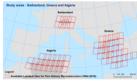
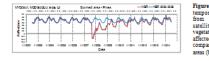


Figure 2. Image tiles (W WRS-2) of Landsat sar will be processed to n history of the regional Valais). Greece (the Pel Algeria (selected areas) since 1972 (these im downloaded from USGS In the case of Switzerl will be used and these w satellite images within t

Vegetation phenology is an important element of vegetation characteristics that monitoring, especially when satellite remote sensing observations are used (Reed et al. extracted from spectral signal of time series MODIS (Figure 3)and LANDSAT sat extracted from spectral signal or time series when the promiser year and EARD ST sat characterize vegetation phenology and thus help monitor vegetation recovery in fire-al and Koutsias)¹⁸. The aim of the final part of this proposal is to explore the vegetation fires for the three study areas that occurred within the time window of 1984-2015 for t 2015 for the MODIS images. These will be acquired in the middle of these time v images are before and half after the fire thus allowing characterization of the phenolog



The content of this research proposal is summarized by the following three topics (each Package (WP)) that correspond mainly to three different scales:

- to identify trends, patterns and relationships between forest fires, weather, land variables from long-term observations (1900-2015, Switzerland; 1984-2015, Greece - to reconstruct recent fire events (spatially explicit) and assess burning patterns and f basis within the period 1984-2016 for Landsat TM, ETM+, OLI, and 1972-1984 for La
- to explore post-fire vegetation dynamics and recovery for selected large fire event

¹⁸ Perzanii, O. B., S. Bajocco, D. Jagojusi, and M. Cenedera. 2008. Selective barning of forest vegetation in Canton. Biographyse - An International Journal Dealing with all Augusts of Plant Biology 143,609-620.
¹⁸ Bajocco, S., G. B. Perzanii, S. Magaglusi, and C. Sicotta. 2010. Wildfire resum ality and land use: When do will Monitoring and Assessment 164,443-452. denitoring and Assessment 164,442,452. * Reed, B. C., J. F. Brown, D. Vegdender, T. R. Loveland, J. W. Merchant, and D. O. Objen, 1994. Measuring phenole

Journal of Vegetation Science 5:703-714.

*Georgopoulon D. and Koutstan N. 2015 Monitoring vegetation recovery in fire-affected areas using temporal profiles of app.

*MODIS and LANDSAT satellite images. EGG Georgia Assembly 2015, 12 April - 17 April, 2015 Vienna, Austria

Originality and innovative aspects of the research programme Ήμουν πολύ συγκεκριμένος με:

- τι θα κάνω
- πώς θα το κάνω
- έδειξα ότι μπορώ να το κάνω
- και ίσως το βασικότερο, είχα ήδη εξασφαλίσει τα κύρια δεδομένα
- το state-of-the-art ήταν καλογραμμένο και ολοκληρωμένο
- ανέδειξα με έντονο τρόπο την καινοτομία της πρότασης

Part B - Page 4 of 22

Excellence (5 σελ)

1.2 Clarity and quality of transfer of knowledge/training for the development of the researcher in light of the research objectives

Explain how the Experienced Researcher will gain new knowledge during the fellowship at the hosting organisation(s)

Outline the previously acquired knowledge and skills that the resear Ήμουν πολύ συγκεκριμένος με:

1.3 Quality of the supervision and the hosting arrangements

- **1.3.1** Qualifications and experience of the supervisor(s)
- 1.3.2 Hosting arrangements
- 1.4 Capacity of the researcher to reach and re-enforce a position

- Post-fire vegetation dynamics and recovery using Landsat and MODIS time series satellite images Within selected areas of the three study areas in Switzerland, Greece and Algeria, specific fires that occurre preferably in the middle of each time window will be analysed to explore their recovery patterns as depicted in the time series satellite images of Landsat and MODIS.

The recovery analysis will be implemented as a function of fire size classes. Fire frequency and fire return interval which are important especially considering the perspective of seed availability in non-fire adapted ecosystems

Originality and innovative aspects of the research programme

The availability of the long-term historical fire records extending back to the late 1800s, which are very rare, located on a large geographical gradient covering two continents, provides a unique and excellent opportunity to understand fire, weather and LULC interactions in a North to South transect.

Differences in bio-geographical characteristics provided by the three selected study areas give the opportunity to document the role of fire in different biomes and therefore validate the hypothesis or $M_{\rm SQC}$ at al. (2007) ³⁰ who argued that the relative importance of climate and firel depends on the ecosystem concerned.

The different scales that will be considered for exploring fire, weather and land cover interactions give the opportunity to explore cross-scale issues and assess how these relationships vary across different scale The fourth innovative aspect, given the long-term meteorological time series data that will be studied refers to the analysis of the degree to which fire regimes are regulated by climate and to explore the role of climate change.

1.2 Clarity and quality of transfer of knowledge/training for the development of the research objectives

Explain how the Experienced Researcher will gain new knowledge during the fellowship at

By working in the research group of the host institute the researcher will have the opportunity to scientific potential and research activities in areas of high interest for present and fruture research Part will enhance and promote qualifications and skills that directly arise from his involvement as the mail of this proposal, such as: (i) research project management, to cover management requirements of project, (ii) presentation skills, communication of research results to non-specialists/media/genera. project. (ii) Presentation sum; communication by research results to non-personal research project. (ii) the seed of the equirements to disseminate within the host institute and by communicating and promoting the research project. (ii) writing, to cover the equirements to disseminate research results in peer reviewed scientific journal, is clientific networking, raising from his involvement in the research activities of the host institute, (vi) qualitative and quantitative methods and data processing especially with time series algorithms requirements for analysing the long-term terrestrial observations and time series satellite data, (vi) imp German and Italian language; from his residence in an Italian and German speaking Canton.

The researcher chose WSL since it is one of the leading institutes in wildfire research in cent Reconstructing fire history is one of their main fields of expertise that will contribute to the project and personal caeser development R programming and database management skills which are the major see group will be transferred to the researcher. Additionally, during his three-month secondment to researcher will extend his research experience and network in Europe and create long-term collabora

Finally, the researcher would like to underline the similarities of his own research profile with supervisor, with whom he already has a scientific interaction that ensures common and complementary roles

Outline the previously acquired knowledge and skills that the researcher will transfer to the host

The researcher will primarily transfer knowledge to the host institute stemming from his expertise and justified mainly from his experience working in the field of goo-informatics (remote sensing GIS and spatial analysis) with special focus on forest frees in the last 70 years. Currently, the researcher integrates his main three research domains – Remote Sensing GIS and Spatial Analysis—into fire research and natural hazards in general.

Furthermore, based on his qualifications and future visions, the researcher will bring new aspects to the current research activities and is convinced that his work will fit perfectly into the on-poing and expanding research activities of the host institute Finally, he will enhance the networking of the host institute by bringing new scientific collaborations with the Mediterranean and North Africa

Part B - Page 8 of 22

- τη γνώση που θα αποκομίσω
- τη γνώση που θα προσφέρω
- έδειξα ότι υπάρχουν κοινοί και συμπληρωματικοί ρόλοι
- τόνισα επίσης τη διαφορετικότητα
- ποιότητα του host institute
- past achievements

publications, research projects) covers different aspects of Remote Sensing, GIS, Spatial Analysis and Muhivariate Data Analysis all applied in topics related to wildland fires.

Finally, the skills and qualifications to be obtained from the host institute, especially their experience on ratary, the sexist and quantications to ee oritated from the nost institute, specially their expensive or reconstructing pair for eigens. "I sing various methods such as toponyras", dendrochronologis" and poller and charcoal in lake sediments", will contribute to his career development, since these methods constitute his future research interests. The researcher intends to expand his research activities to include the assessment of historical fine regimes in the Mediterranean combined with recent burning patterns assessed by remote sensing methods.

**Considers, M., S. Wagang, C. Noff, M. Wigang, and P. Kerles. 2007. Using to grow you to recomment great land use: scare study of "tiggings," (sum) in another. Switzenfault. Journal of Maintenand Geography, 31,712-744.
**Agent, P. Const. and B. Sugapper, 100. Pollon and chances also failed societies compared with Computing Science of the Computing Science of the Computing Science (SA) 120. Electron 83.1-42.

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18

Αξιολόγηση (Score: 4.60 (Threshold: 0/5.00 , Weight: 50.00%))

Strengths

- + The proposed research and objectives are adequately addressed against the state-of-the-art.
- + The methodology properly describes data basis and statistical method to be used.
- + Training in statistics and transfer of knowledge are valuable for the respective parts.
- + Supervision and hosting arrangements are of high quality.
- + The past achievements demonstrate the potential to re-enforce the position of professional maturity.

Weakness

- Innovation is insufficiently addressed with respect to former projects carried out by the researcher and the host.

2. Impact (2 σελ)

- 2.1 Enhancing research- and innovation-related skills and working conditions to realise the potential of individuals and to provide new career perspectives
- 2.2 Effectiveness of the proposed measures for communication and results dissemination

Communication and public engagement strategy of the action

Dissemination of the research results

Exploitation of results and intellectual property rights

- Exploitation of results and knowledge transfer
- Intellectual property rights

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- 2. Impact (2 σελ)
- 2.1 Enhancing research- and innovation-related skills and working conditions to realise the potential of individuals and to provide new career perspectives
- 2.2 Effectiveness of the proposed measures for communication and results dissemination Communication and public engagement strategy of the action Dissemination of the research results

Exploitation of results and intellectual property rights

- Exploitation of results and knowledge transfer
- Intellectual property rights

- Impact
- Enhancing research- and innovation-related skills and working conditions individuals and to provide new career perspectives

The acquired professional skills on research, teaching networking project manag presented in Section 1.2, will contribute to the development of the researcher's profes requires advanced teaching, research and management skills. The network enhance within this fellowship will promote his opportunities for further, future collaboration

During the fellowship the researcher will further develop professional links to North A current European research efforts, such as those established by the Joint Research Cent Forest Fire Information System (EFFIS), who are currently expanding their activities During his three-month secondment (7th-9th month) to Montpellier France in the Centre Evolutive (UMR CEFE), the researcher will extend his research experience and network his field of expertise and form create long-term collaborations.

Finally the connection of the research project to four countries, one being a EU Member an Associated Country (Switzerland), one being a EU Member State (France) where th secondment, and one from North Africa (Algeria) that belongs to the EFFIS network, cooperation supported by European funds and increasing European competitiveness

2.2 Effectiveness of the proposed measures for communication and results diss

The main objective is to ensure that the project results are smoothly communicate potential users. This will be achieved through communication, dissemination and knovelaborated throughout the whole duration of the project. Emphasis will be given to max and dissemination of the scientific aspects, methodological approaches and workflows every target group. Communication will be based on three keystones: (i) communication and outputs to researchers, students and the general public, (ii) dissemination of know exploitation of the results and knowledge transfer by future potential users.

The aim is to facilitate the transfer of knowledge, ideas and results to the various stakmeans. All the activities presented here, not only ensure the promotion of communicat will also increase the visibility of all stages of the project to the various target groups. actions will start from the very beginning of the project but also include activities tha period of the grant, thus further maximizing the project's impact.

Communication and public engagement strategy of the action

The activities involved here aim to increase the visibility of the project among the activities will provide information regarding the state-of-the art of the project to stakel makers, the public and academia. The role of the European Community in supporting highlighted, and all actions will ensure the dynamic interaction between people within: latter is essential to ensure the project will be communicated to the various target group target groups will be able to provide feedback to the project. To achieve the above we

- Promotion of Marie Skłodowska-Curie in university students: The research professor in a Department of Environmental studies, will disseminate his experien the Marie Skłodowska-Curie research fellowship to students. Approximately 120 nosteraduate students (from the Middle East and North Africa also) will be expose Seminars within the host institute: The researcher will participate in two sen institute (one in the beginning of the project and one at the end of the project) duri all major developments and milestones informing researchers of the project's resu
- allowing the research network to provide their feedback to the project (first sem e-Newsletter: Two e-Newsletters (one at the beginning and one at the end of the p published on the website of the host institute. The newsletters will summari allowing all targeted groups to have a periodic, condensed overview of the proje Newspaper Article: One article in a major newspaper at the end of the project that
- achievements of the project's results and effectively communicate these achieve Participation in Marie Sklodowska-Curie promotion events: The researcher will participate whenever

Ήμουν πολύ συγκεκριμένος με:

- θέματα ενίσχυσης/βελτίωσης της επαγγελματικής πορείας
- ενίσχυσης του δικτύου συνεργασιών
- επικοινωνίας αποτελεσμάτων έρευνας

Δημοσιεύσεις:

- λεπτομερής παρουσίαση (τίτλοι, υποψήφια περιοδικά, τόνισα ότι είχα ήδη εμπειρία δημοσίευσης σε αυτά τα περιοδικά)

the researcher's Work Contract

Part B - Page 12 of 22

Αξιολόγηση (Score: 4.60 (Threshold: 0/5.00, Weight: 30.00%))

Strengths

- + A personal career development plan will be discussed with the supervisors.
- + The project will be very beneficial for the researcher in terms of international mobility and expansion of collaborators network.
- + Foreseen publications are discussed with detail in a credible manner.

Weakness

- Dissemination to stakeholders and to the general public is discussed in very general terms.

3. Implementation (3 σελ)

- 3.1 Overall coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources
- 3.2Appropriateness of the management structure and procedures, including quality management and risk management
 - Project organisation and management structure, including the financial management strategy, as well as the progress monitoring mechanisms put in place
 - Risks that might endanger reaching project objectives and the contingency plans to be put in place should risk occur.
 - Gantt Chart: Reflecting work packages, secondments, training events and dissemination / public engagement activities
- 3.3 Appropriateness of the institutional environment (infrastructure)
- 3.4 Competences, experience and complementarity of the participating organisations and institutional commitment

3. Implementation (3 σελ)

GRADIENT - Standard El

3. Implementation

3.1 Overall coherence and effectiveness of the work plan, including appropriateness of the allocation of task and resources

The research project will be implemented through 6 (six) Work Packages (WPs). These WPs are (i) RP1 Project, Monagement, to cover the management requirements of the project, (ii) RP2 Project, Decrease the requirements of the researcher's training, skill acquisition and cases promotion, (iii) RP3 Discontinuation and Papils: Engagement the communication and dissemination of the project's results, and three WPs that conceptoding to a specific research objective, (iv) RP4 FPs, weather and land cover interactions, (iv) RP4 CPS, weather and land cover interactions, (

Briefly the content, scope, organized activities, milestones and deliverables of each WP are:

(i) WPI Project Management: The scope of this WP, which is dedicated to project management, is to support all the actions needed for the smooth implementation of the project including meetings, communication and progress monitoring activities, and reporting to the Research Executive Agency (REA) Planned activities are: (i) one meeting for project initiation (Milestone 1 (MII), (ii) regular meetings for progress monitoring (total three meetings; one month before the new of VPA. WPS and VPP4 to identify the overall implementation of the WP and discuss the deliverables), and (iii) Sequent discussions with the supervisor in the host institute to determine project morosest and plan future activities.

(ii) WP2 Training and Career Development: The scope of this WP, is to organize and support the researcher's training plan. For this, in the first month a meeting will be scheduled in the host institute (Aliestone 2 (Aliestone) 2 (Aliesto

(iii) W3 Dissemination and Public Engagement: The scope of this WP is to ensure that the project results are smoothly communicated to a wide spectrum of protential users, including anademia, riskeholders and managers, enterprises and the general public. This will be abbrated throughout the project's duration. More specifically, for communication the researcher will promote Marie Skidgogsia-Curie to university students every year, will give two seminans within the host institute (D3.1.0.3.7), and will perspace two on-Ewagetters (D3.1.0.3.7) and enterprise two exhausters (D3.2.0.3.3) and one newspaper article (D3.9.9). For the dissemination activities the researcher will prepare three research papers (D3.3.0.3.5, D3.10) and will participate in two conferences (D3.4.0.3.6.).

(iv) WP4 Fire, weather and land cover interactions: The scope of this WP, which corresponds to the first research objective, is to identify trends, partners and existenships between forest fires, weather, land cover and socio-economic variables from long-term fire observations. During this WP emphasis will be given to R programming (Melistone 3 (315)) and darbabes emangement (Ollistone) of (4(44)) which we the main strengths of the group at the hort institute, knowledge of which will be transferred to the researcher. One deliverable (04-1) (formatting styles appear) will be prepared and will let be basis for a page a submitted to a peer reviewed journal.

(v) WPs Reconstruction of fire history and fire selectivity. The scope of this WP, the second research objective, is to reconstruct spatially explicit recent fire history (Aliestores 5 (CA)) and assess fire selectivity and obscribe is to reconstruct spatially explicit recent fire history (Aliestores 6 (AC)) and assess fire selectivity and obscribe partial patterns on annual basis. During this WP emphasis is going to be given to satellite remote sensing data and spatialistical methods (Aliestores 6 (A6)) which are the main trengths of the sessarche, knowledge of which will be transferred to the host institute. One deliverable (D4 1) (found in the proper submitted to a peer reviewed) (journal will be the basis for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a peer reviewed) (journal and the pass for a paper submitted to a pap

(vi) WF6 Fost-fire vegetation dynamics and recovery: The scope of this WP, the third research objective, it to explore post-fire vegetation dynamics and recovery from all available Lundsst and MODIS time series satellite images for elected large fire events. During this WP emphasis will be given to time series statistics and methods. (Aliestone 7 (AVI) and to satellite remote sensing which is an integration of the qualifications of both researcher and the host institute's research group. One deliverable (D4.1) (formatting style as paper) will be prepared and will be the basis for a paper submitted to a paper received journal.

Secondment: During his fellowship the researcher will move to the Centre d'Ecologie Fonctionnelle et Evolutive (UMR CEFE) Montpellier, France, for three months 7-9). This institute was chosen based on their Part B - Page 13 of 22 GRADIENT - Standard Ef

acquisition of long-term fire observations for Algeria and for their scie cooperation is therefore crucial for the full implementation of the research;

Appropriateness of the management structure and procedures, incl management

Project organisation and management structure, including the financial: progress monitoring mechanisms put in place

The following list of actions will ensure the smooth implementation of the

- A Work Package on Project Management has been designated to support a implementation of the project such as the meetings, communication Additionally, a contingency plan will be applied in case of any unforeseen de the milestones, deliverables or planned research activities.
- Monitoring of the project will be constant through activities such as (i) one (M1)), and (ii) regular progress meetings there after (once every five implementation of the WPs and discuss the deliverables.
- An informal "Advisory Committee" comprising the supervisor (Dr. Mas Boris Pezzatti) from the Host Institute, to gether with the responsible scienti Florent Mouillot). The role of the committee will be to advise the researcher; so as to ensure quality outputs.
- WSL has previously hosted several Marie Skłodowska-Curie Fellowships a administrative aspects involved in the project. Therefore, the researcher w administrative and financial issues from the corresponding administrative a Institute.
- The researcher and his supervisor will meet frequently to check the progrescientific or administrative issue.

Risks that might endanger reaching project objectives and the contingrisk occur.

One of the major risks of research projects in general is the failure to acquire this risk has been minimized since the researche has already obtained the min for Switzerland. Greece and Algeria) and on which an essential part of his rea meteorological, and use lead notower and socio-comonic have been already. Therefore, one evident risk is the failure to acquire similar dan for Algeria and an Incase of failure to acquire these data, reamplys products (assimil numerical simulation models), which are largely available for the whole glob alternative (e.g. homogeneous 2-m air temperature series are freely av Nevertheless, these types of model data may present significant departures at before their application (i.e., bits correction).

Other important dan are the Lundar stabilite series of the three study area in Switch 2000 and the series of the three study area in Switch 2000 period at the dy area in Switch 2000 period at the dy area in Switch 2000 period at the series of the 2000 period at the series of the 2000 period at 2000 period at 2000 period at 2000 period 2000

Another major risk of research projects in general is the degree to which the ambitious being therefore difficultito fulfil entirely. For GRADIENT this risk the research group in the host institute are very familiar with all processing level of GRADIENT has been set to be achievable. However, in case some of difficult to be kept on schedule, this can be recognized during the progress.

Part B - Page 14 of 22

Ήμουν πολύ συγκεκριμένος με:

- work packages (για κάθε ένα θέμα της πρότασης υπήρχε και το αντίστοιχο work package (6))
- το secondment (3 μήνες) ήταν άμεσα σχετικό με την υλοποίηση της έρευνας
- quality and risk management (meetings, advisory committee)
- συμπληρωματικοί ρόλοι και διαφορετικότητα

Υπήρχε συγκεκριμένο πλάνο διαχείρισης κινδύνων:

- δεδομένα (εναλλακτικά σενάρια)
- μη εφικτοί στόχοι

Αξιολόγηση (Score: 4.70 (Threshold: 0/5.00 , Weight: 20.00%))

Strengths

- + The workplan is coherent and effective, allocation of tasks and resources are appropriate.
- + The infrastructure is adequate. Data are already available.
- + Appropriate consideration of potential risks is included, providing alternative work strategies.
- + Competences and complementarities are demonstrated along the proposal.

 The secondment is relevant for the career development of the researcher.

Weakness

- The interdependency of WPs might impair the achievement of final objectives.

Συμβουλές για επιτυχημένες προτάσεις στον Ορίζοντα 2020. Αριστεία στην Επιστήμη: FET & MCSA Αθήνα, 15 Μαρτίου 2016, Εθνικό Ίδρυμα Ερευνών







Τελικό Review της πρότασης (2-3)

Ερευνητής (όχι απαραίτητα του ιδίου αντικειμένου) Εθνικό Κέντρο Τεκμηρίωσης (ΕΚΤ) – Μαρία Σαμαρά Επιμέλεια των Αγγλικών Συμβουλές για επιτυχημένες προτάσεις στον Ορίζοντα 2020. Αριστεία στην Επιστήμη: FET & MCSA Αθήνα, 15 Μαρτίου 2016, Εθνικό Ίδρυμα Ερευνών

Συνέργεια (2)



Ευχαριστώ για το ενδιαφέρον σας