

WP 12: Capacity building and knowledge exchange

Task 12.4 Communication and Dissemination Plan (Lead: UBT)

- Published the first version of the Communication and dissemination plan (C&D plan – Deliverable 12.4) by UBT and CNR (May 2016) - the C&D plan is implemented.
- Published the first Ecopotential report, including a list of conferences and dissemination events where Ecopotential activities and results have been presented (Dec 2016)
- Internal communication has been organised through thematic mailing lists and a communication platform (Basecamp) (April 2016)
- Communication templates for “project branding”(presentations, posters, banners etc) have been shared on Basecamp and are continuously updated
- Social Media channels have been set up at the beginning of the project in coordination with the other communication efforts and are running
- CNR set up the project’s repository for open access publications and related data (PUMA).

Task 12.2 Science Schools (Lead: UBT)

- Four Science summer schools (reported in D12.1, D12.5, and D12.7) were organized by UBT and CNR respectively.
- D 12.11 The organization of a fifth Science summer school is foreseen for 2018.

Task 12.3 Citizen Science Programme (Lead: UFZ)

- Published Milestone M12.4 Methodology for citizen science program available in the EO web platform by UZF with help of involved partners.
- International Workshop on ‘Citizen Science and environmental monitoring in protected areas’ with Europarc, ECSA, JRC and ECOPOTENTIAL PA managers as part of the First Italian Citizen Science Conference in Rome on November 23rd-25th, 2017. Practical outcome will be co-developed guidelines for citizen science in PAs and a policy brief.
- Citizen Science workshop at Annual Meeting: Ecology Across Borders with BES, GfÖ, NECOV & EEF on 11 – 14 December 2017 in Ghent, Belgium. This was well attended and covered a range of topics how to promote good practice.
- D12.9 Scoping of an App for use in the field, i.e. the App will be developed as a prototype and ready to be tested in the field by April 2018 -> will be used during field work in summer 2018 with three selected mountainous National Parks on capacity and flow of cultural ecosystem services (Swiss NP, Austrian Limestone, and Peneda-Geres NP)
- Focus groups will be conducted in March 2018 in the three previously mentioned mountainous National Parks on capacity and flow of cultural ecosystem services. Assessment/mapping of the capacity and flow of cultural ES for at least one National Park will receive input from focus groups and field surveys in summer 2018.
- The development and interest of/in Citizen Science in 25 Protected Areas has been identified during summer-autumn 2017 under the lead of NIOZ) and Univ. Montpellier in a series of surveys on-the-spot with in total 85 PA managers and rangers, assisted by 28 EcoPotential scientists. Results are used in the EcoPotential workshops dedicated to Citizen Science.

Task 12.4 Communication and Outreach (Lead: UNEP)

- D12.3: Online Communication tools launched consisting of: ECOPOTENTIAL Leaflet; ECOPOTENTIAL Short Video
- Online Storymap (Pelagos Sanctuary)
- Organisation of a SWOS and the ECOPOTENTIAL meeting in the Camargue, Jan. 2017

- 7 Newsletters were sent out, 3 more are planned in 2018
- A Short simpleshow video was developed
- Other visual tools (slideshow videos, posters, banners) have been produced and shared
- CNR produced a 2 years calendar reporting information on the protected.
- Leaflets have now become available in English, French, German, Italian, Spanish
- Project website (in collaboration with WP1) has attracted tens of thousands of visits, with information about ECOPOTENTIAL (project description, partners, work packages etc.) and its activities (22 Protected areas descriptions, 21 Storylines, 62 Meetings/News announcements, 39 downloadable products, 28 downloadable outreach products), for a total of 186 articles/pages.
- Representation of ECOPOTENTIAL and the scientific research outputs took place as at many international conferences and events (see list - also connected to WP1 - Task 1.4)
- Press releases, interviews, articles on popular science magazines have been produced
- A booklet reporting the material of the photo exhibition (T12.8) has been edited by CREAf and CNR and has been published
- Participation in the European Researchers Night 2016 and 2017 at the University of Porto, Portugal, At CERTH (Thessaloniki, Greece), At University of Salento, Lecce, Italy, at University of Milano, Italy, At CNR, Pisa, Italy.
- A shared stand was organized together with the H2020 project SWOS at the European Ecosystem Services Conference in Antwerp, Belgium, Sept 2016.
 - January 2018: D12.8 Public photo exhibition, including large exhibit planned for launch at European Parliament
 - Exhibit and Side-Event at the XIV GEO Plenary in Washington, October 2017
 - Participation to conferences and events (ILTER general conference etc), such as the 6th International Symposium for Research in Pas, Salzburg, November 2017
 - The environmental game for school children of Alberto Basset and Francesco Cozzoli (UniSalento) will run the game this year, with platform development for the game and official launching the game before the end of 2017.
- Presentation of ECOPOTENTIAL and its scientific research outputs by CERTH, with an emphasis on the EODESM system, at the Directorate for Agricultural Policy, Documentation and International Relations of the Greek Ministry of Rural Development and Food, Ministry Headquarters, Athens, GR (18.01.18). Target audience was the personnel and decision takers within the Ministry. Present was also the Greek coordination team for LUCAS.

Task 12.5 Exploitation of Results (Lead: CNR)

- An Innovation Officer was elected
- Published Deliverable D12.2. Plan for the exploitation of results
- Publication of D12.6 Update of the Plan for the exploitation of results is foreseen for February 2018
- The submission of a minimum of one joint proposal for additional external funding, to develop one or more of the EO modules identified in D4.2, from TRL4-5 up to TRL7.

Task 12.8 Public photo exhibition (Lead: UNEP)

- The SPACED Exhibition was held at the European Parliament in Brussels from the 8th to the 12th of January 2018. Publicity was generated via EU, CNR, UNEP and partner's communication channels.
- Preparations are underway to present the exhibition also at the Committee of Regions to the EU in Brussels in February.
- UNEP, CNR and CREAf are working with other partners to also support further displays of the exhibition at relevant venues throughout the year, such as possibly in other locations in Brussels, Chania and Heraklion, Greece, Vienna, Austria and others.

Published Scientific papers

Open Access scientific papers mentioning ECOPOTENTIAL are made available on the project's section of the repository "PUMA" at

<http://pumalab.isti.cnr.it/index.php/it/eu-h2020-project-ecopotential>

- Hecker, S., Haklay, M., Bowser, A., Makuch, Z., Vogel, J. & Bonn, A., (2018) Citizen Science – Innovation in Open Science, Society and Policy UCL Press, London.
- Irl SDH (2016) Plant diversity on high elevation islands – drivers of species richness and endemism. *Frontiers of Biogeography*, 8, e29717
- Irl SDH*, Schweiger AH*, Medina F, Fernández-Palacios JM, Harter DEV, Jentsch A, Provenza A, Steinbauer MJ, Beierkuhnlein C (2017) An island view of endemic rarity – environmental drivers and consequences for nature conservation. *Diversity and Distributions*, DOI: 10.1111/ddi.12605 * Equal contribution
- Perennou, Christian, Anis Guelmami, Marc Paganini, Petra Philipson, Brigitte Poulin, Adrian Strauch, John Truckenbrodt, Christian Tottrup, et Ilse R Geijzendorffer. (accepted) « Mapping Mediterranean wetlands: a good-looking map is not always a good map ». in *Journal of Advances in Ecological Research on Biomonitoring*,.– collaboration paper between the SOWS and ECOPOTENTIAL project **Green open access**
- Schröter, M., Krämer, R., Kabisch, N., Mantel, M., Hecker, S., Richter, A., Neumeier, V. & Bonn, A. (2017) Citizen science for assessing ecosystem services: current status, characteristics and future prospects. *Ecosystem Services*, 28, 80-94.
- Steinbauer MJ*, Irl SDH*, González-Mancebo JM, Breiner F, Hernández RH, Hopfenmüller S, Kidane Y, Jentsch A, Beierkuhnlein C (2017) Plant invasion and speciation along elevational gradients on the oceanic island La Palma, Canary Islands. *Ecology and Evolution*, 7, 771-779. * Equal contribution
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Scientific publications publication foreseen to be submitted before the end of 2018

- Bingemer J, Engelbrecht C, Zannini P, Irl SDH, Chiarucci A, Beierkuhnlein C (in prep.) Tools to preserve biodiversity - Natura 2000 vs national conservation framework of protected areas.
- Crouzat, E. et al. (in prep): Capacity, accessibility, and actual use of cultural ecosystem services in European National Parks.
- Freund C, Gehler J, Küstner G, Irl SDH, Beierkuhnlein C, Jentsch A (in prep.) Leaf traits and community changes within an altitudinal gradient at an oceanic island.
- Gass LC, Madueño C, Salerno C, Irl SDH, Chiarucci A, Beierkuhnlein C (in prep.) Plant endemism - richness relationships across an elevational gradient in the Pine Forest of the oceanic island of La Palma.
- Hoffmann S, Schmitt TM, Chiarucci A, Rocchini D, Irl SDH, Vetaas OR, Beierkuhnlein C (in prep.) Beta diversity and spectral diversity reveal different plant community patterns in a semi-natural system.
- Irl SDH, Spaich F, Kienle D, Jaeschke A, Beierkuhnlein (in prep.) Treasure Island in peril? How climate change will affect island endemics in an oceanic biodiversity hotspot.
- Irl SDH*, Schweiger AH*, Steinbauer MJ, Ah-Peng C, Arévalo JR, Chiarucci A, Daehler CC, Fernández-Palacios JM, Flores O, Kueffer C, Madera P, Strasberg D, Jentsch A (in review) Hierarchical climatic filtering: towards a mechanistic concept of plant invasion on islands. *Ecology Letters* * Equal contribution
- Irl SDH, Schweiger AH, Hoffmann S, Steinbauer MJ, Dewenter J, Fernández-Palacios JM, Jentsch A, Müller CL, Nuppenau JN, Beierkuhnlein C (in prep.) A test of the successional divergence hypothesis on a 6000-year gradient on lava flows of a semi-arid oceanic island.
- v. Jeetze P, Schepers J, Hofmann F, Irl SDH, Veetas O, Beierkuhnlein C (in prep.) A pilot ground-based remote sensing approach on an oceanic island for vegetation science on inaccessible steep slopes.
- Kelly, R. , Fleming, A., Pecl, G., Richter, A. & Bonn, A. (in review) Social licence through citizen science: A tool for marine conservation
- Muller-Karger, F. et al. Advancing Marine Biological Observations using the Essential Ocean Variables (EOVs) Framework. *Frontiers in Marine Science* (In prep)
- Obermeier A, Irl SDH, Beierkuhnlein C, Steinbauer MJ (in prep.) Spatial patterns of plant life forms reflect environmental diversity on an oceanic island.
- Reinermann S, Mwaanga B, Karg SAC, Irl SDH, Beierkuhnlein C, Jentsch A (in prep.) Extending a chronosequence and testing its suitability for studying succession after fire on La Palma
- Richter et al (in prep) Typology of Citizen Science in protected areas and the role of volunteer engagement.
- Roche L, Kehl J, Cramer A, Irl SDH, Jentsch A, Field R, Beierkuhnlein C (in prep.) Effects of fire frequency on endemic pine forest trees on an Canary Island.
- Schuchardt MA, Bhagwat T, Stiepani JR, Irl SDH, Beierkuhnlein C, Jentsch A (in prep.) The stable state of Laurel Forests - A case study on reproduction dynamics after human induced disturbances on La Palma, Canary Islands
- Steinacker C, Stiller D, Vogel J, Irl SDH, Jentsch A, Beierkuhnlein C (in prep.) Effectiveness of Canarian cloud forests in using fog precipitation for fresh water provision on the island of La Palma

- Steinbauer MJ, Müller K, Irl SDH, Field R, Whittaker R, Svenning JC, Beierkuhnlein C (in prep.) Moving in focus: Within-island patterns of species-specific dispersal in plants.
 - Weigel R, Irl SDH, Treydte K, Steinbauer A, Steinbauer MJ, Beierkuhnlein C, Berels J, Field R, Jentsch A (in prep.) Non-linear change in tree growth continuity with elevation on a subtropical oceanic island.
 - Zennaro B, Lai Q, Medina A, Irl SDH, Fernández-Palacios JM, Beierkuhnlein C (in prep.) Hidden hitchhikers: Roads as spreading driver of invasive species on oceanic islands.
 - G. Ziv et al. (ongoing) Assessing recreational visitor groups using Flickr, machine learning and natural language processing.
 - Georgios A. Kordelas, Ioannis Manakos, David Aragonés, Ricardo Diaz-Delgado, Javier Bustamante (in prep.) Fast and automatic data driven thresholding for inundation mapping with Sentinel-2 data. To be submitted to the Remote Sensing MDPI Journal.
 - Dimitris Poursanidis, Kostas Topouzelis and Nektarios Chrysoulakis. 2018. Mapping coastal marine habitats and delineating the deep limits of the Neptune's seagrass meadows using VHR earth observation data. International Journal of Remote Sensing. Under Review.
 - Dimitris Poursanidis, Dimos Traganos, Peter Reinartz and Nektarios Chrysoulakis. 2018. Shallow to deep coastal habitat and bathymetry mapping using super-resolved coastal aerosol band of Sentinel-2. Remote Sensing of Environment, Special Issue "Science and Applications with Sentinel-2". Under Review.
 - Conquering a novel region: Distribution modelling and spread of the invasive lionfish in the Mediterranean Sea. 2018. Dimitris Poursanidis, Stefanos Kalogirou, Ernesto Azzurro, Valeriano Parravicini, Heinrich zu Dohna and Michel Bariche. Scientific Reports. SUBMITTED.
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