



Eventi Divulgativi Informacijske prireditve

WP 2 - Attività di comunicazione - COM1

DS 2 - komunikacijske dejavnosti - COM1

Versione Italiana -Slovena n.1

Italijanska- Slovenja Verzija Št. 1



INDICE

1. ESOF 2020 – EUROSCIENCE OPEN FORUM	2
2. CONFERENZA INTERNAZIONALE ONLINE “ALL ABOUT PEOPLE 2021: DIGITAL TRANSFORMATION IN SCIENCE, EDUCATION AND ARTS. MEDNARODNA SPLETNA KONFERENCA “ALL ABOUT PEOPLE 2021: DIGITAL TRANSFORMATION IN SCIENCE, EDUCATION AND ARTS.	7
3. FOV - INTERNATIONAL SCIENTIFIC CONFERENCE ON THE DEVELOPMENT OF ORGANIZATIONAL SCIENCES: VALUES, COMPETENCIES AND CHANGES IN ORGANIZATIONS	12
4. 6TH ANNUAL EUSAIR FORUM	14
5. IRDO - INTEGRATED RURAL DEVELOPMENT ORGANIZATION / INŠTITUT ZA RAZVOJ DRUŽBENE ODGOVORNOSTI/ORGANIZZAZIONE DI SVILUPPO RURALE INTEGRATO	22
6. CLIMATE CHANGE MANAGEMENT THROUGH MITIGATION AND ADAPTATION – CONFERENZA FINALE DEL PROGETTO ADAPTM (EMUNI)	24
7. EC-DAY 2021 – LA COOPERAZIONE È VERDE / SODELOVANJE JE ZELENO	29
8 EVENTO CONCLUSIVO DEL PROGETTO “LIFE REDUNE”: RISULTATI E PROSPETTIVE / ZAKLJUČNI DOGODEK PROJEKTA “LIFE REDUNE”: REZULTATI IN PERSPEKTIVE	34
9. EVENTO ANNUALE 2022 - PROSPETTIVE VERDI PER INTERREG ITALIA – SLOVENIA / LETNI DOGODEK 2022 - ZELENE PERSPEKTIVE ZA INTERREG ITALIJA-SLOVENIJA	38
10. IRDO - INTEGRATED RURAL DEVELOPMENT ORGANIZATION / INŠTITUT ZA RAZVOJ DRUŽBENE ODGOVORNOSTI/ORGANIZZAZIONE DI SVILUPPO RURALE INTEGRATO	40
11 CONFERENZA FINALE ZAKLJUČNA KONFERENCA	43
12 WEBINAR: GESTIONE, VALORIZZAZIONE E CONSERVAZIONE DEGLI ECOSISTEMI E DEGLI HABITAT / WEBINAR: UPRAVLJANJE, IZBOLJŠANJE IN OHRANJANJE EKOSISTEMOV IN HABITATOV	56

1. ESOF 2020 - Euroscience Open forum

Trieste, 04 settembre 2020 / Trst, 04. septembra 2020



	Friday, September 4th					
	8:30 - 10:00	10:15 - 11:45	12:00 - 13:30	14:30 - 16:00	16:15 - 17:45	18:00 - 19:30
Auditorium 28A	Keynote Session If COVID-19 is the 9/11 moment for global public health, what needs to happen next? L. Brito, C. Cookson, M. Ramapathi, R. Horton, S.A. Karim, M. Kuzichikine	Blue skills to feed jobs in the Mediterranean and Black Sea Region OGS Trieste	Keynote Session Cities of the Future: the challenge between climate change and pollution I. Honecker, E. E. Molynieux, T. Oni, M. Leraud, G. Modrik	Scientific infrastructures for peace: from CERN to the SESAME synchrotron and the new SEEIST initiative CERN	Keynote Speeches Economic Growth and Productivity: the role of knowledge I. Weso Inquiry Based Research: What? Why? And How? B. Barish	Scientific Diplomacy for Freedom: Inter-Cultural Dialogue for Science University of Trieste
Room 28H	HOT OPEN Bottom-up climate actions – urgent need or urban structure? Center for the Promotion of Science	Smart Healthcare Systems: can Artificial Intelligence and Robotics improve the quality of life? TeleVita SpA	Leveraging evidence for policy development and health intervention: results from the European Joint Action on Health Information Science and	Understanding public trust and distrust in science PCST	Keynote Speeches Stories of science, stem cells and freedom: E. Casareo Towards Genomic Scale Drug Design R. Sabatini	Exobiology and Solar System Exploration: Habitability on Early Mars and Search for Biosignatures with ExoMars Rover Attec SpA HOT
Room 27A	The marine litter problem: sources, dispersion and impacts ARPA FVG	Keynote Speeches The Darwinian Lesson of COVID-19 D. Plevani Technology transfer & collaboration I. Matta	Healthy food - improving optimal consumer choices European Commission Research Executive Agency	Plan S and Open Science – are we on the right track? Plan S Research Council of Norway	Plan S and Open Science – are we on the right track? Part 2 Research Council of Norway	Beyond the Lab: Career Paths between Science and Policy EFSA and ZSI
Room 27B	WIN – WakeUp Innovation Network: A European Hub for Innovation in Life Science Bio4Dreams	Perspectives on science-related fake news among young people in Central-Eastern Europe and Italy ELTE	Soil Health: the biggest challenge facing Europe? European Commission Joint Research Centre	Protection of marine habitats and reduction of CO2 along coastal areas: scientific and social aspects Municipality of Montalcone	The role of Hydrogen for sustainable global transport and trade Financiert Public-Private Partnerships for ship & shipping, Financiert	Energy Harvesting: a panel discussion University of Rijeka
Virtual Room 1	Rethinking Science Communication: Science Stories in Perspective Science Stories	Open research infrastructure in science and innovation policies studies: a journey within RISIS and its dataset CNR Italian Research Council	Women in Science: Is it all fair in mentorship? European Research Council	China's rise is reshaping global science European Commission Joint Research Centre	Rethinking Science Communication: Experience from the COVID-19 Pandemic Science Stories	Digital skills for the industry of the future Carlos Hirtel
Virtual Room 2	Inclusion and gender diversity in research environments: a little less conversation, a little more action please Marie Curie Alumni Association	Anti-cancer immune response "a la carte": Recent advances and future developments of immunotherapy European Research Council Executive Agency	Will I walk again? How next generation artificial limbs are shaping the future of medicine European Research Council Executive Agency	Virtual patient cohorts: breaking the data deadlock IM - Innovative Medicine Initiative	Advancing Health Care with Big data and Machine Learning: Case studies and challenges COST Association	Where is the ethics when scientific information is misused? WFSJ
Virtual Room 3	Turning contemporary cities into smart, interactive and safe urban living European Research Council Executive Agency	World Café for Regional Innovation Ecosystems Connected at European Level EURODOE	Advancing R&I ecosystems in the Western Balkans with regard to their ERA integration EC DG R&I International Service Facility	Networking the Western Balkans R&I community towards success EC DG R&I International Service Facility	Scientific data sharing and its impact on scientific careers and their evaluation Insirem	The EU and You: European Research Funding and Career development European Research Council
ES Virtual Room	Open science in time of pandemics: the experience of the Research Data Alliance working group on COVID-19 in the international landscape Data Research Alliance	Graphene meets Graphite: towards a dealer environment Center for Dialogue	EU-Open Science Policy Platform Open Science Policy Platform ESOF 2018 Toulouse Video legacy (13:30-14:30)	The role of science in global response to crisis: lessons learned from the COVID-19 Pandemic EuroScience	How sensemaking allows us to make sense of the misinformation crisis? SISIA Media Lab	AAAS Late-Breaker COVID-related Session AAAS

1.1 Protezione degli habitat marini e riduzione della CO2 lungo le aree costiere: aspetti scientifici e sociali - Presentazione del progetto Eco-Smart. **Zaščita morskih habitatov in zmanjšanje CO2 vzdolž obalnih območij: znanstveni vidiki in social - Predstavitev projekta Eco-Smart**

Link: <https://www.esof.eu/trieste-and-esof2020/>

a) Presentazione in lingua italiana/slovena - **Predstavitev v italijanščini/slovenščini**

Interreg
ITALIA-SLOVENIJA
ECO-SMART

Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000

Tržišče ekosistemskih storitev za napredno politiko zaštite območij NATURA 2000

Marine habitat protection and CO2 reduction along coastal areas: scientific and social aspects
Zaščita morskih habitatov in zmanjšanje CO2 vzdolž obalnih območij: znanstveni in družbeni vidiki

Alberto Barousse, Università degli studi di Padova / Univerza v Padovi

Esof_Trieste 04.09.2020
Esof_Trist 04.09.2020

Interreg
ITALIA-SLOVENIJA
ECO-SMART

Il cambiamento climatico nella regione mediterranea
Podnebne spremembe v sredozemski regiji

Esof_Trieste 04.09.2020

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Il contesto del progetto
Kontekst projekta

Quadro internazionale
Mednarodni okvir

PARIS 2015
COP21-CAP21

United Nations
Framework Convention on
Climate Change

SUSTAINABLE
DEVELOPMENT
GOALS

NATURA 2000

Parole chiave/ključne besede

- Cambiamenti Climatici
Podnebne spremembe
- Biodiversità
Biotska raznovrstnost
- Ecosistemi
Ekosistemi
- Ecosystem Services
Ekosistemske storitve
- Adattamento
Prilagoditev

Esof_Trieste/Trst 04.09.2020

Interreg
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Il cambiamento climatico nella regione mediterranea
Podnebne spremembe v sredozemski regiji

I principali cambiamenti
Glavne spremembe

- Temperatura dell'aria
Temperatura zraka
- Precipitazioni
Padavine
- Temperatura del mare
Temperatura morja
- Livello del mare
Versia gladina
- Acidificazione
Zakisanje

WARMING OF 2°C
PRE-INDUSTRIAL LEVEL IS
EXPECTED TO EXCEED
CONDITIONS FOR MANY
MEDITERRANEAN LAND
ECOSYSTEMS THAT ARE
VULNERABLE TO CLIMATE
CHANGE

WARMING OF 2°C
WILL BE EXCEEDED
IN 2040
POSSIBLY EXCEEDING
3.8°C IN 2100

15 CITIES
WILL EXCEED
TEMPERATURE
THAT IS
UNSUITABLE
FOR HUMAN
LIFE

Source: MedECC (2019) A preliminary assessment by the MedECC
Network Science-policy Interface

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Interreg
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Adattarsi ai cambiamenti climatici
Prilagajanje podnebnim spremembam

Come adattare un territorio e la sua complessità (sociale, economica, ecologica) agli inevitabili cambiamenti climatici?
Kako prilagoditi ozemlje in njegovo kompleksnost (socialno, gospodarsko, ekološko) neizogibnim podnebnim spremembam?

Piano di adattamento
prilagoditveni načrti
(supportato dall'applicazione PES
podpira aplikacija PES)

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Concetto di servizi ecosistemici (ESS)
Koncept ekosistemske storitve (ESS)

I servizi ecosistemici (ESS) possono essere definiti come contributi della struttura e della funzione dell'ecosistema (in combinazione con altri input) al benessere umano

Ekosistemske storitve (ESS) je mogoče opredeliti kot prispevke strukture in funkcije ekosistema (v kombinaciji z drugimi vložki) k dobremu počutju ljudi.

(Burkhard et al., 2012; Burkhard B. & Maes J. Eds., 2017)

Le tre categorie ESS secondo la classificazione internazionale comune dei servizi ecosistemici (CICES) sono:
Tri kategorije ESS v skladu s skupno mednarodno klasifikacijo ekosistemskih storitev (CICES) so:

- Servizi di fornitura/Storitve zagotavljanja
- Servizi culturali/Kulturne storitve
- Servizi di regolazione/Regulativne storitve

Source: FAO, 2010; CICES

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ECO-SMART

Concetto di pagamenti per i Servizi Ecosistemici (PES)
Koncept plačila za ekosistemske storitve (PES)

I pagamenti per i servizi ecosistemici (SPI) possono essere definiti come un sistema trasparente per la fornitura aggiuntiva di servizi ambientali attraverso pagamenti condizionati a fornitori volontari

Plačila za ekosistemske storitve (PES) lahko opredelimo kot pregleden sistem za dodatno zagotavljanje okoljskih storitev s pogojnimi plačili prostovoljnimi izvajalci.

(Dacconi, L. (2012). "Redefining payments for environmental services". Ecological Economics.)

PES sono stati applicati comunemente nella gestione forestale, ma esistono pochissime applicazioni nelle aree costiere

PES se pogosto uporabljajo pri gospodarjenju z gozdovi, na obalnih območjih je zelo malo aplikacij

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Obiettivo del progetto
Cilj projekta

L'obiettivo generale è quello di:
Splošni cilj je, da:

Valutare e testare la fattibilità economica di finanziare la protezione della Biodiversità nei Siti NATURA2000 nell'area interregionale italiana e slovena

oceniti in preizkusiti ekonomsko izvedljivost za financiranje zaštite biotske raznovrstnosti na območjih NATURA2000 v medregionalnem prostoru Italije in Slovenije

Applicazione pilota di Sistemi di pagamento dei servizi ecosistemici (PES).
Pilotska uporaba a Plačevanje za sistem ekosistemskih storitev (PES).

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PILLOLE DI PROGETTO / PROJEKT NE KRATKO	
Acronym	ECO-SMART
Programma	Interreg V-A Italia-Slovenia 2014-2020
Program	Interreg V-A Italia-Slovenia 2014-2020
Tema strategico	Rafforzare la gestione integrata degli ecosistemi per uno sviluppo sostenibile del territorio
Strategica tema	Krepitve celostnega upravljanja ekosistemov za trajnostni razvoj območja
Durata	01.02.2020 - 31.01.2022
Trajanje	
Budget	€ 782.076,00
Proračun	
Co-financing FESR	€ 539.586,79
Sofinanciranje	

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Partenariato/Partnerstvo	
5 partner: 3 partner italiani, 2 partner sloveni	
5 partnerjev: 3 italijanski partnerji, 2 slovenski partnerji	
Lead partner	Regione del Veneto/ Dežela Veneto
Vodilni partner	
Partner Italiani	Comune di Monfalcone/Občina Monfalcone
Italijanski partnerji	Università di Padova/Univerza v Padovi - Dipartimento Ingegneria Industriale - Osservatorio per lo Sviluppo Industriale
Partner Sloveni	RRC Regionalni Razvojni Centri Koper
Slovenski partnerji	Centro Regionale di Sviluppo di Capodistria
	ZRS - Znanstveno-raziskovalno središče Koper
	Centra di Ricerche Scientifiche Capodistria

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Obiettivi specifici di progetto Posebni cilji projekta	
1. Valutazione della vulnerabilità ai cambiamenti climatici di 5 Siti appartenenti alla Rete NATURA 2000	
Ocena ranljivosti 5 območij, ki spadajo v omrežje NATURA 2000, zaradi podnebnih sprememb	
Regione Veneto/ Dežela Veneto:	
• Laguna di Caorle / Izliv reke Timent (IT3250033)	
• Foce del Tagliamento / Izliv reke Timent (IT3250040)	
• Valle Vecchia - Zumele - Valli di Bibione (IT3250041)	
Friuli Venezia Giulia / Furlanija Julijska krajina	
• Cavana di Monfalcone / Cavana v Trzinu (IT3330007)	
Slovenia/slovenija	
• Riserva naturale Val Stagnon/ Natural Reserve of Škocjanski (SI5000008)	

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Obiettivi specifici di progetto	
2. Piano di adattamento ai cambiamenti climatici supportato da applicazioni PES in 3 aree pilota: 2 in Italia e 1 in Slovenia	
Načrt prilagajanja podnebnim spremembam, podprt z aplikacijo PES na 3 pilotnih območjih: 2 v Italiji in 1 v Sloveniji	
3. Divulgazione di procedure armonizzate per la loro applicazione in relazione ai servizi ecosistemici e metodi per la progettazione e conservazione della biodiversità nel	
Rete NATURA 2000/razširitev usklajenih postopkov za njihovo uporabo v zvezi z ekosistemskimi storitvami in metodami za načrtovanje in ohranjanje biotske raznovrstnosti v Omrežje NATURA 2000.	

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Alcuni risultati del progetto Nekaj rezultatov projekta	
• Migliorare la capacità di monitoraggio degli impatti dei cambiamenti climatici e la pianificazione di misure di adattamento per limitare gli impatti sulla Biodiversità dei Siti NATURA 2000 in Italia e Slovenia	
Izboljšati zmogljivost spremljanja vplivov podnebnih sprememb in načrtovanje ukrepov za prilagajanje za omejevanje vplivov na biotsko raznovrstnost območij NATURA 2000 v Italiji in Sloveniji	
• Testare e applicare una metodologia innovativa (PES) per la conservazione sostenibile della natura	
Preizkusiti in uporabiti inovativno metodologijo (PES) za trajnostno ohranjanje narave	
• Creare una rete di attori locali (pubblici, privati) che lavorano per lo sviluppo sostenibile locale...	
Ustvarite mrežo lokalnih akterjev (javni, zasebni), ki delajo za lokalni trajnostni razvoj ...	

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Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000	
ITALIA-SLOVENIJA	
ECO-SMART	
Tržišče ekosistemskih storitev za napredno politiko zaštite območij NATURA 2000	
Grazie per l'attenzione! Hvala za pozornost!	
Thank you for attention!	
www.ita-slo.eu/eco-smart	
Progetto finanziato dal Programma per la Cooperazione Interregionale V-A Italia-Slovenia 2014-2020, del Fondo europeo di sviluppo regionale e dei fondi nazionali pubblici italiani. Progetto cofinanziato in attività programmate sostenibili dal FESR V-A Slovenia 2014-2020 e dal Fondo europeo di sviluppo regionale e dei fondi nazionali pubblici sloveni.	
Progetto V-A 04.09.2020	

b) Presentazione in lingua inglese/Predstavitev v angleščini

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Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000
Tržišče ekosistemskih storitev za napredno politiko zaštite območij NATURA 2000

Marine habitat protection and CO2 reduction along coastal areas: scientific and social aspects

Alberto Barousse, Università degli studi di Padova

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Interreg
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Progetto standard co-finanziato dal Fondo europeo di sviluppo regionale
Standardni projekti sofinancirani Evropski sklad za regionalni razvoj

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The project context

International framework

- United Nations Framework Convention on Climate Change
- PARIS 2015 COP21 (COP21)
- SUSTAINABLE DEVELOPMENT GOALS
- NATURA 2000

Keywords

- Climate Change
- Biodiversity
- Ecosystems
- Ecosystem Services
- Adaptation

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Climate change in the Mediterranean region

The main changes

- Air temperature
- Precipitation
- Sea Temperature
- Sea level
- Acidification
- ...

WARMING OF 2°C
IF WE DO NOT REACH PREINDUSTRIAL LEVELS, WE WILL BE EXPOSED TO SEVERE CONDITIONS FOR MANY WESTERN AND LAND ECOSYSTEMS THAT ARE POSSIBLY EXCEEDING 10,000 YEARS

WIDESPREAD REGIONAL TEMPERATURE INCREASE WILL BE 2.2°C AT 2100, POSSIBLY EXCEEDING 3.8°C IN 2100

ABOUT 15 CITIES WILL EXCEED PREINDUSTRIAL LEVELS AND UNLESS WE TAKE CLIMATE ACTION, WE WILL BE EXPOSED TO SEVERE CONDITIONS FOR MANY WESTERN AND LAND ECOSYSTEMS THAT ARE POSSIBLY EXCEEDING 10,000 YEARS

Source: MedECC (2020) Assessment by the MedECC Network Science-policy Interface

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Adapting to climate change

How to adapt a territory and its complexity (social, economic, ecological) to inevitable climate changes?

adaptation plans
(supported by PES application)

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Ecosystem service (ESS) concept

Ecosystem services (ESS) can be defined as contributions of ecosystem structure and function (in combination with other inputs) to human well-being
(Burkhard et al., 2012; Burkhard B. & Maes J. Eds., 2017)

The three ESS categories according to the *Common International Classification of Ecosystem Services (CICES)* are:

- Provisioning Services
- Cultural Services
- Regulating Services

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ECO-SMART

Payment for ecosystem services (PES) concept

Payments for ecosystem services (PES) can be defined as a transparent system for the additional provision of environmental services through conditional payments to voluntary providers
(Tacconi, I. (2012). "Redefining payments for environmental services". Ecological Economics.)

PES have been commonly applied in forest management, very few applications exist in coastal areas

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Project objectives

The general objective is to

- assess and test the economic feasibility to fund the protection of Biodiversity in NATURA2000 Sites in the interregional area of Italy and Slovenia

through the

pilot application of a
Paying for Ecosystem Services (PES) system

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PROJECT PILLS

Acronym	ECO-SMART
Programme	Interreg V-A Italia-Slovenia 2014-2020
Strategic topic	Strengthen an integrated management of ecosystems to support local sustainable development
Length	01.02.2020 - 31.01.2022
Budget	€ 782.076,00
Co-financing FESR	€ 539.586,79

Esof_Trieste 04.09.2020

Interreg
ITALIA-SLOVENIJA
ECO-SMART

PARTNERSHIP

5 partner (3 Italian, 2 Slovenian)

Lead partner
Veneto Region

Italian partners
Municipality of Monfalcone
University of Padova - Dept. of Industrial Engineering - CESQA

Slovenian Partners
RRC Koper Regional Development Center of Koper
ZRS Koper

Associate partners
Italian Ministry of Environment
Natura 2000 network
EUSAIR authority
EUSALP authority

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PROJECT SPECIFIC OBJECTIVES

1. Climate Change Vulnerability assessment of 5 Sites belonging to the NATURA 2000 Network:

- Veneto region:
 - Caorle Lagoon - Tagliamento mouth (IT3250033)
 - Tagliamento mouth (IT3250040)
 - Valle Vecchia - Zumele - Valli di Bibione (IT3250041)
- Friuli Venezia Giulia
 - Cavana di Monfalcone (IT3330007)
- Slovenia
 - Natural Reserve of Škocjanski (SI5000008)

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PROJECT SPECIFIC OBJECTIVES

2. Climate change **adaptation plan** supported by **PES application** in 3 pilota areas: 2 in Italy and 1 in Slovenia

3. **Divulgation of harmonized procedures** for their application related to ecosystem services and methods for the design and conservation of biodiversity in the NATURA 2000 Network.

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Some project results

- Improve the monitoring capacity of the impacts of climate change and the planning of measures for the adaptation to limit the impacts on the Biodiversity of NATURA 2000 Sites in Italy and Slovenia
- Test and apply an innovative methodology (PES) for sustainable nature conservation
- Create a network of local actors (public, private) working towards local sustainable development
- ...

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Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000

Tržišče ekosistemskih storitev za napredno politiko zaštite območij NATURA 2000

**Grazie per l'attenzione!
Hvala za pozornost!**

Thank you for attention!

www.ita-slo.eu/eco-smart

Progetto finanziato nell'ambito del Programma per la Cooperazione INTERREG V-A Italia Slovenia 2014-2020, del Fondo europeo di sviluppo regionale e dei fondi nazionali pubblici italiani. Projekt sofinancirajo v okviru programa sodelovanja INTERREG V-A Italija Slovenija 2014-2020 iz sredstev Evropskega sklada za regionalni razvoj in nacionalnih javnih proračunov.

Trieste, 04.09.2020



2. AMEU: Conferenza internazionale online “All About People 2021: Digital Transformation in Science, Education and Arts. Mednarodna spletna konferenca “All About People 2021: Digital Transformation in Science, Education and Arts.

18 marzo 2021/18. marca 2021

Relatori/**Poročevalci**: Alessandro Manzardo, Liliana Vižintin

a) Presentazione del progetto Eco-smart/ **Predstavitev projekta Eco-smart**

31/3/2021 ALL ABOUT PEOPLE 2021 PROGRAM

⏪ Thu 15:00 ZOOM STAGE 4

HUMANITIES V
Darja Piciga

Moderators: Darja Piciga and Lenart Škof

BUILDING BACK BETTER – A GREENER, MORE RESILIENT EUROPE:

AN INTEGRAL FRAMEWORK OF LEARNING FOR SUSTAINABILITY TRANSITIONS AND EUROPEAN GREEN DEAL

Opening words:

Lenart Škof, *Science and Research Centre Koper & AMEU ISH*

Invited speakers:

Darja Piciga, *Citizens' Initiative for an Integral Green Slovenia*
SUSTAINABILITY TRANSITIONS FOR THE EUROPEAN GREEN DEAL WITH A NEW KNOWLEDGE BASE AND THE MODEL OF AN INTEGRAL GREEN SLOVENIA

Nives Dolšak & Aseem Prakash, *University of Washington, Seattle, USA*
THREE FACETS OF CLIMATE JUSTICE IN THE U.S.A.

Alexander Schieffer, *Trans4m Center for Integral Development and Home for Humanity, Switzerland/France*
INTEGRAL EUROPE?! HOW THE INTEGRAL WORLDS THEORY AND PRACTICE CAN CONTRIBUTE TO THE BUILDING OF GREENER, MORE RESILIENT EUROPE

Cliona Howie, *European Institute of Innovation and Technoloav. Climate-KIC*

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1/1

31/3/2021

ALL ABOUT PEOPLE 2021 PROGRAM



Thu 15:00 ZOOM STAGE 4

382. New Approach For The Management of Coastal Ecosystems In The Italian-Slovenian Regions: The Ita-Slo Interreg Project Eco-Smart
 Alessandro Manzardo, CESQA, Department of Industrial Engineering, University of Padova, Italy
 Alberto Barausse, Department of Biology, University of Padova, Italy
 Mirco Piron, CESQA, Department of Industrial Engineering, University of Padova, Italy
 Angelica Guidolin, CESQA, Department of Industrial Engineering, University of Padova, Italy
 Lara Endrizzi, Department of Biology, University of Padova, Italy

New Approach For The Management of Coastal Ecosystems In The Italian-Slovenian Regions: The Ita-Slo Interreg Project Eco-Smart

Ecosystems and their services are vital for human existence and good quality of life¹. As such their conservation is central to international policies for Sustainable Development². Despite playing such an important role, ecosystems quality has significantly degenerated in past years so that globally, about 75% of the terrestrial environment and 40% of the marine environment are now severely altered¹. Within this framework emerged the need to develop and test new approaches to facilitate the conservation of ecosystems and their value. Europe has clearly stated the importance of preserve and restore those ecosystems that are more at risk due to the effect of climate change³. Among the different ones, coastal transitional ecosystems of the Adriatic, due to the delicate balance that characterizes the habitats of these areas, are a priority in regional environmental policies. The aim of this paper is to present the new approach developed to improve the climate resilience of NATURA 2k sites within the project ECO-SMART. Funded by INTERREG V-A Italy-Slovenia Cooperation Program 2014-2020, the project builds on the principle that the value of ecosystems services can be assessed and properly evaluated in economic terms. Through the application of paying for ecosystems services schemes, this value can be increased and the quality of ecosystem improved so that coastal regions can become more and more resilient to the effects of climate changes. The new approach will be presented and first project outcomes related to pilot applications in three NATURA 2k sites (2 Itav. 1 Slovenia) will be discussed.

 Sessions
  Talks
  Speakers
  Search
  About

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31/3/2021

ALL ABOUT PEOPLE 2021 PROGRAM



Thu 15:00 ZOOM STAGE 4

382. New Approach For The Management of Coastal Ecosystems In The Italian-Slovenian Regions: The Ita-Slo Interreg Project Eco-Smart
 Alessandro Manzardo, CESQA, Department of Industrial Engineering, University of Padova, Italy
 Alberto Barausse, Department of Biology, University of Padova, Italy
 Mirco Piron, CESQA, Department of Industrial Engineering, University of Padova, Italy
 Angelica Guidolin, CESQA, Department of Industrial Engineering, University of Padova, Italy
 Lara Endrizzi, Department of Biology, University of Padova, Italy

New Approach For The Management of Coastal Ecosystems In The Italian-Slovenian Regions: The Ita-Slo Interreg Project Eco-Smart

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 Sessions
  Talks
  Speakers
  Search
  About

<https://submission.almamater.si/mobile/#:382>

b) Presentazione in lingua italiana/slovena - Predstavitev v italijanščini /slovenščini:

Relatore/Poročevalc: Alessandro Manzardo

Interreg
ITALIA-SLOVENIJA
ECO-SMART

Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000

Tržišče ekosistemskih storitev za napredno politiko zaštite območij NATURA 2000

Nuovo approccio per la gestione degli ecosistemi costieri nelle regioni Italo-slovene: il progetto ITA-SLO Interreg Eco-smart

Nov pristop za upravljanje obalnih ekosistemov v italijansko-slovenskih regijah: projekt ITA-SLO Interreg Eco-smart

Alessandro Manzardo

AMEU, 18/03/2021

Interreg
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ECO-SMART

I cambiamenti climatici nel Mediterraneo
Klimatske spremembe v Sredozemlju

Fatti principali/Glavna dejstva

- Eventi climatici estremi/ Upravljanje z izrednimi dogodki
- Cuneo salino/ Klin slane vode
- Scarsità idrica/ Pomanjkanje vode

Source: MedECC (2019) A preliminary assessment by the MedECC Network Science policy interface

Come adattare un territorio e la sua complessità agli inevitabili cambiamenti climatici, come monitorare tali cambiamenti? Come si possono attuare misure efficaci? Kako prilagoditi ozemlje in njegovo kompleksnost neizogibnim podnebnim spremembam, kako te spremembe spremljati? Kako je mogoče izvajati učinkovite ukrepe?

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Progetto in pillole/Projekt na kratko

Acronimo/ Kratica	ECO-SMART	Lead partner/ Vodilni partner	Regione del Veneto/ Dežela Venecija
Programma/ Program	Interreg V-A Italia-Slovenia 2014-2020		
Tema strategico/ Strategijska tema	Rafforzare la gestione integrata degli ecosistemi per uno sviluppo sostenibile del territorio	Partners italiani/ Italijanski partnerji	Comune di Montebelluna/ Občina Monfalcone
Durata/ Trajanje	01.04.2020 - 31.03.2022	Partners sloveni/ Slovenski partnerji	RRC Regionalni Razvojni Center Koper
Budget/ Proračun	€ 858.546,61		Centro Regionale di Sviluppo di Capodistria
Co-finanziamento/ Sofinanciranje	€ 810.479,14		285. Sposredstvo-raziskovalno središče Koper

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Obiettivo del progetto
Pomembnost projekta

L'obiettivo generale del progetto è valutare e testare a livello interregionale la fattibilità economica per finanziare azioni di salvaguardia della biodiversità delle aree NATURA 2000 attraverso applicazioni pilota di sistemi di pagamento per i Servizi Ecosistemici (PES).

Sigolni cilj projekta je oceniti in preizkusiti na medregijskem ravni ekonomsko izvedljivost financiranja dejanj za zaščito bioraznolikosti na območjih NATURA 2000: pilotno uvedbo plačilnih sistemov za ekosistemske storitve (PES).

1. Valutazione della vulnerabilità ai cambiamenti climatici di 5 SIC equivalenti alla Rete NATURA 2000

2. Redazione di piani di adattamento ai cambiamenti climatici nei sistemi tramite modelli PES in 3 aree pilota, due in Italia e una in Slovenia

3. Sviluppo delle procedure armonizzate sulle applicazioni dei servizi ecosistemici e dei metodi per la progettazione e conservazione della biodiversità nelle aree della Rete NATURA 2000

1. Ocene ranljivosti 5 območij, ki spadajo v omrežje NATURA 2000 glede podnebnih sprememb

2. Priprava usklajenih načrtov prilagajanja klimatskim spremembam preko modelov PES na 3 pilotnih območjih, dve v Italiji in ena v Sloveniji

3. Razvijanje usklajenih postopkov o uporabi ekosistemskih storitev in metod za načrtovanje in obnavljanje biotske raznovrstnosti na območjih omrežja NATURA 2000

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Approccio del progetto all'adattamento
Projektalni pristop k adaptaciji

1) Identificazione dei Servizi Ecosistemici
Identifikacija Ekosistemskih storitev

2) Analisi della vulnerabilità
Analiza ranljivosti

3) Pagamento dei Servizi Ecosistemici (PES)

4) Piano di Adattamento
Načrt prilagajanja

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1) Identificazione dei Servizi Ecosistemici (ESS)
Identifikacija Ekosistemskih storitev

I servizi ecosistemici (ESS) possono essere definiti come contributi della struttura e della funzione dell'ecosistema (in combinazione con altri input) al benessere umano.

Ekosistemske storitve (ESS) je mogoče opredeliti kot prispevke strukture in funkcije ekosistema (v kombinaciji z drugimi vložki) k dobremu počutju ljudi.

(Burkhard et al., 2012; Burkhard B. & Maes I. Eds., 2017).

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2) Analisi della Vulnerabilità
Analiza ranljivosti

Identification of ESS

Identification of Habitat, ESS, Hazards

Identification of cause-effect chain

Impact Chain

ESS Evaluation

Adaptive capacity evaluation

Basato sulla struttura dell' ISO 14091 e dei requisiti della ISO 14090

Na podlagi okvira ISO 14091 in zahtev ISO 14090

E.g. Knowledge based communities

E.g. Na znanju temelječe skupnosti

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The Case of the Veneto Region

Laguna di Caorle - Foce del Tagliamento/ Izvir reke Tiličent (IT3250033)

Foce del Tagliamento/ Izvir reke Tiličent (IT3250040)

Valle Vecchia - Zumele - Valli di Bibione (IT3250041)

CARATTERISTICHE DEI SITI:

Presenza di un mosaico ambientale vario costituito da sistemi dunosi antichi e recenti, con numerose basse umide ed acquitrini, valli arginate e ambienti di foce.

LASTNOSTI LOKALITÀ:

Prisotnost raznolikega okoljskega mozaika, sestavljenega iz starejših in novejših sistemov sipin, s številnimi vlažnimi nižinami in močvirji, nasipanimi dolinami in izlivnimi okolji.

Source: NATURA 2000. FORMULARIO STANDARD/STANDARDNI OBRATEK

1) Identificazione dei Servizi Ecosistemici (ESS)

Identifikacija Ekosistemskih storitev

OBBIETTIVO:
CILJ
Identificazione dei servizi ecosistemici (ESS) presenti nei siti pilota, attraverso l'utilizzo della classificazione CICES.

RISULTATI ATTESI:
1. Individuazione degli ESS presenti e definizione degli ESS più rilevanti
Opredelitev sedanjega ESS in opredeljenih najpomembnejša ESS
2. Individuazione degli stakeholder
Identifikacija zainteresiranih strani
3. Individuazione degli habitat presenti nei siti pilota
Opredelitev habitatov prisotnih na pilotnih lokacijah

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

WP 1 - Development and implementation of the climate change monitoring system in the Natura 2000 sites of the High Adriatic

Activity 1 Data collection for ESS identification

STAKEHOLDER CONSULTATION PROCEDURE
RESEARCH CAPACITY IN COOPERATION
DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

2) Analisi della vulnerabilità

Analiza ranljivosti

OBBIETTIVO/CILJ
Analisi degli habitat ed esposizione ai pericoli
Analiza habitatov in izpostavljenost nevarnostim

RISULTATI ATTESI:
1. Habitat/ESS vulnerability
2. Impact chain / Utidna veriga

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STAKEHOLDER CONSULTATION PROCEDURE
RESEARCH CAPACITY IN COOPERATION
DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

2) Analisi della vulnerabilità

Analiza ranljivosti

Hazard Identification
Identifikacija nevarnosti

IPCC (AR4 Report: AR5 Report)
Expert Judgement

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DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

Laguna di Corte- Foce del Tagliamento

Izvir reke Tilment

Vulnerability Assessment: Habitats

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

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DELIVERABLE 1.2: ESS IDENTIFICATION

Laguna di Corte- Foce del Tagliamento

Izvir reke Tilment

Vulnerability Assessment: Relevant Ecosystem Services

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

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DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

Laguna di Corte- Foce del Tagliamento

Izvir reke Tilment

Vulnerability Assessment: Results

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

WP 1 - Development and implementation of the climate change monitoring system in the Natura 2000 sites of the High Adriatic

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DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

Laguna di Corte- Foce del Tagliamento

Izvir reke Tilment

Hazard
Habitat
ESS

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

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STAKEHOLDER CONSULTATION PROCEDURE
RESEARCH CAPACITY IN COOPERATION
DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

Dove siamo adesso? Definizione di servizi ecosistemici a pagamento

kje smo zdaj? Plačilo za opredeljene ekosistemskih storitev

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

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RESEARCH CAPACITY IN COOPERATION
DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

Conclusioni

Zaključki

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

WP 1 - Development and implementation of the climate change monitoring system in the Natura 2000 sites of the High Adriatic

Activity 1 Data collection for ESS identification

STAKEHOLDER CONSULTATION PROCEDURE
RESEARCH CAPACITY IN COOPERATION
DELIVERABLE 1.1: ESS IDENTIFICATION
DELIVERABLE 1.2: ESS IDENTIFICATION

Conclusioni

Zaključki

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MARKET FOR ECOSYSTEM SERVICES FOR AN ADVANCED PROTECTION POLICY OF NATURA 2000 AREAS

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DELIVERABLE 1.2: ESS IDENTIFICATION

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Relatrice/Poročevalka: Liliana Vižintin, Susanna Škof

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The logo for Interreg Italia-Slovenia features the word "interreg" in a bold, sans-serif font, followed by "ITALIA-SLOVENIA" in a smaller, all-caps font. Below this, there is a green rectangular box containing the words "ECO SMART" in white, uppercase letters. To the right of the box is a small European Union flag. At the bottom left of the logo area, the website address "www.interregitaliaslovenia.europa.eu" is written in a small font.

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Eco-SMART
The smart way to grow together



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KOMUNIKACIJA (za aktivacijo skupnosti)
 COMUNICAZIONE (per attivazione comm

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3. FOV - International scientific conference on the development of organizational sciences: Values, competencies and changes in organizations

Relatrice/**Poročevalka**: Liliana Vižintin

Data/**Datum**: 11-12.05.2021

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Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000
Tržišče ekosistemskih storitev za napredno politiko zaštite območij NATURA 2000

40. mednarodna konferenca o razvoju organizacijskih znanosti:
Vrednote, kompetence in spremembe v organizacijah
Portorož, 17. - 19. marec 2021

Krepitev zmogljivosti skupnosti o vlogi ekosistemskih storitev pri prilagajanju na podnebne spremembe
Sviluppo delle capacità comunitarie riguardo al ruolo dei servizi ecosistemici nell'adattamento ai cambiamenti climatici
Community capacity building regarding the role of ecosystem services in climate change adaptation

LILIANA VIŽINTIN
Mediterranski inštitut za okoljske študije, Znanstveno-raziskovalno središče Koper, Slovenija

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TRŽIŠČE EKOSISTEMSKIH STORITEV ZA NAPREDNO POLITIKO ZAŠČITE OBMOČIJ NATURA 2000

Program	Interreg V-A Italia-Slovenia 2014-2020
Tržanje	01.04.2020 – 30.6.2022
Celotna vrednost:	€ 888.846,61
Sofinanciranje ESFR	€ 728.784,89

MERCATO DEI SERVIZI ECOSISTEMICI PER UNA POLITICA AVANZATA DI PROTEZIONE DELLE AREE NATURA 2000

L'acronimo	ECO-SMART
Programma	Interreg V-A Italia-Slovenia 2014-2020
Durata	01.04.2020 – 30.6.2022
Budget totale	€ 888.846,61
Co-finanziamento ESFR	€ 728.784,89

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PILOTNA OBMOČJA NATURA 2000
SITI PILOTA NATURA 2000

Pilotna območja Natura 2000 v deželi Veneto
Siti pilota Natura 2000 in Veneto
Laguna di Caorle - Foce del Tagliamento / IT3250033
Foce del Tagliamento / IT3250040
Vallée Vecchia - Zumele - Valli di Bibione / IT3250041
Laguna superiore di Venezia / IT3250031

Pilotno območje Natura 2000 v Furlaniji - Juljski krajini
Siti pilota Natura 2000 in Friuli Venezia Giulia
Cavana di Monfalcone / IT3230007

Pilotno območje Natura 2000 v Sloveniji
Sito pilota Natura 2000 in Slovenia
Škocjanski Zatok / SI5000008, SI3000252

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Slovensko pilotno območje: območje Natura 2000 Škocjanski zatok
Sito pilota sloveno - area Natura 2000 Val Stagnon

Okrog 122 ha veliko sredozemsko mokrišče na obrobju mesta Koper na slovenski obali ob severovzhodnem Jadranu. Upravljaev je nevladna organizacija Društvo za opazovanje in proučevanje ptic Slovenije (DOPPS).

La Riserva naturale Val Stagnon è una zona umida mediterranea di circa 122 ettari della costa slovena situata nella periferia della città di Capodistria che si affaccia all'Alto Adriatico. È gestita dalla ONG DOPPS: Birdlife Slovenia.

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Slovensko pilotno območje: območje Natura 2000 Škocjanski zatok
Sito pilota sloveno - area Natura 2000 Val Stagnon

Posebne abiotične razmere ustvarjajo zelo raznoliko okolje z brakičnimi (poislanimi) in sladkovodnimi habitatmi. Skoraj tri četrtine območja obsega poislana laguna z gnezdnimi otoki, morskimi močvirji in polji (na sliki: temno sivo označeno območje).

Particolari condizioni abiotiche creano un ambiente molto diversificato con habitat di acqua dolce e salmastra. Quasi tre quarti dell'area è coperta dalle paludi salmastre, gli isolotti dove nidificano gli uccelli e le veline (figura: area contrassegnata in grigio scuro).

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Uvod
INTRODUZIONE

Ekosistemske storitve so vse dobrine in koristi, ki jih ima človek od ekosistemo. So bistvene za preživetje človeka in za njegov družbeni in gospodarski razvoj. Zaradi vplivov podnebnih sprememb, degradacije ekosistemo in upada biotske pestrosti je ogrožena tudi zmogljivost ekosistemo, da bi se mogli nadaljevanje zagotavljati ekosistemskih storitev. I storitve ekosistemo so tudi tiste, ki so koristne za človeka in ekosistemo. So bistvene za preživetje človeka in za njegov družbeni in gospodarski razvoj. Zaradi vplivov podnebnih sprememb, degradacije ekosistemo in upada biotske pestrosti je ogrožena tudi zmogljivost ekosistemo, da bi se mogli nadaljevanje zagotavljati ekosistemskih storitev.

CLIMATE CHANGE IMPACT ON FRESHWATER ECOSYSTEMS

CLIMATE CHANGE IMPACT ON FRESHWATER ECOSYSTEMS

CLIMATE CHANGE IMPACT ON FRESHWATER ECOSYSTEMS

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Uvod
INTRODUZIONE

Kot nenapredno znanje krepitve zmogljivosti skupnosti, v okviru projekta opazujemo razvoj, ki se je pojavil v območju Val Stagnon, ki je bilo vključeno v program opazovanja in proučevanja ptic Slovenije (DOPPS).

Il progetto si concentra sulla capacità delle comunità di migliorare le loro competenze e le loro capacità di adattamento ai cambiamenti climatici, in particolare attraverso la partecipazione attiva delle comunità locali.

Il progetto si concentra sulla capacità delle comunità di migliorare le loro competenze e le loro capacità di adattamento ai cambiamenti climatici, in particolare attraverso la partecipazione attiva delle comunità locali.

Il progetto si concentra sulla capacità delle comunità di migliorare le loro competenze e le loro capacità di adattamento ai cambiamenti climatici, in particolare attraverso la partecipazione attiva delle comunità locali.

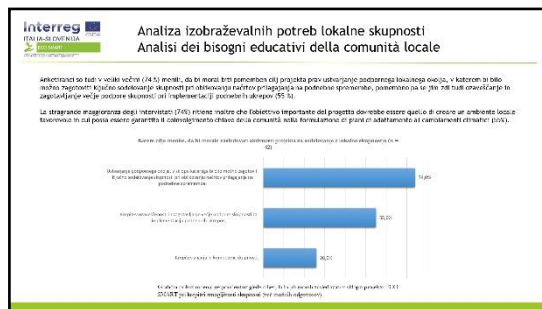
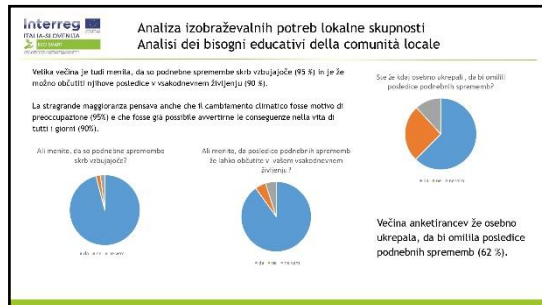
Interreg
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ECO-SMART

Analiza izobraževalnih potreb lokalne skupnosti
Analisi dei bisogni educativi della comunità locale

Analizziamo, con le nostre forze, le esigenze educative della comunità locale, in particolare attraverso la partecipazione attiva delle comunità locali.

Analizziamo, con le nostre forze, le esigenze educative della comunità locale, in particolare attraverso la partecipazione attiva delle comunità locali.

Analizziamo, con le nostre forze, le esigenze educative della comunità locale, in particolare attraverso la partecipazione attiva delle comunità locali.



4. 6th ANNUAL EUSAIR FORUM OF EU STRATEGY FOR THE ADRIATIC AND IONIC REGION ALONG THE COASTS OF THE SHARED SEA

Relatori/**Poročevalci**: Alberto Barausse , Liliana Vižintin

Data/**Datum**: 11-12.05.2021



a) Presentazione in lingua italiana/slovena - **Predstavitev v italijanščini/slovenščini**

Relatore/**Poročevalc**: Alberto Barausse

6th Forum
of the EU Strategy for the Adriatic and Ionian Region
Along the coasts of the shared sea
Izola, 11-12 May 2021

Migliorare la qualità degli ecosistemi e la resilienza ai cambiamenti climatici: una proposta metodologica del progetto Interreg Italy-Slovenia ECO-SMART

Izboljšanje kakovosti ekosistema in odpornosti na podnebne spremembe: metodološki predlog Interreg Italija-Slovenija ECO-SMART

Alberto Barausse¹, Alessandro Manzano², Mirco Piron², Angelica Guidolin², Lara Endrizzi², Liliana Vižintin³

1 Dept. of Biology, University of Padova, Italy / *Oddelek za biologijo, Univerza v Padovi Italija, alberto.barausse@unipd.it*
2 CESQA, Dept. of Industrial Engineering, University of Padova, Italy / *oddelek za industrijsko inženirstvo*
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Il cambiamento climatico nella regione mediterranea
Podnebne spremembe v sredozemski regiji

Along the coasts of the shared sea
Izola, 11-12 May 2021

Fatti principali/Glavna dejstva

- Eventi climatici estremi/
- Upravljanje z izrednimi dogodki
- Cuneo salino/ Klin slane vode
- Scarsità idrica/ Pomanjkanje vode
-

Source: MARECC (2020) A preliminary assessment by the MARECC Network Science-policy interface

Come adattare un territorio e la sua complessità agli inevitabili cambiamenti climatici, come monitorare tali cambiamenti? Come si possono attuare misure efficaci?
Kako prilagoditi ozemlje in njegovo kompleksnost netržninim podnebnim spremembam, kako te spremembe spremljati? Kako je mogoče izvajati učinkovite ukrepe?

ECO-SMART: Mercato dei servizi Ecosistemici per una politica avanzata
di protezione delle aree NATURA

Along the coasts of the shared sea
Izola, 11-12 May 2021

Project acronym	ECO-SMART
Programma	Interreg V-A Italy-Slovenia 2014-2020
Durata	01.04.2020 - 31.03.2022
Trajanje	
Budget	€ 858.546,61
Proračun	
Co-finanziamento	€ 729.764,59
Sofinanciranje	

Progetto pilota su sostenibilità, ricerca e applicazione
Pilotni projekti o trajnosti, raziskave + aplikacija

Lead partner: Veneto Region (Italy)
Partners di progetto/Projektni partnerji:
• CESQA @ Industrial Eng. Dept., University of Padova (Italy)
• Municipality of Montebelluna (Italy)
• Koper Regional Development Centre (Slovenia)
• Science and Research Centre of Koper (Slovenia)

Partners associati/Pridruženi partnerji:
• Italian Ministry for the Environment and safeguarding of Territory and Sea
• Natura 2000 network
• EUSAIR authority
• EUSALP authority

Obiettivi del progetto
Cilji projekta

Along the coasts of the shared sea
Izola, 11-12 May 2021

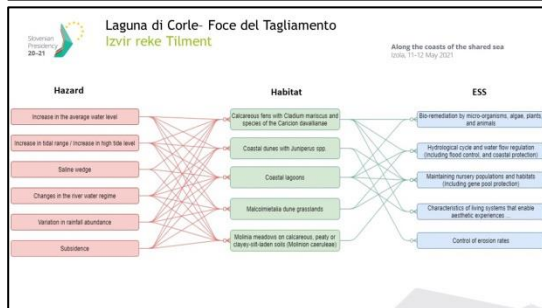
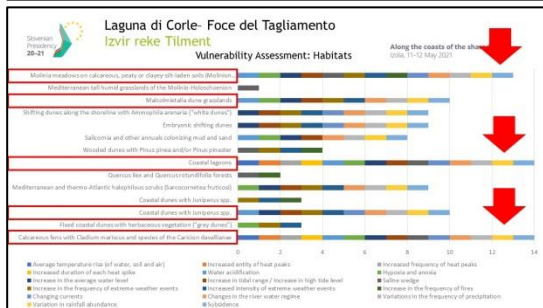
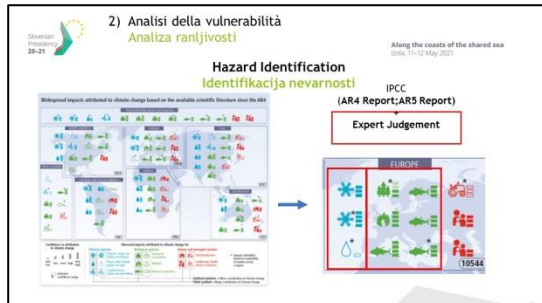
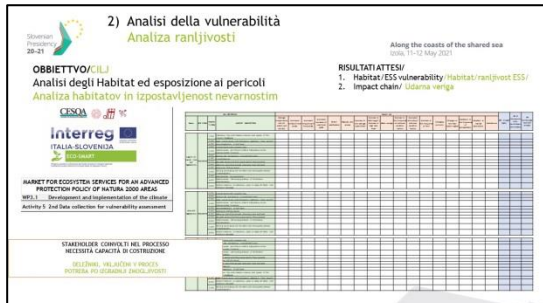
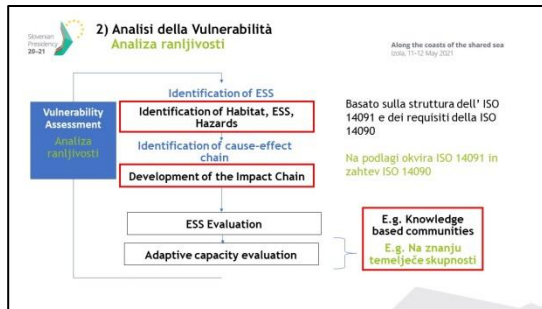
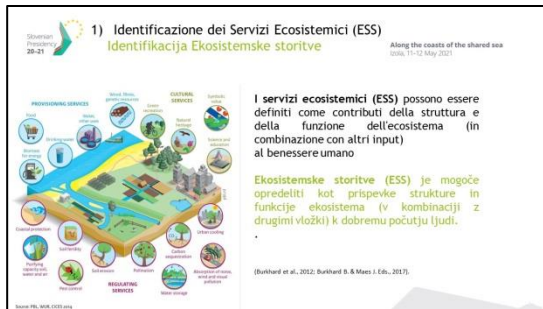
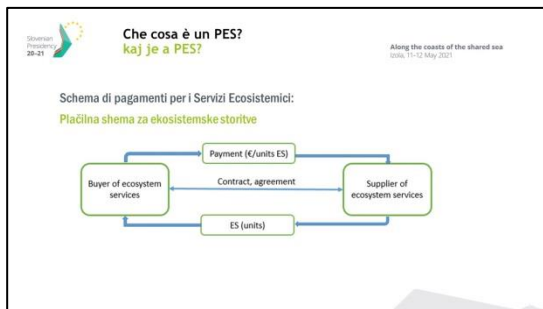
L'obiettivo generale del progetto è valutare e testare a livello interregionale la fattibilità economica per finanziare azioni di salvaguardia della biodiversità delle aree NATURA 2000 attraverso applicazioni pilota di sistemi di pagamento per i Servizi Ecosistemici (PES).

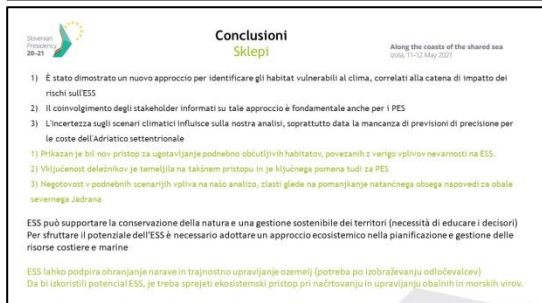
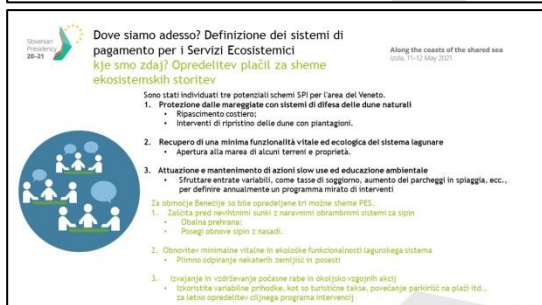
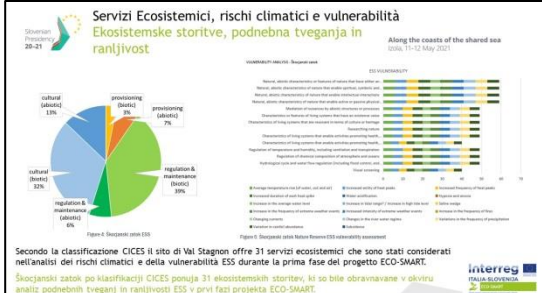
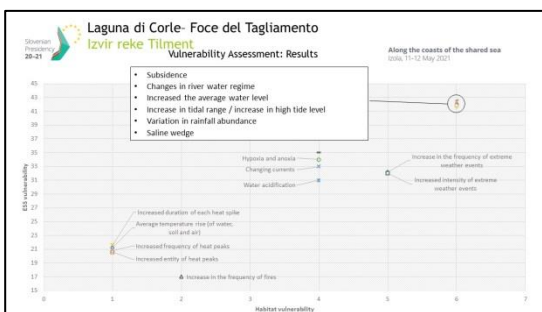
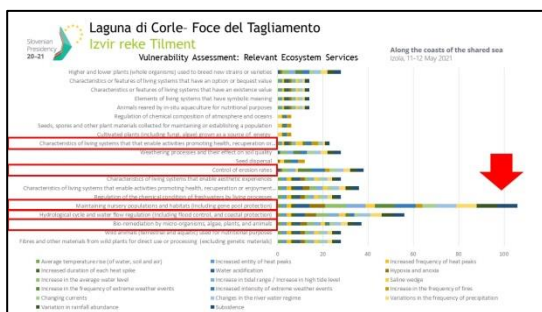
Spilni cilj projekta je oceniti in preizkusiti na medregijski ravni ekonomsko izvedljivost financiranja dejanj za zaščito bioraznolikosti na območjih NATURA 2000 - pilotno uvedbo plačilnih sistemov za ekosistemske storitve (PES).

1. Valutazione della vulnerabilità ai cambiamenti climatici di 5 siti appartenenti alla Rete NATURA 2000
2. Redazione di piani di adattamento ai cambiamenti climatici nei sistemi di pagamento PES in 3 aree pilota, due in Italia e una in Slovenia
3. Divulgazione delle procedure armonizzate sulle applicazioni dei servizi ecosistemici e dei metodi per la progettazione e conservazione della biodiversità nelle aree della Rete NATURA 2000.

1. Ocena ranljivosti 5 območij, ki spadajo v omrežje NATURA 2000 glede podnebnih sprememb
2. Priprava trajnostnih načrtov prilagajanja klimalne spremembe preko modelov PES na 3 pilotnih območjih, dve v Italiji in ena v Sloveniji
3. Razširjanje usklajenih postopkov o uporabi ekosistemskih storitev in metod za načrtovanje in obnovo/bioraznolikosti na območjih omrežja NATURA 2000.

Eventi divulgativi / informacijske prireditve
Versione N. / Verzija št.: 1





b) Presentazione in lingua italiana/slovena - Predstavitev v italijanščini/slovenščini

Relatrice/Poročevalka: Liliana Vižintin

6th Forum
Along the coasts of the shared sea
19-21 May 2021

Migliorare la qualità degli ecosistemi e la resilienza ai cambiamenti climatici: una proposta metodologica del progetto Interreg Italia-Slovenia ECO-SMART

Izboljšanje kakovosti ekosistema in odpornosti na podnebne spremembe: metodološki predlog projekta Italija-Slovenija Interreg ECO-SMART

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Mediterranean Institute for Environmental Studies – MIES,
Science and research Centre Koper, Slovenia
Along the coasts of the shared sea
19-21 May 2021

Istituto nel 2018
Gruppo di ricerca interdisciplinare

La nostra missione è diventare un Centro di riferimento di ricerca e innovazione che in modo olistico e integrato affronti le dimensioni ambientali e più ampie, sociali ed economiche dello sviluppo sostenibile della regione mediterranea.

Ustanovljen leta 2018
Interdisciplinarna raziskovalna skupina

Naše poslanstvo je postati referenčno središče raziskav in inovacij, ki na holističen in celosten način obravnava okoljske in širše družbene, gospodarske razsežnosti trajnostnega razvoja sredozemske regije.

<https://www.zrs-kp.si/>

Project: Ecosystem Services Market for an Advanced Policy to Protect NATURA 2000 areas
Along the coasts of the shared sea
19-21 May 2021

Project acronym	ECO-SMART
Programma	Interreg V-A Italia-Slovenia 2014-2020
Durata	01.04.2020 - 31.03.2022
Budget	€ 858.546,61
Co-finanziamento	€ 729.764,59

Lead partner: Veneto Region (Italy)
Partners of progetto/Projektni partnerji:
• CEISQA di Industrial Eng. Dept., University of Padova (Italy)
• Municipality of Montebelluna (Italy)
• Koper Regional Development Centre (Slovenia)
• Science and Research Centre of Koper (Slovenia)
Partners associated/Priloženi partnerji:
• Italian Ministry for the Environment and safeguarding of Territory and Sea
• Natura 2000 network
• EUSAR authority
• EUSAR Authority

Lo scopo generale del progetto ECO-SMART è valutare, a livello transfrontaliero, la fattibilità di misure per proteggere la biodiversità delle aree NATURA 2000, attraverso una metodologia comune per valutare la vulnerabilità dell'ETS e progettare misure di adattamento che potrebbero essere attuate utilizzando l'introduzione pilota di pagamento per i servizi ecosistemici (PES).

Tužila namen projekta ECO-SMART je na transfrontalierni ravni oceniti izvedljivost ukrepov za zaščito biotske raznovrstnosti območij NATURA 2000 s skupno metodologijo za ocenjevanje vrednosti ETS in načrtovanje ukrepov za prilagoditev, ki so bili izvedeni v okviru pilotne uvedbe plačil za ekosistemne storitve (PES).

The Slovenian pilot case study of project ECO-SMART: Natura 2000 area of Škocjanski zatok
Along the coasts of the shared sea
19-21 May 2021

Figure 2: Škocjanski zatok Natura 2000 area

Figure 3: Škocjanski zatok Natura 2000 area

Škocjanski zatok Nature Reserve is a coastal Mediterranean wetland located near the city of Koper on the Slovenian coast at the North-East Adriatic Sea. It is protected inside Natura 2000 network and also as Nature reserve from 1998 upon the Act on Škocjanski zatok Nature Reserve.

Servizi ecosistemici, rischi climatici e vulnerabilità
Ekosistemске storitve, podnebna tveganja in ranljivost
Along the coasts of the shared sea
19-21 May 2021

Figure 4: Škocjanski zatok ETS

Figure 5: Škocjanski zatok Natura 2000 area vulnerability assessment

Secondo la classificazione CICES Škocjanski zatok offre 31 servizi ecosistemici che sono stati considerati nell'analisi dei rischi climatici e della vulnerabilità ETS durante la prima fase del progetto ECO-SMART.

Škocjanski zatok po klasifikaciji CICES ponuja 31 ekosistemskih storitev, ki so bile obravnavane v okviru analize podnebnih tveganj in ranljivosti ETS v prvi fazi projekta ECO-SMART.

Metodologia comune dei piani di adattamento, azioni di accompagnamento piani e valutazioni di fattibilità
Skupna metodologija prilagoditvenih načrtov, ukrepanj in ocen izvedljivosti
Along the coasts of the shared sea
19-21 May 2021

I risultati attesi della metodologia proposta sono:

- Piani di adattamento con piani d'azione e valutazioni di fattibilità per i siti pilota Natura 2000 in Italia e Slovenia
- Firmato accordi con attori locali per il supporto e l'attuazione delle misure di adattamento locali pertinenti selezionate
- Progettazione di protocolli di appalti pubblici per l'attuazione dei piani di adeguamento utilizzando modelli PES

Prilagojeni rezultati predlagane metodologije so:

- Načrti prilagoditve s akcijskimi načrti in ocenami izvedljivosti za pilotna območja Natura 2000 v Italiji in Sloveniji
- Podpisani dogovori z lokalnimi akterji za podporo in izvajanje izbranih ustreznih lokalnih prilagoditvenih ukrepov
- Oblikovani protokoli javnih razpisov za izvedbo adaptacijskih načrtov po modelih PES

Figure 6: Common methodology for adaptation plans

Grazie per la vostra attenzione
Hvala za vašo pozornost
Along the coasts of the shared sea
19-21 May 2021

EU Strategy for the Adriatic and Ionian Region
REPUBLIC OF SLOVENIA
European Commission
Interreg ADRION
Občina Izola
EUROPEAN UNION
Dr. Liliana Vižintin
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<https://www.ita-slo.eu/si/eco-smart>

c) Presentazione in lingua inglese/Predstavitev v angleščini

6th Forum
Along the coasts of the shared sea
10th, 11-12 May 2021

**Improving ecosystem quality and climate change resilience:
A methodological proposal from the Italy-Slovenia Interreg project ECO-SMART**

Alberto Barausse¹, Alessandro Manzano², Mirco Piron², Angelica Guidolin², Lara Endrizzi², Liliana Vižintin³

¹ Dept. of Biology, University of Padova, Italy, alberto.barausse@unipd.it
² CESQA, Dept. of Industrial Engineering, University of Padova, Italy
³ Mediterranean Institute for Environmental Studies, Science & Research Centre Kopar, Slovenia

Climate change in the Mediterranean region

Along the coasts of the shared sea
10th, 11-12 May 2021

Main facts:

- Warming
- Extreme weather events
- Saltwater intrusion
- Water scarcity

Source: MedECC (2019). A preliminary assessment by the MedECC Network. Science policy overview

How to adapt complex coastal territories to unavoidable climate changes?
How can sustainable management measures be implemented, concurrently promoting nature conservation and socio-economic development?

ECO-SMART: Ecosystem Services Market for an Advanced Policy to Protect NATURA 2000 areas

Along the coasts of the shared sea
10th, 11-12 May 2021

Project acronym	ECO-SMART
Program	Interreg V-A Italy-Slovenia 2014-2020
Project duration	01.04.2020 – 31.03.2022
Total Budget	€ 858.546,61
Co-financing European Regional Development Fund	€ 729.764,59

Pilot project on sustainability, research + application

Lead partner: Veneto Region (Italy)
 Project partners:
 • CESQA @ Industrial Eng. Dept., University of Padova (Italy)
 • Municipality of Montebelluna (Italy)
 • Koper Regional Development Centre (Slovenia)
 • Science and Research Centre of Koper (Slovenia)

Associate partners:
 • Italian Ministry for the Environment and safeguarding of Territory and Sea
 • Natura 2000 network
 • EUSAR authority
 • EUSALP authority

Project aims

Along the coasts of the shared sea
10th, 11-12 May 2021

To assess climate vulnerability and test the economic feasibility to fund biodiversity protection in NATURA 2000 sites located in the interregional area of Italy and Slovenia through pilot application of Paying for Ecosystem Services (PES) schemes

- Climate Change Vulnerability assessment of 5 Sites belonging to the NATURA 2000 Network
- Climate change adaptation plan supported by PES application in 3 pilot areas: 2 in Italy, 1 in Slovenia
- Divulcation of harmonized procedures for their application related to ecosystem services and methods for the design and conservation of biodiversity in the NATURA 2000 Network

What is a PES?

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10th, 11-12 May 2021

Payment for Ecosystem Services scheme:

```

graph LR
    Buyer[Buyer of ecosystem services] -- "Payment (K/units ES)" --> Supplier[Supplier of ecosystem services]
    Buyer -- "Contract, agreement" --> Supplier
    Supplier -- "ES (units)" --> Buyer
  
```

The approach of ECO-SMART to adaptation

Along the coasts of the shared sea
10th, 11-12 May 2021

1) Ecosystem Services Identification
 2) Vulnerability Assessment
 3) Paying for Ecosystem Services
 4) Adaptation plan...

1) Identification of ecosystem services (ESS)

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10th, 11-12 May 2021

Ecosystem services (ESS) can be defined as contributions of ecosystem structure and function to human well-being.

(Burkhard et al., 2012; Burkhard B. & Maes I. Eds., 2015)

2) Vulnerability assessment

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10th, 11-12 May 2021

Identification of ESS
 Identification of Habitat, ESS, Hazards
 Identification of cause-effect chain
 Development of the Impact Chain
 ESS Evaluation
 Adaptive capacity evaluation

Based on the framework of ISO 14091 and the requirements of ISO 14090 (both on adaptation to climate change)

E.g. Knowledge based communities

The case of the Veneto region

Along the coasts of the shared sea
Date: 11-12 May 2021

Caorle Lagoon - mouth of Tagliamento river (IT3250033)
Mouth of Tagliamento river (IT3250040)
Valle Vecchia - Zumele - Valti di Bibione (IT3250041)

Rich biodiversity: dunes, wetlands and salt marshes, mudflats, hunting and fishing farms, estuary habitats, ...

Nearby mainland: urbanization (tourism) and agriculture on reclaimed land

1) ecosystem services identification

Along the coasts of the shared sea
Date: 11-12 May 2021

OBJECTIVE
Identify the ESS that characterized the pilot sites

EXPECTED RESULTS

1. Identify the ESS and related significance
2. Identify relevant stakeholders
3. Identify the Habitats relevant to the pilot sites

STAKEHOLDERS INVOLVED IN THE PROCESS

NEED OF CAPACITY BUILDING

2) Vulnerability assessment

Along the coasts of the shared sea
Date: 11-12 May 2021

OBJECTIVE
Analysis of the Habitats and exposure to hazards

EXPECTED RESULTS

1. Habitat/ESS vulnerability
2. Impact chain

STAKEHOLDERS INVOLVED IN THE PROCESS

NEED OF CAPACITY BUILDING

2) Vulnerability assessment

Along the coasts of the shared sea
Date: 11-12 May 2021

Hazard Identification

ICPC (AR4 Report; AR5 Report)
Expert Judgement

Caorle Lagoon - mouth of Tagliamento river

Along the coasts of the shared sea
Date: 11-12 May 2021

Vulnerability Assessment: Habitats

Legend:

- Increased frequency of heat peaks
- Increased duration of each heat cycle
- Increased average water level
- Increased frequency of extreme weather events
- Changing currents
- Saline wedge
- Increased frequency of heat peaks
- Increased duration of each heat cycle
- Increased average water level
- Increased frequency of extreme weather events
- Changing currents
- Saline wedge
- Increased frequency of heat peaks
- Increased duration of each heat cycle
- Increased average water level
- Increased frequency of extreme weather events
- Changing currents
- Saline wedge

Caorle Lagoon - mouth of Tagliamento river

Along the coasts of the shared sea
Date: 11-12 May 2021

Hazard

Habitat

ESS

Caorle Lagoon - mouth of Tagliamento river

Along the coasts of the shared sea
Date: 11-12 May 2021

Vulnerability Assessment: Relevant Ecosystem Services

Legend:

- Increased frequency of heat peaks
- Increased duration of each heat cycle
- Increased average water level
- Increased frequency of extreme weather events
- Changing currents
- Saline wedge
- Increased frequency of heat peaks
- Increased duration of each heat cycle
- Increased average water level
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- Increased frequency of extreme weather events
- Changing currents
- Saline wedge

Caorle Lagoon - mouth of Tagliamento river

Along the coasts of the shared sea
Date: 11-12 May 2021

Vulnerability Assessment: Results

The Slovenian pilot case study of project ECO-SMART: Natura 2000 area of Škocjanski zatok

Along the coasts of the shared sea
Date: 11-12 May 2021

Figure 2: Škocjanski zatok Natura 2000

Figure 3: Škocjanski zatok - Natura 2000 area

Škocjanski zatok Nature Reserve is a coastal Mediterranean wetland located near the city of Koper on the Slovenian coast. It is protected under the Natura 2000 network and also as a Nature reserve from 1998 (Act on Škocjanski zatok Nature Reserve).

Ecosystem Services, climate risks and vulnerability

Along the coasts of the shared sea
Date: 11-12 May 2021

According to CICES classification Škocjanski zatok offers 31 ecosystem services that were considered within the analyses of climate risks and ESS vulnerability during the first phase of the project ECO-SMART.

Where are we now? Definition of Payment for Ecosystem Services schemes

Possible PES schemes have been identified, e.g. for the Veneto area:

- Protection from storm surges with natural dune defense systems**
 - Coastal nourishment;
 - Dune conservation/restoration, e.g., with plantations.
- Recovery of a minimum vital and ecological functionality of the lagoon system**
 - Tidal opening of some lands
- Implementation and maintenance of slow use and environmental education actions**
 - Exploit variable revenues, such as tourist taxes, an increase in beach parking, etc., to define annually a targeted programme of conservation actions

Common methodology of Adaptation plans, accompanying action plans and feasibility assessments

The expected results of the proposed methodology are:

- Adaptation plans with action plans and feasibility assessments for Natura 2000 pilot sites in Italy and Slovenia
- Signed agreements with local actors for the support and implementation of the selected relevant local adaptation measures
- Designed protocols of public tenders for the implementation of the adaptation plans using PES models

Conclusions

- A novel approach to identify climate-vulnerable habitats, related to the impact chain of hazards on ESS has been demonstrated
- Stakeholder engagement informed such approach and is fundamental also for PES
- Uncertainty in climate scenarios affect our analysis, especially given the lack of fine-scale predictions for the northern Adriatic coasts

ESS can support nature conservation and a sustainable management of territories (need to educate decision makers)

To exploit the potential of ESS there is a need to adopt an ecosystem approach in planning and management of coastal and marine resources

Thank you for your attention.

Logos: EUSIR, REPUBLIC OF SLOVENIA, European Commission, Interreg Adriatic-Istria, Občina Komuna di Izola-Isola, AII, Interreg Italia-Slovenia, Co-funded by the European Union, Dr. Alberto Barausse, University of Padova, ECO-SMART Project, <https://www.ita-slo.eu/si/eco-smart>

d) Presentazione in lingua italiana/slovena - Predstavitev v italijanščini/slovenščini

6th Forum

Improving ecosystem quality and climate change resilience: A methodological proposal of the Italy-Slovenia Interreg project ECO-SMART

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Mediterranean Institute for Environmental Studies - MIES, Science and research Centre Koper, Slovenia

Established in 2018
Interdisciplinary research team

Our mission is to become a reference Centre of research and innovation that in a holistic and integral way addresses environmental and wider social, economic dimensions of sustainable development of the Mediterranean region.

<https://www.rs-kp.si/>

Project: Ecosystem Services Market for an Advanced Policy to Protect NATURA 2000 areas

Acronym	ECO-SMART
Program	Interreg V-A Italy-Slovenia 2014-2020
Project duration	01.04.2020 - 31.03.2022
Total Budget	€ 858.546,61
Co-financing European Regional Development Fund	€ 729.764,59

Lead partner: Directorate for Tourism of the Veneto Region (Italy)
Project partners: Municipality of Monfalcone (Italy), University of Padova (Italy), Koper Regional Development Centre (Slovenia), Science and Research Centre of Koper (Slovenia)

The Slovenian pilot case study of project ECO-SMART: Natura 2000 area of Škocjanski zaton

Škocjanski zaton Nature Reserve is a coastal Mediterranean wetland located near the city of Koper on the Slovenian coast at the North-East Adriatic Sea. It is protected inside Natura 2000 network and also as Nature reserve from 1998 upon the Act on Škocjanski zaton Nature Reserve.

Ecosystem Services, climate risks and vulnerability

According to CICES classification Škocjanski zaton offers 31 ecosystem services that were considered within the analyses of climate risks and ESS vulnerability during the first phase of the project ECO-SMART.

Common methodology of Adaptation plans, accompanying action plans and feasibility assessments

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Thank you for your attention.

Along the coasts of the shared sea
10th, 11-12 May 2021

EU Strategy for the Adriatic and Ionian Region
EUSAIR

REPUBLIC OF SLOVENIA

European Commission

interreg ADRION

Občina Komenda
IZOLA-ISOLA

ATI

interreg ITALIA-SLOVENIA

Co-funded by the European Union

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Mediterranean Institute for Environmental Studies - MIES,
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Project: Ecosystem Services Market for an Advanced Policy to Protect NATURA 2000 areas

Along the coasts of the shared sea
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Lead partner:
Directorate for Tourism of the Veneto Region (Italy)

Project partners:
Municipality of Montebelluna (Italy)
University of Padova (Italy)
Koper Regional Development Centre (Slovenia)
Science and Research Centre of Koper (Slovenia)

The general purpose of the ECO-SMART project is to assess at cross-border level, the feasibility of measures to protect biodiversity of NATURA 2000 areas, through a common methodology to assess ESS vulnerability and design adaptation measures that could be implemented using the pilot introduction of payment for ecosystem services (PES).

The Slovenian pilot case study of project ECO-SMART:
Natura 2000 area of Škojčanski zatok

Along the coasts of the shared sea
10th, 11-12 May 2021

Škojčanski zatok Nature Reserve is a coastal Mediterranean wetland located near the city of Koper on the Slovenian coast at the North-East Adriatic Sea. It is protected inside Natura 2000 network and also as Nature reserve from 1998 upon the Act on Škojčanski zatok Nature Reserve.

Ecosystem Services, climate risks and vulnerability

Along the coasts of the shared sea
10th, 11-12 May 2021

According to DICES classification Škojčanski zatok offers 31 ecosystem services that were considered within the analyses of climate risks and ESS vulnerability during the first phase of the project ECO-SMART.

Common methodology of Adaptation plans, accompanying action plans and feasibility assessments

Along the coasts of the shared sea
10th, 11-12 May 2021

The expected results of the proposed methodology are:

- Adaptation plans with action plans and feasibility assessments for Natura 2000 pilot sites in Italy and Slovenia
- Signed agreements with local actors for the support and implementation of the selected relevant local adaptation measures
- Designed protocols of public tenders for the implementation of the adaptation plans using PES models

Thank you for your attention.

Along the coasts of the shared sea
10th, 11-12 May 2021

EU Strategy for the Adriatic and Ionian Region
EUSAIR

REPUBLIC OF SLOVENIA

European Commission

interreg ADRION

Občina Komenda
IZOLA-ISOLA

ATI

interreg ITALIA-SLOVENIA

Co-funded by the European Union

Dr. Liliana Vižintin
Mediterranean Institute for Environmental Studies, Science and Research Centre Koper, Slovenia
Liliana.vizintin@zrs-kp.si
<https://www.ita-slo.eu/si/eco-smart>

6th Forum
of the EU Strategy for the Adriatic and Ionian Region
Along the coasts of the shared sea
10th, 11-12 May 2021

Improving ecosystem quality and climate change resilience: A methodological proposal of the Italy-Slovenia Interreg project ECO-SMART

Dr. Liliana Vižintin
Mediterranean Institute for Environmental Studies,
Science and Research Centre Koper, Slovenia
Liliana.vizintin@zrs-kp.si



interreg **ITALIA-SLOVENIJA** **ECO-SMART**

Napredovanje pri izvajanju dejavnosti krepitve zmogljivosti - SERIJA DOGODKOV ZA USPOSABLJANJE IN OZAVEŠČANJE
Avanzamento delle attività di capacity building - SERIE DI EVENTI DI FORMAZIONE E SENSIBILIZZAZIONE

Obliskovali smo učne načrte dogodkov za usposabljanje in ozaveščanje.

Zaključili smo prvi cikel dogodkov, in sicer smo organizirali vsaj po dva lokalna dogodka v treh različnih regijah programnega območja, ki so vključene v projekt, ter zaključili dogodek prvega sklopa za deležnike celotnega programnega območja (skupaj osem dogodkov).

Dogodkov se je udeležilo skupaj približno 350 udeležencev iz Italije in Slovenije (od tega 198 iz Slovenije).

Tematsko organiziramo dogodke 2. serije, ki so posvečeni načrtom prilagajanja in shemam PES.

Abiamo ideato curricula per eventi di formazione e sensibilizzazione.

Abiamo completato il primo ciclo di eventi, ovvero abbiamo organizzato almeno due eventi locali nelle tre regioni statistiche dell'area di programma inclusa nel progetto, e l'evento finale del primo set per gli stakeholder dell'intera area di programma (otto eventi in totale).

Agli eventi hanno partecipato in totale circa 350 partecipanti (presenti da Italia e Slovenia di cui 198 dalla Slovenia).

Attualmente stiamo organizzando eventi di Serie 2 dedicati a piani di adattamento e schemi PES.

interreg **ITALIA-SLOVENIJA** **ECO-SMART**

ZAKLJUČKI
CONCLUSIONS

5 projekti ECO-SMART želimo preko celostne vizije krepitve zmogljivosti z uporabo modela integracije spodbujati aktivna sodelovanje deležnikov v skupnosti pri spreminjanju ukrepov podnebne spremembe na ekosistemske storitve, stabiliziranju sklopa prilagajanja in udeležanju in teh preko inovativnih finančnih shem plačil za ekosistemske storitbe.

Ključne prednosti celostnega, integrativnega pristopa krepitve zmogljivosti vidimo v:

- uveljavljanju podpornega okolja za bolj vključujoče in konstruktivno sodelovanje deležnikov v raziskavi usmerjenih v inovacije in vzajemni strokovni dialog projekta;
- izmenjavi znanja in informacij med partnerji in širšim krogu deležnikov iz območnega območja ter ustvarjanju prihodnosti sodelovanja različnih partnerjev in dosegajočega sodelovanja;
- krepitvi inovativnih, podjetniških in kreativnih vidikov relevantnosti iztovrnih podobnih sprememb.

Attraverso la visione integrata del rafforzamento delle capacità, il progetto ECO-SMART mira a incoraggiare la partecipazione attiva degli stakeholder della comunità nel monitoraggio degli effetti del cambiamento climatico sui servizi ecosistemici, co-creando misure di adattamento e implementandole attraverso schemi di pagamento finanziati innovativi per i servizi ecosistemici.

Vediamo i vantaggi chiave di un approccio integrato e integrato al rafforzamento delle capacità in:

- creare un ambiente favorevole per una partecipazione più inclusiva e costruttiva delle parti interessate alla ricerca orientata all'innovazione e ad altri lavori professionali del progetto;
- lo scambio di conoscenze e informazioni tra i partner e una più ampia gamma di parti interessate dell'area di confine e la creazione di opportunità di confronto e cooperazione a lungo termine;
- rafforzare gli aspetti innovativi, imprenditoriali e creativi nell'affrontare le sfide del cambiamento climatico.

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Mercato dei Servizi Ecosistemici per una Politica Avanzata di Protezione delle Aree Natura 2000
Tržišče ekosistemskih storitev za napredno politiko zaščite območij NATURA 2000

Grazie per l'attenzione!
Hvala za pozornost!

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Progetto finanziato nelambito del Programma per la Cooperazione INTERREG V-A Italia-Slovenia (2014-2020), del Fondo europeo di sviluppo regionale e dei fondi nazionali pubblici italiani. Projekt sofinanciran v okviru Programa sodelovanja INTERREG V-A Slovenija-Italija (2014-2020) iz sredstev Evropskega sklada za regionalni razvoj in nacionalnih javnih virov.

6. Climate Change Management Through Mitigation and Adaptation - Conferenza finale del progetto AdapTM (EMUNI)

Relatrice/Poročevalka: Liliana Vižintin

Piran, 12-13.07.2021



Final Meeting and Conference

12-13 July 2021

Venue: EMUNI University, Kidričevo nabrežje 2, 6330 Piran, Trevisini Palace, 2nd Floor

Agenda

1st Day: 12/07/2021

Conference

Google Meet Link: meet.google.com/atm-cmdc-qmp

Morning Sessions:

- 9:00-9:20 Welcome Note and Presentation of EMUNI University
- 9:20-10:30 AdapTM Project Partners Presentation:
 - 9:20 University of Catania
 - 9:30 Alexandria University (online)
 - 9:40 Klaipeda University
 - 9:50 Arab Academy for Science, Technology and Maritime Transport (online)
 - 10:00 National Observatory of Athens (online)
 - 10:10 Suez Canal University (online)
 - 10:20 South Valley University (online)
- 10:30-10:40 Prof. Dr. Francesco Martinico (University of Catania): "Presentation of the AdapTM Project"
- 10:40-11:15 Prof. Dr. Daniele La Rosa and Dr. Riccardo Privitera (University of Catania): "Presentation of the AdapTM Project Achievements"
- 11:15-11:30 Coffee Break
- 11:30-12:00 Dr. Katerina Papagiannaki (National Observatory of Athens): "Weather-related hazards and community response in Greece" (online)
- 12:00-12:30 Dr. Matjaž Ličer (Slovenian Environment Agency, National Institute of Biology, Marine Biology Station Piran): "Existing oceanographic research and development efforts and services in Slovenia"
- 12:30-13:45 Lunch

Afternoon Sessions:

- 13:45-14:15 Dr. Liliana Vižintin (Science and Research Centre Koper, Mediterranean Institute for Environmental Studies): "Presentation of SRC Koper, Mediterranean Institute of Environmental Studies and the Project ECO-SMART"
- 14:15-14:25 Dr. Sc. Ermina Pustijanac (University of Pula, Faculty of Natural Sciences): "Presentation of the University of Pula, Faculty of Natural Sciences"
- 14:25-14:35 Dr. Sc. Ines Kovačič (University of Pula, Faculty of Natural Sciences): "Alternative Shellfish Species for Aquaculture in Future Climatic Change Conditions"
- 14:35-14:45 Dr. Sc. Moira Buršič (University of Pula, Faculty of Natural Sciences): "Partnership Between Fishermen and Scientists"

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

a) Presentazione in lingua italiana/slovena - Predstavitev v italijanščini/slovenščini

Interreg
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Tržišče ekosistemskih storitev za napredno politiko zaščite območij NATURA 2000

AdaptTM Climate Change Management through Adaptation and Mitigation Final Meeting and Conference 12-13 July 2021

Presentation of SRC/ZRS Koper, MIOS - Mediterranean Institute of Environmental Studies and the Project ECO-SMART

dr. Liliana Vižintin
MIOS-ZRS Koper, Slovenia

Piran, 12.7.2021

Science and Research Centre Koper (ZRS Koper), Slovenia

The Science and Research Centre Koper (Znanstveno-raziskovalno središče or ZRS Koper in Slovenian ...) was founded in 1994 by the Government of the Republic of Slovenia as well as the community of coastal municipalities. The Centre is located in Koper. During the years 2003 to 2015 ZRS Koper acted as a member of the University of Primorska and was its main research hub. In 2016 started an independent route as a public research institute.

ZRS Koper- Activities

Activities of the Science and Research Centre Koper are predominantly based on interdisciplinary research, involving humanities, social and natural sciences, with special emphasis given to the research in the specific environments of the Mediterranean and the upper Adriatic region.

The main activities are:

- Basic and applied research,
- Production of professional expertise,
- Education,
- Organization of scientific and expert meetings,
- Publishing,
- Documentation and librarian activities

ZRS Koper is actively integrating in international scientific cooperation and is connecting with many similar organisations worldwide. Researchers are also actively involved in academic process at Slovene public and private universities, thus ensuring the transfer of research results into the educational sphere.

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In 2017, EMUNI and ZRS Koper collaborated in the project "Yugoslav self-governing experiment and the discussion on the development of European socialism between East and West (1950-1980)".

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EMUNI and ZRS Koper collaborated to the establishment of the Euro-Mediterranean Postgraduate School (EMPOS), subunit of EMUNI, in March 2018. Within the EMPOS two study programmes are running: Master's study programme in Kinesiology of Human Performance and a PhD programme in Globalization, Migration and Cultural Pluralism.

The summer school Healthy and Active Lifestyle (HALS) was successfully implemented many times in cooperation with ZRS Koper and EMUNI.

ZRS Koper- Structure

RESEARCH PROGRAMS: 6
JUNIOR RESEARCHERS: 4
SENIOR RESEARCHERS: 23
MALE RESEARCHERS: 27
TECH. ASSOCIATES: 20

The staff of ZRS Koper is composed of mainly researchers and also administrative staff and technicians are employed. Researchers are part of different research fields oriented but interconnected institute, since many project and research activities are interdisciplinary and implemented in cooperation between institutes.

ZRS Koper institutes

<https://www.zrs-kp.si/>

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- Institute for Philosophical Studies
- Institute for Linguistic studies
- Mediterranean Institute for Environmental Studies
- Law Institute
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Mediterranean Institute for Environmental Studies

With an interdisciplinary and holistic approach, the Mediterranean Institute for Environmental Studies aims to contribute to a national, sustainable and inclusive development of society, reconciling economic development with environment. Research goals are: harmonised with social values, ethics, stakeholders' interests, local and global priorities for conservation of ecosystem services and biodiversity. Through the program of scientific and research work, the institute promotes the transition to low-carbon society, adaptation to climate changes and a human development within faster emerging capacity.

Mediterranean Institute for Environmental Studies - MIOS, Ongoing research projects

MIOS ongoing projects are:

- SURVIVING THE ANTHROPOCENE THROUGH INVENTING NEW ECOLOGICAL JUSTICE AND BIOSOCIAL PHILOSOPHICAL LITERACY (ARRS project)**
- Smart Control of the Climate Resilience in European Coastal Cities (acronym: SCORE)** SCORE is a Horizon 2020-funded research project to increase climate resilience in European coastal cities. The overall aim of SCORE is to design, develop, monitor and validate robust adaptation measures in coastal and low-lying areas to protect them from increasing climate and sea level risks, including coastal flooding and erosion, to enhance their overall long-term resilience.
- Project ECOSMART (that I will present more in details).**

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Lead partner: Directorate for Tourism of the Veneto Region (Italy)

Project partners: Municipality of Montebelluna (Italy), University of Padova (Italy), Regional Development Centre Koper (Slovenia), Mediterranean Institute for Environmental Studies - Science and Research Centre Koper (Slovenia)

Acronym	ECO-SMART
Program	Interreg V-A Italy-Slovenia 2014-2020
Project duration	01.04.2020 – 31.03.2022
Total Budget	€ 858.546,61
Co-financing European Regional Development Fund	€ 729.764,59

Project ECO-SMART aims and activities

First project phase (concluded):

The general aim of the ECO-SMART project is to assess at cross-border level, the feasibility of measures to protect biodiversity of NATURA 2000 areas in Slovenia and Italy, through a common methodology to assess ESS vulnerability and design adaptation measures that could be implemented using the pilot introduction of payment for ecosystem services (PES).

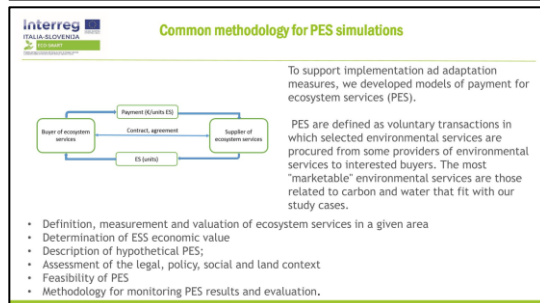
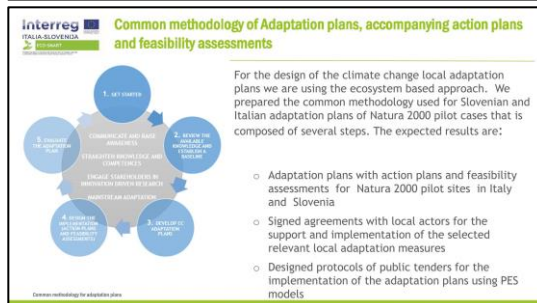
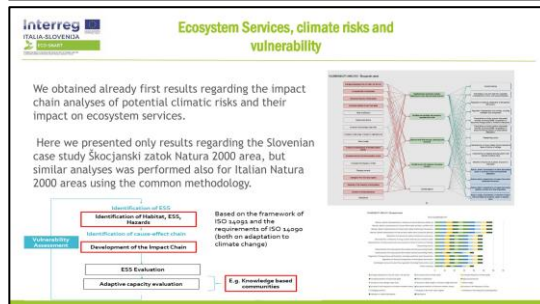
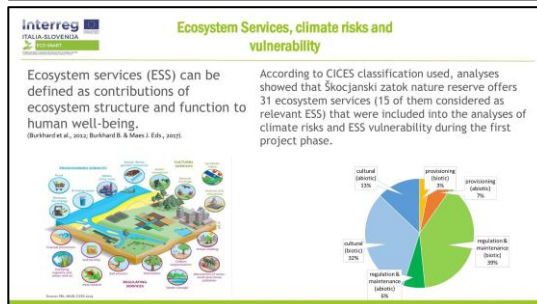
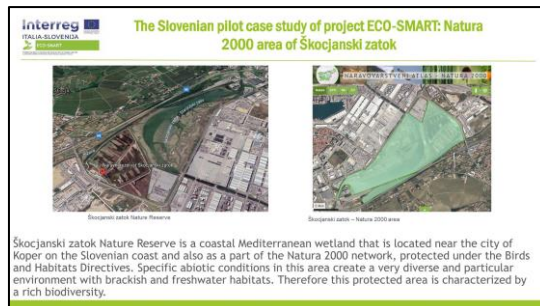
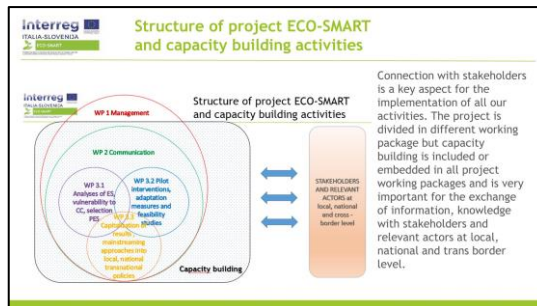
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Second project phase (ongoing):

Climate change adaptation plan supported by PES application in 3 pilot areas: 2 in Italy and 1 in Slovenia, including operational plans and feasibility assessments

Third project phase (not yet implemented):

Knowledge transfer of project results related to NATURA 2000 ecosystem services and biodiversity protection (connection with policy makers and specific stakeholders)



- Conclusions**
- 1) A novel approach to identify climate-vulnerable habitats, related ESS and the impact chain of potential hazards has been successfully demonstrated.
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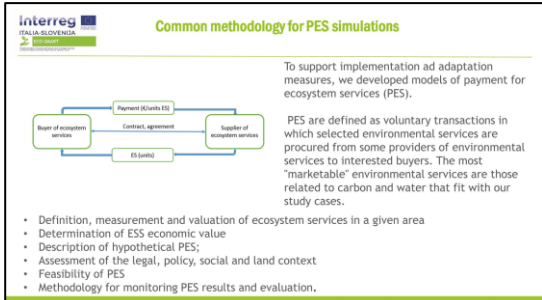
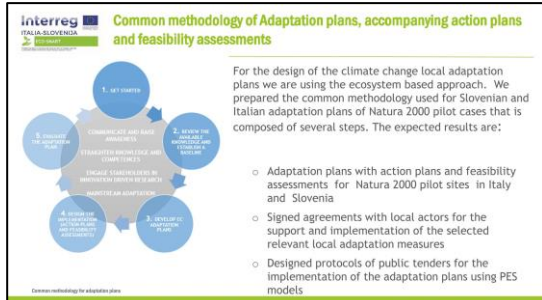
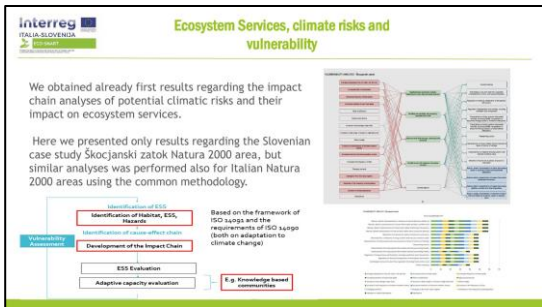
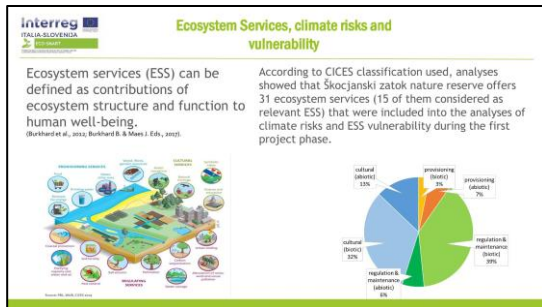
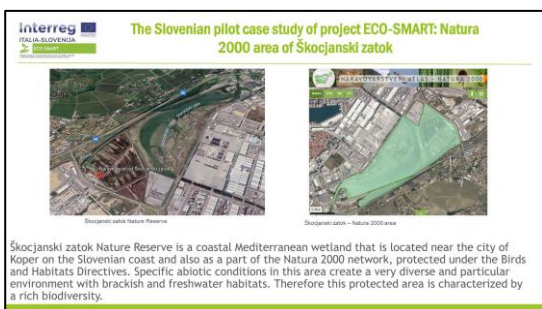
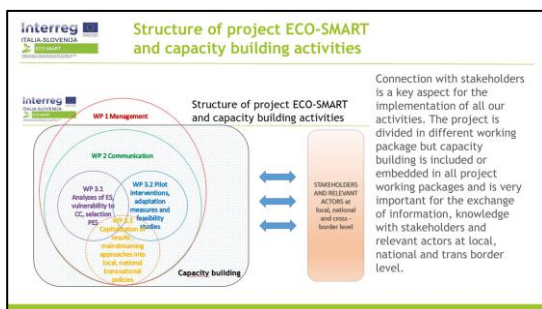
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7. EC-DAY 2021 - La cooperazione è verde / Sodelovanje je zeleno

Relatrice/**Poročevalka**: Monia Simionato

Data/ **Datum**: 21.09.2021

Interreg
ITALIA-SLOVENIJA
Fondo europeo di sviluppo regionale
Evropski sklad za regionalni razvoj

EUROPEAN COOPERATION DAY
Sharing borders, growing closer

EC-DAY 2021

**LA COOPERAZIONE SODELOVANJE
È VERDE JE ZELEN**

Esempi di collaborazione transfrontaliera per l'ambiente **Primeri čezmejnega sodelovanja za okolje**

INVITO/VABILO
21. 09. 2021
14:30 - 16:30
EVENTO - ONLINE - DOGODEK

10

EUROPEAN COOPERATION DAY
Sharing borders, growing closer

Interreg

  	
PROGRAMMA	PROGRAM
14:15 - 14:30	Ingresso e verifiche impostazioni ZOOM per i partecipanti
14:30 - 14:50	Saluti introduttivi e apertura della Giornata europea della cooperazione (EC-Day): 10 anni di EC-Day del Programma Interreg Italia-Slovenia
a cura dell'Autorità di gestione e del Segretariato Congiunto	
14:50 - 15:00	Esempi di collaborazione transfrontaliera per l'ambiente: presentazione dei progetti finanziati nell'ambito dell'Asse prioritario 3
a cura del Segretariato Congiunto	
15:00 - 15:10	Presentazione del progetto BEE-DIVERSITY
A cura di Silvano Cossalter	
15:10 - 15:20	Presentazione del progetto ECO-SMART
A cura di Monia Simionato	
15:20 - 15:30	Presentazione del progetto ENGREEN
A cura di Andreja Grom	
15:30 - 15:40	Presentazione del progetto TRETAMARA
A cura di Saul Ciriaco, Emiliano Gordini	
15:40 - 15:50	Presentazione del progetto Acquavitis
A cura di Patricija Muzlovic	
15:50 - 16:00	Presentazione del progetto GreenHull
A cura di Uroš Puc	
   	
REPUBBLICA SLOVENIJA SLUŽBA VLADE REPUBLIKE SLOVENIJE ZA RAZVOJ IN EVROPSKO KOHEZIJSKO POLITIKO	

Rete Natura 2000 - Aree pilota
Ombreggio Natura 2000 -
Pilotna območja

Regione del Veneto/Dežela Benečija

- Laguna di Caorle - Foce del Tagliamento/ Izvir reke Tilment (IT3250033)
- Foce del Tagliamento / Izvir reke Tilment (IT3250040)
- Valle Vecchia - Zumelle - Valli di Bibione (IT3250041)
 - Laguna superiore di Venezia (IT3250031)

Friuli Venezia Giulia /Furlanija-Juljska krajina

- Cavana di Monfalcone (IT3330007)

Slovenia/ Slovenija

- Riserva Naturale di Val Stagnon/Naravni rezervat Škocjanski zatok (SI5000008)

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

Il modello ECO-SMART
Model ECO-SMART

1. Individuazione degli Habitat, dei servizi ecosistemici e degli stakeholder

1. Opredelitev habitatov, ekosistemskih storitev in interesnih skupin

Individuazione dei servizi ecosistemici (ESS) presenti nei siti pilota, attraverso l'utilizzo della classificazione CICES. **Določitev ekosistemskih storitev (ESS), prisotnih na pilotnih območjih, na podlagi razvrstitve CICES.**

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

Il modello ECO-SMART
Model ECO-SMART

2. Individuazione delle minacce/Opredelitev groženj
Selezione delle potenziali minacce attraverso l'analisi degli scenari IPCC / Izbira potencialnih groženj preko analize scenarijv IPCC

3. Definizione dell'impact chain/ Opredelitev verige vplivov
Rappresentazione delle relazioni di causa-effetto / Prikaz vzročno-posledičnih povezav

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

I.C. Laguna di Caorle - Foce del Tagliamento / I.C. Laguna di Caorle - Izvir reke Tilment

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

Schemi PES
Scheme PES

Schemi PES (Payment for Ecosystem Services) = meccanismi di mercato in cui i beneficiari di un servizio ambientale pagano i fornitori del servizio (e.g., agricoltori o proprietari forestali) al fine di assicurare la continuità del servizio erogato o un miglioramento dello stesso nel lungo periodo. Gli schemi PES creano un mercato per quei beni e servizi ambientali che non sono sprovisti (perché forniti gratuitamente).

Scheme PES (Payment for Ecosystem Services) = tržni mehanizmi, pri katerih uporabniki določene ekosistemskih storitev plačajo dobavitelje storitev (npr. kmetovalce ali lastnike gozdov), da bi ti zagotovili kontinuiteto izvajanja storitve ali dolgoročno izboljšanje le-te. Scheme PES ustvarjajo tržniše tistih dobrin in okoljskih storitev, ki jih tam ni (saj se zagotavlja) brezplačno.

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

Schemi PES
Scheme PES

Aspetti-chiave per definire un PES (Wunder, 2005):

1. è un accordo volontario
2. include uno specifico servizio ecosistemico (ES o una forma d'uso del suolo che garantisce la fornitura dello stesso)
3. Il ES è acquistato da parte di almeno un acquirente (beneficiario del servizio)
4. Il ES è fornito da almeno un fornitore (venditore del servizio)
5. Il produttore garantisce continuità nella fornitura del servizio (condizionalità)

Ključni vidiki opredeljevanja določenega PES (Wunder, 2005):

1. je prostovoljni sporazum
2. vključuje določeno ekosistemsko storitev (ali obliko koriščenja tal, ki zagotavlja izvajanje le-te)
3. ES kupi vsaj en kupec (uporabnik storitve)
4. ES nudi vsaj en dobavitelj (ponudnik storitve)
5. Proizvajalec zagotavlja kontinuiteto izvajanja storitve (pogojenost)

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

Schemi PES
Scheme PES

I quattro step per implementare una strategia PES
Štirje koraki implementacije strategije PES:

- 1) IDENTIFICARE IL SE E I POTENZIALI BUYERS
 - Identificare, definire e quantificare il SE d'interesse
 - Valutare il SE economicamente
 - Identificare i buyer che ne beneficiano
- 2) ANALIZZARE LE CAPACITÀ TECNICHE E ISTITUZIONALI
 - Valutare il contesto politico, socio-economico e normativo
 - Valutare il sistema dei diritti di proprietà
- 3) IDENTIFICAZIONE ES IN POTENZIALNI KUPCEV
 - Identificazione, opredelitev in količinska določitev zadevnih ES
 - Ekonomsko ovrednotenje ES
 - Opredelitev kupcev, ki uživajo koristi
- 4) ANALIZA TEHNIČNIH IN INSTITUCIONALNIH ZMOGLJIVOSTI
 - Ovrednotenje političnega, socialno-ekonomskega in regulativnega konteksta
 - Ovrednotenje sistema lastninskih pravic

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

Schemi PES
Scheme PES

- 3) DEFINIRE L'ACCORDO
 - Definire il piano di gestione e il business plan
 - Definire i costi di transazione, le opzioni di pagamento e il tipo di contratto
- 4) IMPLEMENTARE IL PES
 - Completare il piano di gestione
 - Verificare la fornitura del SE e i benefici
 - Monitorare e valutare l'accordo
- 3) OPREDITEV SPORAZUMA
 - Prilpava načrta upravljanja in poslovnega načrta
 - Določitev transakcijskih stroškov, plačilnih možnosti in tipologije pogodbe
- 4) IMPLEMENTACIJA PES
 - Dopolnitev načrta upravljanja
 - Preverjanje dobave ES in koristi
 - Spremljanje in vrednotenje sporazuma

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejne sodelovanja za okolje
21. 9. 2021

**Schemi PES
Sheme PES**

SISTEMI DUNALI

Laguna di Caorle - foce del Tagliamento - habitat: 2130, 1210, 2250
Foce del Tagliamento - habitat: 2250, 2110
Valle Vecchia - Zumelle - Valli di Bibione - habitat: 2250, 2270, 2110, 2120

SIPINSKI SISTEMI

Laguna di Caorle - Izvir reke Tilment - habitat: 2130, 1210, 2250
Izvir reke Tilment - habitat: 2250, 2110
Valle Vecchia - Zumelle - Valli di Bibione - habitat: 2250, 2270, 2110, 2120

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021

**Schemi PES
Sheme PES**

SE FORNITI

- ✓ Contrasto dell'erosione
- ✓ Contrasto del cuneo salino
- ✓ Serbatoio di sedimenti
- ✓ Contrasto delle mareggiate
- ✓ Preservazione delle coste dalla sommersione

ZAGOTOVLJENE ES

- ✓ Zaviranje erozije
- ✓ Zaviranje klina slane vode
- ✓ Zbiralnik usedlin
- ✓ Zaviranje valovanja
- ✓ Zaščita obalnih območij pred poplavljanjem

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021

**Schemi PES
Sheme PES**

PRINCIPALI IMPATTI ANTROPICI

- pulizia meccanica dell'arenile
- eccessivo sentieramento della fascia dunale
- disturbo della fauna (fratino)
- ferimento o uccisione di mammiferi (tassi, caprioli, ecc.) per impatto con le auto
- abbandono di rifiuti

GLAVNI ANTROPOGENI VPLIVI

- mehansko čiščenje peska
- preveliko število poti v sipinskem pasu
- motenje živalskih vrst (beločeli deževniki)
- poškodovanje ali ubijanje sesalcev (jazbecev, srn) zaradi trkov vozil
- puščanje odpadkov

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021

**Schemi PES
Sheme PES**

INTERVENTI DI RIPRISTINO ECOLOGICO

- ✓ interventi di tutela delle dune, dalle prime embrionali alle consolidate
- ✓ interventi finalizzati alla nascita di nuove dune (arenelle e specie pioniere)
- ✓ tutela e sorveglianza zone di nidificazione
- ✓ interventi saltuari di ripascimento
- ✓ studio e stima della capacità di carico antropico del sistema
- ✓ studio di un piano di gestione condiviso e partecipato

UKREPI EKOLOŠKE OBNOVE

- ✓ Ukrepi za zaščito sipin, od embrionalnih do konsolidiranih
- ✓ Ukrepi za nastajanje novih sipin (zastirke, pionirske vrste)
- ✓ Varovanje in nadzor gnezdišč
- ✓ Občasno naspavanje
- ✓ Proučitev in ocena zmožnosti prenašanja antropogenih obremenitev
- ✓ Proučitev skupnega načrta sodelovalnega upravljanja

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021

**Benefit transfer per i servizi
ecosistemici
Benefit transfer za ekosistemske
storitve**

Valutazione monetaria preliminare tramite Benefit Transfer dei servizi ecosistemici forniti dai diversi siti Natura 2000 del progetto ECO-SMART. Predefinito: finanziario, ambientale, ecosistemico, culturale, sociale, economico.

1. Valore SE forniti dai diversi habitat espressi in int\$/ha/anno (DeGroot et al., 2012);
2. Calcolate aree tot. di ciascun habitat di Rete Natura 2000 presenti dalle schede habitat (Standard Data Form) riportate sul sito della Rete Natura 2000;
3. Valori SE ricavati da De Groot e colleghi X estensione degli habitat del sito
4. Il valore SE per ciascun tipo di habitat è stato espresso in int\$/year (e cioè international dollar, con anno di riferimento il 2007); il valore totale di ciascun SE è stato convertito in €/year secondo il tasso di conversione dollaro-euro nell'anno di riferimento 2007 ovvero 1\$ = 0.816

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021

**Benefit transfer per i servizi ecosistemici
Benefit transfer za ekosistemske
storitve**

**SE FORNITI DALLE DUNE NEI 3 SITI VENETI
ES SIPIN NA VSEH TREH BENEŠKIH OBMOČJIH**

1. Prevenzione dell'erosione / Preprečevanje erozije
24'896'054 euro €/anno letno
2. Servizi ricreativi (ecoturismo, birdwatching ecc.) /
Rekreacijske storitve (ekoturizem, birdwatching itd.)
251'238 euro €/anno letno

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021

**ECO-SMART Mercato dei servizi Ecosistemici
per una Politica Avanzata di Protezione
delle Aree NATURA 2000**

**ECO-SMART Tržišče ekosistemskih
storitev za napredno politiko zaščite
območij NATURA 2000**

**Grazie per l'attenzione!
Hvala za pozornost!**

ECO-SMART
Mercato dei Servizi Ecosistemici per una Politica
Avanzata di Protezione delle Aree Natura 2000

**Tržišče ekosistemskih storitev za napredno
politiko zaščite območij NATURA 2000**

Dott. ssa Maria Simionato - Regione del Veneto
www.ita-slo.eu/eco-smart

LA COOPERAZIONE È VERDE: Esempi di collaborazione transfrontaliera per l'ambiente
SODELOVANJE JE ZELENO: Primeri čezmejnega sodelovanja za okolje
21. 9. 2021