Urban Nature Labs

Risultati

Informazioni relative al progetto

UNALAB

ID dell'accordo di sovvenzione: 730052

Sito web del progetto

DOI
10.3030/730052

Progetto chiuso

Data della firma CE
5 Maggio 2017

Data di avvio
1 Giugno 2017

Data di completamento
30 Novembre 2022

Finanziato da
SOCIETAL CHALLENGES - Climate action, Environment, Resource Efficiency and Raw Materials

Costo totale
€ 14 278 699,25

Contributo UE
€ 12 768 931,75

Coordinato da
TEKNOLOGIAN TUTKIMUSKESKUS VTT OY
Finland

Questo progetto è apparso in...

13 Agosto 2020

24 Giugno 2024

CORDIS fornisce collegamenti ai risultati finali pubblici e alle pubblicazioni dei progetti ORIZZONTE.

I link ai risultati e alle pubblicazioni dei progetti del 7° PQ, così come i link ad alcuni tipi di risultati specifici come dataset e software, sono recuperati dinamicamente da .OpenAIRE.

Risultati finali

Documents, reports (21)

Final Replication Framework to Support NBS Implementation
Handbook describing the integration of UNaLab project outcomes and deliverables into a comprehensive package of processes tools and guidelines including Business Finance and Governance Models Value Chain Analysis to support widespread replication and upscaling of NBS and the exploitation of UNaLab project outcomes

Municipal Governance Guidelines

Implementation and adoption barriers to ULL for NBS

Report on implementation and adoption barriers to ULL for NBS, in handbook format, including recommendations to overcome ULL implementation barriers and mitigation strategies

Dissemination and Communication strategy

Dissemination and Communication strategy ready including target stakeholders mapping .

Handbook of UNaLab Framework setup and integration guidelines

Handbook of UNaLab Framework setup integration and optimisation guidelines for cloudbased FIWARE environment

SDST user guide for municipalities

Comprehensive, user-friendly SDST step-by-step user guide for municipalities

ULL NBS demonstration site start-up report

ULL NBS demonstration sites: Report on Establishment of ULLs for NBS in EIN, GEN and TRE

UNaLab NBS Best Practices Kit

Production of UNaLab NBS Best Practices Kit using content from WPs 37

Dissemination and Communication activities report 2

Report on all dissemination and communication activities and impacts for period m19-m36

EASW scenario building workshop training and co-creation workshops

Report on EASW scenario building workshop training and co-creation workshops

UNaLab ULL framework

UNaLab ULL framework first version developed including plan for training

Impacts of NBS Demonstrations

Assessment of NBS Demonstrations and critical review of measured impacts Analysis of measured and potential performance and impacts of NBS on KPIs and KIIs

NBS performance and impact monitoring protocols

Handbook of NBS performance and impact monitoring protocols for front-runner cities including report on the two workshops for co-identification of KPIs and KIIs.

NBS Value Model

NBS Value Model, referencing national and international policies to leverage financing

Business models & financing strategies

Business models & financing strategies to complement draft NBS Technical Handbook

Replication Roadmaps

Report detailing individual NBS replication roadmaps and urban plans for follower cities, for Başakşehir, Cannes, Castellon, Prague, Stavanger, and reporting on the Joint Roadmap Workshop

Value chain analysis of selected NBS

Value chain analysis of selected NBS and evaluation of replication / upscaling potential

Joint Vision

Report of desired future scenarios of the follower cities, as well as identified common needs including reporting on the Joint vision workshop conclusions and the resulted posters with the desired future scenarios.

Stakeholders and target groups

Report on stakeholders engagement activities, including target groups, local stakeholers, experts on the different EU-level initiatives as well as international initiatives

UNaLab Living Lab Handbook

consolidated ULL framework in handbook format

NBS Implementation Handbook final

NBS implementation handbook including NBS technical specifications performance monitoring and impact assessment guidelines and maintenance recommendations updated and improved based on NBS demonstrations in EIN GEN and TRE

Other (6)

Update of NBS Replication Packages for dissemination

Update on NBS Replication information Packages for dissemination

Refined IoT harmonisation middleware V2

delivery of refined harmonization middleware

Production of NBS Replication Packages for dissemination

Production of NBS Replication Packages of information for dissemination

Refined Open Innovation/crowdsourcing and performance measurement tools
delivery of refined Open Nature Innovation Arena and City Performance Monitor platforms.

UNaLab ULL online toolkit
comprehensive suite of tools, methods, guidelines and best practises for ULL implementation

NBS impact simulator and monitor
front-end' software for prototype SDST with geovisualisation capability for training of city 'expert users' and 3rd series of co-creation workshops in front-runner cities.

Websites, patent fillings, videos etc. (3)

UNaLab Project identity
corporate identity of the UNaLab project including a logo, poster and templates for PowerPoint presentations

UNaLab project short video

Website, project leaflet and poster

Demonstrators, pilots, prototypes (1)

Internet-based SDST application
installation of touch tables with geovisualisation tools and SDST simulation of all parameters for public use in front-runner cities

Pubblicazioni

Non-peer reviewed articles (3)

Co-creating Nature-based Solutions in EU Project Demonstration City Tampere
Autori: Särkilahti, M
Pubblicato in: Rakennustekniikka, Numero 22430369, 2019, ISSN 2243-0369

Editore: RIL ry

Managing urban water in a changing climate
Autori: Wendling, L
Pubblicato in: Rakennustekniikka, Numero 22430369, 2019, Pagina/e 32-35, ISSN 2243-0369
Editore: RIL ry

Nature-based Solutions – Resolving Climate Induced Urban Challenges
Autori: Fatima, Z., Wendling, L., Rinta-Hiiro, V., Jermakka, J. & Särkilahti, M.
Pubblicato in: MAANKÄYTTÖ, Numero 26698021, 2019, Pagina/e 25-27, ISSN 2669-8021
Editore: Maankyötä ry

Other (15)

NbS Simulation & Visualisation Tool (NBS SVT)
Autori: Engineering Informatica SpA
Pubblicato in: 2022
Editore: Engineering Informatica SpA

UNaLab Knowledge Base
Autori: Engineering Informatica SpA
Pubblicato in: 2021
Editore: Engineering Informatica SpA

Collection and classification of indicators relative to urban sprawl and urban heating in the context of Nature Based Solutions
Autori: Bodilis, C.
Pubblicato in: JEMES-CiSu project report, 2018
Editore: University of Aveiro

A natureza como solução à adaptação climática
Autori: Ascenso, A
Pubblicato in: 2020
Editore: Wattson

Visual Data Mashup Editor
Autori: Engineering Informatica SpA
Pubblicato in: 2020
Editore: Engineering Informatica SpA

Open Nature Innovation Arena
Autori: Engineering Informatica SpA
Pubblicato in: 2021
Editore: Engineering Informatica SpA

Tools for stakeholders CV analysis
Autori: De Los Ríos-White, M.
Pubblicato in: JEMES-CiSu project report, 2018
Editore: University of Aveiro

Tampereella parannetaan hulevesien laatua biosuodatuksen avulla [Tampere improves stormwater quality through biofiltration]
Autori: Leppänen, S., Särkilahti, M.
Pubblicato in: Viherympäristö, 2019
Editore: The Finnish Association of Landscape Industries – Viherympäristöliitto ry

City Performance Monitor (CPM)
Autori: Engineering Informatica SpA
Pubblicato in: 2021
Editore: Engineering Informatica SpA

Co-creating nature based solutions in Eindhoven and Genova: assessing the processes to find lessons useful for replication in the context of UNaLab
Autori: Lameiras-Barrera, D.
Pubblicato in: JEMES-CiSu project report, 2017
Editore: University of Aveiro

Proposal for the assessment of the potential factors determining the adoption of Nature Based Solutions (NBSs)
Autori: López-Maciel, M.A.
Pubblicato in: JEMES-CiSu project report, 2017
Editore: University of Aveiro

UNaLab Opan Data Portal
Autori: Engineering Informatica SpA
Pubblicato in: 2021
Editore: Engineering Informatica SpA

Food on the Roof: Developing an IT platform to visualize and identify suitable locations for roof farming in cold climates
Autori: Agatino Rizzo, Marcus Sandberg, Tim Johansson, Johan Wenngren
Pubblicato in: 2018
Editore: Luleå tekniska universitet

UNaLab Open Datasets
Autori: Engineering Informatica SpA
Pubblicato in: 2022
Editore: Engineering Informatica SpA

IoT Device Manager
Autori: Engineering Informatica SpA
Pubblicato in: 2020
Editore: Engineering Informatica SpA

Thesis and dissertations (32)

Services implementation for environment impact monitoring with IoT Smart Cities Platforms
Autori: Meza Yepez, Jean Carlo
Pubblicato in: 2022
Editore: University of Genova

Hulevesimittauspaikkojen rakentaminen
Autori: Kortetjärvi, K.-P.
Pubblicato in: 2019
Editore: Tampere University of Applied Sciences

Nutrient Recovery From Source-Separated Human Urine by Microalgae in Continuously Fed Raceway Pond. MSc Thesis, Faculty of Engineering and Natural Sciences, Tampere University
Autori: Saarnio, Sonja
Pubblicato in: 2019
Editore: Tampere University

Auswirkungen und Potenziale begrünter Gebäudehüllflächen. Master Thesis for the study programme: Real Estate Industry, Institute of Landscape Planning and Ecology (ILPOE), University of Stuttgart, Germany
Autori: Bojanic, Helena
Pubblicato in: 2022
Editore: University of Stuttgart

Floodplain restoration to enhance urban climate change resilience. MSc Thesis, Aalto University School of Engineering, Espoo, Finland
Autori: Dubovik, M.
Pubblicato in: 2019
Editore: Aalto University

Assessment of factors influencing the adoption and diffusion of nature-based solutions in urban areas. JEMES-CiSu MSc Thesis, Department of Environment and Planning, University of Aveiro, Aveiro, Portugal
Autori: López-Maciel, M.A.
Pubblicato in: 2019
Editore: University of Aveiro

Flood-mitigation impacts, costs and benefits from green roofs in urban areas: a cross-city comparison. MSc. Thesis Urban Environmental Management Specialization: Environmental Economics and Natural Resources. Wageningen University and Research
Autori: Bennink, Casper
Pubblicato in: 2022
Editore: Wageningen University and Research

Mapping the life cycle co-creation process of nature based solutions for urban climate change adaptation
Autori: White, Marta Irene de los Rios
Pubblicato in: reponame:Repositório Científico de Acesso Aberto de Portugal, Numero 10, 2018
Editore: University of Aveiro

Assessing policy options for nature-based solutions in urban areas of Latin America – The case of the Greater Metropolitan Area of Costa Rica. Global Change Ecology MSc Thesis, Universität Bayreuth, Germany
Autori: Vaccari Paz, B.L.
Pubblicato in: 2020
Editore: Universität Bayreuth

Local Governance of Nature-Based Solutions for Climate Adaptation - Case of Başakşehir District in İstanbul. Masterthesis IUSD, University of Stuttgart, Germany
Autori: Kus, S.
Pubblicato in: 2018
Editore: University of Stuttgart

Hochschulgelände als Trittsteinbiotope im urbanen Raum. Bachelor Thesis for the study programme: Envrionmental Engineering, Institute of Landscape Planning and Ecology (ILPOE), University of Stuttgart, Germany
Autori: Gutekunst, Judith
Pubblicato in: 2022
Editore: University of Stuttgart

Avaliação dos fatores que influenciam a adoção e difusão de soluções baseadas na natureza em áreas urbanas

Autori: Lopez Maciel, Max Alberto
Pubblicato in: Numero 7, 2019
Editore: University of Aveiro

O potencial do roadmap para a capacitação de instituições cooperativas na geração de SBN em espaços verdes comuns
Autori: Barrera, David Lameiras
Pubblicato in: Numero 7, 2018
Editore: University of Aveiro

Multiple impacts, costs and (co-) benefits from nature-based solutions for urban climate change adaptation
Autori: Silva, M.
Pubblicato in: 2019
Editore: University of Aveiro

Cultural ecosystem service values from and socio-economic impacts of green roofs: a case study in Eindhoven, Netherlands. M.Sc. Thesis. Department of Economics “Cognetti de Martiis” – University of Turin and Department of Environment and Planning – University of Aveiro. Turin (Italy) and Aveiro (Portugal)
Autori: Guaiana, Giogia
Pubblicato in: 2021
Editore: University of Aveiro

Contribution of nature-based solutions to biodiversity and cultural ecosystem service values in urban areas: case study for the City of Eindhoven in the Netherlands. MSc Thesis, Department of Economics “Cognetti de Martiis” / Department of Environment and Planning, University of Turin/University of Aveiro, Turin/Aveiro, Italy/ Portugal
Autori: D’António, C.
Pubblicato in: 2019
Editore: University of Aveiro

Nature-based solutions for urban microclimate regulation: the case of the Gavoglio Park project in Genoa. Alma Mater Studiorum – University of Bologna
Autori: Pallotta, Davide
Pubblicato in: 2022
Editore: University of Bologna

Low-cost, high impact: small scale green infrastructures as a powerful tool for the urban microclimate. Master Thesis for the study programme: Master Integrated Urbanism and Sustainable Design, Institute of Landscape Planning and Ecology (ILPOE), University of Stuttgart, Germany
Autori: Tavares, Isabela
Pubblicato in: 2021
Editore: University of Stuttgart

Direct and indirect impacts of nature-based solutions on urban heating
Autori: Augusto, B.
Pubblicato in: M.Sc.-thesis, Department of Environment and Planning, University of Aveiro, Aveiro, Portugal, 2018, Pagina/e 61 pp.
Editore: University of Aveiro

Integration and visualisation of urban sprawl and urban heating indicators from complex data in a context of nature-based solutions
Autori: Bodilis, C.
Pubblicato in: JEMES-CiSu M.Sc.-thesis, Department of Environment and Planning, University of Aveiro, Aveiro, Portugal, 2018, Pagina/e 82 pp.
Editore: University of Aveiro

Mapping the life cycle co-creation process of nature based solutions for urban climate change adaptation
Autori: De los Rios-White, M.
Pubblicato in: JEMES-CiSu M.Sc.-thesis, Department of Environment and Planning, University of Aveiro, Aveiro, Portugal, 2018, Pagina/e 80 pp.
Editore: University of Aveiro

NBS for climate change adaptation: the Roadmap potential to enable cooperative institutions for managing urban green commons
Autori: Lameiras-Barrera, D.
Pubblicato in: JEMES-CiSu M.Sc.-thesis, Department of Environment and Planning, University of Aveiro, Aveiro, Portugal, 2018, Pagina/e 86 pp.
Editore: University of Aveiro

Assessment of factors influencing the adoption and diffusion of nature-based solutions in urban areas
Autori: Lopez-Maciel, M.A.
Pubblicato in: JEMES-CiSu M.Sc.-thesis, Department of Environment and Planning, University of Aveiro, Aveiro, Portugal, 2018, Pagina/e 72pp.
Editore: University of Aveiro

Assessing outdoor air quality and temperature health impacts and benefits from green roofs: a case study for Genova, Italy. MSc. Thesis Urban Environmental Management Specialization: Environmental Economics. Wageningen University and Research
Autori: Šafářová, Tereza
Pubblicato in: 2022
Editore: Wageningen University and Research

Integrating Grey-Green Infrastructure: A Green Streetscapes Framework for Climate Change Adaptation in Tropical Jakarta, Indonesia. Master of Infrastructure Planning (MIP) Thesis, Institute of Landscape Planning and Ecology (ILPOE), University of Stuttgart, Germany

Autori: Larasayu Raymond, I.
Pubblicato in: 2020
Editore: University of Stuttgart

Impactes, custos e benefícios de soluções baseadas na natureza para a adaptação urbana às mudanças climáticas
Autori: Silva, Maria Salomé Costa
Pubblicato in: Numero 1, 2019
Editore: Universidade de Aveiro

Nature-based solutions, beyond standard urban planning practices – sustainable urban planning in a transition theory perspective. Master Thesis, Aalborg Universitet, Denmark
Autori: Bult, P.H.
Pubblicato in: 2019
Editore: Aalborg Universitet

Co-Creating Nature-Based Solutions and Green Spaces in a Nordic Municipality. MSc Thesis, Department of Civil and Environmental Engineering, Faculty of Engineering, Norwegian University of Science and Technology, Trondheim, Norway
Autori: Drageset, A.
Pubblicato in: 2019
Editore: Norwegian University of Science and Technology

Private Entities' Intentions to Invest in Nature-Based Solutions - The Case of Eindhoven, the Netherlands. MSc Thesis, Universität Hohenheim, Stuttgart, Germany
Autori: Mačiulytė, E.
Pubblicato in: 2018
Editore: Universität Hohenheim

Implementation process of nature-based stormwater solutions and its development in the city of Tampere
Autori: Luhtaniemi, S.
Pubblicato in: 2020
Editore: Häme University of Applied Sciences

Health impacts and benefits from air quality improvement associated with nature-based solutions. M.Sc. Thesis. Department of Economics “Cognetti de Martiis” – University of Turin and Department of Environment and Planning – University of Aveiro. Turin (Italy) and Aveiro (Portugal)
Autori: Ballocci, Marta
Pubblicato in: 2021
Editore: University of Aveiro

User Engagement in Living Labs: Issues and concerns, Doctoral dissertation, Luleå University of Technology

Autori: Habibipour, A.
Pubblicato in: 2020
Editore: Luleå University of Technology

Monographic books (5)

Evaluating the Impact of Nature-based Solutions: A Summary for Policymakers
Autori: Cardinali, M., Dumitru, A., Vandewoestijne, S., and Wendling, L.
Pubblicato in: 2021, ISBN 978-92-76-40745-4
Editore: Publications Office of the European Union
DOI: 10.2777/521937

Public procurement of nature-based solutions, Addressing barriers to the procurement of urban NBS: case studies and recommendations
Autori: Mačiulytė, E. & Durieux, E
Pubblicato in: 2020
Editore: Publications Office of the European Union

Evaluating the Impact of Nature-based Solutions: A Handbook for Practitioners
Autori: Dumitru, A., Wendling, L. (Eds.).
Pubblicato in: Evaluating the Impact of Nature-based Solutions: A Handbook for Practitioners, 2021, ISBN 978-92-76-22821-9
Editore: Publications Office of the European Union
DOI: 10.2777/244577

Evaluating the Impact of Nature-based Solutions: Appendix of Methods
Autori: Dumitru, A., Wendling, L. (Eds.)
Pubblicato in: 2021, ISBN 978-92-76-22960-5
Editore: Publications Office of the European Union
DOI: 10.2777/11361

Municipal governance for nature-based solutions. Executive summary of the UNaLab Municipal Governance Guidelines
Autori: Hawxwell, T., Mok, S., Mačiulytė, E., Sautter, J., Dobrokhotova, E., et al.
Pubblicato in: 2019
Editore: Fraunhofer IAO

Book chapters (8)

The Use of the Adoption Prediction Outcome Tool to Help Communities Improve the Transition Towards the Implementation of Nature-Based Solutions

Autori: López-Maciel, M., Roebeling, P., Llewellyn, R., Figueiredo, E., Mendonça, R., Mendes, R., Matos, F., Bastos, M. I.
Pubblicato in: New Metropolitan Perspectives. NMP 2022. Lecture Notes in Networks and Systems, vol 482, Numero 1916-1925, 2022, ISBN 978-3-031-06825-6
Editore: Springer, Cham
DOI: 10.1007/978-3-031-06825-6_192

Systemic Decision Support Tool for Online Application to Aid NBS Co-creation

Autori: Matos, F., Mendonça, R., Roebeling, P., Spinnato, P., Aiello, G., Mendes, R., Bastos, M. I., López-Maciel, M., & Sirchia, A.
Pubblicato in: New Metropolitan Perspectives. NMP 2022. Lecture Notes in Networks and Systems, Numero 482, 2022, Pagina/e 1916-1925, ISBN 978-3-031-06825-6
Editore: Springer, Cham
DOI: 10.1007/978-3-031-06825-6_184

Integrating engineered and nature-based solutions for urban stormwater management

Autori: Wendling, L. & Holt, EE
Pubblicato in: Women in Water Quality: Investigations by Prominent Female Engineers, 2020, Pagina/e 23-46, ISBN 978-3-030-17818-5
Editore: Springer Cham
DOI: 10.1007/978-3-030-17819-2

Indicators of NBS Performance and Impact

Autori: Wendling, L., Dumitru, A., Arnbjerg-Nielsen, K., Baldacchini, C., Connop, S., Dubovik, M., Fermoso, J., Hölscher, K., Nadim, F., Pilla, F., Renaud, F., Rhodes, M. L., San José, E., Sánchez, R., Skodra, J., Tacnet, J.-M., Zulian, G., et al
Pubblicato in: Evaluating the impact of nature-based solutions: A handbook for practitioners, 2021, Pagina/e 115-173, ISBN 978-92-76-22821-9
Editore: Publications Office of the European Union

Using Nature-Based Solutions to Create more Climate-Resilient, Green and Liveable Mediterranean Cities: Experiences from Castellón and Cannes

Autori: Padilla, M., Mok, S., & Vaccari Paz, B.
Pubblicato in: SHAPING URBAN CHANGE – Livable City Regions for the 21st Century. Proceedings of REAL CORP 2020, 25th International Conference on Urban Development, Regional Planning and Information Society, Numero 25213938, 2020, Pagina/e 977-985, ISSN 2521-3938
Editore: Regional Planning and Information Society

Data requirements

Autori: Leo, LS, Kalas, M, Baldacchini, C, Budau, OE, Castellar, J, Comas, J, Connop, S, Corbane, C, Decker, S, Draghia, M, Dubovik, M, Dushkova, D, Haase, D, Ivits, E, Körmöndi, B, Kumar, P, Laikari, A, Leopa, S, Littkopf, A, Ommer, J, Rinta-Hiiro, V, Spano, G, Spinnato, P, Vranic, S, Teixeira da Silva, R & Zavarrone, E.
Pubblicato in: Evaluating the impact of nature-based solutions: A handbook for practitioners, 2021, Pagina/e 279-361, ISBN 978-92-76-22821-9
Editore: Publications Office of the European Union

Application of the NBS Impact Evaluation Framework: NBS Performance and Impact Evaluation Case Studies

Autori: Dubovik, M., Dumitru, A., Wendling, L., Briega, P., Capobianco, V., Connop, S., Crespo, L., Fermoso, J., Giannico, V., Gómez, S., González, M., Kakoulaki, G., Kumar, P., Leppänen, S., Marijuan, R., Pablo, S., Pérez, J.A., Pilla, F., Rinta-Hiiro, V., Riquelme, H., Sánchez, E., Sánchez, I., Sánchez, J.C., Sánchez, R., San José, E., Sanz, J.M., Sanz, N., Serramia, J., Spano, G., Särkilahti,
Pubblicato in: Evaluating the impact of nature-based solutions: A handbook for practitioners, 2021, Pagina/e 179-234, ISBN 978-92-76-22821-9
Editore: Publications Office of the European Union

Introduction

Autori: Sgrigna, G., López-Gunn, E., Dubovik, M., Di Sabatino, S., Kumar, P., Feliu, E., Ruangpan, L., San Jose, E., Sanchez, R., Van Cauwenbergh, N., Vojinovic, Z., Wendling, L.
Pubblicato in: Evaluating the impact of nature-based solutions: A handbook for practitioners, 2021, Pagina/e 16-39, ISBN 978-92-76-22821-9
Editore: Publications Office of the European Union

Peer reviewed articles (32)

Building climate resilience through nature-based solutions in Europe: A review of enabling knowledge, finance and governance frameworks

Autori: Calliari, E, Castellari, S, Davis, M, Martin, J, Mysiak, J, Pastor, T, Ramieri, E, Scolobig, A, Sterk, M, Veerkamp, C, Wendling, L, Zandersen, M
Pubblicato in: Climate Risk Management, Numero 37, 2022, Pagina/e 100450, ISSN 2212-0963
Editore: Elsevier
DOI: 10.1016/j.crm.2022.100450

Microalgae grow on source separated human urine in Nordic climate: Outdoor pilot-scale cultivation

Autori: Chatterjee, P., Granatier, M., Ramasamy, P., Kokko, M., Lakaniemi, A.M., & Rintala, J.
Pubblicato in: Journal of Environmental Management, Numero 03014797, 2019, Pagina/e 119-127, ISSN 0301-4797
Editore: Academic Press
DOI: 10.1016/j.jenvman.2019.02.074

Informing the design of urban green and blue spaces through an understanding of Europeans' usage and preferences

Autori: Jakstis, K, Dubovik, M, Laikari, A, Mustajarvi, K, Wendling, L, Fischer, LK
Pubblicato in: People and Nature, Numero 5, 2022, Pagina/e 162-182, ISSN 2575-8314
Editore: British Ecological Society
DOI: 10.1002/pan3.10419

Assessing Douro Vineyards Exposure to Tropospheric Ozone

Autori: Ascenso, A., Gama, C., Blanco-Ward, D., Monteiro, A., Silveira, C., Viceto, C., Miranda, A. I.
Pubblicato in: Atmosphere, Numero 12(2), 2021, ISSN 2073-4433
Editore: Rotoweb Cantelli
DOI: 10.3390/atmos12020200

Effectiveness of Nature-Based Solutions on Pluvial Flood Hazard Mitigation: The Case Study of the City of Eindhoven (The Netherlands)

Autori: Costa, S., R. Peters, R. Martins, L.A. Postmes, J. Keizer and P. Roebeling
Pubblicato in: Resources, Numero 20799276, 2021, Pagina/e 24, ISSN 2079-9276
Editore: MDPI
DOI: 10.3390/resources10030024

Planning considerations of green corridors for the improvement of biodiversity resilience in suburban areas

Autori: Wang, Y., Jia, S., Wang, Z., Chen, Y., Mo, S. & Sze, N. N.
Pubblicato in: Journal of Infrastructure Preservation and Resilience, Numero 2, 2021, Pagina/e 6, ISSN 2662-2521
Editore: SpringerOpen
DOI: 10.1186/s43065-021-00023-4

Biosuodattimia, hevoshakoja ja viherkattoja – yhdessä oppiminen luontopohjaisten ratkaisujen luomisessa

Autori: Särkilahti, M., Mustajärvi, K., & Leppänen, S.
Pubblicato in: Alue Ja Ympäristö, Numero 48(2), 2019, Pagina/e 20-37, ISSN 1235-4554
Editore: AYS
DOI: 10.30663/ay.85117

Integrating Biophysical and Economic Assessment: Review of Nature-Based Adaptation to Urban Flood Extremes
Autori: Quagliolo, C.; Roebeling, P.; Mendonça, R.; Pezzoli, A.; Comino, E.
Pubblicato in: Urban Science, Numero 6(3), 2022, Pagina/e 53, ISSN 2413-8851
Editore: MDPI
DOI: 10.3390/urbansci6030053

The Nature-Based Solutions Case-Based System: A hybrid expert system
Autori: Sarabi, S., Han Q., de Vries, B. Romme, A., & Almassy, D.
Pubblicato in: Journal of Environmental Management, Numero 324, 2022, Pagina/e 116413, ISSN 0301-4797
Editore: Academic Press
DOI: 10.1016/j.jenvman.2022.116413

Are green roofs the path to clean air and low carbon cities?
Autori: Rafael, S., Correia, L. P., Ascenso, A., Augusto, B., Lopes, D., & Miranda, A. I.
Pubblicato in: Science of the Total Environment, Numero 798, 2021, Pagina/e 149313, ISSN 0048-9697
Editore: Elsevier BV
DOI: 10.1016/j.scitotenv.2021.149313

Assessing air pollution in European cities to support a citizen centered approach to air quality management
Autori: Rodrigues, V., Gama, C., Ascenso, A., Oliveira, K., Coelho, S., Monteiro, A., Lopes, M.
Pubblicato in: Science of the Total Environment, Numero 799, 2021, Pagina/e 149311, ISSN 0048-9697
Editore: Elsevier BV
DOI: 10.1016/j.scitotenv.2021.149311

Modelling impacts of nature-based solutions on surface water quality: a rapid review
Autori: Matos, F. A., & Roebeling, P.
Pubblicato in: Sustainability, Numero 14, 2022, ISSN 2071-1050
Editore: MDPI Open Access Publishing
DOI: 10.3390/su14127381

The nature-based solutions planning support system: A playground for site and solution prioritization

Autori: Shahryar Sarabi; Qi Han; Bauke de Vries; A.Georges L. Romme
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Key Enablers of and Barriers to the Uptake and Implementation of Nature-Based Solutions in Urban Settings: A Review

Autori: Shahryar Sarabi; Q Qi Han; A. Georges L. Romme; Bauke de Vries; Laura Wendling
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Autori: Di Pirro, E.; Mendes, R.; Fidélis, T.; Sallustio, L.; Roebeling, P.; Marchetti, M.; Lasserre, B.
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Autori: Ascenso, A. B. Augusto, C. Silveira, S. Rafael, S. Coelho, A. Monteiro, J. Ferreira, I. Menezes, P. Roebeling and A.I. Miranda
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