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@misc{Britton2022,
    title = "Beetles: Order Coleoptera",
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    url =
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coleoptera/#:~:text=Over%20one%2Dquarter%20of%20all,being%20discovered%20all
%20the%20time.",
    author = "David Britton",
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@misc{Neslen2022,
    title = "Pesticide use around world almost doubles since 1990, report
finds",
    year = "2022",
    url =
"https://www.theguardian.com/environment/2022/oct/18/pesticide-use-around-wo
rld-almost-doubles-since-1990-report-finds",
    author = "Arthur Neslen",
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    title = "Climate Change Threatens Insects — And Us",
    year = "2023",
    url = "https://therevelator.org/insects-climate-
change/#:~:text=A%20look%20at%20the%20bigger,a%20storm%20of%20media%20attent
ion",
    author = "Tara Lohan",
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Wildlife?",
    year = "2018",
    url =
"https://www.woodlandtrust.org.uk/blog/2018/08/what-is-habitat-fragmentation
-and-what-does-it-mean-for-our-wildlife/",
    author = "James Martin",
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    title = "Shift-Left Testing",
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    url = "https://www.drdobbs.com/shift-left-testing/184404768",
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    title = "Product Quality: Definition, Characteristics and Importance",
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"https://www.yourarticlelibrary.com/products/quality/product-quality-definit
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ion-characteristics-and-importance/90711",
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    url =
"https://discoveryfast.com/wp-content/uploads/2022/06/ScrumPoster.png",
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    title = "2030 Targets (with Guidance Notes)",
    year = "2024",
    url = "https://www.cbd.int/gbf/targets",
    author = "{Convention on Biological Diversity}",
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    title = "Consumer Gardening Report Finds One in Three People Turning to
Native Plants, Gardening for Wildlife",
    year = "2022",
    url =
"https://www.nwf.org/Home/Latest-News/Press-Releases/2022/5-02-22-Consumer-G
ardening-Report",
    author = "Caitlyn Fallon",
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    title = "Causes of climate change",
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"https://climate.ec.europa.eu/climate-change/causes-climate-change_en",
    author = "{European Commission}",
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@misc{EcosystemrestorationWD,
    title = "What is Ecosystem Restoration?",
    year = "2024",
    url = "https://www.decadeonrestoration.org/what-ecosystem-restoration",
    author = "{United Nations Environment Programme}",
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    title = "Insect Farming: The Sustainable Future of Food Production",
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    title = "Investing in Nature Is Gaining Traction. Will It Be Enough?",
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"https://www.barrons.com/articles/investing-in-nature-is-gaining-traction-will-it-be-enough-f8cb6651",
    author = "Abby Schultz",
}

@misc{Yamaguchi2024,
    title = "Climate change may cause crisis amid important insect
populations, researchers say",
    year = "2024",
    url =
"https://www.cbsnews.com/news/climate-change-may-cause-crisis-amid-important-insect-populations-researchers-say/",
    author = "Adam Yamaguchi and Kerry Breen",
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@misc{test2023,
    title = "Directive 92/43/CEE",
    year = "1992",
    url = "https://eur-lex.europa.eu/legal-
content/FR/TXT/?uri=celex%3A31992L0043",
    author = "{Conseil de l'Union Européenne}",
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@MISC{IUCN2024,
    title = "The IUCN Website",
    year = "2024",
    url = "https://www.iucnredlist.org/",
    author = "International Union for Conservation of Nature and Natural
Resources",
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@MISC{factsred2023,
    title = "What is IUCN Red List?",
    year = "2023",
    url = "http://sunhakpeaceprize.org/en/news/issue.php?bgu=view&idx=780",
    author = "Yeon Je Choi",
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@MISC{redlist2023,
    title = "The IUCN Red List of Threatened Beetle Species",
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    url =
"https://www.iucnredlist.org/search?query=Beetles&searchType=species",
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Resources}",
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    author = "Law Insider",
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@Article{GeoDiversity2022,
    AUTHOR = {Morante-Carballo, Fernando and Gurumendi-Noriega, Miguel and
Cumbe-Vásquez, Juan and Bravo-Montero, Lady and Carrión-Mero, Paúl},
    TITLE = {Georesources as an Alternative for Sustainable Development in
COVID-19 Times—A Study Case in Ecuador},
    JOURNAL = {Sustainability},
    VOLUME = {14},
    YEAR = {2022},
    NUMBER = {13},
    ARTICLE-NUMBER = {7856},
    URL = {https://www.mdpi.com/2071-1050/14/13/7856},
    ISSN = {2071-1050},
    ABSTRACT = {Georesources comprise spaces of relevant geological value
with the potential to be used and managed as a resource. Therefore,
georesources are an essential development factor in the world, mainly
oriented to their rational use to improve the quality of life of the
surrounding population. This work aims to analyze the main applications,
conservation strategies and sustainable use of georesources in the rural
area of Manglaralto (Ecuador) through their inventory, assessment and
analysis for the adaptation of alternative uses to particular circumstances
(e.g., the COVID-19 pandemic). The method used consists of four phases: (i)
inventory and mapping of georesources; (ii) description and assessment of
georesources using international methodologies (e.g., GtRAM for georoute
assessment, hydrogeological characterization using GeoModeller for
groundwater assessment, GIS tools for assessing materials with
industrial–artisanal interest, and KFM matrix method for the assessment of
the level of construction difficulty of sanitary landfills); (iii)
georesources complementary applications and (iv) SWOT analysis (Strengths,
Weaknesses, Opportunities, Threats) and TOWS matrix preparation (Threats,
Opportunities, Weaknesses, Strengths), seeking strategies to guarantee the
viability of the use of georesources. As a main result of the investigation,
the geolocation of the georesources of the area was obtained. In addition,
the assessment of the main georesources such as (i) potential geosites and
sites of geological interest (e.g., beaches, cliffs, waterfalls, capes),
(ii) groundwater (aquifers), and (iii) materials with artisanal and
industrial interest (e.g., clays, sands). Finally, the study allowed us to
define areas to develop landfill infrastructure, identify ecosystem
services, and construct tsunami refuge site proposals. The case study
addressed shows that the inventory and definition of the use of geological
resources constitute a fundamental process for the economic, social, and
environmental development of the population.},
    DOI = {10.3390/su14137856}
}
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@MISC{LifeCycleAssessement2020,
    title = "What is Life Cycle Assessment (LCA)?",
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    url = "https://sphera.com/glossary/what-is-a-life-cycle-assessment-lca",
    author = "Sphera's Editorial Team",
}

@MISC{Bazan2002,
    title = "The Three Circles Model of Sustainability",
    year = "2002",
    url =
"http://www.neo-terra.org/uploads/2/5/6/4/25644359/3-circle_model-website.pd
f",
    author = "Gene Bazan and Tania Slawecki",
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    title = "Happy Planet Index",
    year = "2024",
    url = "https://happyplanetindex.org/",
    author = "{Hot or Cool Institute}",
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@incollection{EcoEfficiency2019,
    title = {Chapter 1 - Methodology for Selection and Application of Eco-
Efficiency Indicators Fostering Decision-Making and Communication at Product
Level—The Case of Molds for Injection Molding},
    editor = {Mangey Ram and J. {Paulo Davim}},
    booktitle = {Advanced Applications in Manufacturing Enginering},
    publisher = {Woodhead Publishing},
    pages = {1-52},
    year = {2019},
    isbn = {978-0-08-102414-0},
    doi = {https://doi.org/10.1016/B978-0-08-102414-0.00001-X},
    url =
{https://www.sciencedirect.com/science/article/pii/B978008102414000001X},
    author = {Paulo Peças and Uwe Götze and Rita Bravo and Fanny Richter and
Inês Ribeiro},
    keywords = {eco-efficiency, environment, indicator, injection molding,
life cycle, sustainability, value},
    abstract = {Eco-efficiency is a prominent as well as promising approach
for fostering sustainability by assessing the environmental impact and value
of companies' activities simultaneously. A lot of indicators to assess both
pillars—environmental and economic effects—are presented in different
standards and guidelines. This chapter develops a methodology for selecting
and applying indicators for the application of eco-efficiency to support
decision-making, internal, and external communication at product level. The
chapter starts with outlining the motivation and presenting a brief
literature review as well as the intended contribution. Thereafter, the
methodology for the stepwise selection of a manageable number of relevant
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and significant eco-efficiency indicators and the generation of the value and environmental profiles as well as eco-efficiency ratios of products are suggested. The methodology is developed against the background of the mold manufacturing and plastic injection molding sector. A case study referring to molds for injection molding demonstrates its application and results.}
}

@MISC{EnergyEfficiency2021,
    title = "6 Top Energy Efficiency Benefits For Businesses in 2021",
    year = "2021",
    url = "https://surple.co.uk/energy-efficiency-benefits/#:~:text=Sure%2C%20using%20less%20energy%20can,and%20help%20save%20the%20planet",
    author = "Surple",
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@MISC{BeetleBenefits,
    title = "Beetle Benefits",
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    author = "Katherine Baxter",
}

@article{BeetleEcosystem,
    author = {Slade, Eleanor M. and Kirwan, Laura and Bell, Thomas and Philipson, Christopher D. and Lewis, Owen T. and Roslin, Tomas},
    title = {The importance of species identity and interactions for multifunctionality depends on how ecosystem functions are valued},
    journal = {Ecology},
    volume = {98},
    number = {10},
    pages = {2626-2639},
    keywords = {biodiversity, complementarity, desirability function approach, dominance, dung beetle, ecosystem function, ecosystem services, environmental perturbation, extinction scenarios, multifunctionality, multivariate diversity–interaction model, species interactions},
    doi = {https://doi.org/10.1002/ecy.1954},
    url = {https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecy.1954},
    eprint = {https://esajournals.onlinelibrary.wiley.com/doi/pdf/10.1002/ecy.1954},
    abstract = {Abstract Studies investigating how biodiversity affects ecosystem functioning increasingly focus on multiple functions measured simultaneously (“multifunctionality”). However, few such studies assess the role of species interactions, particularly under alternative environmental scenarios, despite interactions being key to ecosystem functioning. Here we address five questions of central importance to ecosystem multifunctionality using a terrestrial animal system. (1) Does the contribution of individual species differ for different ecosystem functions? (2) Do inter-species interactions affect the delivery of single functions and multiple functions? (3) Does the community composition that maximizes individual functions also
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maximize multifunctionality? (4) Is the functional role of individual
species, and the effect of interspecific interactions, modified by changing
environmental conditions? (5) How do these roles and interactions change
under varying scenarios where ecosystem services are weighted to reflect
different societal preferences? We manipulated species’ relative abundance
in dung beetle communities and measured 16 functions contributing to dung
decomposition, plant productivity, nutrient recycling, reduction of
greenhouse gases, and microbial activity. Using the multivariate
diversity–interactions framework, we assessed how changes in species
identity, composition, and interspecific interactions affected these
functions in combination with an environmental driver (increased
precipitation). This allowed us to identify key species and interactions
across multiple functions. We then developed a desirability function
approach to examine how individual species and species mixtures contribute
to a desired state of overall ecosystem functioning. Species contributed
unequally to individual functions, and to multifunctionality, and individual
functions were maximized by different community compositions. Moreover, the
species and interactions important for maintaining overall
multifunctionality depended on the weight given to individual functions.
Optimal multifunctionality was context-dependent, and sensitive to the
valuation of services. This combination of methodological approaches allowed
us to resolve the interactions and indirect effects among species that drive
ecosystem functioning, revealing how multiple aspects of biodiversity can
simultaneously drive ecosystem functioning. Our results highlight the
importance of a multifunctionality perspective for a complete assessment of
species’ functional contributions.},
    year = {2017}
}

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    title = "Birds, beetles, bugs could help replace pesticides: study",
    year = "2024",
    url =
"https://www.businesstimes.com.sg/lifestyle/birds-beetles-bugs-could-help-re
place-pesticides-study",
    author = "The Business Times",
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    title = "What is Ecotourism?",
    year = "2019",
    url = "https://ecotourism.org/what-is-ecotourism/",
    author = "{The International Ecotourism Society}",
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@MISC{Guevara2024,
    title = "A Guide to Understanding 5x5 Risk Assessment Matrix",
    year = "2024",
    url =
"https://safetyculture.com/topics/risk-assessment/5x5-risk-matrix/",
    author = "Patricia Guevara",
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    title = "Stakeholder Mapping When Why and How to Map Stakeholders",
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    author = "Patrick Grégoire",
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    url = "https://www.britannica.com/topic/scarab",
    author = "Kara Rogers",
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    title = "Vivariums: Everything You Need To Know",
    year = "2023",
    url = "https://bantam.earth/vivarium/",
    author = "CJ Abney",
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    title = "NSPE Code of Ethics for Engineers",
    year = "2019",
    url = "https://www.nspe.org/resources/ethics/code-ethics",
    author = "{National Society of Professional Engineers}",
}

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    title = "The ethics of engineering",
    year = "2019",
    url =
"https://www.rte.ie/brainstorm/2019/1129/1095898-the-ethics-of-
engineering/",
    author = "Diana Adela Martin",
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    title = "Ethics in Sales and Marketing",
    year = "2023",
    url = "https://managementstudyguide.com/ethics-in-sales-marketing.htm",
    author = "Prachi Juneja",
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@ARTICLE{considerations,
    AUTHOR={Thulin, Carl-Gustaf and Röcklinsberg, Helena},
    TITLE={Ethical Considerations for Wildlife Reintroductions and
Rewilding},
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    JOURNAL={Frontiers in Veterinary Science},
    VOLUME={7},
    YEAR={2020},
    URL={https://www.frontiersin.org/articles/10.3389/fvets.2020.00163},
    DOI={10.3389/fvets.2020.00163},
    ISSN={2297-1769},
    ABSTRACT={The recovery of many populations of large carnivores and
herbivores in major parts of Europe and North America offers ecosystem
services and opportunities for sustainable utilization of wildlife. Examples
of services are hunting, meat, and skin, along with less invasive
utilization such as ecotourism and wildlife spotting. An increasing number
of studies also point out the ecosystem function, landscape engineering, and
cascading effects of wildlife as values for human existence, biodiversity
conservation, and ecosystem resilience. Within this framework, the concept
of rewilding has emerged as a means to add to the wilderness through either
supplementary release of wildlife species already present or reintroduction
of species formerly present in a certain area. The latter involves
translocation of species from other geographical areas, releases from
captivity, feralization, retro-breeding, or de-domestication of breeds for
which the wild ancestor is extinct. While all these initiatives aim to
reverse some of the negative human impacts on life on earth, some pose
challenges such as conflicts of interest between humans and wildlife in, for
example, forestry, agriculture, traffic, or disease dynamics (e.g.,
zoonosis). There are also welfare aspects when managing wildlife populations
with the purpose to serve humans or act as tools in landscape engineering.
These welfare aspects are particularly apparent when it comes to releases of
animals handled by humans, either from captivity or translocated from other
geographical areas. An ethical values clash is that translocation can
involve suffering of the actual individual, while also contributing to
reintroduction of species and reestablishment of ecological functions. This
paper describes wildlife recovery in Europe and North America and elaborates
on ethical considerations raised by the use of wildlife for different
purposes, in order to find ways forward that are acceptable to both the
animals and humans involved. The reintroduction ethics aspects raised are
finally formulated in 10 guidelines suggested for management efforts aimed
at translocating wildlife or reestablishing wilderness areas.}
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@incollection{liability,
    author = {Lucy William},
    isbn = {9780198700685},
    title = "{Legal Liability-Responsibility}",
    booktitle = "{Philosophy of Private Law}",
    publisher = {Oxford University Press},
    year = {2006},
    abstract = "{This chapter discusses the concept of legal liability-
responsibility. Legal liability-responsibility refers to all the general
components usually necessary to incur legal blame and, in private law, to be
compelled to comply with a court order to pay damages or otherwise remedy
the harm done. There are other kinds of liability-responsibility, the most
significant being ‘moral liability-responsibility’. This lays down the
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requirements for legitimately praising and blaming those whose conduct is
either morally wrong or morally commendable. Both moral and legal liability-
responsibility have a similar function, namely, attributing conduct and its
outcomes to agents. However, whereas legal liability-responsibility usually
concerns itself only with the attribution of conduct and outcomes that are
baleful, moral liability-responsibility deals with both good and bad conduct
and its outcomes.}",
    doi = {10.1093/acprof:oso/9780198700685.003.0002},
    url = {https://doi.org/10.1093/acprof:oso/9780198700685.003.0002},
    eprint =
{https://academic.oup.com/book/0/chapter/148138293/chapter-pdf/39223787/acpr
of-9780198700685-chapter-2.pdf},
}

@MISC{exoterra,
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    url = "https://exo-terra.com/products/terrariums/",
    author = "Exo Terra",
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@MISC{zoomed,
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beetles",
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@MISC{joshsfrogs,
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    author = "Josh’s Frogs",
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@misc{LCA,
    title = "Life Cycle Assessment (LCA) – Everything you need to know",
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    url = "https://ecochain.com/blog/life-cycle-assessment-lca-guide/",
    author = "Ecochain",
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@misc{ISOLCA,
    title = "ISO 14001 Explained: The standards that define environmental
management",
    year = "2024",
    url = "https://ecochain.com/blog/iso-14000-iso-14001-standards/",
    author = "Ecochain",
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@misc{pattern,
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"https://hexidek.com/wp-content/uploads/2022/09/Hexidek-%E2%80%93-creating-b
eautiful-balconies-%E2%80%93-Elite-Publishing.pdf",
    author = "Hexidek",
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@misc{360imprimirPosters,
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03a7a00ef9ba119e20bfee7&objectId=P4_BROCHURE_BIFOLD_196056",
    author = "360imprimir",
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@misc{Shopifypricing,
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    author = "Shopify",
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