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@misc{Britton2022,  
  title = "Beetles: Order Coleoptera",  
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  "https://www.theguardian.com/environment/2022/oct/18/pesticide-use-around-wo  
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@misc{Lohan2023,  
  title = "Climate Change Threatens Insects – And Us",  
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@misc{Martin2018,  
  title = "What is Habitat Fragmentation and What Does it Mean for our  
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  url =  
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  url = "https://www.iucnredlist.org/",  
  author = "International Union for Conservation of Nature and Natural  
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  url = "http://sunhakpeaceprize.org/en/news/issue.php?bgu=view&idx=780",  
  author = "Yeon Je Choi",  
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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},  
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  VOLUME = {14},  
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  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.},  
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  url =  
"http://www.neo-terra.org/uploads/2/5/6/4/25644359/3-circle_model-website.pdf",  
  author = "Gene Bazan and Tania Slaweki",  
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  editor = {Mangey Ram and J. {Paulo Davim}},  
  booktitle = {Advanced Applications in Manufacturing Engineering},  
  publisher = {Woodhead Publishing},  
  pages = {1-52},  
  year = {2019},  
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{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.}

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@MISC{EnergyEfficiency2021,  
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@article{BeetleEcosystem,  
  author = {Slade, Eleanor M. and Kirwan, Laura and Bell, Thomas and  
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  title = {The importance of species identity and interactions for  
multifunctionality depends on how ecosystem functions are valued},  
  journal = {Ecology},  
  volume = {98},  
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  keywords = {biodiversity, complementarity, desirability function  
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environmental perturbation, extinction scenarios, multifunctionality,  
multivariate diversity–interaction model, species interactions},  
  doi = {https://doi.org/10.1002/ecy.1954},  
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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 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.},

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  url = "https://bantam.earth/vivarium/",
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year = "2023",
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@ARTICLE{considerations,
AUTHOR={Thulin, Carl-Gustaf and Röcklinsberg, Helena},
TITLE={Ethical Considerations for Wildlife Reintroductions and
Rewilding},
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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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
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},
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of-9780198700685-chapter-2.pdf},
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@misc{LCA,
title = "Life Cycle Assessment (LCA) – Everything you need to know",
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"https://hexidek.com/wp-content/uploads/2022/09/Hexidek-%E2%80%93-creating-b
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  author = "Sara Lewis & Avalon C.S. Owens",
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  "https://www.ecoguardpestmanagement.com/pest-resources/beetle-life-cycle",
  author = "Gary Anderson",
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  url = "https://www.simscale.com/blog/what-is-finite-element-method/",
  author = "Ajay Harish",
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@MISC{StudySmarterWD,
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