

Cross-sectional analysis of ecological values  
of ecosystem services  
Case Study no. 1

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Services provided by main types of ecosystems in Poland  
- an applied approach

The project 'Services provided by main types of ecosystems in Poland - an applied approach' received funding from Iceland, Liechtenstein and Norway within the EEA Financial Mechanism 2014-2021 in the amount of 1,489,999 EUR, and from budget of Poland in the amount of 262,941 EUR. The aims of the project are transferring of scientific knowledge on ecosystem services which exists in Europe to the process of mapping and assessment of ecosystem services in Poland, as well as increasing the scientific potential and the ability of administration and interested social groups to Implement this approach in environmental management.

Green and blue infrastructure is one of the essential elements of urban planning. Green areas help prevent health problems, provide space for recreation, and, as such, improve human well-being. Moreover, urbanized areas are a habitat for many species. These species offer a wide range of ecosystem services. However, the links between biodiversity and ecosystem services are difficult to explain, mainly due to the fragmented nature of many available datasets and the need for interconnections.

In this report, we show how selected elements of ecological values influence the provision of ecosystem services in Poznań (Poland). Our set of indicators is partly based on available geographic information and partly on databases data from six independent studies conducted in Poznań concerning various animal taxa.

First, we summarize the available information about Poznań's green and blue infrastructure and selected taxa of fauna inhabiting the city. We then describe our data sources. In the next step, we introduce ecosystem services indicators that can be assessed based on available information. Finally, we would like to give some suggestions for decision-makers regarding urban planning and existing infrastructure management policies.