The Mapping of Ecosystem Services main objective is to identify opportunities for valuing areas existing within the municipality in contact with natural and potential areas for the expansion of ecosystems, promoting aspects associated with sustainable urban development and environmental education.

Ecosystem Services

- Maintenance of genetic diversity: Genetic diversity relates to different breeds and species variability. It is the basis for good local adaptation. In addition, the gene pool is important for the development of agriculture and livestock.
- Natural Habitat Support: Habitats provide everything a plant or animal needs to survive, such as food, water, and shelter. Each ecosystem provides different habitats that may be essential to the life cycle of a species.
- Regulation of the water cycle: Ecosystems like wetlands filter both human and animal effluents and act as a natural buffer for the environment.
- Regulation of local micro-climate and air quality: Forests, trees, and other plants play an important role in regulating local climate and air quality, both locally and regionally, by providing shade, influencing water availability, and reducing and removing pollutants from the atmosphere.
- moderation of extreme events: Ecosystems and many organisms act as buffers against natural disasters, thus avoiding possible damage. For example, wetlands can absorb floodwater and trees can stabilize slopes.
- Provision of food: Agroforestry systems, freshwater systems and forests provide the necessary conditions for growing food for human consumption.
- Leisure and tourism cultural services: The role that green areas play in maintaining mental and physical health is increasingly recognized. Ecosystems and biodiversity also play an important role for many types of tourism, which in turn provides considerable economic benefits, and a vital source of income for many countries, and can educate people about the importance of biodiversity.

Threats to Ecosystem Services

- Mining
- Oil refinery
- Extensive deforestation
- Habitat with high or very high vulnerability
- 3 regular waste disposal
- SLCN Red List of Threatened Species: Extinct
- Threatened
- Little concern

Cartographic BB 35

- Neighborhoods
- Roads
- Bikes
- Train line
- Proposed low-elevation urban area
- Proposed low-elevation urban area
- Proposed medium and high elevation
- Big constructions
- Industrial area

Map illustrated by Patricia Varanez
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Prefeitura de Canoas