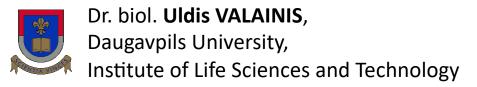


Joint Management of Urban Wetland Areas in border region Latvia-Lithuania. (Urb-Area)

Project Nr. LLI-472

Esplanade wetland as an area of environmental knowledge and possible solutions for the development of educational nature tourism in the area



Advantages of the Esplanāde wetland area

 Uncharacteristic biodiversity of the urban environment



Black-headed gull



European green toad



Corncrake



Pond bat



Advantages of the Esplanade wetland area

✓ Esplanade wetland is located close to well-visited tourism objects in Daugavpils but this territory is able to offer a unique and completely different tourism offer.







Advantages of the Esplanade wetland area

✓ The supporting infrastructure necessary for a successful tourism object (parking places, children's playgrounds etc.) has already been created in the territory adjacent to the Esplanade wetland. This object is already an important recreation and cognition area.









Advantages of the Esplanade wetland area

✓ Existing intellectual resource that can provide an advisory function for the preservation and management of natural values, as well as create content for the offer of environmental education in the territory





















Joint Management of Urban Wetland Areas in border region Latvia-Lithuania. (Urb-Area)

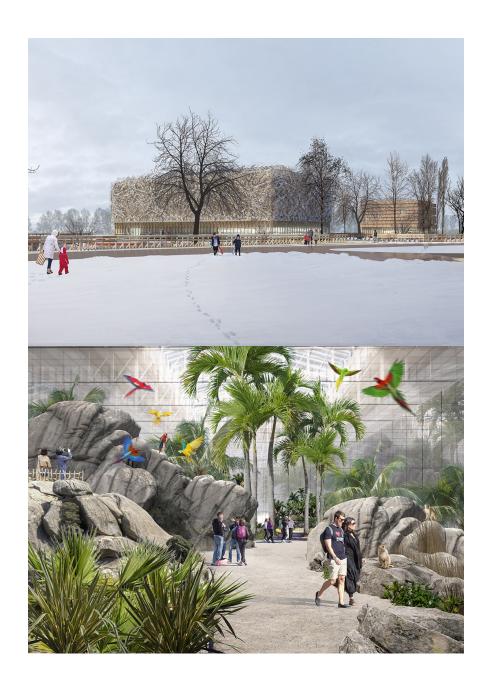
Project Nr. LLI-472

Planned infrastructure development projects in the territory of the Esplanade wetland

Establishment of tourism and nature education objects and improvement of the territory in the territory of Latgale Zoo at Vienibas Street 27, Daugavpils



- location of the existing building of Latgale Zoo;
- 2. location of the planned "Jungle House";
- 3. location of the planned "Marsh House";
- 4. location of the planned observation tower;
- 5. the planned route of the trail (background image from the sketch prepared by "Trīs arhitektūra" and "Sudraba arhitektūra")







Esplanade tourism and nature research object "Biodiversity of Latgale bog"

















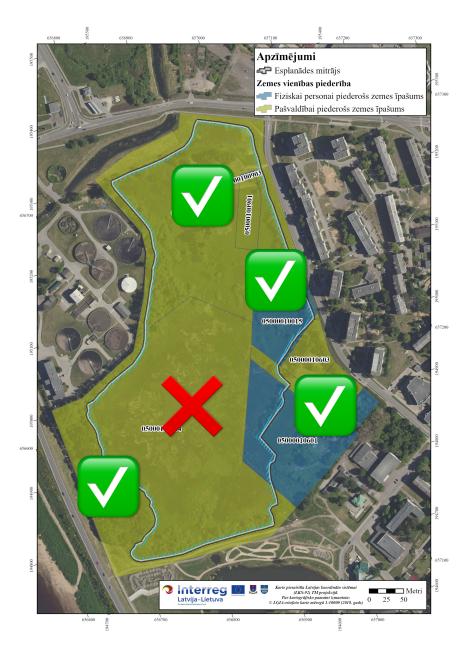
Recommendations for reducing the impact of the construction of the planned infrastructure objects on the natural values occurring in the territory

✓ The creation of new infrastructure objects in the central part of the wetland is not allowed.

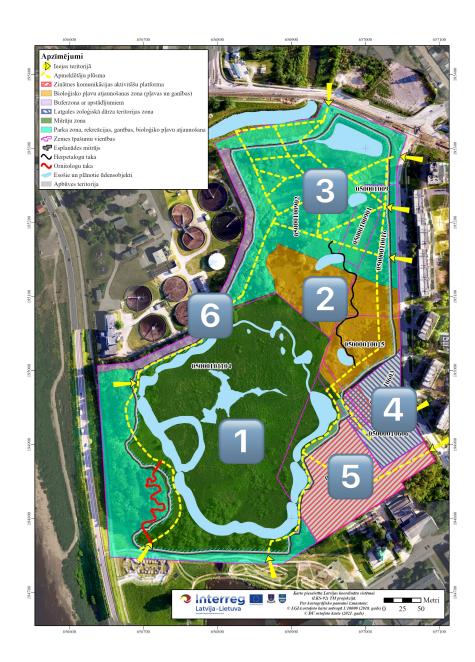


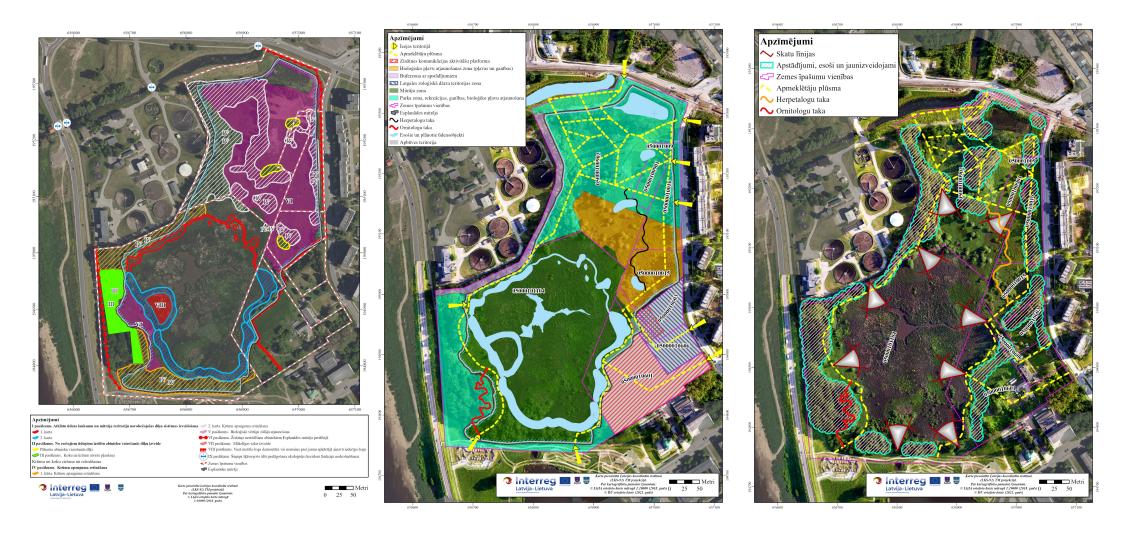


✓ In the current projects, the construction of infrastructure is planned within one land unit, where the most significant natural values of the territory are concentrated. Specialists recommend realizing the construction of objects on the periphery of the wetland, if necessary, buying out private land properties.



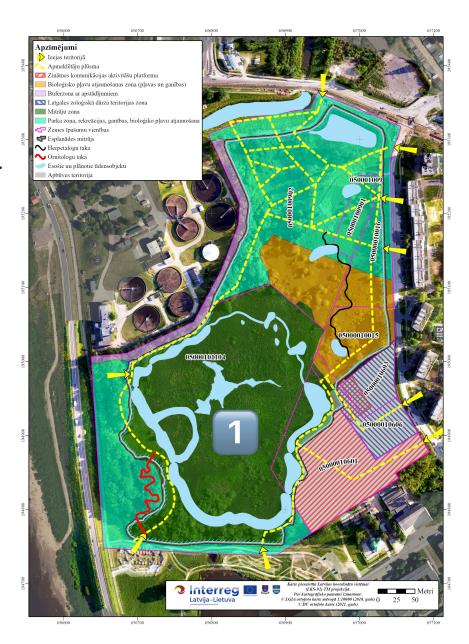
- ✓ Recommended functional areas in the Esplanāde wetland:
- 1. Wetland area;
- Biologically valuable grassland restoration area;
- 3. Nature recreation area;
- 4. Latgale Zoo area;
- 5. Area of scientific communication activities.
- 6. Wastewater treatment plant buffer zone





Wetland area

- ✓ The main function of this area is to ensure the preservation of the biodiversity characteristic for this territory. The most significant part of the planned nature value management measures is to be implemented in this territory.
- ✓ Only some fragments from the planned trail network are included in the periphery of this functional area.

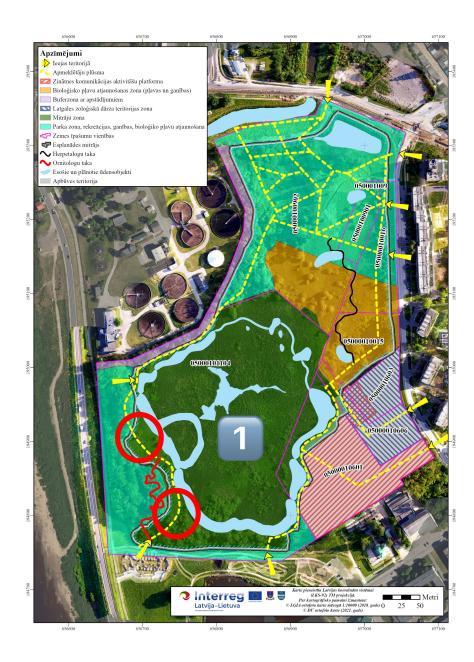


1 Wetland area

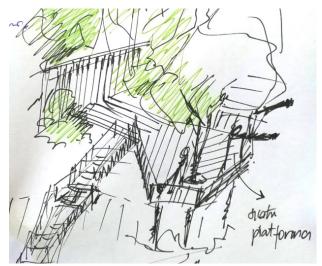








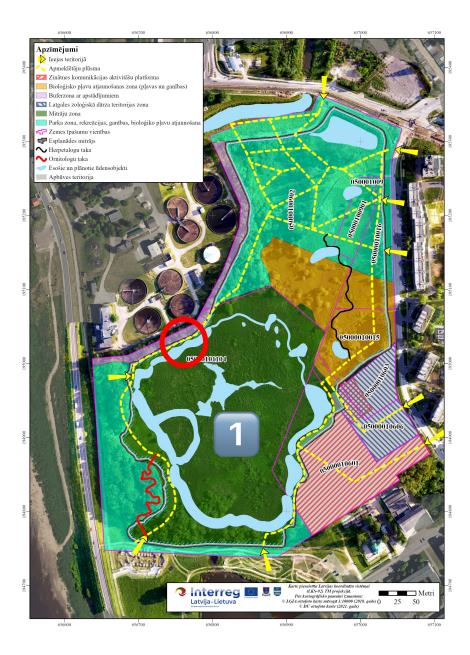
Wetland area













Biologically valuable grassland restoration area













Biologically valuable grassland restoration area









3

Nature recreation area

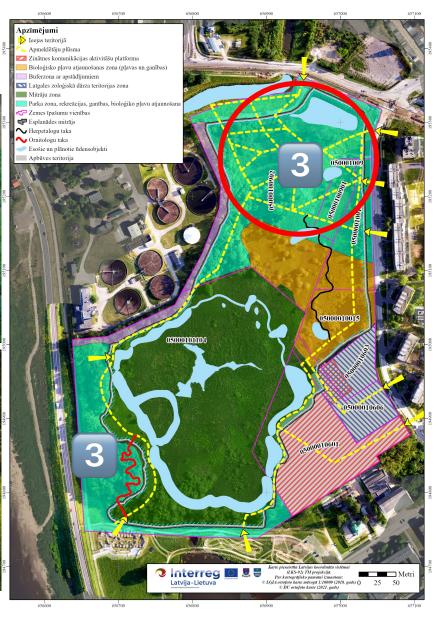












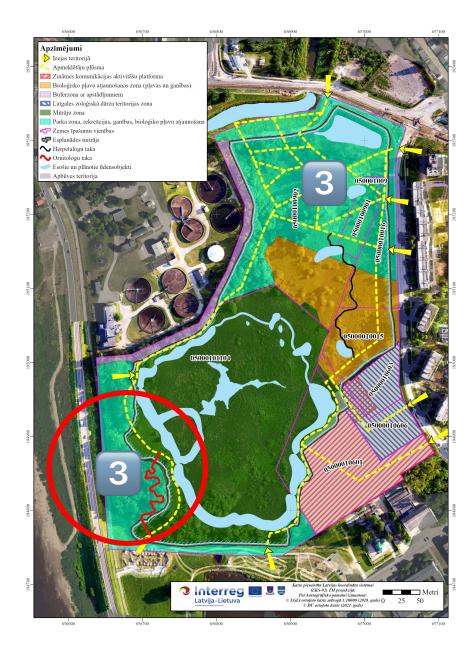
3

Nature recreation area





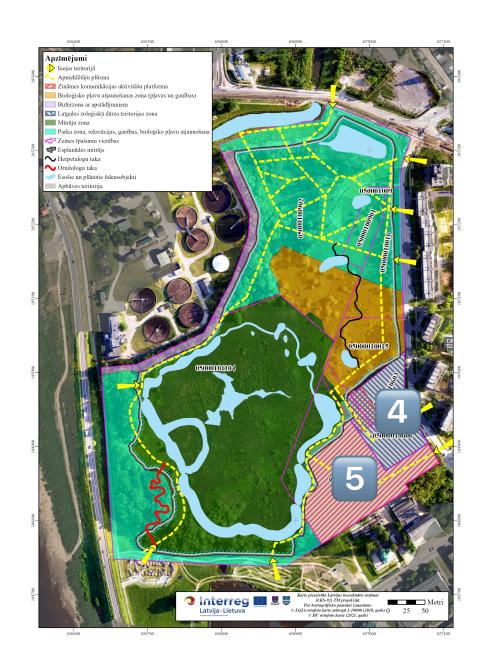






5 Area of scientific communication activities

- ✓ These areas are planned as the main construction territories. This territory is partly located in private property, therefore the redemption of this land unit is recommended for the full implementation of the developed concept.
- ✓ In case of land redemption, the Area of scientific communication activities should be developed as an environmental education place for the needs of Latgale Zoo as well as the Daugavpils Innovation Center





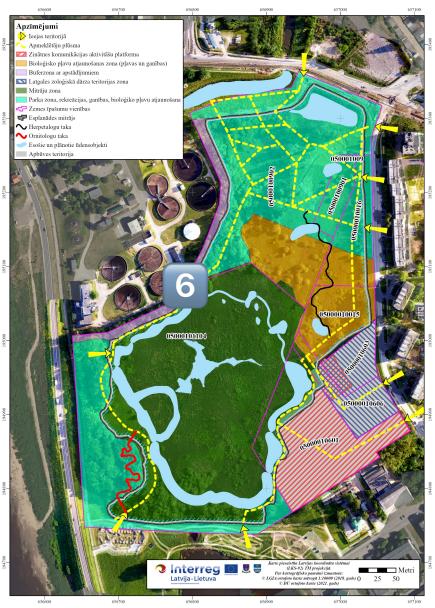
Wastewater treatment plant buffer zone











Experts involved in the development of recommendations:

- Dr. Uldis Valainis, nature conservation specialist
- **Dr. Juris Soms**, hydrology expert
- Dr. Mārtiņš Kalniņš, freshwater habitat expert
- Dr. Jānis Birzaks, fish species expert
- Dr. Maksims Balalaikins, invertebrate species expert
- Dr. Andris Čeirāns, amphibian and reptile species expert
- Dr. Kristīne Dreija, landscape specialist
- Msc. Gaidis Grandāns, bird species expert
- Msc. Karīna Dukule Jekušenoka, mammal species expert
- Msc. Dana Krasnopolyska, vascular plant species and grasslands expert
- Msc. Maris Nitcis, GIS specialist

