



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

Project Nr. LLI-472

Recommended actions for the conservation and promotion of biological diversity in the Esplanāde wetland ecosystem and adjacent areas

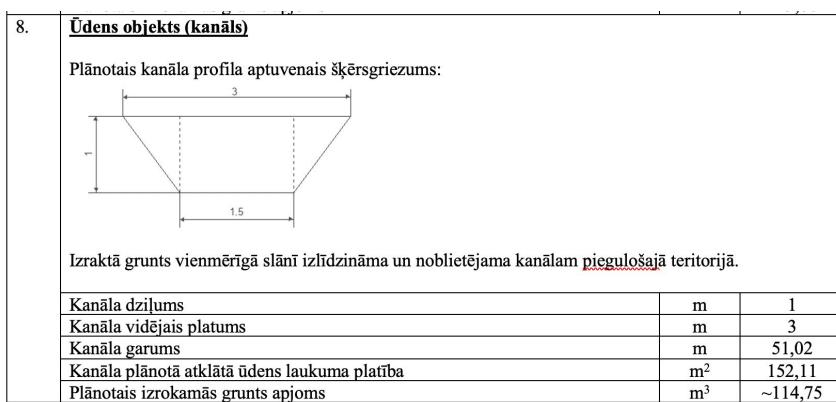
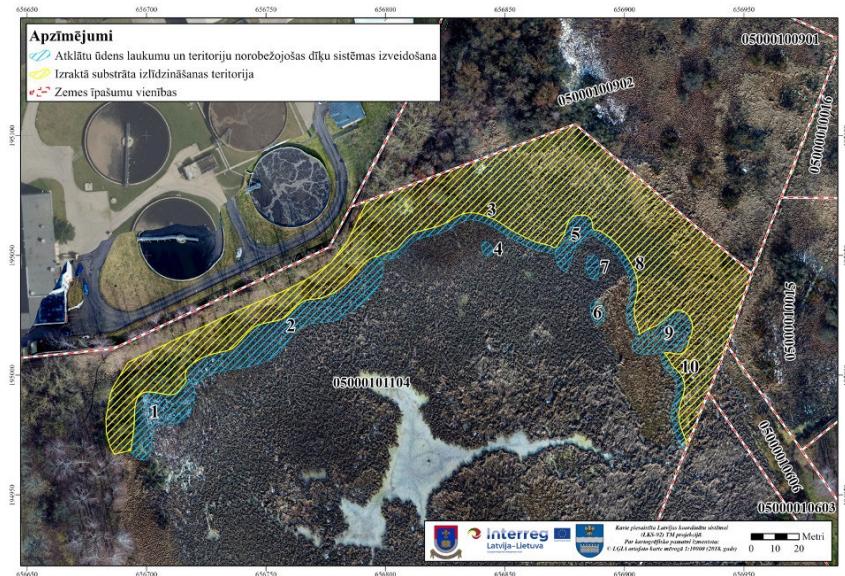
I. Monitoring of changes in the hydrological regime and preparation of a technical project for ensuring a constant hydrological regime in the territory of the Esplanāde wetland

- ✓ One of the possible solutions for ensuring a constant water level in the wetland and the planned pond system is the construction of dams on ditches in the northern part of the wetland.
- ✓ Before the development of the technical project, it is necessary to ensure the monitoring of seasonal changes in the hydrological regime of the territory.



Map of the drainage system in Esplanāde wetland area

II. Construction of a united circular system of ponds around the most vulnerable territory of Esplanāde wetland



Map of the planned circular system of ponds

III. Mowing of shoots of trees and bushes

The total area of the territory where mowing shoots of trees and bushes must be implemented is 0.51 ha. The mowing of the shoots is planned to be completed this autumn.



(Photo: U. Valainis)



Planned place of implementation of management action

IV. Cutting (thinning) of trees and bushes

Taking into account the isolation of the territory from other natural territories, the implementation of the specific management measure is planned in two rounds in order to reduce the impact on the animal species inhabiting the bushes. In the 1st round it is planned to implement works in the amount of 1.86 ha, but in the 2nd round - in the amount of 2,53 ha.



(Photo: U. Valainis)



Planned places of implementation of management action

V. Restoration of biologically valuable grasslands

The existing site of the Esplanade wetland, as well as the adjacent area, has grasslands that were once used for haymaking, so the grasslands have a high restoration potential. The total area where grassland restoration is planned is 5.8 ha.



(Photo: U. Valainis)



Planned places of implementation of management action

VI. Development of amphibian/reptile protection fence

In order to reduce the mortality of amphibians on the roads in the vicinity of the wetland, it is necessary to create protective fences in the areas defined on the map.



<https://www.contractecology.co.uk/reptile-fencing/>



Planned places of implementation of management action

VII. Creation of artificial island for birds nesting

In order to increase the diversity of nesting and migratory bird species in the area, it is recommended to create an artificial island suitable for nesting terns (common tern *Sterna hirundo*, little tern *Sternula albifrons*), and other birds species.



Little tern *Sternula albifrons*
<https://birdwatchireland.ie/birds/little-tern/>



Planned places of implementation of management action

VIII. Removal of the old metal fence from the territory or replacement with a new fence that fit into the surrounding landscape

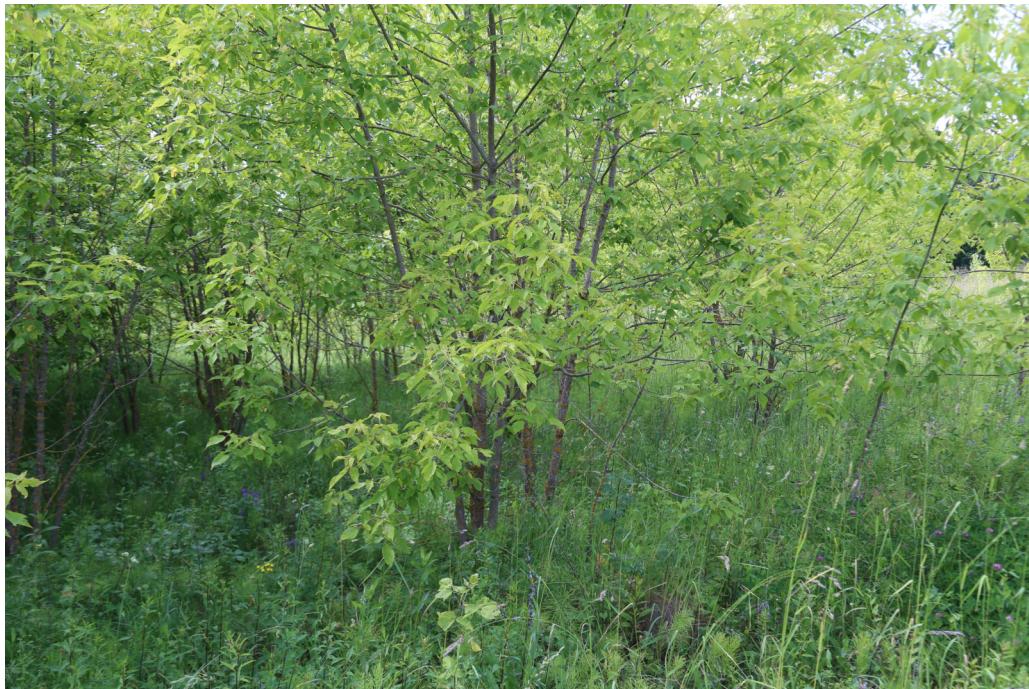


Photo: A. Erts



Planned places of implementation of management action

IX. Measures for limiting the spreading of invasive species

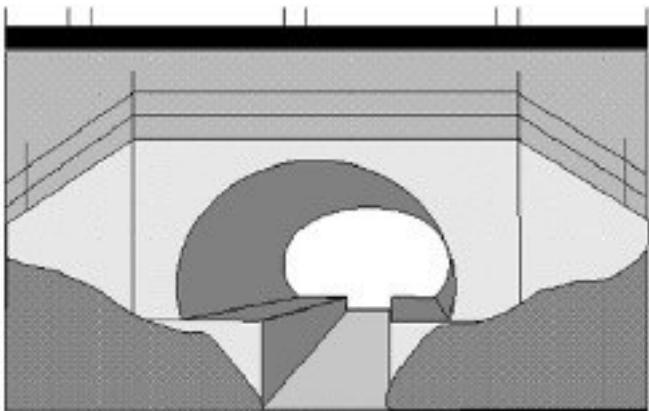


Ash-leaved maple *Acer negundo* (Photo: U. Valainis)



Himalayan balsam *Impatiens glandulifera*
in the Esplanāde wetland
(Photo: A. Erts)

X. Adaptation of bridges crossing Šuņupe to ensure the functions of ecological corridors



<https://cieem.net/wp-content/uploads/2019/07/ha8199.pdf>



Planned places of implementation of management action

X. Measures for the integration of treatment plant concrete fence into the landscape



Photo: U. Valainis



Planned places of implementation of management action



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

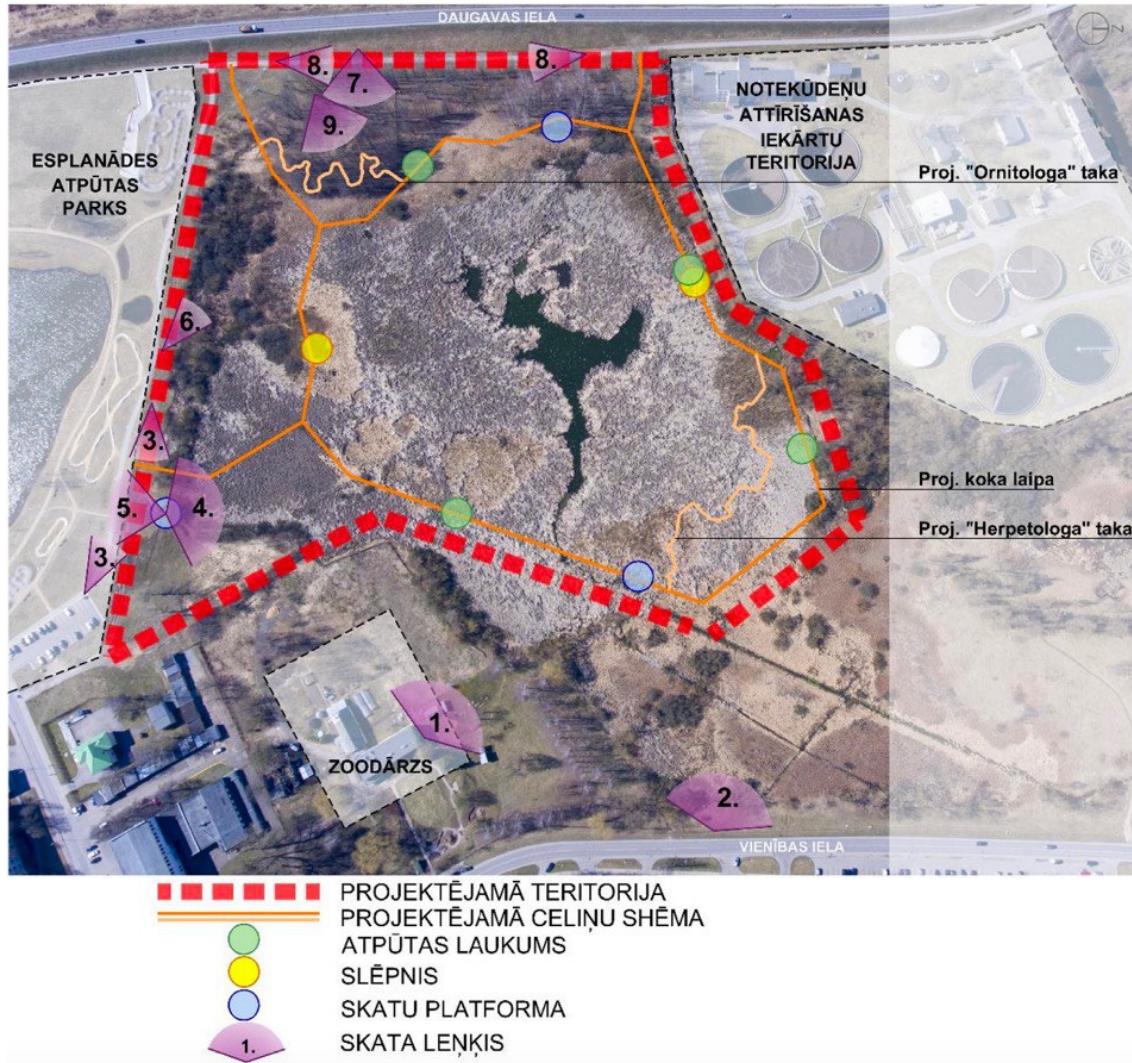
Project Nr. LLI-472

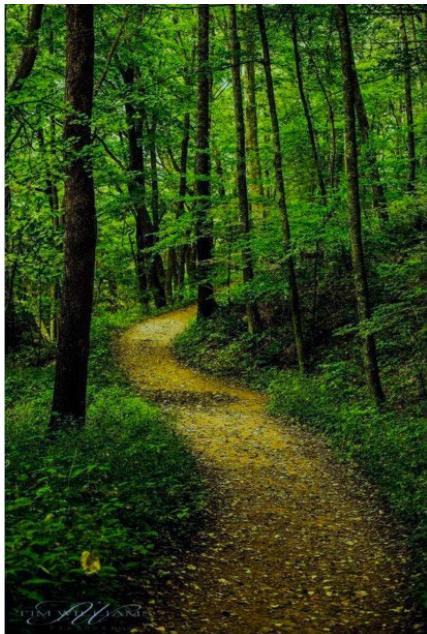
Planned infrastructure development projects in the territory of the Esplanade wetland

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



Esplanade tourism and nature research object “Biodiversity of Latgale bog”

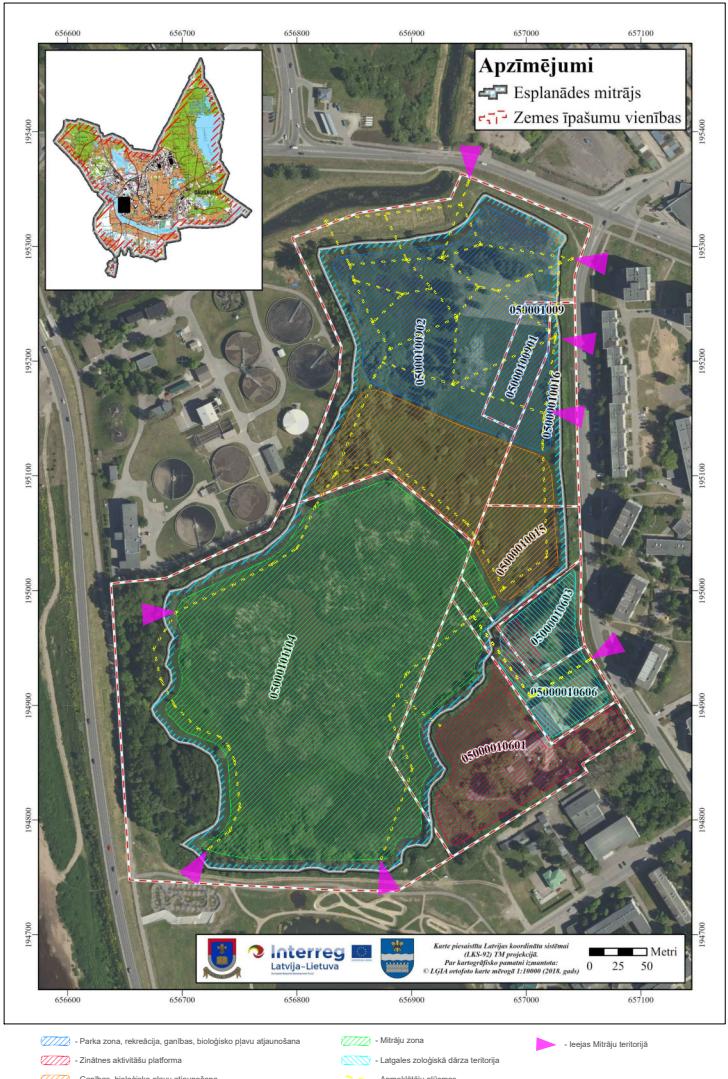




Joint Management of Urban Wetland Areas
in border region Latvia-Lithuania. (Urb-Area)

Project Nr. LLI-472

In general, the planned concept of territorial development is accepted by the experts involved in the project, however, in the implementation of projects, it will be necessary to observe special rules and restrictions in order to reduce the impact on the natural values found in the territory.



Thank You for attention!



Photo: A. Ertš