Preservation of historical evidence in parks as the structure and function of the park changes. Kemeri park reconstruction example in Latvia

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Interreg V-A Latvia – Lithuania Programme 2014-2020

Sustainable Integration of Novel Solutions into Cultural Heritage Sites

NovelForHeritage LLI-444

The development of **Ķemeri has been based on a unique value** of Latvia – **sulphur springs** and their use **in medical treatment**, as well as the natural environment and elements of Ķemeri.
In **1838** is officially recognized as a **resort**.
In **1895** the **park was started** in a place that was uncharted and swampy.
Around **1907** two park areas were established – forest park type territory and «**cultivated park**»
When the Ķemeri Hotel was built in **1936**, the park territory was **rescheduled**.
In **1960** the composition of the **parter was changed**.
After independence, the park developed **without** significant **intervention**.

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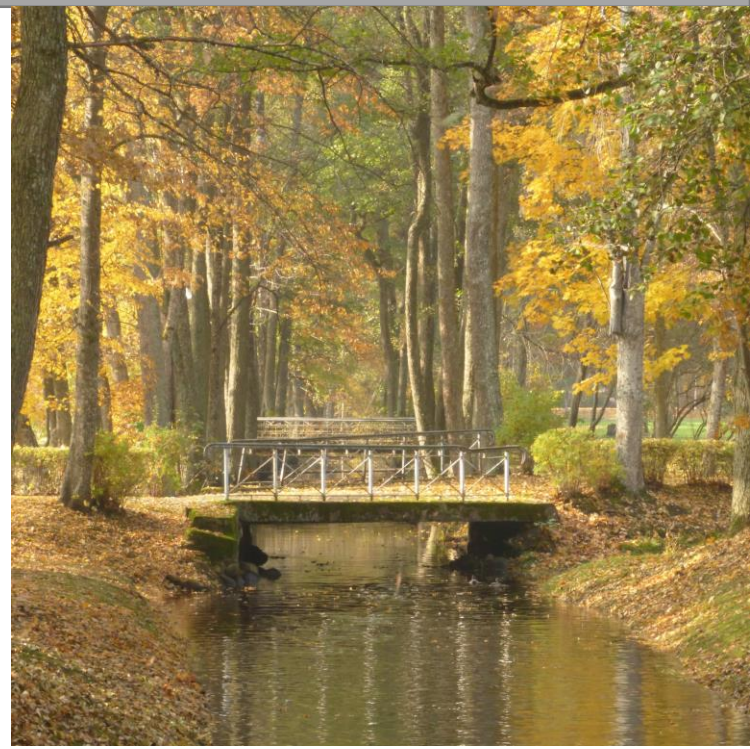
The territory is included in the territory of Nature and Greenery (DA5) and in the landscape **protection zone of Kemeri National Park**
National urban **construction monument "Ķemeri resort"** (protection No. 6085)
Architecture **monument of state importance "Ķemeri Park with Park Architecture"** (protection No. 5341)
Territory with architectural **monuments of national importance**: **Pavilion-rotunda** (No. 5342), Architecture monument of state importance No.5426 **Water tower**, Architecture monument of state importance No. 5347 **Monument to founders and directors of Ķemeri resort**, Architecture monument of local importance No.5346 **Bridges** with metal railings (10pcs), Architecture monument of local importance No.5345 **Bridge** with concrete railings, Architecture monument of local importance No.5344 **Bridge** with stone stone culvert, Architecture monument of local importance No.5343 Sulphur **spring pavilion**
Noble trees of national importance: the most peepy walrus with trunk circumference 4.22m, gray walnut with trunk circumference 4.52m, ordinary oak with trunk circumference 4.3m



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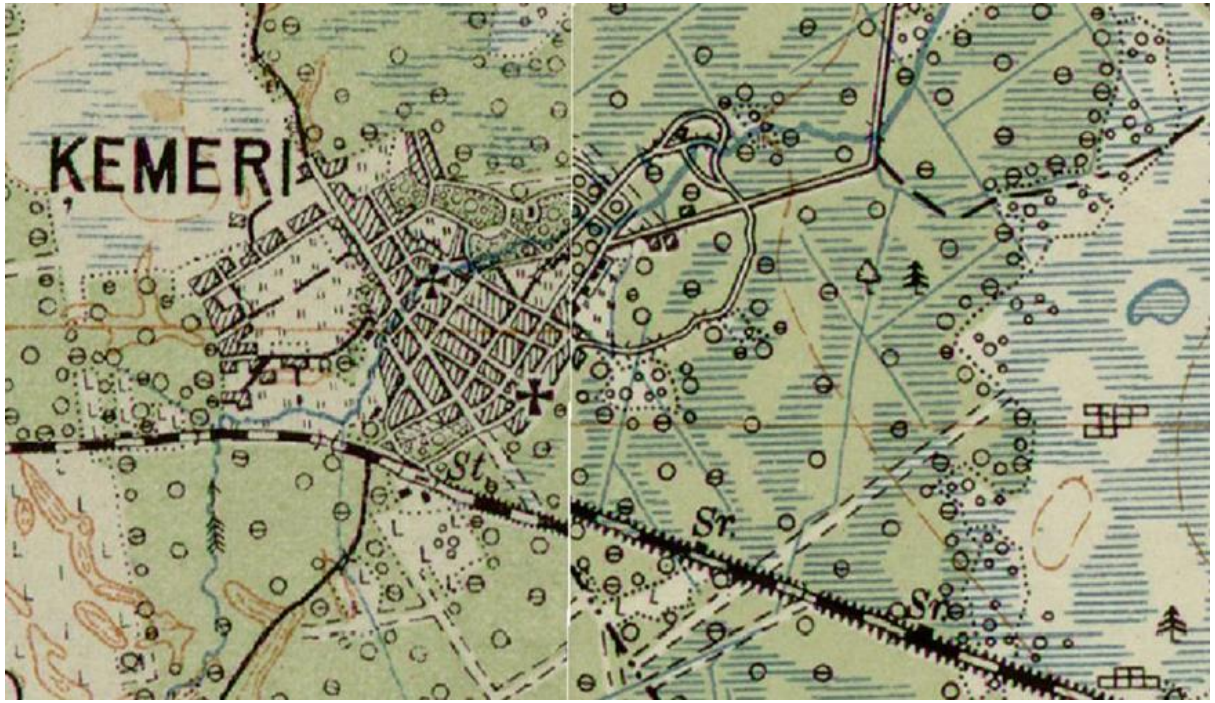
Current situation and problems - rainwater system in Ķemeri

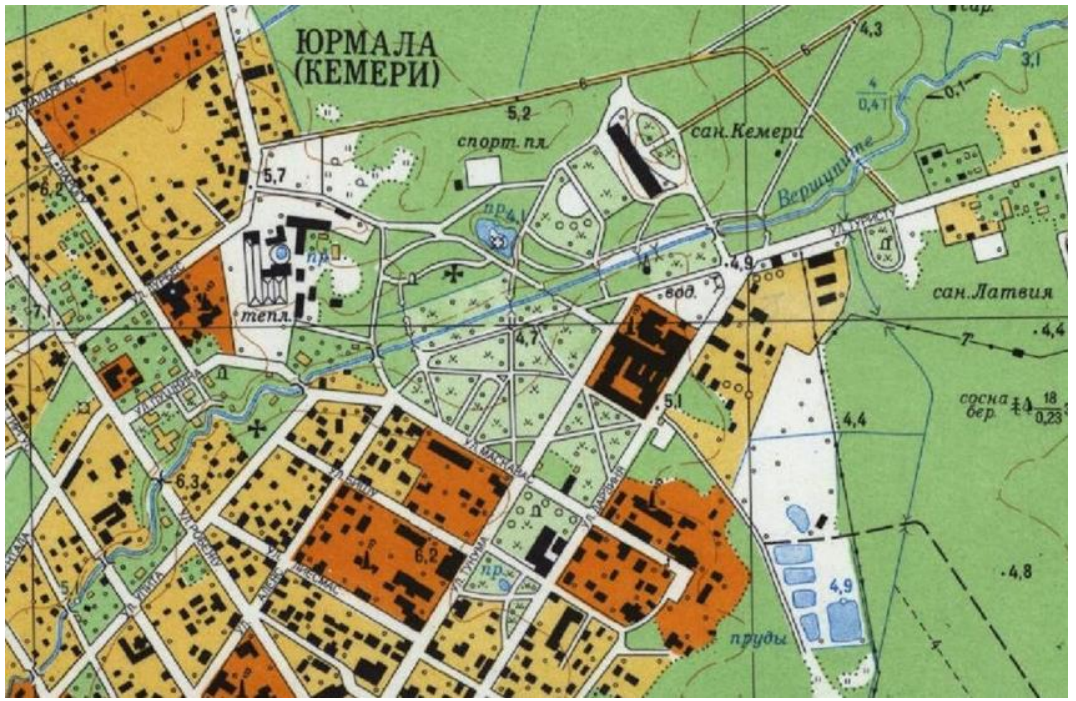
Location of object (BalticMaps S.A.)

Situation in Ķemeri Park territory at the end of November 2019 (author's photo)

Current situation and problems - rainwater system in Ķemeri

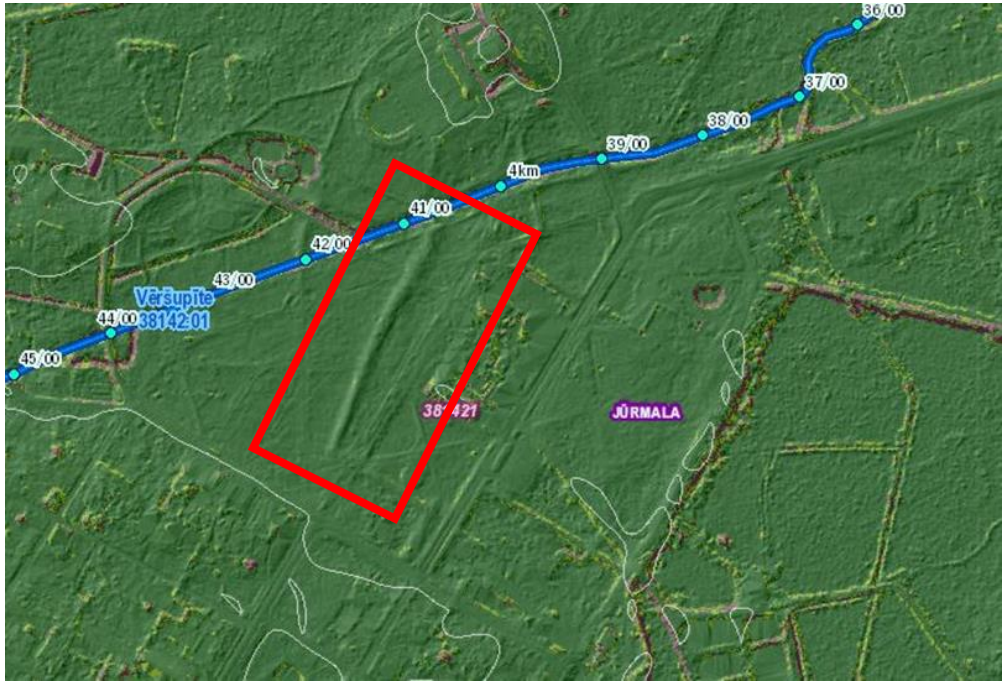


Ķemeri plan with visible drainage engraving network (Latvijas topogrāfiskā S.a.)



Map of Kemeri of the USSR (map of the USSR topo)

Current situation and problems - rainwater system in Ķemeri



Relief of the park territory – a collector is marked, which forms the hill and Vērupīte as the catchment area of the drainage networks (Land reclamation cadastre S.a.).

Rainwater collector site that hill running through the park lawn and higher than the existing lawn (Author's photo 2017)

Rainwater collector output at Vēršupīte (Author's photo 2017)

Conclusions on the current situation:

non-functioning drainage system, compacted and wet ground, high groundwater level, overgrown and clogged drainage ditches and culverts, reduction of bulging water capacity and clogging of the bed

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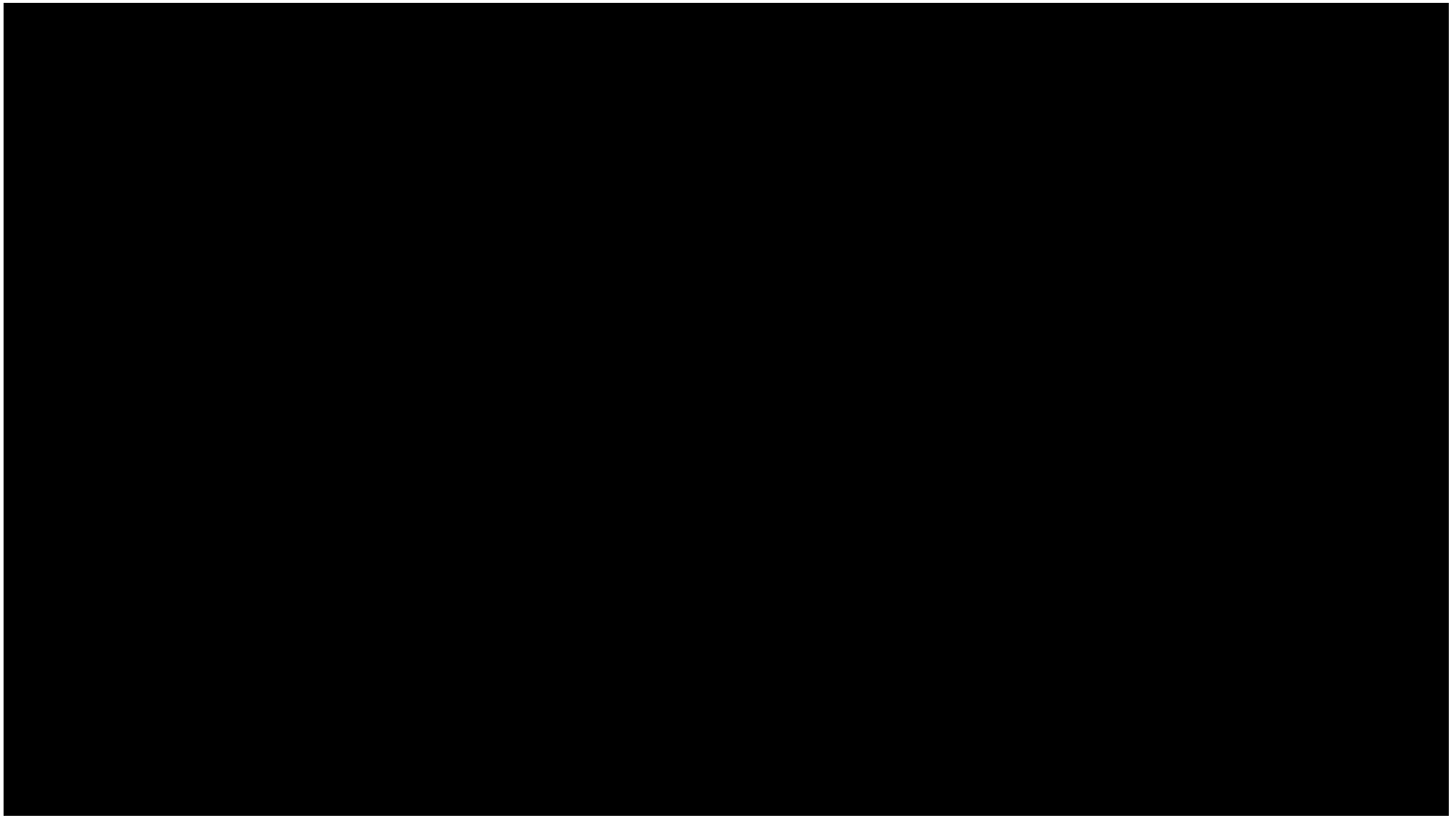

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Tender design and procurement preparation stage

- Design task
- Complete a command
- Meta offer - we created the park's compositional layout, which complies with the principles of creating scenic parks and retains most walking trails, abandoning out-of-date or expressionless routes.
- The **aim** of the project:
- To **preserve the cultural and scenic value of the park**, as well as the basic functions that provide recreational opportunities for all generations of the population.
- It is planned to preserve the composition of the historical layout of the park on the basis of the **concept of 1933-1936**, cultural and historical and scenic values, their connection with the hotel and adjacent territories, creating a functional, harmonious and architecturally expressive environment, healthy and comfortable conditions for the full recreation of visitors.

Start-up stage of the project - RESEARCH

- Topographical, geological and hydrogeological surveys
- Architectural artistic research for 16 park objects
- Cultural and historical park research and landscape analysis
- Technical survey opinions for all park objects, bridges, roads, as well as river and hydrostructures
- Tree assessment for 1016 trees and 92 tree groups
- Forest area and deforestation
- Research of park habitats and nature values
- Acquisition of various archives and historical materials
-

Technical regulations and design conditions of institutions

- 30 different institutions
- Design conditions imposed contrary to the conditions of other institutions and design task
- State Environmental Service and environmental impact assessment
- Tree felling and public consultation
- Additional studies requested:

- potential impact of park reconstruction on bats
- opinion on the potential impact of reconstruction on fish in Bulupe
- potential impact of park reconstruction on invertebrates

Project

Section of the territory and road part:

- Park layout and track network

Track coverings

Greenery planning

The small architectural forms and the arrangement of new elements

Park trees

Accessibility of the environment

- engineering communications under the streets

- condition of bridges

- geotechnical conditions

Architectural part, Building structures and bridge section:

- technical condition of park objects

- technical condition of bridges

- new park objects

- geotechnical conditions

- Park trees

Power supply solutions and low voltages:

Park luminaires

State of existing communications

The effect of lighting on bats

Modern technological requirements

Cable transfer solutions and coordination with private owners

Videonovērošana a Wifi

Water supply and sewerage

Rainwater drainage

State of existing utilities

Existing communications in the park that do not appear in the topography

Water supply to new elements

Geotechnical conditions

Designing a new watering system

- Drainage network and hydrostructures
- New drainage network
- Strengthening the banks of Sloupe
- Locks and fish path

Project

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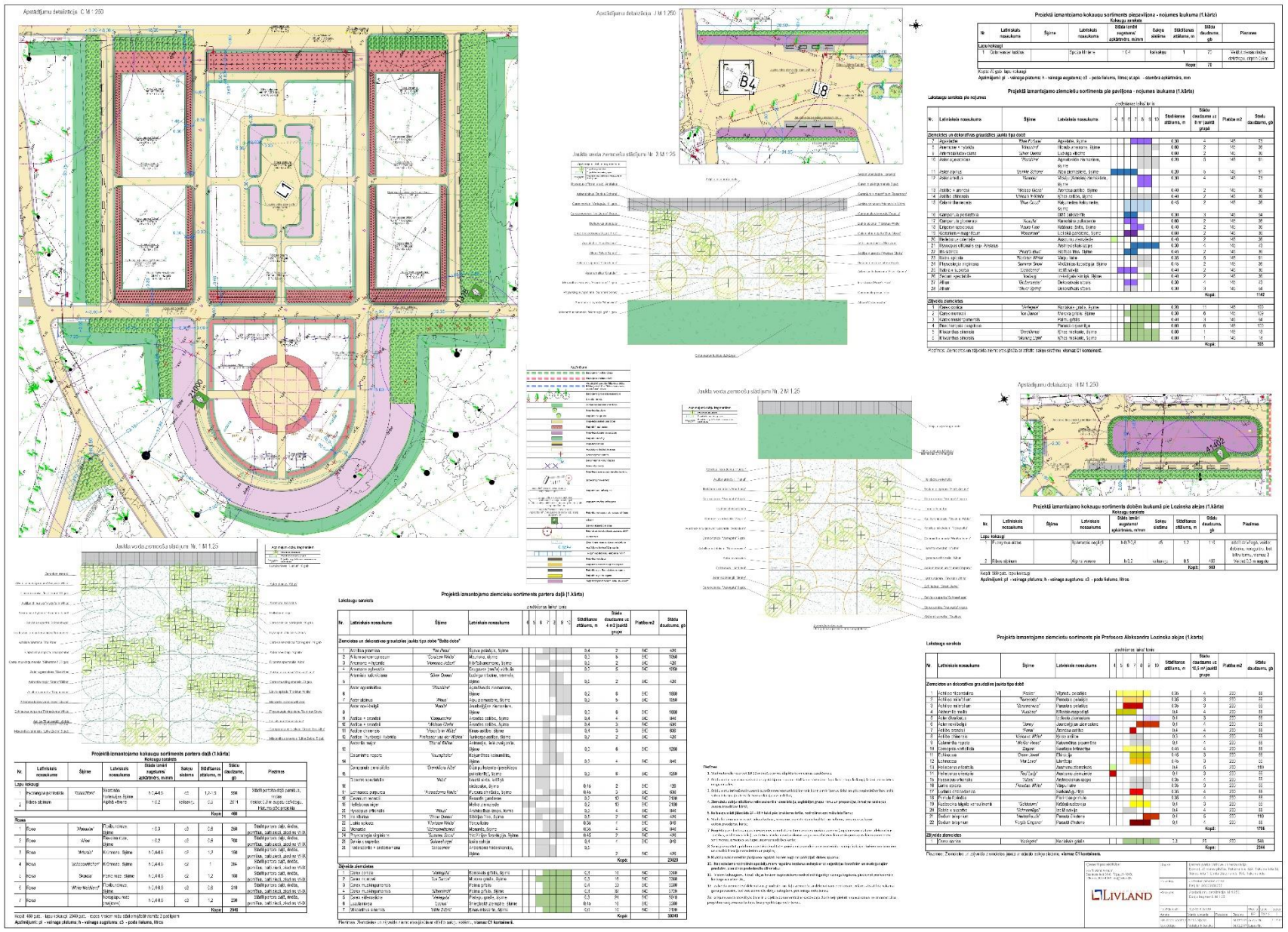
Project



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https://skaties.lv/zinas/latvija/sabiedriba/kemeros-turpinas-verienigi-atjaunosanas-darbi/

Result

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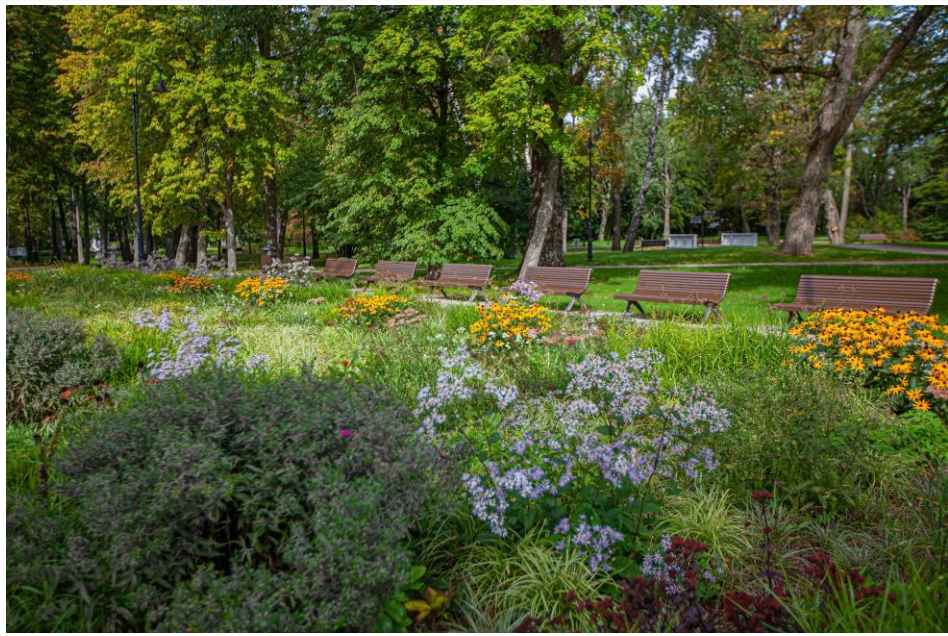
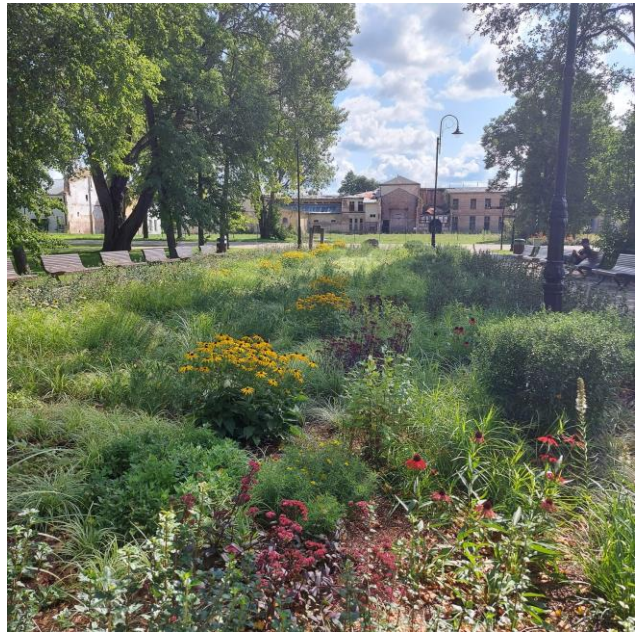
Result





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Thank you for attention!

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