

Liget Park Budapest. Analysis of the concept.

The liget is an urban public park for relaxation and entertainment. It contains museums that contribute to cultural knowledge, and provides leisure activities to citizens. Actually it also attracts every year a great number of tourists and visitors to the park by a large green built area and open air bath, Zoo and Circus as well. The Városliget Park is one of the most popular target for families with children in weekends.

Due to the need of the old institutions in the park of a refurbishment an international design competition was announced by the governmental sector in the year 2013; this included the building of four new institutions in the park:

- The House of Hungarian Music
- The New National Gallery
- The Museum of Ethnography
- City Park Theatre

The design competition also includes the renewal of the existing building of Hungarian Transport Museum and transport system of the park in general, increasing its new areas and making it more accessible for the citizens.

In the next images we can see the various interiors of the new building placed in the Liget Budapest, and the timeline that the project of the five new museum buildings will produce.



The New National Gallery



City Park Theatre



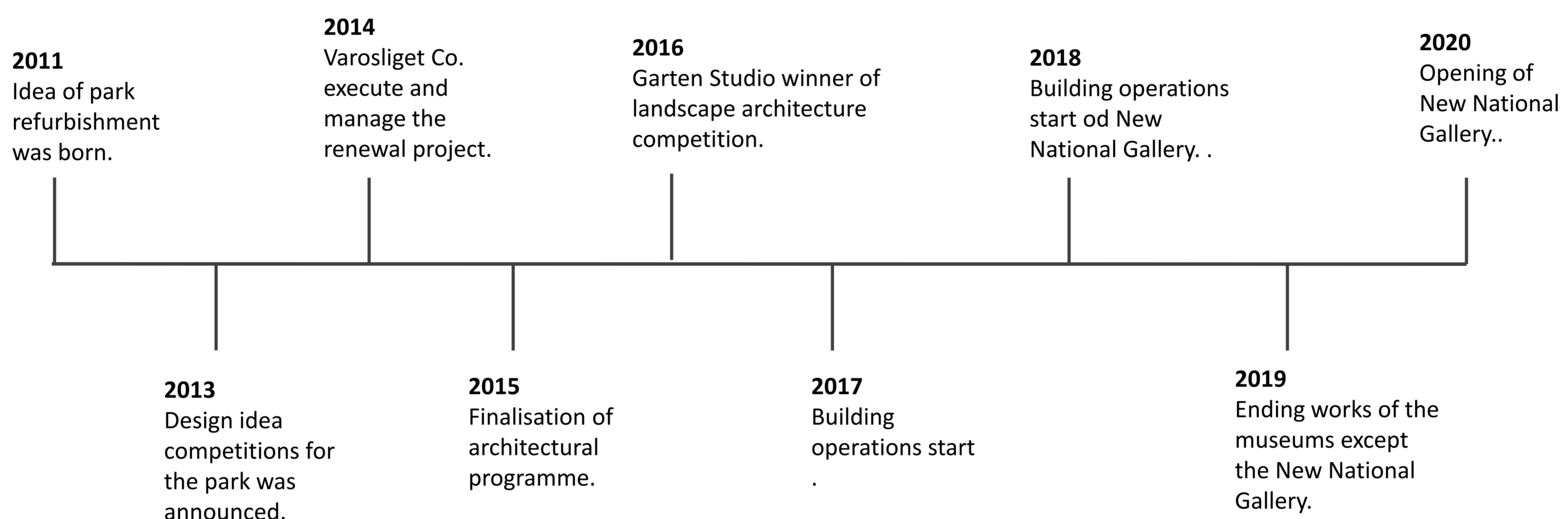
The House of Hungarian Music



Hungarian Transport Museum



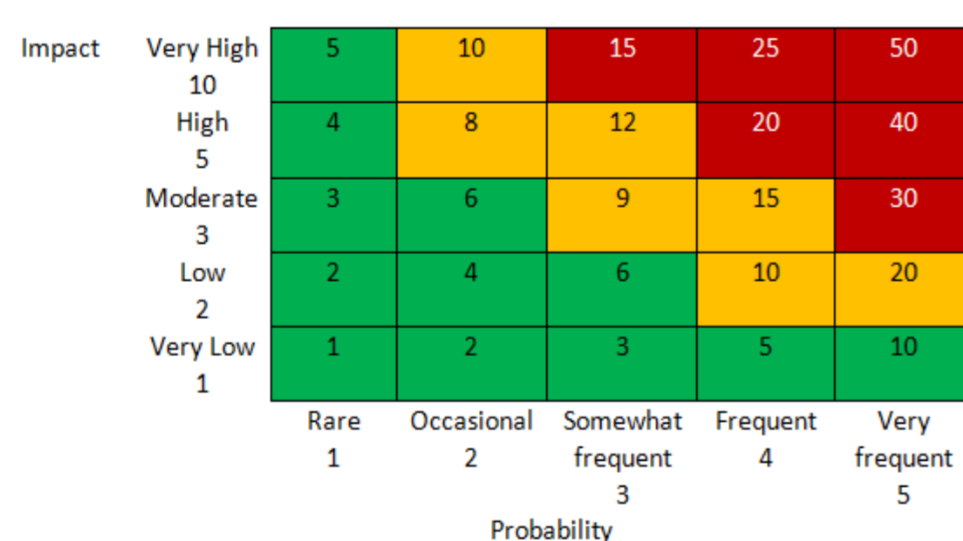
Museum of Ethnography



Timeline of Project Schedule

Risk Analysis

The total refurbishment of the city park is a big project of high cost this is why we should pay more attention to the risks that can occur in it. A deep analysis of the risks that could occur in this project has been done with the method of the risk matrix and the problems that can cause a higher negative impact have been studied and possible solutions for the mitigation of this impacts found. The next diagrams show in a schematic way this study.



Risk Matrix

Origin	Categories	Probability	Impact
Design risk	D1 Design errors and omissions	4	10
	D2 Design process takes longer than planned	3	5
	D3 Stakeholders request late changes	3	3
External Risks	EX1 Public objections	1	3
	EX2 Laws and local standards change	1	3
	EX3 Tax change	1	5
Environmental Risks	EN Environmental incomplete analysis	2	5
Organisational Risks	O1 Inexperienced staff	3	3
	O2 Absence of protection	2	5
Project management risks	PM Organisation errors or contractor delays	4	5
Right of way risks	R1 Construction permissions are temporary expired	1	5
	R2 Contradictions in construction documents	2	3
Construction Risks	C Higher construction cost than expected	4	5

Probability: 1(rare)-5(very frequent)
Impact: 1(very low)-10(very high)

Probability Table

Summary of Solutions

Contents	Explanation
Numeration	D1
Risk	Design errors and omissions
Consequences	Cost and quality
Probability	4
Categorisation	Project direction
Impact	10
Score	40
Strategy	Avoid
Action	Implement a BIM framework in the project. Introduce a design/build approach; this cooperative work includes builder and designer on the same team eliminating most of the design errors and omissions.
Responsible	Project direction

Contents	Explanation
Numeration	PM2
Risk	Organisation errors and contractor delays
Consequences	Cost and schedule
Probability	4
Categorisation	Internal organisation
Impact	5
Score	25
Strategy	Avoid
Action	Carry out a schedule from the beginning of the construction project, this schedule should be reviewed every month to identify potential delays; if they exist a timely corrective action should be initiated.
Responsible	Project coordinator

Contents	Explanation
Numeration	C1
Risk	Higher construction cost than expected.
Consequences	Cost and quality
Probability	4
Categorisation	Internal organisation
Impact	10
Score	40
Strategy	Avoid
Action	Save a percentage of the budget for possible problems in the project. Subcontract works to companies that you have been working before and trust.
Responsible	Project direction