



„Larvik Lines“

Following project is attempt to answer to questions provides by municipal of Larvik. In the begininig of the design process project team choose the most important questions:

1. How to conect city center with the seaside ?
2. Is there a space on the site for the new library?
3. How can we let the birds sing- How can we bring more nature to the city?

1. How to conect city center with the seaside ?

1. Designers decide that the most economic and eco-friendly sollution is implmentation on the site short aerial cable car line. They choose is it keeping in mind both the pros and cons of this solution.

Pros of the proposed solution are:

- Small economic cost compered to „bridge solution“,
- Small CO₂ footprint; again in comparison to bridge or tunel sollution,
- Small littering of existing landscape,
- Aerial cable car is not pernament sollution. Once the railway is moved to the tunel under the city center it can stop working. Station can be adapt for new functions or be demolished.
- It can move fast big number of people, also people with disability.

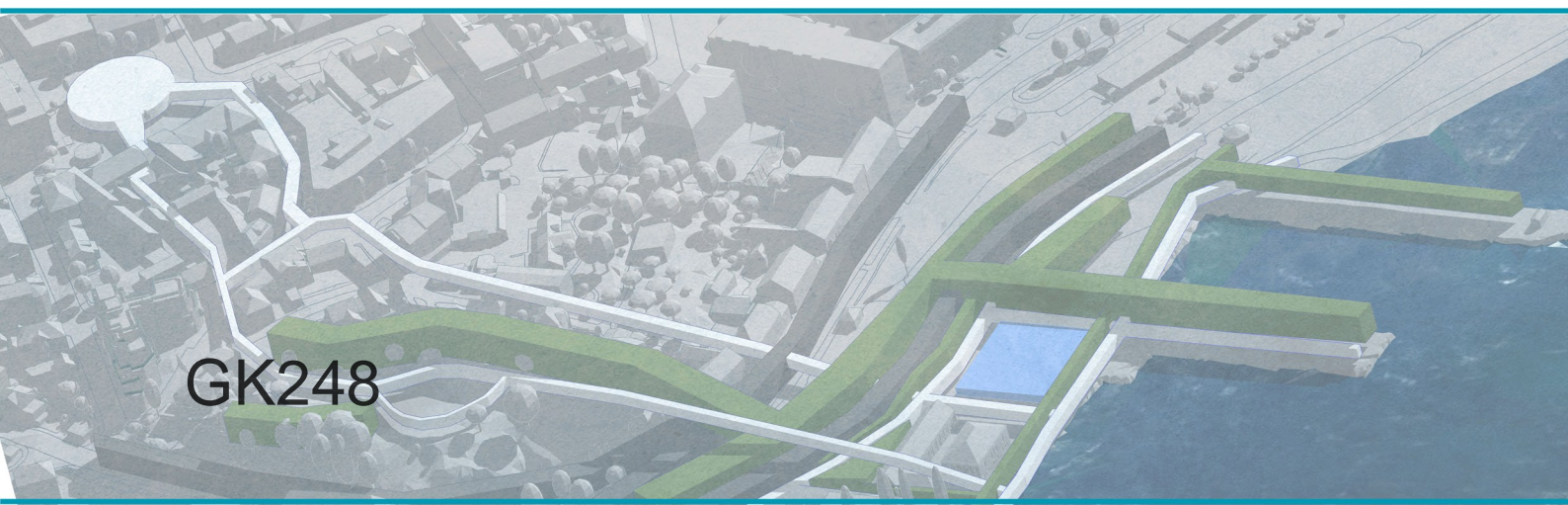
Cons of the aerial cable car are:

- There still need to be build stations whitch are big buildings with heavy machinery,
- They can't operate under heavy wind. Depending on model - cable car can't operate when crosswind exceed 65 km/h,
- Aerial cable car need energy for running,
- It generates sounds (although low).

Despite cons and thanks to pros aerial cable car was chosen to bring the city center closer to the sea.

Design team has found many existing, similar in size lines around the world.

Aerial cable cars are tested solutions and are designed for overcoming terrain obstacles.





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2. Is there a space on the site for the new library?

2. At first, during design process we were trying to put new library on Bokerflejet cliff. It wasn't choose because it would basically occupy most of the hill and close the view on the sea. Project team didn't also want to go underground with building of this size. Cliff- according to the first principle of the design - was occupied by upper station of aerial cablecar. It is formed by circle plan block. Building was partially hidden under the ground to avoid blocking of the view. Its lower floor is station for aerial cable cars. Building contain also engine room and garage for gondola's. User can find here also ticket office and toilets.

On the wharf there was already existing valuable architecture- which according to brief will have no usability for the town in close future. We have already put in place functional blocks of the future lower and upper station. Lower station with its mass have become canvas for historical buildings. We choose to complete existing buildings by adding one block for each of existing building. Each of this block is similar in size to its neighbor. Long rectangular block have together with similar existing building closed composition and create yard. Square block is connecting new wing with two historical building.

The arch vault shape is a result of looking for optimal geometry for lower station. Rectangular block was too massive. Triangular roof on the other hand impose bigger height. Half circle shape was optimal. For further connection arch vault was chosen for the other two long rectangular block- including one of the existing building. Thanks to that existing and new architecture create coherent space. They altogether enough space for new library with differential program.

Existing- two floor building was chosen for lecture spaces and administration of library, old long building will have technical spaces, maintenance spaces and warehouses. New wing will contain classical library spaces with books and desks with working stations. All of these blocks are connected by entrance space.





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3. How can we let the birds sing- How can we bring nature to the city?

3. Existing site consist two parts separate by railway. Part on the cliff is full of plants, trees and rock- its very natural place. Part next to the sea is infested with concrete. As a designers we decide we shouldn't destroy natural beauty of the hill part, and bring its beauty to the sea.

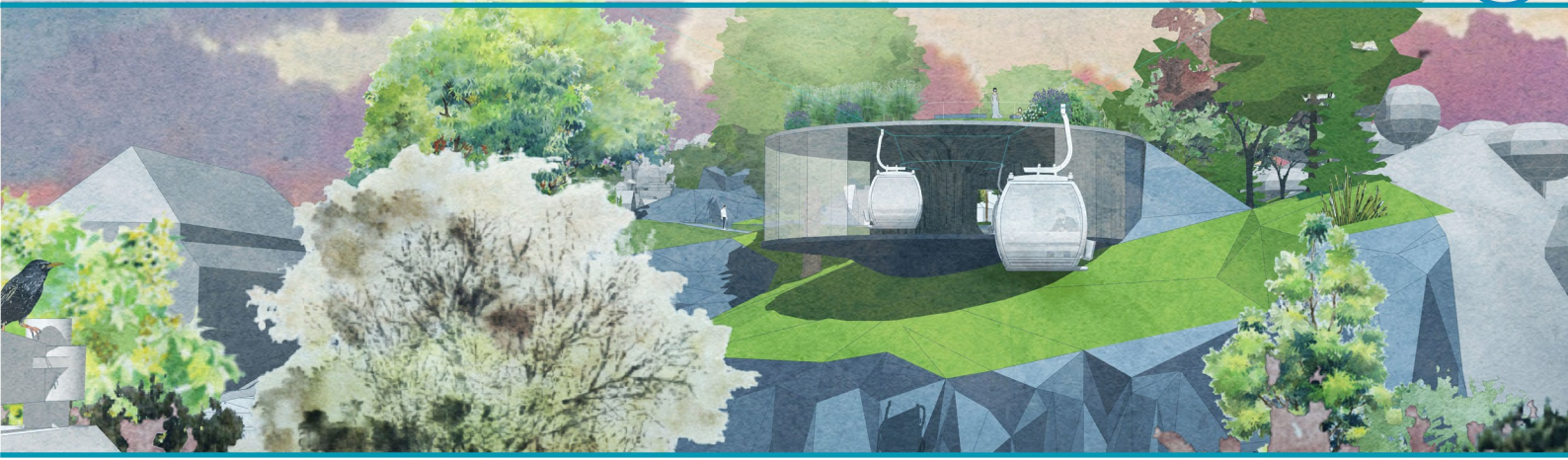
We're looked how much space is needed for cars and try to minimize that space without completely losing its basic functionality. To do that we draw road that connect border of the project site. Roadshape is based on arch, and it is formed from cobblestone to slow down cars. Parking places next to road are design from lawn grid for extension of biologically active area and for better water absorption.

With space released from concrete our next move was to bring back old harbour - in form of a swimming pool open for people and animals. After placing main pedestrian and bicycle routes we have forested rest of the terrain. We decided that it also should be a case with the old pier. During examination of the pier we realize it isn't permanent structure and proposed plantings of the trees maybe isn't the most economical proposition. Even without trees this place should be as green as it is possible. At the moment on the old pier there is restaurant. Studying gives us information it was very popular and needed place in Larvik. This is why we choose to design there new place with food.

Space between railway and historical buildings are in risk of flooding. It is advised to create here trenches filled with water gardens. Gardens with chosen plants whose like being flooded and absorb water.

On the Bøkkerfjellet cliff we have tried to don't do too much harm to the nature. With the given task it unavoidable, so we have to carefully choose placement of the upper station.





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4. Process of implementation

4. Order of implementation should take into consideration economical cost, interference with nature and possible benefit for the city and its human and non-human inhabitant.

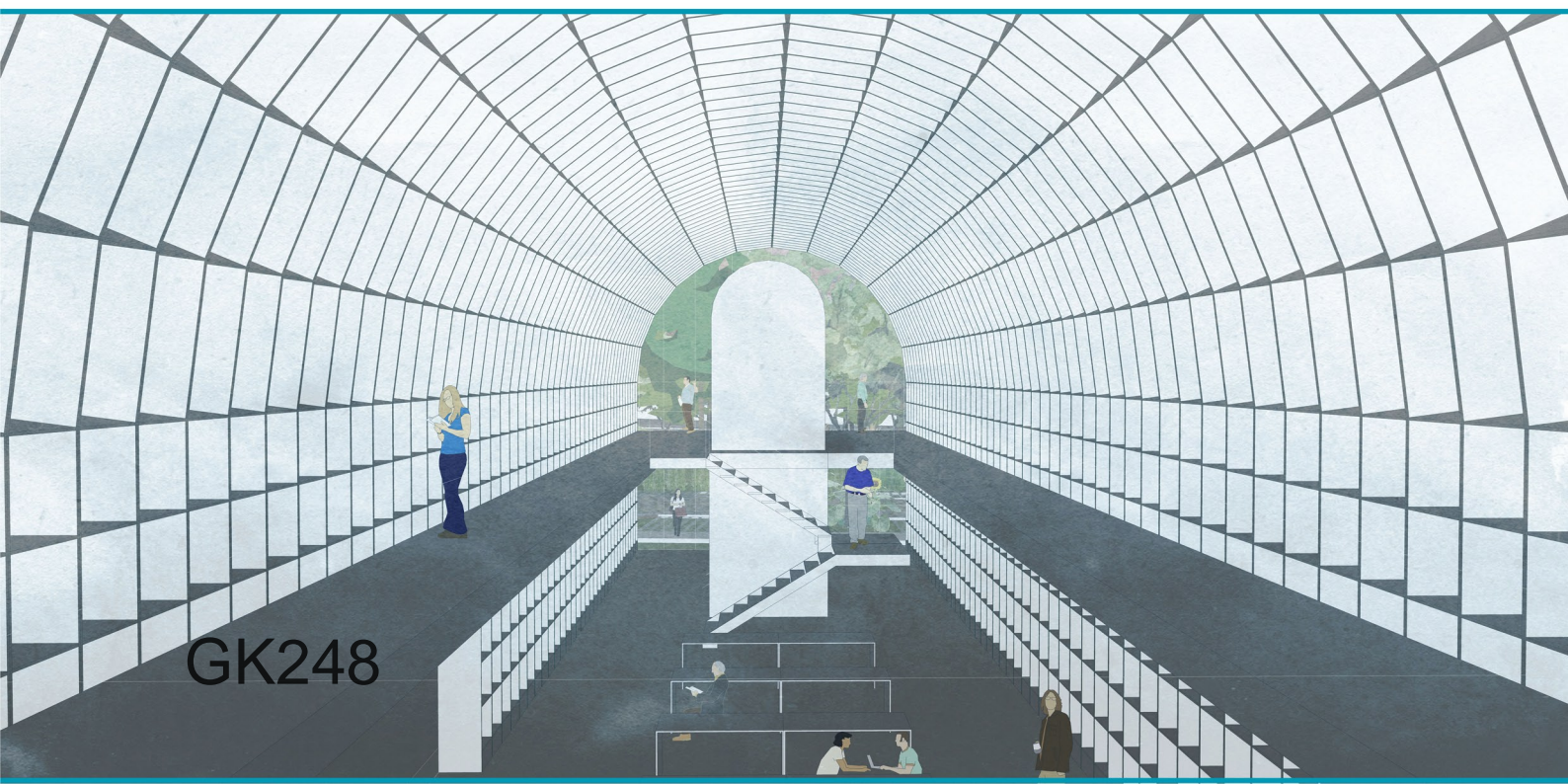
1. First step is to recover old harbour. The concrete parking is already in bad condition. Removing it seem to be the most logical action to take first. Turning it into swimming pool or temporary ice skating place is in fact only addition to open space witch it will give.

2. With open harbour next move is to plant the plants on the old pierce and prepare trenches with water garden. Simultaneously road nad parking places should be build.

3. With the place where people can spend time prepared it is possible to start aerial line transport.

4. Last object to prepare is library. Object would lack users without possiblle easy transport from city center. It is possible to build in stages- starting with restoration of the historiccally building, adding entrance and than ne wing.

Once the railway is moved under the city center, existing of aerial cable cars should be rethought. Definitely free space should be use for pedestrian and bicycle transport. It would be also great place for nature coridor- bringing more trees closer to city center.



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