A TIMELINE TO RECOVERY
Pattern of conflict between Swedes and Russians would repeat time and time again over the six centuries, with Finland almost invariably caught in the middle.

Despite the power of the Russian Empire, and the complex evolution of political and social dynamics over many centuries, Finland has demonstrated a remarkable ability to deal with its influential neighbor on its own terms and without sacrificing its core interests.

One of the strengths of the Finnish political system appears to be its inherent ability to solve problems through consensus.

Through a tight geopolitical lens, Finland may be viewed as a landmass historially separated between empires, but culturally and historically the country has for centuries been influenced by political, social, and cultural innovations drawn from varying domestic and European sources. The exploratory spirit of modernism—the desire to exist with and pursue the cutting edge of development and innovation in a variety of fields—has over the past century and a half been Finland's driving force.

Perhaps life in the periphery, in a gray zone of national security, actually propels innovation, problem solving and openness to ideas, enabling a nation such as Finland to successfully cultivate its culture, economy, and civil society even in circumstances that have occasionally been adverse.

CONCEPT EVOLUTION
The Museum Building has been inspired from the history of Finland and Petals of Lotus. Both bear a resemblance in terms of its growth pattern. Finland has experienced a series of conquests from neighboring territories. However it has successfully emerged from these adverse conditions. Likewise Lotus grow in shallow and murky waters. It blossoms gradually and magnificently – one petal at a time and reaches full bloom when the rays of the sun kiss the flower.

The Museum building concept has been evolved from lotus petals which envelopes the structure and also flows in the surrounding landscapes. The site being on the banks of water further elevates the structure petals.

COLOUR PALETTE
The Colours Palette above demonstrates the gradual flow of colours through the structure with each colour signifying its importance.

Shades of Grey - This has been majorly used in the base for site development and flows through the floor of the structure. The base has been grey reflecting Finland's antagonist history of wars.

Shades of Pink - This forms the Glazing of the structure providing transparency and energy efficiency changing colour as per the movement of the Sun.

White - The Walls which extensively defines the structure. Colour of Peace sending a message around the globe and rise of the nation, “Finland”, through its timeline.
A Multipurpose Performance / Conference Hall has been proposed on the top two floors of the building. This has been uniquely designed for multiple uses, viz. Theatre Performances, Conferences, Special Screenings, etc.

The floor has been divided into multiple parts which can be raised and lowered through synchronised hydraulic jacks thus offering multi-level seating in case of theatre performances or flat single floor-level gatherings. Specially designed stackable chairs are proposed for flexibility and comfort.

A service floor below the entire main floor has been provided to accommodate the mechanics. As well a service vestibule all round the walls for guides to control each floor part.

The Shape and Pattern of Floor changes as one move upwards from Ground. Each Level decreases in harmony visually connecting the visitor / spectator. A central 4 storey Atrium makes space for Multi-Purpose activities.
The above set of diagrams is a simulation of movement of sun over facade glazing. The simulation has been worked out by setting the structure in Helsinki on a typical 15th day of June. The white part in the above diagrams is where the maximum sun shines while the darkest part are represented by pink colour.

Three Layered responsive Facade
Top Layer - Photochromic Glass (reddish Pink Colour)
Middle Layer - Photovoltaic Glass
Bottom Layer - Hexagonal Metal Kinetic Solar Collectors

The responsive facade is designed to utilise sun’s dual energy - light and heat to generate electricity and space heating.

**TOP LAYER**
Photochromic Glass changes color when exposed to light, Photochromic materials absorb radiant energy which causes a reversible change of a single chemical species between two different energy states, both of which have different absorption spectra. Photochromic materials absorb electromagnetic energy in the ultraviolet region to produce an intrinsic property change. Depending on the incident energy, the material switches between the reflectively and absorptively selective parts of the visible spectrum. Use of reddish pink colour tinted glass is specific to lotus pink petals thus magnifying the entire structure into large lotus petals.

**BOTTOM LAYER**
The inner most layer Solar collectors trap the sun’s rays to produce heat. The basic parts are: (1) clear covers that let in solar energy; (2) dark surfaces inside, called absorber plates, that soak up heat; (3) insulation materials to prevent heat from escaping; and (4) vents or pipes that carry the heated air or liquid from inside the collector to where it can be used. The kinetic facade responds to movement of sun which is again specific to lotus flower. the petals of lotus flower open up during day time with the receipt of sun rays and close with the dusk.

The external glass shades from dark pink to light pink with the exposure level of sun and the inner most layer cells are opened towards least sunrays which supplies dynamic light to interiors.

**Figure A**
All cells are closed during exposure to sunrays and collect maximum heat for heating the building interiors later during winters.

**Figure B**
Cells start partially opening where exposure to sun is minimum.