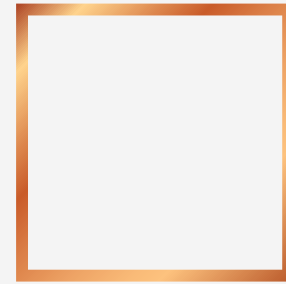
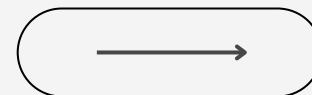


June 2023

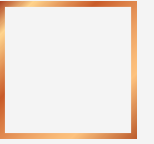


# BRONZE MINIATURES

## PROJECT

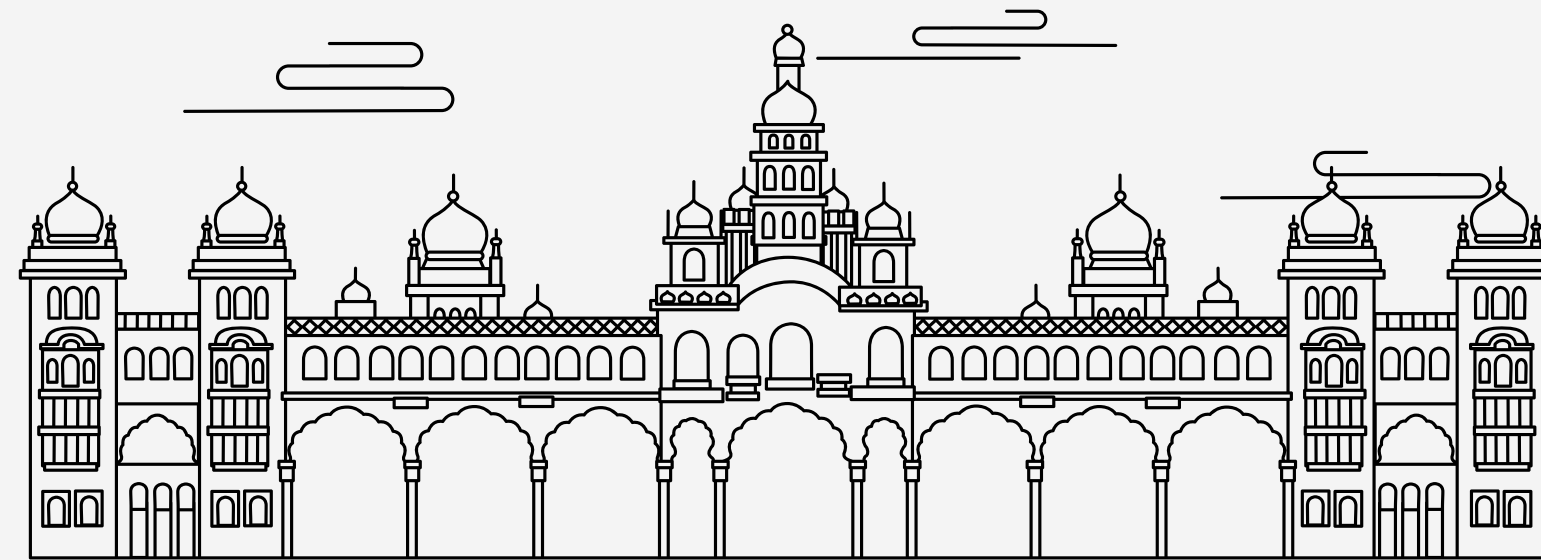


# Hello!



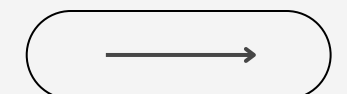
Here is a presentation for the manufacturing and installation of miniature copies of the best sights of the city of Helsinki and Finland, architectural monuments and popular objects.

This project has huge potential and is intended to be not only an attractive tourist attraction, but also an inclusive project that allows blind people to experience the grandeur and beauty of Helsinki.

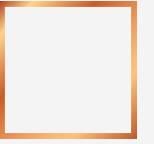


The miniatures made from polymer bronze, consisting of 95% bronze powder and 5% special polymers, which ensure its strength and high detail.

The optimal combination of bronze powder and polymers provides not only excellent appearance and precision of parts, but also significantly reduces the cost of production compared to similar cast bronze products.



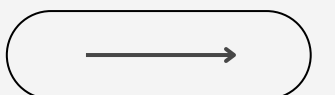
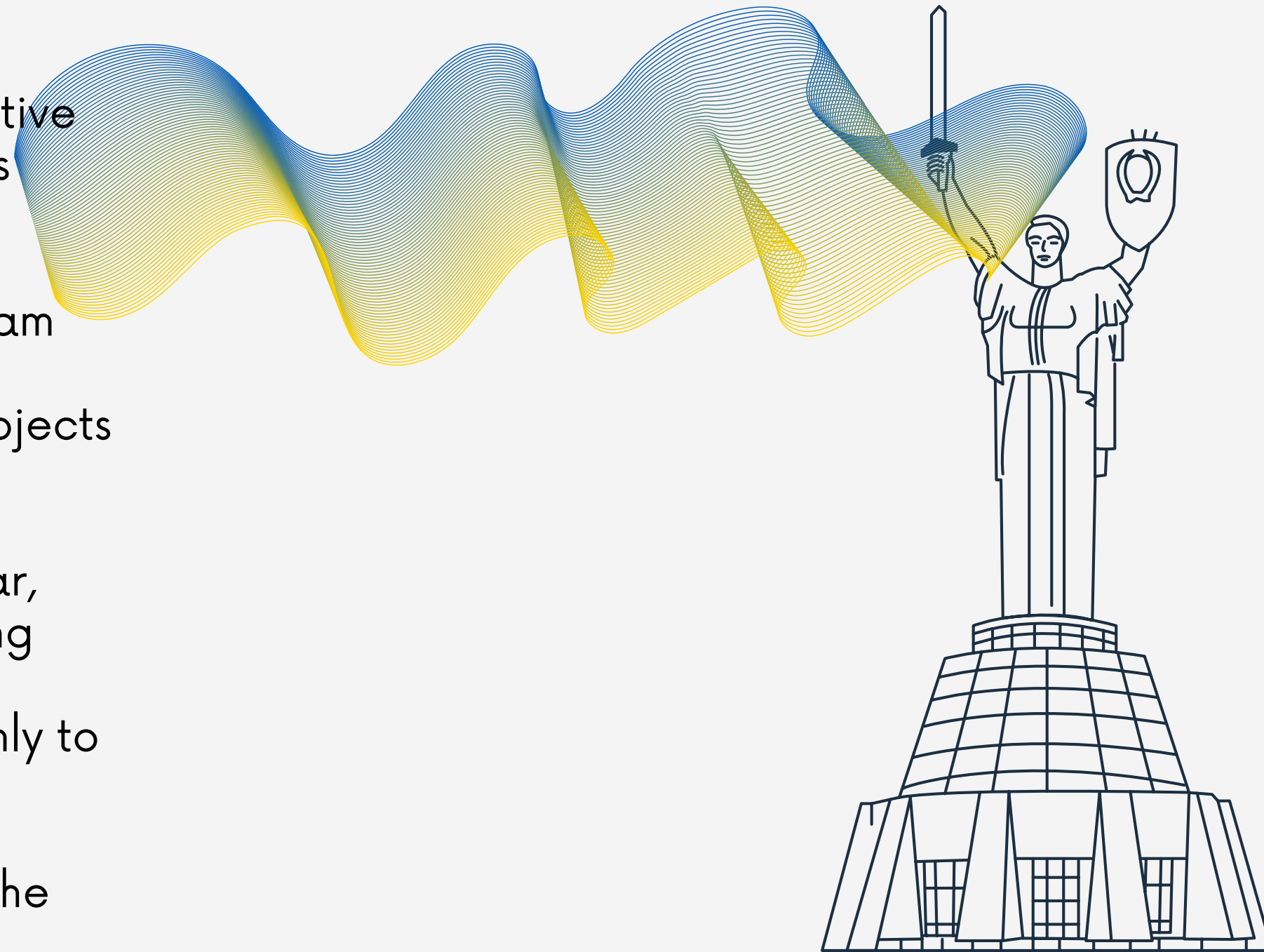
# ABOUT



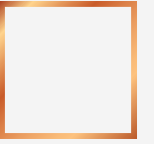
It is important to note that the initiative for this project comes from refugees from Ukraine.

In Ukraine, I was part of the best team that created similar miniatures and successfully installed more than 7 objects throughout the country.

However, due to the outbreak of war, the project was suspended. We bring our experience, creativity and enthusiasm to Finland, aiming not only to recreate the beauty of the city in miniature, but also to bring social benefits to the blind and stimulate the tourism industry.



# KEY BENEFITS

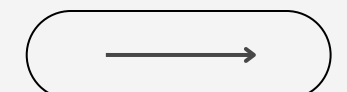


## Economic feasibility

The use of polymer bronze will significantly reduce the cost of miniature production, making them affordable for a wide range of consumers. This is important as the project aims to capture the attention of both locals and tourists by offering them the opportunity to experience Helsinki's rich cultural and architectural history.

## High level of details

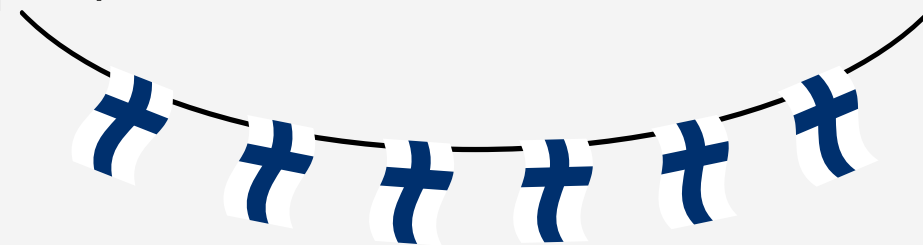
High level of detail: Thanks to the innovative technology used in the creation of polymer bronze miniatures, we will be able to achieve the highest level of detail. This will accurately convey the architectural features of each monument and reliably recreate them in miniature.



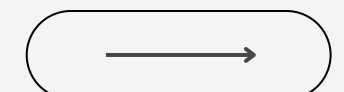
# IDEOLOGY



However, our project not only has a high artistic quality and affordable price, but also has a deep social meaning. We aim to create an environment where visually impaired people can enjoy Helsinki's beautiful classical and modern architecture through a tactile experience. The idea is to create special places where these miniatures can be felt and explored. Blind people will be able to touch every detail and experience the unique architectural beauty of the city. Our layouts have a very high level of detail and level of relief. Also, on each layout, information will be duplicated in Braille for blind people, which will allow them to get acquainted with the history of each object.

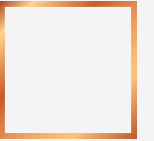


In addition, this project will become a new tourist attraction in Helsinki, each such object attracts the attention of people, and we also plan to use modern technologies to increase the experience and knowledge of the city's visitors and its residents about each architectural object. Each miniature will be equipped with a QR code system that visitors can scan with their smartphones. QR codes will provide detailed information about each object in text or audio format in different languages. This will allow people to get a complete picture of each attraction and create new travel itineraries enriched with information and interaction.



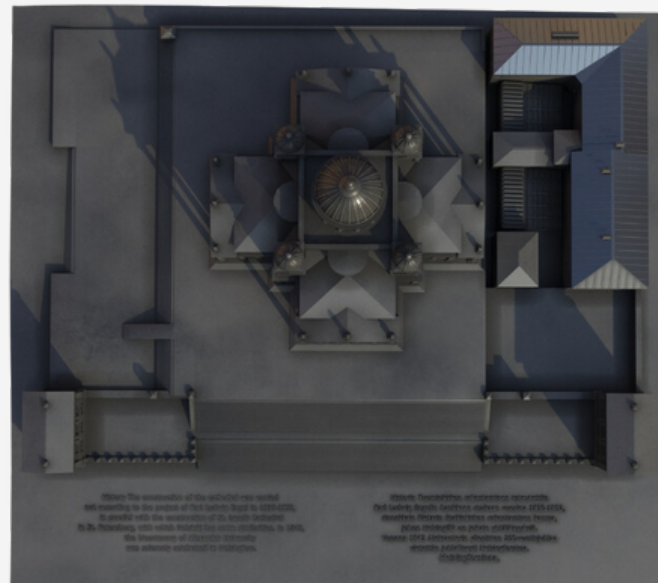


# ACTION PLAN



## Step 1. Making miniatures

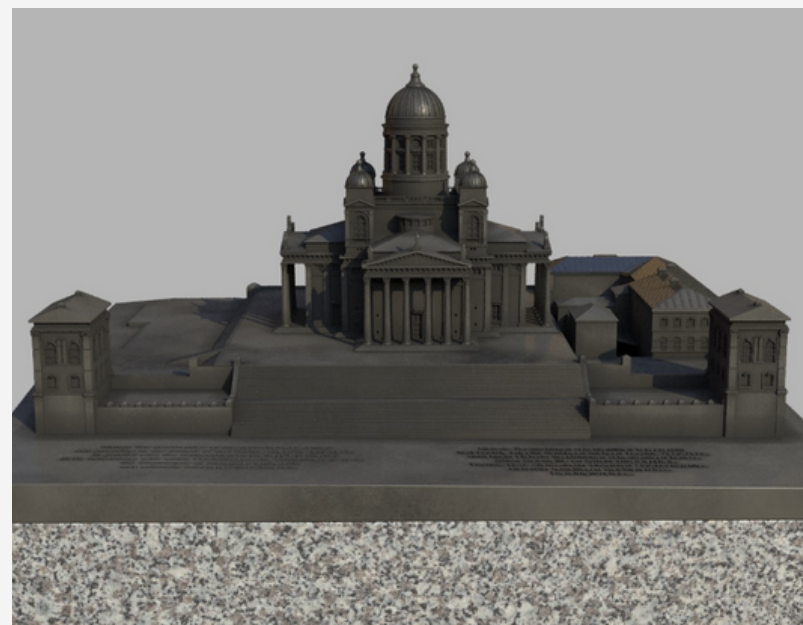
Scanning and photogrammetry of architectural object. Creation of a 3D model, production of a master model on high-quality 3D printers. Casting of the model in polymer bronze, and manual fine-tuning and assembly.



01

## Step 2. Installing miniature

After completion of the manufacturing process, we plan to install the miniatures in touristic places. We aim to create special areas where visitors can freely touch and enjoy the miniatures.



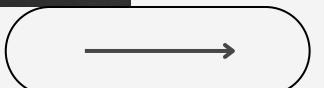
02

## Step 3. Promotion

We plan to actively promote the idea of miniature copies of Finland sightseeings. We intend to reach out to locals, tourists, organisations and foundations that share our passion for conservation.

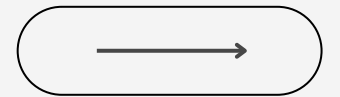
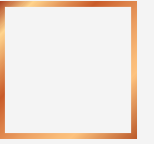


03



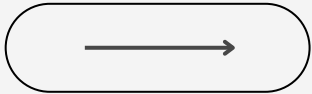
# RECENT WORKS

Odessa Opera Theater,  
Ukraine



# RECENT WORKS

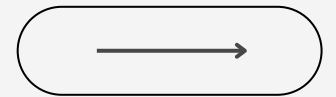
Name library. E. Malaniuk. City Kropyvnytskyi  
Odessa City Council. The city of Odessa





# RECENT WORKS

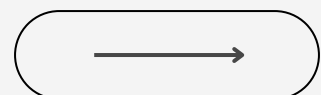
Odessa Maritime Museum. The city of Odessa  
Odessa colonnade. Symbol of the city of Odessa.  
Odessa archaeological museum. The city of Odessa





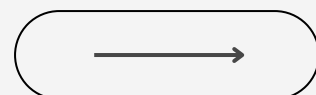
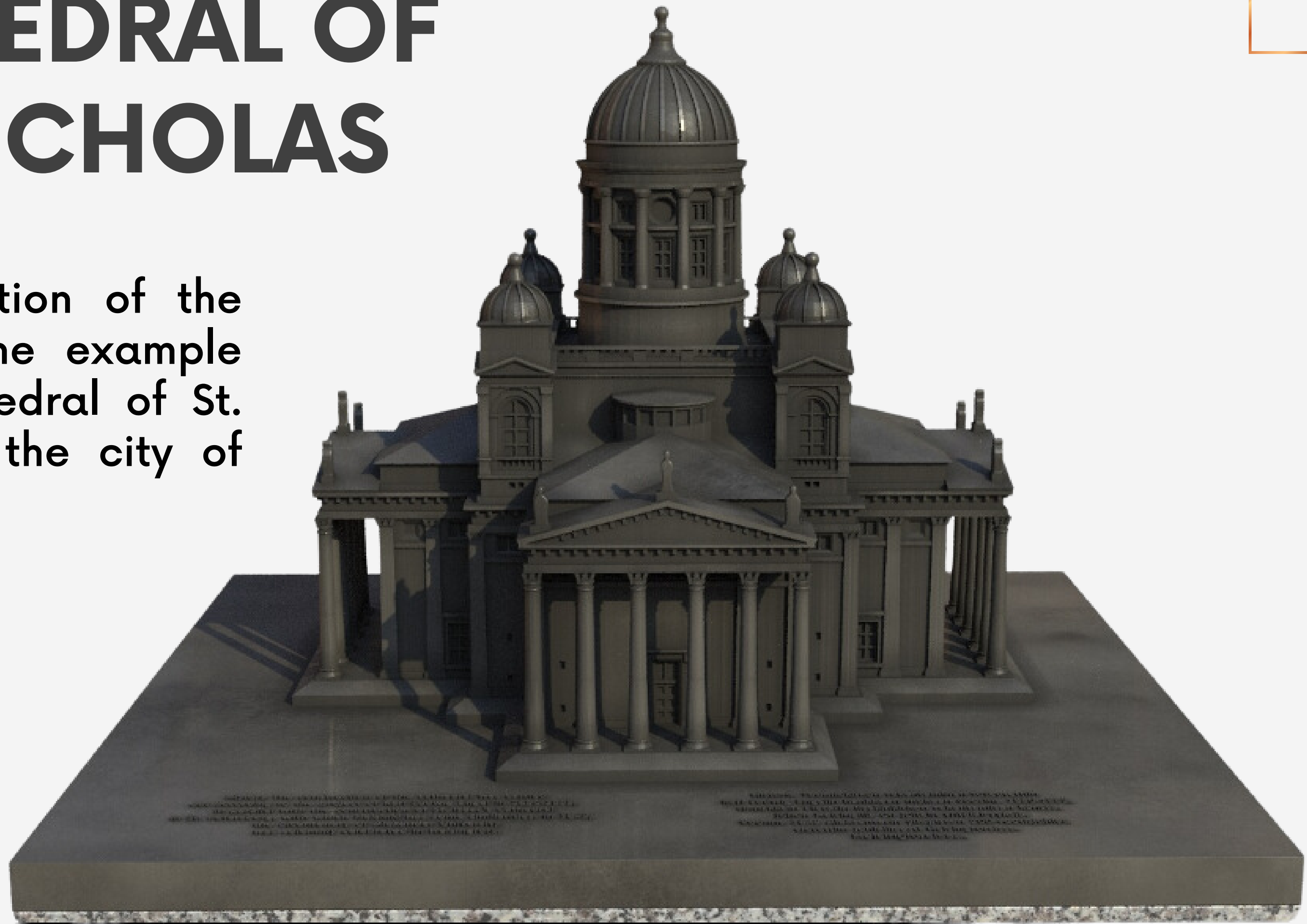
# CATHEDRAL OF ST. NICHOLAS

3D visualization made from series of real photoshoot of the Cathedral of St. Nicholas in the city of Helsinki.

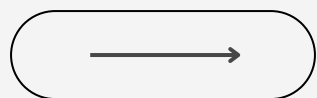
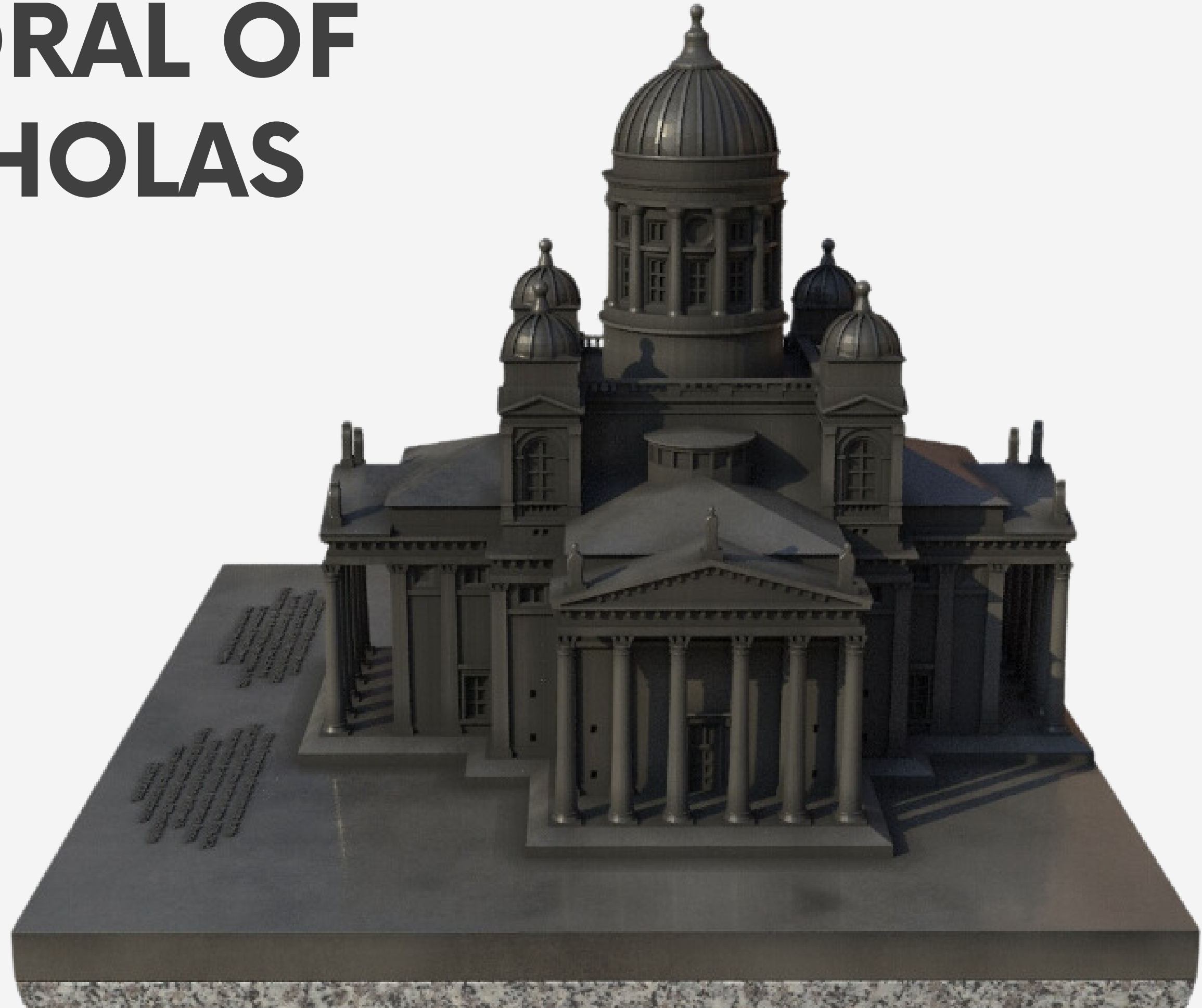
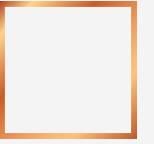


# CATHEDRAL OF ST. NICHOLAS

3D visualization of the  
model on the example  
of the Cathedral of St.  
Nicholas in the city of  
Helsinki.

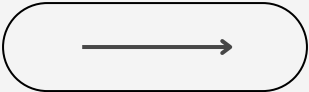


# CATHEDRAL OF ST. NICHOLAS





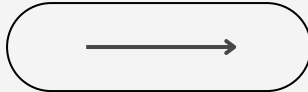
# CATHEDRAL OF ST. NICHOLAS



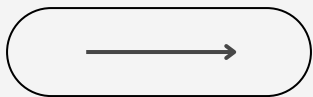
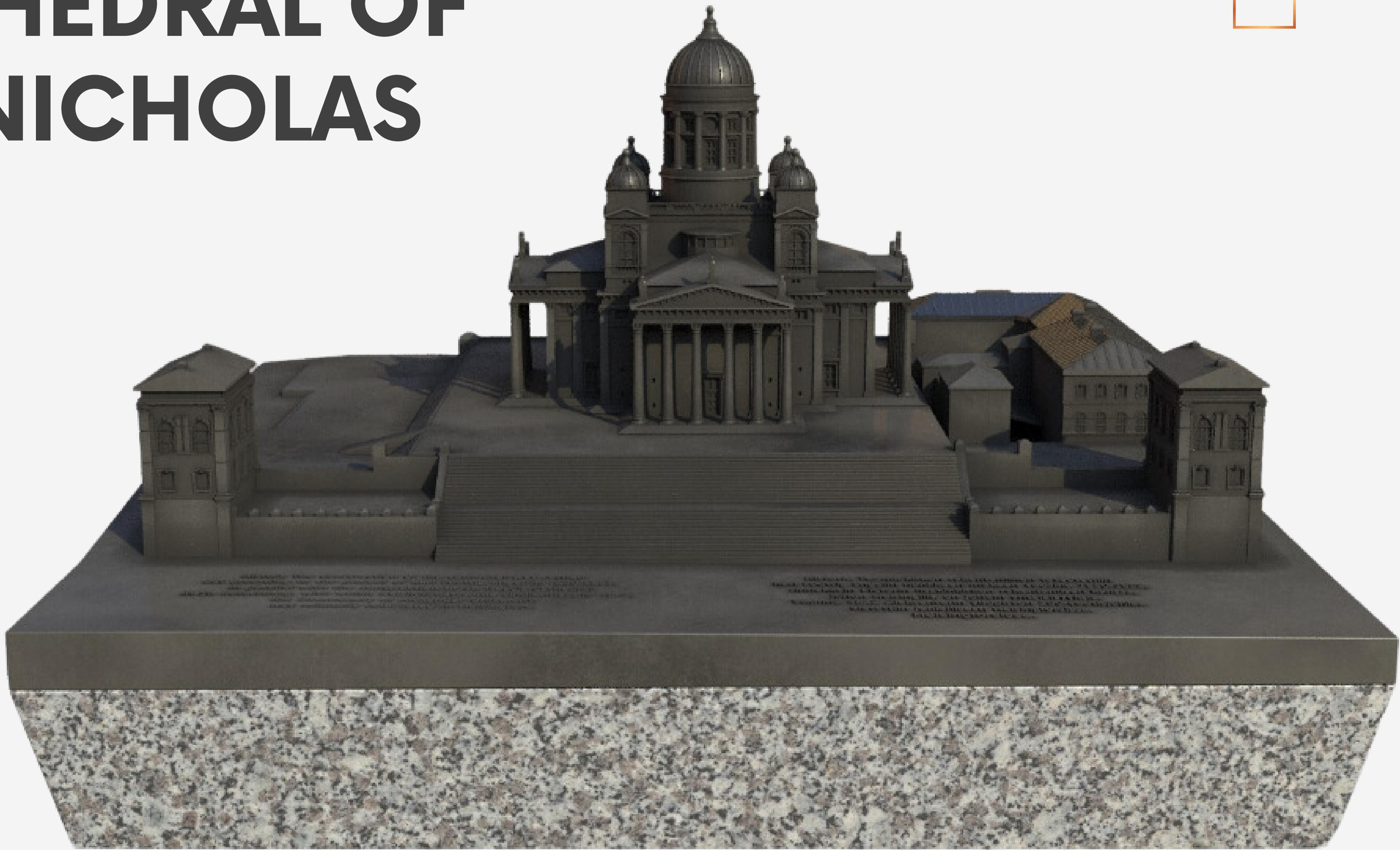
History The construction of the cathedral was carried out according to the project of Carl Ludwig Engel in 1855-1858, in parallel with the construction of St. George's Cathedral in St. Petersburg, with which St. Nicholas was rivalled. In 1862, the opening of Alexander University was solemnly celebrated in Nizhny Novgorod.

History The construction of the cathedral was carried out according to the project of Carl Ludwig Engel in parallel with the construction of St. George's Cathedral in St. Petersburg, with which St. Nicholas was rivalled. In 1862, the opening of Alexander University was solemnly celebrated in Nizhny Novgorod.

# CATHEDRAL OF ST. NICHOLAS



# CATHEDRAL OF ST. NICHOLAS



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