

# Presentation


# The Diolkos and the Road to the Corinth Canal

UNESCO World Cultural Heritage Symposium 2025  
Doukas School





# \*Diolkos Introduction

- The Diolkos, the first one ever created, was one of the most innovative engineering works of antiquity, allowing ships to be transported over land between the Corinthian and Saronic Gulfs.
  - It facilitated trade and military operations, making Corinth a major naval and commercial hub.
- 



# History and Construction

- Diolkos was probably built in the early 6th century BC during the rule of Periander, as an alternative to a canal.
- The stone-paved road was about 8 km long and 3.4 to 6 meters wide.
- It had two parallel grooves (wheel tracks) to guide wheeled vehicles that transported ships.
- Its slope did not exceed 1.5%, making transportation easier.






# The Technology of Diolkos

- ❖ Ancient Greeks developed pioneering techniques for moving heavy loads.
- ❖ The Diolkos system included:
  - ✓ Stone-paved tracks for stability
  - ✓ Wheeled vehicles made of wood and metal
  - ✓ Slaves and draft animals pulling the ships
- ❖ Similar techniques were later applied to rail systems and lifting mechanisms.





# Function and Usage

- Diolkos is recognized as a groundbreaking project that shaped navigation and trade.
  - It made Corinth a key naval and trade hub in antiquity.
  - Its use reduced the risks of sailing around the Peloponnesian Peninsula.
  - Key Features:
    - ✓ Innovation - The first overland ship transport system
    - ✓ Strategic Importance - Facilitated military and commercial movements
    - ✓ Efficient Transport - Increased speed and safety for maritime trade
  - Diolkos remained in operation from the Archaic period until the Roman era.
- 

# What Remains Today

- Sections of the Diolkos still exist in Peloponnese (255 meters) and Central Greece (204 meters).
- Its western end had a stone-paved dock, but the exact eastern end remains unknown.





# Historical Impact

- Diolkos played a crucial role in transportation and military operations in antiquity, shaping the history of Corinth and the entire Mediterranean.
- It was strategically used in wars, such as the Peloponnesian War and the Fall of Constantinople in 1453.
- Its concept remained relevant, influencing the design of later canals and transport networks worldwide.



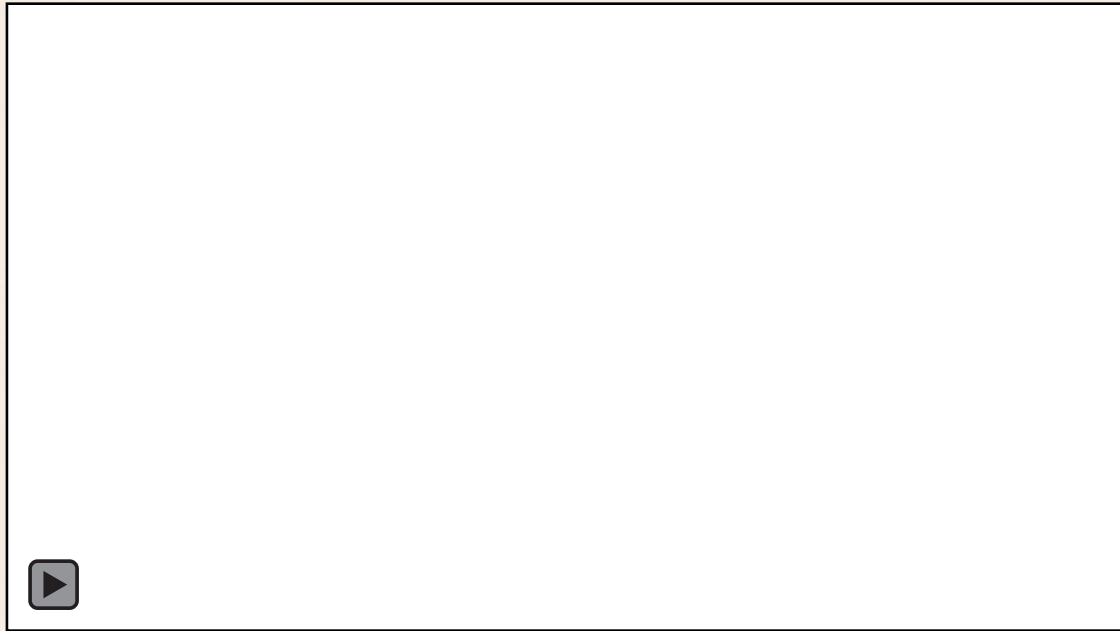


# Conclusion

- One of the greatest engineering achievements of antiquity.
- The Diolkos was the idea that later on inspired the creation of the Corinth Canal.
- Directly influenced modern engineering, transportation, and canal construction.
- A lasting symbol of Greek ingenuity and mechanical innovation.



## Video of the Diolkos



# Corinth Canal - Historical Background



## Need for Shortcut

The notion of creating a shortcut for ships to avoid the lengthy trip around the Peloponnese was considered by Ancient Greeks for centuries.



## Idea

This idea aimed to facilitate maritime navigation and trading.





# Early Greek Attempts

- In the 7<sup>th</sup> century BC, the tyrant Periander made the first known attempt to construct a canal at Corinth.
- Due to technical challenges, he abandoned this plan and instead built a simpler overland passage, the Diolkos\*, to transport ships and cargos across the Isthmus.
- Remnants of the Diolkos still exist today, adjacent to the canal.

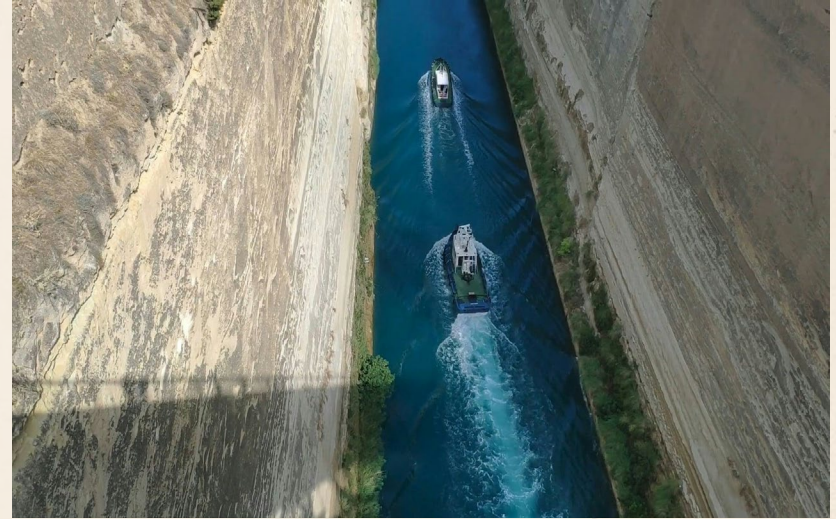
## Roman Period Efforts

When the Romans controlled Greece, they also pursued the canal project.

Julius Caesar recognized the potential benefits and sought to connect Corinth to enhance its strategic importance.

Under Emperor Tiberius, engineers tried to dig a canal but lacked the modern equipment required.

They created an ancient Egyptian-style mechanism, rolling ships across the Isthmus on logs.





# Efforts by Emperor Nero



In 67 AD, Emperor Nero commissioned 6,000 slaves, including captured Jewish pirates to dig a canal with shovels.

The project advanced approximately 700 meters before being abandoned upon Nero's death and the subsequent assumption of power by his successor, Galba.

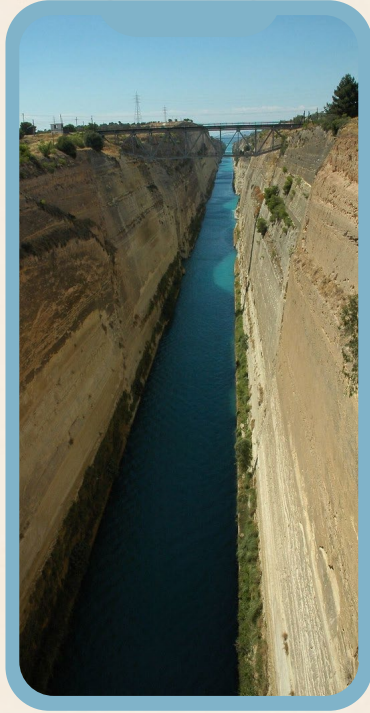


# Modern Era and Greek Independence

Following Greece's liberation from the Ottoman Empire, the idea of a canal resurfaced in 1830.

Despite several proposals and efforts, financial constraints delayed the project.





# Industrial Revolution's Impact

The Industrial Revolution provided the necessary technological advancements and revived the canal project.

Governor Capodistrias commissioned studies for the canal, but the substantial budget of 40 million gold francs was unattainable.

# Reviving the Project

## ● Location of the canal

Inspired by the success of the Suez Canal, the Zaimis Government passed a law in 1869 authorizing the canal's construction.

By 1881, the Greek state awarded the project to General Stefan Tyr, with construction expected to span from 1880 to 1893.





# Inauguration and Technical Achievements

The construction, managed by the "Company of the Corinth Canal" under Andreas Syngros, used advanced machinery and 2,500 workers.

The canal, stretching 6.346 meters in length, was officially inaugurated on July 25, 1893.

**It featured:**

Width of 24.6 meters at the sea surface and 21.3 meters at the bottom

Depth ranging from 7.5 to 8 meters

# Geological and Operational Challenges



The uneven geological composition of the canal's slopes caused periodic collapses, leading to closures.

Significant collapses in 1923 and during WWII (1944) caused extensive disruptions.





# Financial and Operational Shifts

The "Company of the Corinth Canal" operated the canal until 1906, facing financial difficulties.

**Until 1906**

In 1980, the Greek state assumed control, forming the "Anonymous Company of the Corinth Canal."

**1980**

**1906**

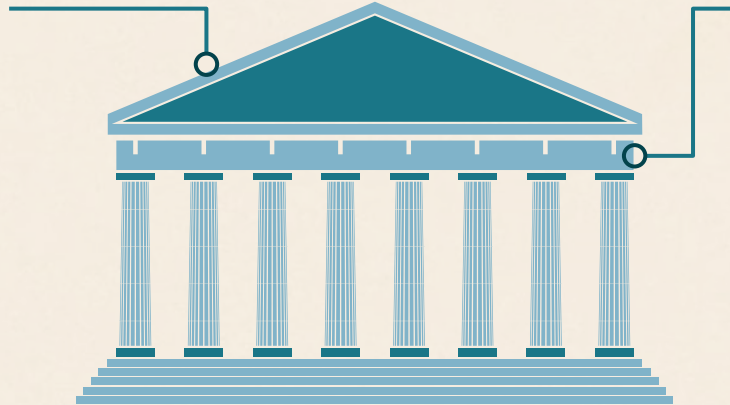
The National Bank then took over and established the "New Anonymous Company of the Corinth Canal."



# International Concessions and Management

**2001**

The Ministry of National Economy held an international tender for a concessionaire to manage the canal for 30 years.



**Sep 10<sup>th</sup> 2001**

Sea Containers Services Ltd., through Periandros S.A., won the concession, effective from September 10, 2001.



# Current Significance – Legacy – Impact

01

The Corinth Canal serves as a crucial international maritime route, connecting the Ionian and Aegean seas.

02

Approximately 12,000 ships from over 50 nationalities pass through the canal each year.

03

The canal's creation marked a significant milestone in Greek infrastructure and maritime history.

04

It stands as a unique meeting point between East and West, facilitating global trade and navigation.



# Thank you for your attention!

## Resources

- <http://www.ofse.gr/index.html>
- <http://www.sansimera.gr/articles/115#ixzz46d1E5RHW>
- [www.aedik.gr](http://www.aedik.gr)
- <https://greekreporter.com/2023/10/23/history-corinth-canal-greece/>
- <https://el.m.wikipedia.org/wiki/%CE%94%CE%AF%CE%BF%CE%BB%CE%BA%CE%BF%CF%82%CF%84%CE%BF%CE%BA%CE%B1%CE%B9%CE%BD%CE%BF%CF%84%CF%8C%CE%BC%CE%BF%CE%B5%CF%80%CE%AF%CF%84%CE%B5%CF%85%CE%B3/>
- <https://www.iellada.gr/istoria/i-arhaia-diolkos-toy-isthmoy-tis-korinthoy>
- <https://filoitexnisfilosofias.com/%CE%B4%CE%AF%CE%BF%CE%BB%CE%BA%CE%BF%CF%82%CF%84%CE%BF%CE%BB%CE%B9%CE%B8%CF%8C%CF%83%CF%84%CF%81%CF%89%CF%84%CE%BF%CF%80%CE%BF%CF%85%CE%BF%CE%B9%CE%B1%CF%81%CF%87%CE%B1%CE%AF%CE%BF%CE%BC%CE%BC/>
- Archives historiques BNP Paribas





# Personal Remarks



- Laura Vasilaki - @laura\_vasilaki
- Sotiris Karelis - @\_karelhs
- Ariadni Marinaki - @ari\_\_marinakii
- Chrisini Douka - @chriss.duke
- Nicolas Vythoulkas - @n\_vythoulkas
- Maria Christina Papadopoulou - @mariaaxristinaa\_
- Dimitra Laiou - @dimitralaiouu
- Melina Kritsotaki - @\_.melinaa.k\_
- Nicolas Tampakis - @nicolastampakis

