

ITINERARIUM ROMANVM SERBIAE

ROADS OF THE ROMAN EMPERORS

SMALL DIGITAL MUSEUMS

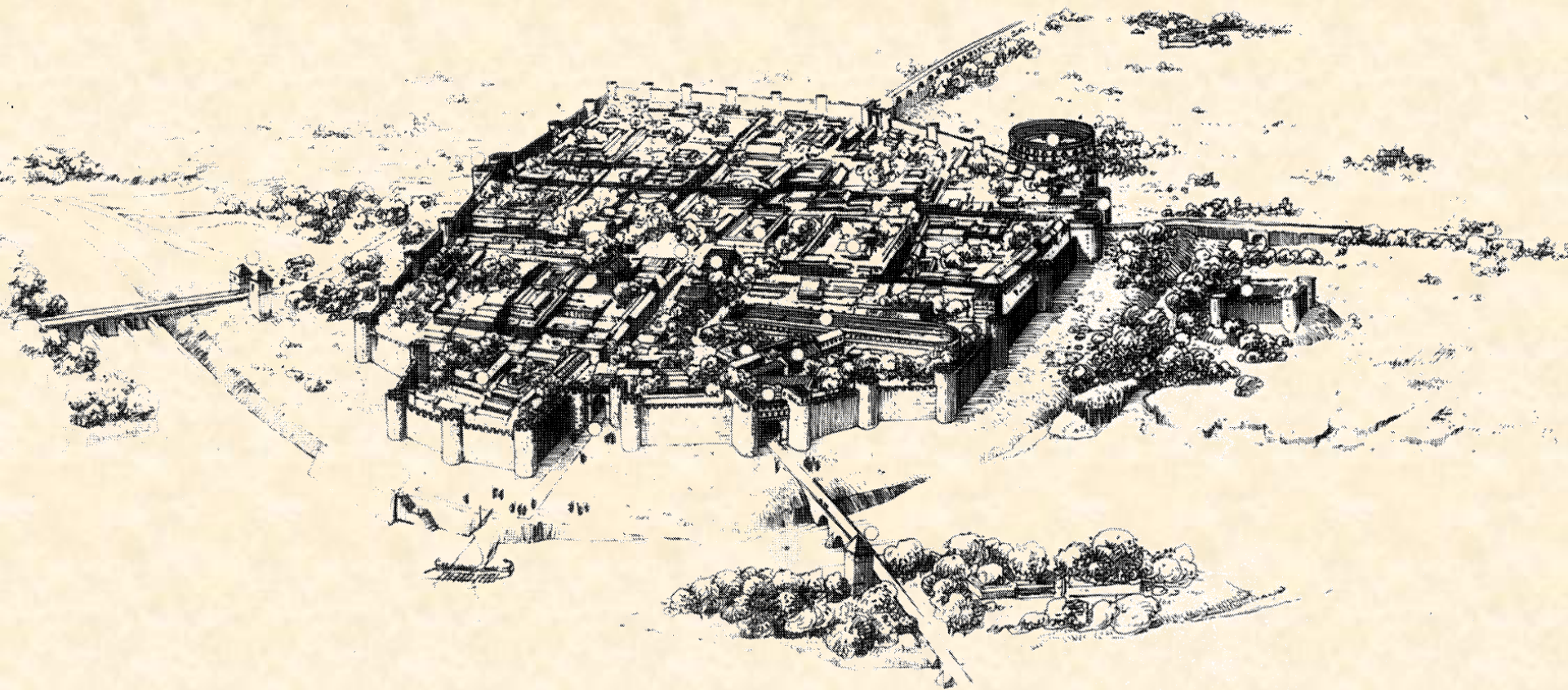


SIRMIUM

SREMSKA MITROVICA

**IMPERIAL CITY – ONE OF THE CAPITALS
OF THE ROMAN EMPIRE DURING
TETRARCHY**

Late 3rd and beginning of the 4th century A.D.



SINGIDUNUM

BELGRADE

**SINGIDUNUM WAS THE CITY
WITH THE RANK OF MUNICIPIUM
AND COLONIA**

**MAJOR MILITARY CAMP -
CASTRA LEGIONIS IIII FLAVIAE FELIX**



**LOCATED UNDER
PRESENT DAY
BELGRADE CITY
CENTRE AND
MEDIAEVAL
FORTRESS
KALEMEGDAN
EXTREMELY LIMITED
AREA FOR EXCAVATION**

SINGIDUNUM

BELGRADE

REMAINS ARE SCATERED AND
FRAGMENTARY BUT
CONFIRM IMPORTANCE OF THE
CITY POSITIONED ON
STRATEGIC LOCATION



VIMINACIUM

STARI KOSTOLAC

**IMPERIAL MAUSOLEUM AT
EASTERN CEMETERY
BURIAL PLACE OF
EMPEROR HOSTILIANUS
(251 AD)**



**3D MODEL
IDEAL RECONSTRUCTION**



**3D MODEL
IDEAL RECONSTRUCTION**



**3D MODEL
PRESENT SITUATION
CREATED WITH TRIMBLE
3D SCANNER**



VIMINACIUM

STARIKOSTOLAC

TOOMBS WITH FRESCOES
PAINTINGS

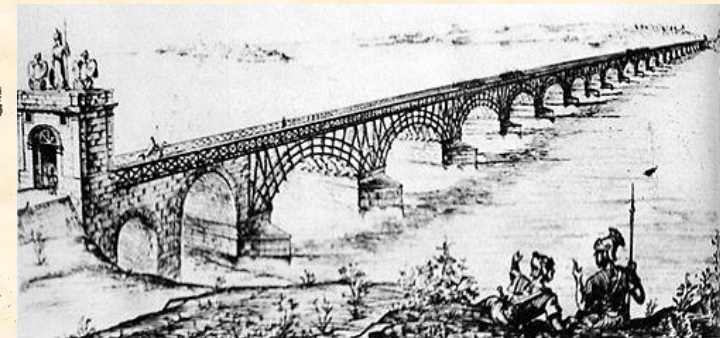
ONE OF THE BEST EXAMPLES OF
ART DURING LATE ANTIQUITY
3RD – 4TH CENTURY



PONTES

KOSTOL

TRAJANS BRIDGE
BEGINNING OF THE 2ND CENTURY A.D.
ONE OF THE ARCHITECTURAL MARVELS
OF THE ANCIENT WORLD
LONGEST BRIDGE OVER DANUBE
BEFORE MODERN TIMES



PONTES

KOSTOL

**TRAJANS BRIDGE
PRESENT DAY REMAINS ON THE
RIGHT BANK OF DANUBE**



FELIX ROMULIANA

GAMZIGRAD



**IMPERIAL RESIDENCE
PALACE OF EMPEROR
GALERIUS**

**UNESCO 2007
WORLD HERITAGE
SITE**

FELIX ROMULIANA

GAMZIGRAD



MEDIANA

BRZIBROD



**MOSAICS
DECORATE
FLOORS OF
THE ENTIRE
IMPERIAL
COMPLEX**

IUSTINIANA PRIMA

CARIČIN GRAD

ARCHIEPISCOPAL CHURCH



SMALL DIGITAL MUSEUMS (SDM):

- Small museums on most important route points within or apart from local museums, preferably on sites itself
- These museums do not intend to replace but to provide additional experience which is not possible in classical museums
- These museums do not endanger artifacts which could be damaged or stolen in inappropriate conditions – and creating these conditions is very expensive
- Hi-tech audio and visual equipment is needed for full experience
- Digitalization of artifacts and architectural remains is a way of preventive conservation and preservation, especially if they are endangered in any way.
- Small space needed.
- Some architectural marvels like Trajan's bridge at Pontes can be only virtually reconstructed.

DIGITAL INFORMATION POINT (DIP):

- Located in boarding houses.
- Standard computer station.
- Low cost and easy presentation. One modified presentation can be adapted to small individual points

DIGITAL WEB MUSEUM

- For all those who are not able to visit sites themselves.
- Speed of internet access is giving more and more possibilities in types of presentation and file sizes.

ArcTron

Engineering Services for 3D Surveying and Archaeology





Viminacium cemetery (necropolis) – golden jewelry finds from 2nd – 3rd century graves



Virtual reconstructions are very important. It is not just to see how it looked like, but how did it look like when it was used.

SMALL DIGITAL MUSEUM CONCEPT:

ADVANTAGES

- **Requires small initial investments comparing to classical museums**
- **Original artifacts are not exposed and put in danger**
- **Small number of personnel needed**
- **Buildings and tombs that would be very expensive and ethically problematic to reconstruct can be easily reconstructed for full experience**
- **Visitors although looking for ancient remains require full perception (example: to see the full reconstruction, interaction, reviving of events and situations)**

SMALL DIGITAL MUSEUM CONCEPT:

DISADVANTAGES

- **Sense of touch is fully excluded... People like to touch things...**
- **Expensive digitalization equipment**
 - 3D Scanner for architectural monuments
 - 3D Scanner for small artifacts
 - High quality digital cameras
 - Very expensive software
 - Few people capable to use equipment for digitalization, and to do modeling and programming

SMALL DIGITAL MUSEUM CONCEPT:



FACTS

- All major sites are covered by wireless internet
- Video surveillance can be used as a part of presentation

Centre for New Technologies “Viminacium”

Already in possession of some equipment

- 3D Scanner for architectural monuments
- High quality digital cameras
- 3D software
- People capable to use equipment for digitalization and modeling

PROBLEMS

- Stable financing
- To few people involved in project



Re-living ancient history???



Re-living ancient history!

ITINERARIUM
ROMANUM
SERBIAE

ROADS OF THE ROMAN EMPERORS