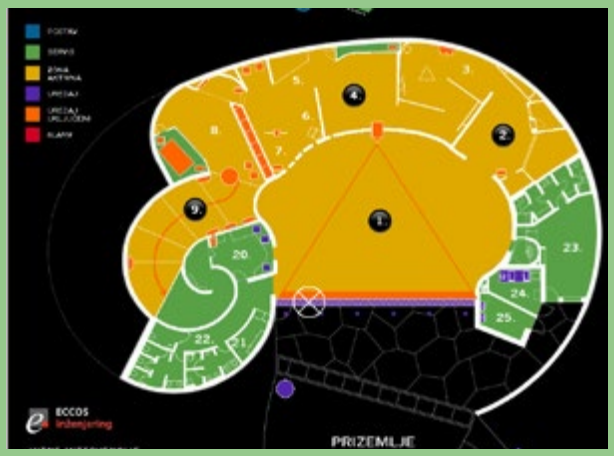
A Realistic Exhibit in the New Neanderthal Museum

Customer Success Story

Museum of Krapina Neanderthals
Krapina, Croatia



Overview of the Museum

About The Museum of Krapina Neanderthals

The Museum of Krapina Neanderthals is located in a glen between two small hills near the modern city of Krapina, in northern Croatia. The museum represents the spectacular Krapina site, where a Neanderthal village was discovered in 1899 by Dragutin Gorjanovic. The archeological site, one of the richest and most heterogeneous in the world, had over eight hundred fossil remains of 75 Neanderthals and their tools and weapons.

Opened in February 2010, visitors to the museum's 1,200 square meter exhibition space experience a simulation of the way of life in a Neanderthal cave 130 thousand years ago. Through touch screens, video-walls and numerous audio, visual and scent installations, visitors enjoy a highly interactive museum experience.

The Museum of Krapina Neanderthals is technologically oriented and extraordinarily equipped for multimedia presentations enabling an engaging visitor experience.

ICONICS Software Deployed

SCADA technology in the Museum of Krapina Neanderthals integrates diversified and seemingly incompatible electronic subsystems of building and exhibit installation components. ICONICS GENESIS32™ HMI/SCADA suite connects and automates the Museum of Krapina Neanderthals' building management systems, security systems and multimedia systems. The museum is enabled with data acquisition and aggregation, analysis and alarming, visualization and real-time status of installations and components. Complete visualization and automation is accessible through a single personal computer with a simplified and reliable graphical interface.

ECCOS inženjering and ICONICS developed a unique solution for visualization and control of the Museum of Krapina Neanderthals, satisfying the needs of the investors, authors and operators of the site.

Project Summary

Harmonious integration, coordination and automation of multimedia components, building management systems (BMS) and security systems defined the specific needs of the project.

Multimedia components comprised of:

- Computers
- Projectors
- MPEG players
- Audio,video and scenting equipment

Building management systems (BMS) included:

- Electrical branch circuits and lighting
- Metal curtains
- HVAC

Security Systems consisted of:

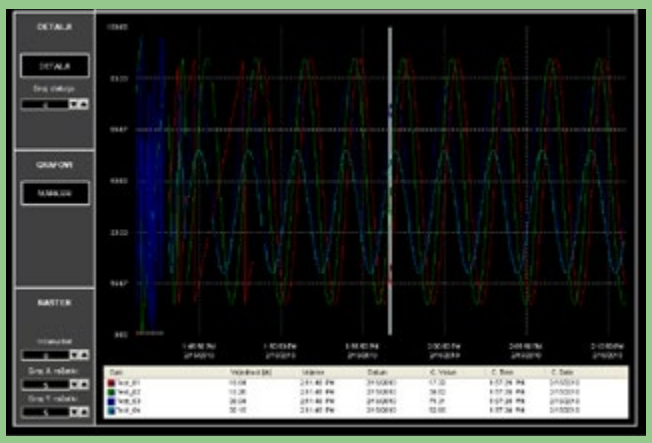
- Siemens fire system
- Honeywell intrusion system

At the core of the system, ICONICS GENESIS32, using Matrikon's OPC server and a Schneider Electric M340 PLC, integrates to establish full supervision and control over all the electronic and electrical systems.

Benefits of the System

While the details of this project affirm the ability of ICONICS and ECCOS inženjering to seamlessly coordinate diverse subsystems, the strength of the project is revealed through control simplification. Automation scripts simplify everyday control reducing a complicated system to several keyboard commands, making the system accessible and controllable for users with little technological knowledge.

Easy-to-identify Symbols Correspond with the Museum's Systems



Trending Display for the Museum of Krapina Neanderthals

The vast majority of communication is based on the local Ethernet network, while the PLC is connected with security and BMS systems through digital/analog inputs and outputs.

The communication between the central computer and the multimedia components is based on the local Ethernet network using diverse protocols including SNMP, C-BUS/LON, DMX, HTTP and ASCII.

Conclusion

ICONICS and ECCOS inženjering help bring ancient history to life. A balance of technologies powers the exceptional interactive experience of the Museum of Krapina Neanderthals.

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